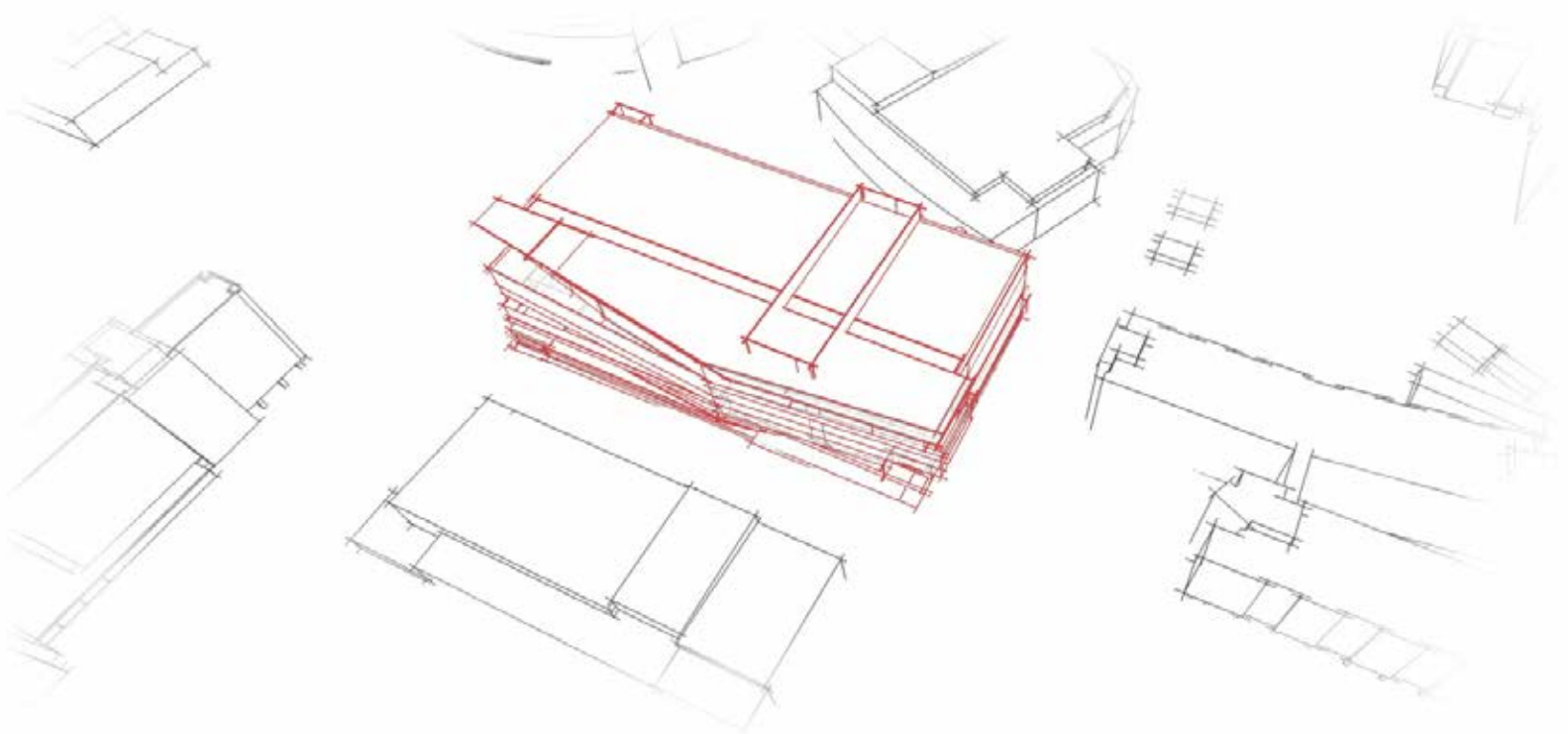


PROGRAM STATEMENT
SOUTHEAST RECREATIONAL FACILITY REPLACEMENT
University of Wisconsin-Madison, Madison, Wisconsin

May 16, 2016



University of Wisconsin-Madison

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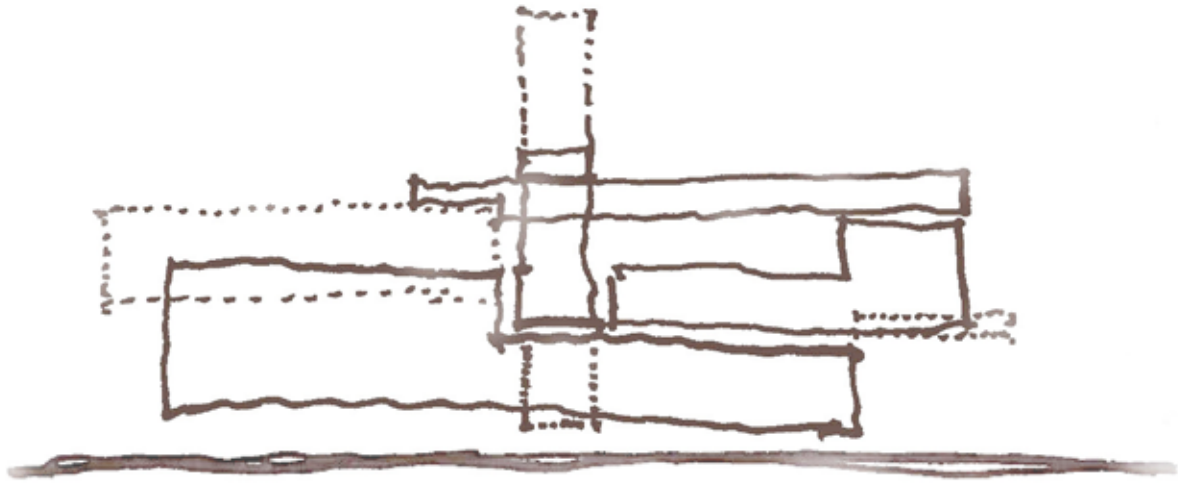
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**14L2T Southeast Recreation Facility Replacement
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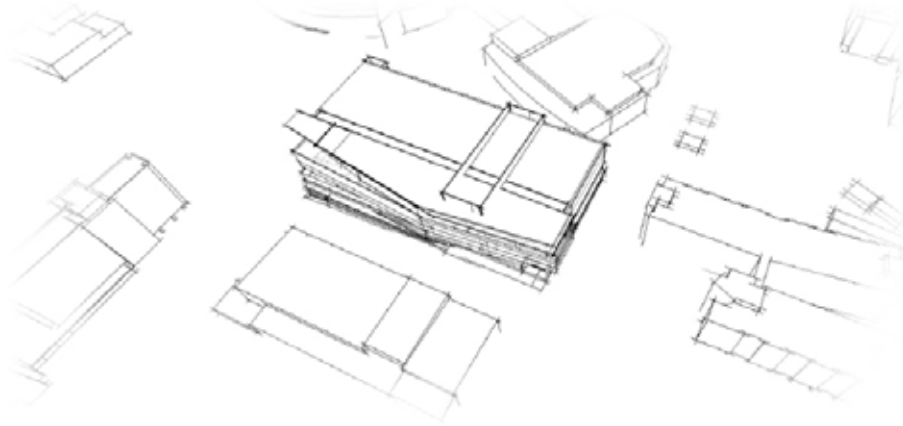
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SECTION A PROJECT DESCRIPTION



The proposed project will construct program space for the Division of Recreational Sports (Rec Sports) and the Division of Intercollegiate Athletics, including a new competition pool at the same location as the existing Southeast Recreational Facility (SERF) building. The project will include the demolition of approximately 125,118 ASF/191,254 GSF SERF and the construction of a 170,145 ASF / 240,560 GSF building which is a 26% expansion, or 49,306 gross square feet.

The new SERF facility will house expanded and enhanced open recreation spaces including weights, strength, cardio, and functional fitness areas; 8-basketball courts divided into a separate 4-court + 2-court + 2-court gym arrangement with each gymnasium striped for a variety of sports; an indoor walking and jogging track; several multi-purpose rooms supporting fitness and group exercise classes; 2-racquetball courts; and an administrative area. An expanded, flexible facility design will accommodate changing trends and program interests and will also provide opportunities for Rec Sports to offer accessible facilities for participants of all abilities.

The project will also include a new Natatorium with 50-meter competition pool and a separate diving well to share between Rec Sports, and the Division of Intercollegiate Athletics. The new competition pool is intended to be the new home site of the UW-Madison Swimming and Diving program and will be designed to meet current NCAA standards for a competition pools and the Big Ten Conference. The new Natatorium space will include additional support spaces including an area for spectator seating, dryland training for swimming and diving, pool storage, visiting team locker rooms, a shared wet classroom, a shared multipurpose room, timing and meet management rooms, as well as pool mechanical and storage areas adjacent to the pool deck. The project will maintain the recently constructed athletic home team locker and training facilities in LaBahn Arena and the existing elevated link that connects the LaBahn Arena to the current SERF will be maintained as part of the new SERF project. The new Natatorium will be outfitted for hosting special events with seating for approximately 1,000 spectators, as well as support spaces such as restrooms, concessions, ticketing and a separate entry lobby for spectator access. In addition to creating new opportunities for the Athletics programs, an expanded pool and deck space also creates opportunities for increased community and recreational use including lap swimming, instructional programs, fitness classes, etc.

Exterior site work with this project will include Green Street improvements along Dayton Street to the north in accordance with the 2015 UW-Madison Campus Master Plan. Additional site development also encompass the redevelopment of parking areas to the east and south sides of the SERF as well as utility improvements, including steam, chilled water, electrical and communication distribution services/equipment in support of the new SERF program.

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SECTION B

PROJECT GOALS AND OBJECTIVES

B.1 Project Goals

The University of Wisconsin – Madison represents *community and excellence*, all set within a beautiful urban setting. The State Capitol, collegiate life, and spectacular location of the Campus between two lakes creates an opportunity for a unique project setting within a context that celebrates the University, its diverse student body and connections to the outdoors.

Madison and the UW campus community also perceives itself as a very fit university environment based on student surveys. Creating a greater understanding of what fitness means and what fitness looks like as part of an expanded student-life experience is an important goal for the SERF project. The SERF project has an opportunity to redefine recreation on campus while providing expanded opportunities for fitness and wellness education on campus for future generations of students.

While the primary general goal for the SERF project is to replace the existing facility with a new larger, modern, code compliant facility, following are some broader goals discussed as part the programming planning process:

B.1.1 Broad Goals for the SERF Project

- **Create a Sense of Place that is Uniquely Madison**

The University of Wisconsin-Madison is more than just a special place, it is a community. The identity and brand of the UW-Madison campus community is defined not only by the diversity of its *natural physical environment* and a strong desire for connectivity to the outdoors, but also a commitment by students and the community to encourage and support an *active lifestyle* focused on wellness. The design for the new SERF will strive to capture this passion and spirit throughout the facility in a way that creates a special sense of place for both UW Rec Sports and Intercollegiate Athletics.

- **Inspire Students to Exercise**

One of the overarching goals of the SERF project is to create an environment that *“inspires students to exercise”*. During the pre-design planning meetings, fitness staff specifically noted that - “people come to the SERF for the intimacy and the experience”. UW Rec Sports believes there is an opportunity to create an environment for students to broaden their individual fitness experience while also providing enhanced opportunities for healthy social interaction. The design of the entire SERF facility should be inspired by an attitude of *“wellness”*. Fitness and wellness should not be just be a collection of assignable rooms, but rather a culture and experience that permeates throughout the entire building. Spaces will be celebrated and come alive with activity, with the overall user experience enhanced by natural day light, campus views, improved air quality and connectivity. The objective is to create a facility where people are inspired to exercise and use the SERF throughout the day.

- **Create an Environment of Inclusion**

Providing options for students of different demographics and backgrounds to maximize *“inclusion”* and minimize exclusion is a priority goal for University and staff. The design solution for the SERF project will strive to create an environment that celebrates diversity by creating *“neighborhoods of fitness”*. Students also want more choices and options to have different experiences within the SERF from casual interaction to more formalized, structured recreation experiences.

- **Create Flexible Spaces**

Provide “*flexibility*” for the masses. The new SERF facility will create new opportunities to welcome students, faculty and members of the community not just for fitness but also for competitions, workshops, classes, recruiting events and social gatherings. Each space within the new building will be designed for maximum use, including versatility to support a variety of program uses. Spaces will be planned and detailed effectively to ensure they can accommodate and adapt to changing uses / activities during the facility’s lifetime as trends in fitness and recreation change.

- **Create a Benchmark Competition Venue for Swimming & Diving**

With evolving student expectations and an increasingly competitive landscape for student-athletes, the new SERF is an opportunity to create a facility that will have an immediate impact on student recruitment but also the *recruitment and development of athletes* associated with the UW Swimming and Diving team. The new SERF Natatorium will go beyond the basic functional needs for NCAA swimming to integrate design features and pool technologies in an innovative way that creates a new benchmark natatorium venue for the Big 10 Conference while maximizing recreation aquatic program opportunities for students and staff. The natatorium will be designed with a shared focus on functionality and training.

- **Embody a Holistic Approach to Wellness**

The design for the new SERF will create a vibrant, sustainable destination for students that promotes and supports the *physical* and *mental well-being* of all users. With an emphasis on wellness, innovation, sustainability and related enhancements to student life, the new SERF has an opportunity to foster a healthy campus community and strengthen synergies with other campus programs supporting wellness programs for students. This is a philosophy that the design team describes as “*Healthy Buildings for Healthy Bodies*”.

B.1.2 DESIRED OUTCOME AS A MEASURE OF SUCCESS

The design of the new SERF will strive to pay attention to the needs of UW students by providing the greatest value and doing more for less. A key measure of success for the new facility will not only encompass a measurable increase in student visit to the SERF, but also include a reduction in wait times for courts, exercise studies, and the creation of a reimagined destination on the southeast side of campus as a new hub for student life activities. Value will be measured through expanded fitness / wellness spaces as well enhanced opportunities for students to exercise, compete, socialize, learn and experience wellness through new programming.

B.1.3 POTENTIAL CHALLENGES

The new South East Recreational Facility structure will replace the existing facility with a larger program of spaces within the same overall site footprint as the existing SERF building. The new design and layout of spaces will be challenged by physical limitations on all four sides of the property, including the need to maintain the existing bridge connection to LaBahn Arena on the south side of the property for access to UW Swim and Diving team locker facilities.

Additional challenges include the planning to accommodate the ability for controlled operation of the Recreation and Natatorium portion of the building as shared but separate facilities serving both UW Rec Sports and

UW Intercollegiate Athletics for the Swimming and Diving programs. During selected times of the day and year the Natatorium has to be able to function as a training and competition venue without interfering with the operation of the recreation center. The building will need to be designed such that spectators, coaches and student-athletes have full access to pool facilities and public hospitality areas without crossing over into the simultaneously controlled recreation zone.

B.1.4 ESSENTIAL COMPONENTS & FEATURES

During the Pre-Design phase planning meetings, the fitness staff specifically noted that “people come to the SERF for the “intimacy and experience”. UW Rec Sports believes there is an opportunity to create a special fitness experience for students with enhanced opportunities for individual development as well as social interaction. According to Rec Sports Administration, the highest space priorities for expanded program areas and components of the project will need to include the following specific areas as feature areas, with the Fitness spaces identified as the highest priority for the recreation portion of the SERF project:

Specific Goals and Priority Program Spaces

- Larger Fitness Spaces and Expanded Fitness Opportunities
- Enhanced Wellness Offerings
- Longer Indoor Running Track
- Additional Multipurpose Exercise Studios
- Additional Gymnasiums / Court Space for Basketball, Volleyball, Futsal, etc.
- New Competition Pool & Natatorium for UW Swimming & Diving

Additional features of the project will include improved visual connectivity between recreation spaces, enhanced social areas, improved wayfinding and technology. The goal of these support elements will be to create an architectural language that effectively guides and orientates users naturally through the building to create an environment that is safe, secure and visually dynamic

**14L2T Southeast Recreation Facility Replacement
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SECTION C PURPOSE AND SCOPE

Since 1983, the Southeast Recreational Facility (SERF) has served the users living in the campus residence halls nearby. It provided the students with multiple gymnasiums, jogging track, locker rooms, natatorium, racquet-ball courts, and a weight room. The very popular facility became the main home for the Rec Sports staff and was shared with the Kinesiology, Physical Education, and Intercollegiate Athletics departments. In June of 2003, the facility received an addition on its west end that included 2 gymnasiums, expanded Cardio Center and a new Fitness Studio. This created a 192,000 square foot facility with approximately 125,000 assignable square footage for recreation services.

The University of Wisconsin-Madison has an enrollment of over 43,000 students, and a large portion of them, along with faculty and community members, use the SERF as their primary indoor recreational facility. According to the 2006 National Intramural-Recreational Sports Association (NIRSA) Space Planning Guidelines for Campus Recreational Sport Facilities, approximately one (1.0) assignable square feet of total dedicated fitness equipment space should be provided for each student. Additionally, the industry is moving towards a demand for more fitness space and it is expected that this national average will increase to as much as 1.5 assignable square feet in the near future. The existing SERF contains only about 8,000 total assignable square feet of space dedicated to fitness equipment space. The result, is an overcrowded facility with long lines to access the facility, long waits to use the courts, and limited availability for fitness equipment. Based the criteria above, the recommended range for total fitness equipment space for the UW-Madison campus should be from 43,000 to 64,500 ASF according to current national standards.

In addition to being undersized, the deteriorating physical conditions of the SERF has created the need for costly repairs. The September 29, 2014, *DFD SERF Building Condition Assessment* study completed by INSPEC identified over \$12.3 million of major repair and maintenance needs.. Within this report, significant expenditures have also been identified for the exterior cladding and roof-cap repairs, elevator replacement, emergency/back-up generator upgrades, and replacement of the pool plumbing equipment, among other items.

Beyond the numbers, the quality of the space within the facility needs to be improved. Through feedback received from the students, a general consensus of need has been created that is reflected in the following quotes from students:

“The existing SERF is “closed off” and not inviting. There is no room for backpacks and personal items. Air is bad. Need less wait time”

“Air Quality in the existing SERF is “horrendous”. The basement is scary with sweaty dudes and smells like crap.”

“The existing SERF feels like a dungeon with concrete floors. Where do I go? I used to play volleyball, now I don’t even try.”

“The SERF building is confusing. Where am I going? As a staff member, giving directions is tough.”

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The Recreation Sports Master Plan (DFD Project No. 13D3P) previously completed as the basis of the student referendum, proposed a major renovation/addition to the SERF that would add more than 60,000 square feet of building space to the existing SERF footprint and maintain the existing pool vessel, but the need for a high-caliber competition venue for the UW Swimming and Diving programs pushed for a complete demolition of the existing SERF and construction of an entirely new dual-use recreational facility as a preferred option. In the Spring of 2015, this project proposal was put to referendum and drew the largest referendum response in UW-Madison's history with 87% of the responding students voting in favor of increasing fees and moving forward with the Spring 2012 Rec Sports Master Plan proposal to construct a new SERF facility.

The aim of the new SERF project is to create an invigorating and active environment that will become a destination on southeast side campus for students to workout, compete, practice, socialize, learn, and have fun. The new facility will also provide an opportunity to shed the solid clad exterior of the existing facility and create a more transparent facade that showcases the activity within the building.

SECTION D PHYSICAL PLANNING ISSUES

D.1 Site / Existing Conditions



Campus Context

D.1.1 Project Context

A general description of the site boundaries (starting on the western edge and working clockwise) is as follows:

- East of East Campus Mall
- South of West Dayton Street
- West of the Kohl Center Lawn
- North of the LaBahn Arena

Improvements in the Dayton Street right of way will be limited to the sidewalk, city terrace, and curb and gutter, and utility connections in the roadway. It is anticipated that the entire project site will be reconstructed due to staging and construction activity.

D.1.2 Existing Land Use

The site for the proposed SERF project is located on the site for the existing SERF facility including parking and landscaping.

D.1.3 Landholdings

All of the land on which the proposed SERF project will be located, along with the surrounding properties to the east and south are owned by the University of Wisconsin. The roadway right-of-way along the north and west edges, including the East Campus Mall, of the site are owned by the City of Madison.

D.1.4 Zoning

The site is currently zoned as part of the Kohl Center's Planned Unit Development (PUD). The University and the City of Madison are working on developing a single zoning district for the University to simplify future zoning approvals.

D.1.5 Easements

American Transmission Company (ATC) has an existing easement for buried high voltage electrical transmission lines. The easement generally runs east-west across the south edge of the project site. Any planned work within the easement must be coordinated with ATC. ATC must approve the planned work before construction work may begin within the easement.

No new easements are expected for the utilities serving the building.

D.1.6 Future Acquisitions

No future acquisitions are required for the planned SERF facility and site improvements.

D.1.7 Topography

The project site encompasses approximately 12 feet of grade change from the highest point (elevation 868 feet) at the northwest corner where East Campus Mall intersects Dayton Street to the lowest point (856 feet) at the northeast corner near the Dayton-Lake Street intersection.

D.1.8 Vegetation

Currently, the site's minimal, existing vegetation consists of perennial and ornamental tree planting beds on the west side of the existing building, deciduous canopy trees and evergreen shrubs on the north, turf grass lawn on the east side wrapping around the parking lot to the south, and miscellaneous foundation plantings on the south side. No street trees exist along Dayton Street.

More significant plantings occur off-site, on adjacent properties. The Kohl Center trees east of the project site will be protected, and, if necessary, any construction staging activity will maintain adequate clearance from the tree canopies to avoid disruption to the tree health.

An attractive perennial and shrub planting buffer along the south boundary of the project site will be protected from construction disturbance as much as possible.

D.1.9 Subsurface Conditions

At the time of this writing new soil borings have not yet been taken. The existing building and surrounding improvements do not show any signs of distress that would be related to poor underground conditions. Likewise there is no current information related to the ground water table elevation at the site. Soil borings will be taken during Design Development to confirm allowable soil bear pressures for foundations and elevations of static ground water. Adverse conditions are not expected to be found.

A Geotechnical Exploration Report was issued in December 2009 for the LaBahn Arena. Based on pressuremeter test analysis for that project, the recommended maximum net allowable bearing stress by the foundation to the soil was 12,000 pounds per square foot. Conventional spread footing foundations were recommended for that project. This same report also indicated groundwater elevations ranging from 840.6 feet to 844.3 feet. The deepest element of the proposed building is the diving pool at approximately 5 meters, or 16.5 feet below the pool deck elevation. If the pool deck is at elevation 856 or 857, excavation for the diving pool may encounter groundwater.

D.1.10 Remediation of Hazardous Materials

It is not known whether there are any hazardous materials on site. This will be further evaluated as part of the Environmental Impact Statement (EIS) process.

Since the site is currently developed as a recreational facility with supporting site improvements, hazardous materials are not suspected to be encountered on the site.

D.1.11 Access to Site During Construction and Construction Staging

The contractor is likely to erect the building from west to east since there is more campus property to the east and immediately west of the site is the East Campus Mall which must remain open to pedestrian and vehicular traffic. This suggests lay-down space for long-span structural elements for the natatorium and basketball courts should be east or south of the new building to accommodate crawler crane activity. Existing buildings and a fire lane, plus utilities along the south side of the site limit the extent of lay-down space along the site's south edge. Consequently, having a limited portion of the Kohl Center's green space would improve construction staging, allow the Dayton-Lake Street construction access to remain operational while long-span trusses are erected. Without this staging area, the construction schedule could be extended.

Other facilities adjacent to the SERF construction site will remain open during construction. Event safety and access to the Kohl Center, LaBahn Arena or Nicholas-Johnson Pavilion cannot be compromised. Further, pedestrian sidewalks between Dayton Street and the Kohl Center cannot be infringed upon. Although construction activities on the SERF site will impinge upon the East Campus Mall, vehicular and pedestrian traffic must be maintained.

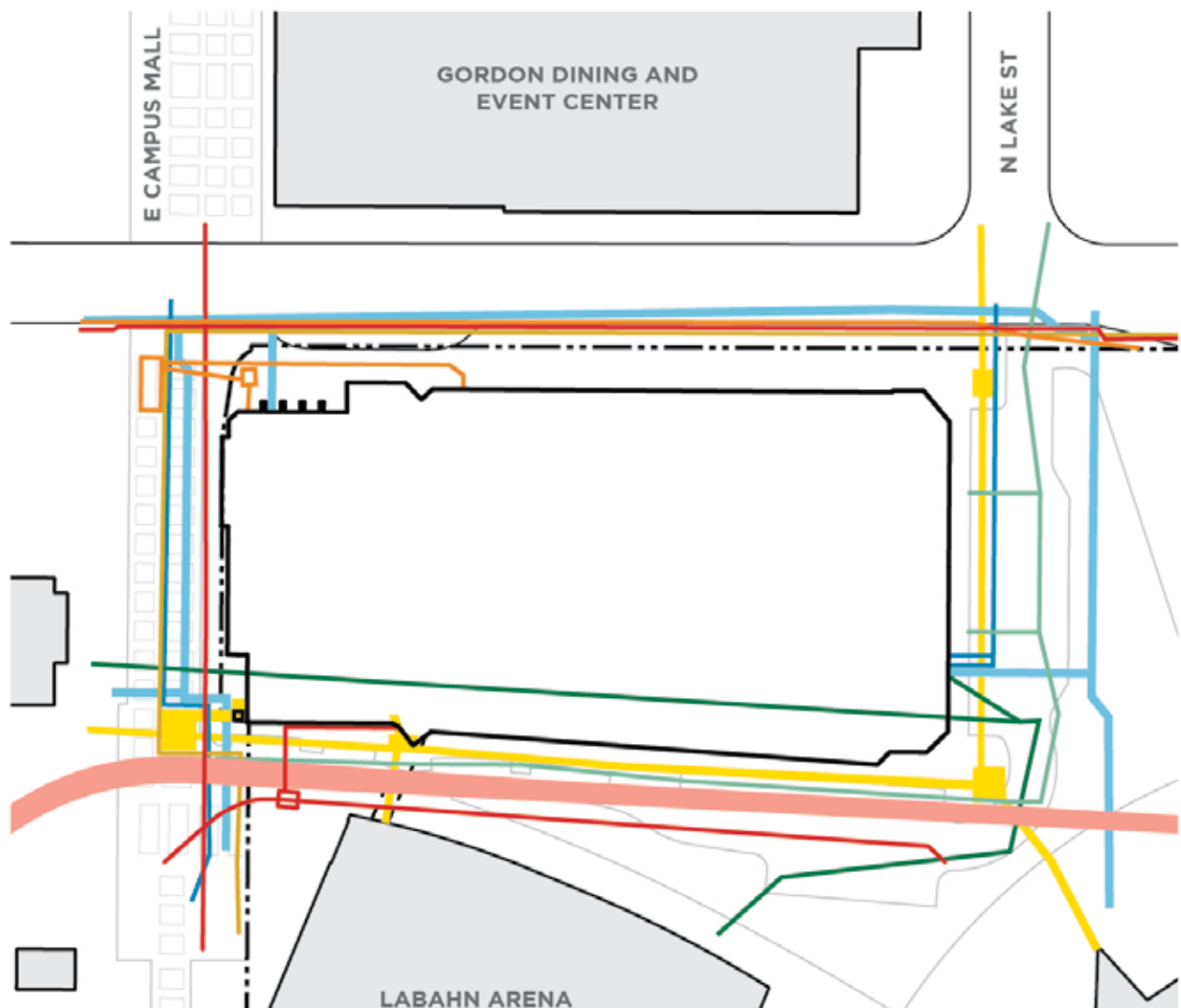
D.2 Utilities and Infrastructure

D.2.1 Existing Capacity and Condition

Existing Utilities are located adjacent to the project area and will be further evaluated during the Preliminary Design phase of the project after the needs of the project have been determined. Existing utility capacities to support the new SERF will be confirmed and upgrades, if any, will be determined. Any expected upgrades to serve the building and site are enumerated in the specific utility discussions.

Existing Site Utilities - Overall

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUTC BANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT



Existing Site Utility - Chilled Water

The site has existing chilled water mains located on the north, east, and west sides of the building site. The existing facility has two chilled water services. The original building's chilled water entrance was on the east side of the building and the addition was on the north side of the building. All of the existing chilled water piping is direct bury style pipe.

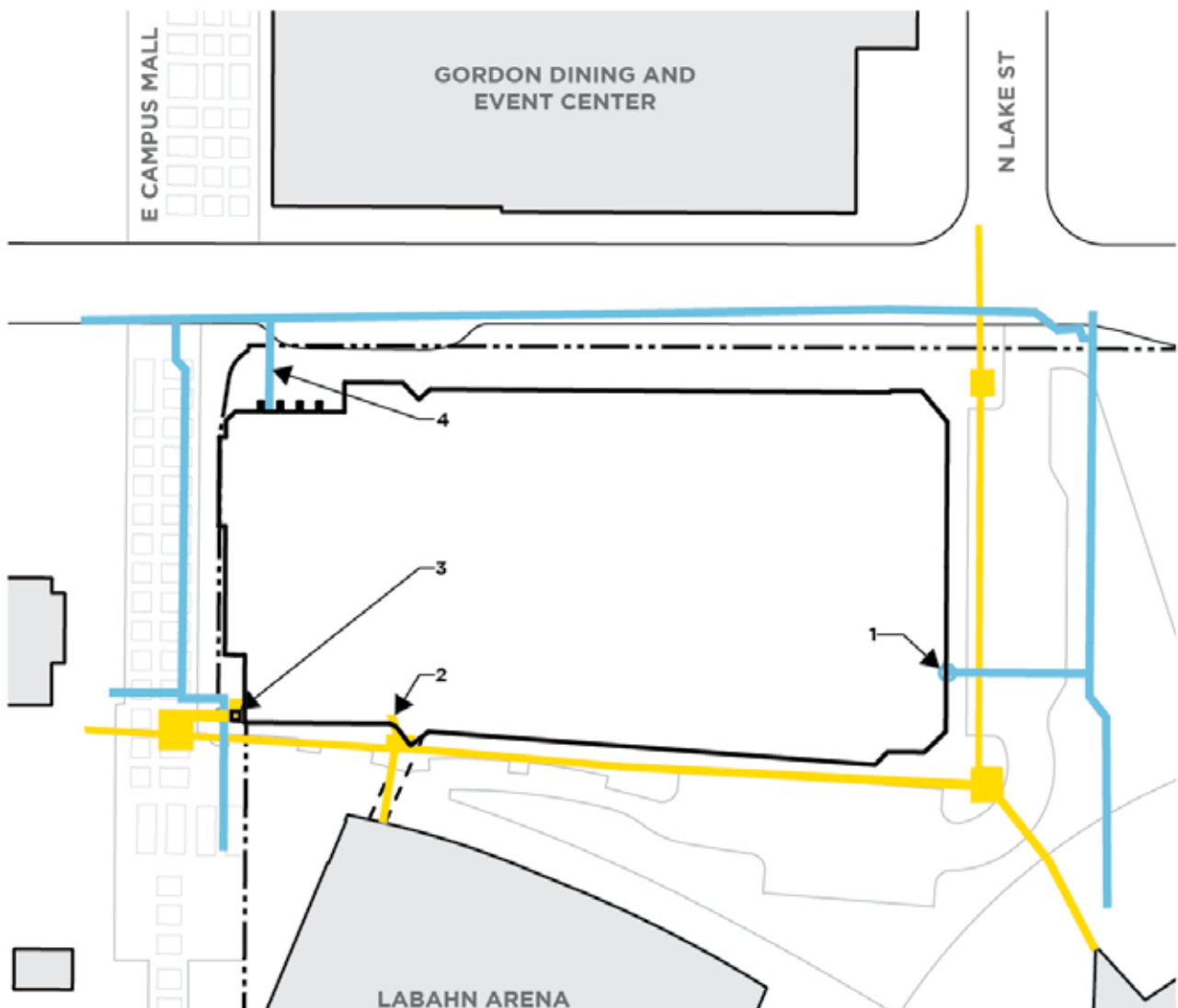
Existing Site Utility - Steam

Existing steam box conduit is located on both the east and south sides of the project site. The existing facility has two steam entrances. The original building's steam entrance was on the east side of the building and the addition was on the south side of the building.

Existing Site Utilities - Steam and Chilled Water

1. EXISTING CHILLED WATER RETURN AND SUPPLY LINES
2. EXISTING STEAM ENTRY POINT TO SERF
3. EXISTING STEAM PIT ACCESS
4. EXISTING CHILLED WATER SUPPLY / RETURN WEST ADDITION

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUCTBANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT



Existing Site Utility - Water Service

There is a combined fire and domestic water service along the east side of the existing SERF building adjacent to the steam line from the Dayton Street right-of-way to the southeasterly corner of the existing SERF building. The service is owned by the University and runs east of SERF. There is also a water main in the East Campus Mall. The project will utilize a portion of the current service line from Dayton Street for its combined fire and domestic water service. The remainder of the service will be removed. The existing main is expected to be adequate to support the project as it already supports the existing SERF building. The size of the existing water service from Dayton Street will be confirmed to be adequate for domestic and fire protection requirements as part of the Preliminary Design Phase.

In the vicinity of the project site, there is a City-owned fire hydrant along the northeast curb line near the intersection of Dayton and Lake Streets, as well as just west of East Campus Mall on Dayton Street and at the southwest corner of the project site. The combination of these hydrants are anticipated to provide adequate coverage for the project site.

Existing Site Utility - Sanitary Sewers

There is an 18-inch diameter University-owned sanitary main on the east side of the SERF site that collects flows from the SERF building and the LaBahn building. There is an 8-inch diameter University-owned sanitary main from the LaBahn building to a manhole off the southeast corner of the existing SERF building. There is also a University-owned 18-inch diameter sanitary main running under the existing SERF building that continues west beyond the SERF building. A City-owned sanitary sewer main is located on the north side of West Dayton Street at Lake Street and north along Lake Street. The project will utilize the Dayton Street sewer at Lake Street for its sanitary service. The City is installing a new 20-inch diameter main in this area and the new main is expected to be adequate to support the project. The new 20-inch diameter main appears to be adequate to accommodate the new sewer connection. This will have to be verified by the City of Madison.

The existing SERF building currently is served by an 8-inch diameter service that connects into the 18-inch diameter main at a manhole southeasterly of the building. The 18-inch line that carries the flow westerly is under the SERF building. A new service would be constructed from the northeasterly area of the proposed SERF building to a new manhole along the Dayton Street right-of-way line. The new manhole would connect to a line to be run by the City of Madison from the south right-of-way line of Dayton Street to the 20-inch diameter sewer to be constructed by the City of Madison under a separate unrelated sanitary sewer upgrade project. LaBahn is currently served by an 8-inch diameter main that discharges into the 18-inch diameter main which runs under the SERF building. This LaBahn line will be rerouted northward to connect to the city's main in Dayton Street.

Existing Site Utility - Storm Drainage

Storm water runoff from the project site is currently collected in an underground storm water system and discharged to a 29" X 45" City of Madison storm sewer along West Dayton Street at the intersection with Lake Street. The University-owned storm sewer system collects runoff from the parking lot area on the south and east sides of SERF, the roof of the existing SERF building, as well as some area on the north side of the LaBahn building that drains to the north. All of the SERF project's storm water runoff will be directed to the City-owned system along West Dayton Street which is consistent with the existing storm drainage systems. The existing City-owned sewers north of the project site are expected to be adequate to support the project since the total impervious area of the site is not expected to be substantially different from the current site and storm water detention will be incorporated into the project.

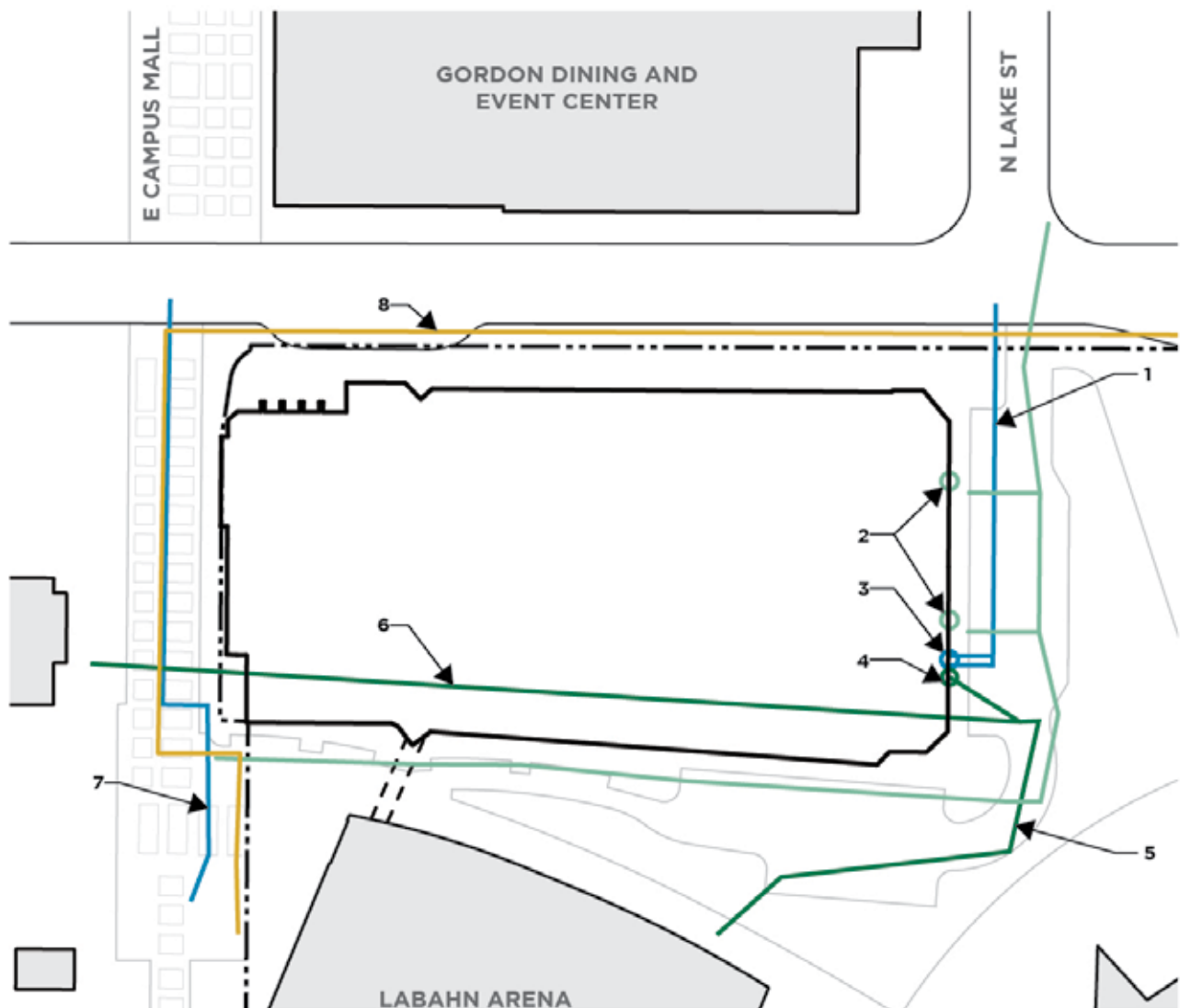
Existing Site Utility - Gas

An existing gas main runs east-west along the south side of the Dayton Street right-of-way and north-south along the east side of East Campus Mall. There are no known service connections to the existing SERF.

Existing Site Utilities - Water, Sanitary, Storm Water and Gas

1. EXISTING WATER SERVICE
2. EXISTING ROOF DRAINS
3. EXISTING FIRE & DOMESTIC WATER SERVICE
4. EXISTING SANITARY SERVICE
5. EXISTING LABAHN ARENA SANITARY
6. EXISTING 18" SANITARY SERVICE UNDER SERF
7. EXISTING 8" WATER SERVICE
8. EXISTING NATURAL GAS

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUTC BANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT



Existing Site Utility - Site Lighting

The existing site lighting around the site is the campus standard Kim fixture that were most likely installed during the LaBahn arena construction. It is anticipated for the existing fixtures outside the construction boundaries will remain and the new fixtures will match the Campus standard.

Existing Site Utility - Electrical Power

Existing campus 13.8 KV feeders 1532 and 1541 enter the southwest corner of the building from manhole 4P11. The feeders terminate at a pair of loop switches located within SERF. The existing conductors are anticipated to remain up to the manhole, but be replaced from the manhole to the new interior switchgear.

Existing Site Utility - Telecommunication

The site has an existing telecommunications manhole numbered 4S15 that is located within the new building footprint. This manhole (4S15) is served from manhole 4S02 that is located in the East Campus Mall main utility corridor.

Existing Site Utility - Other

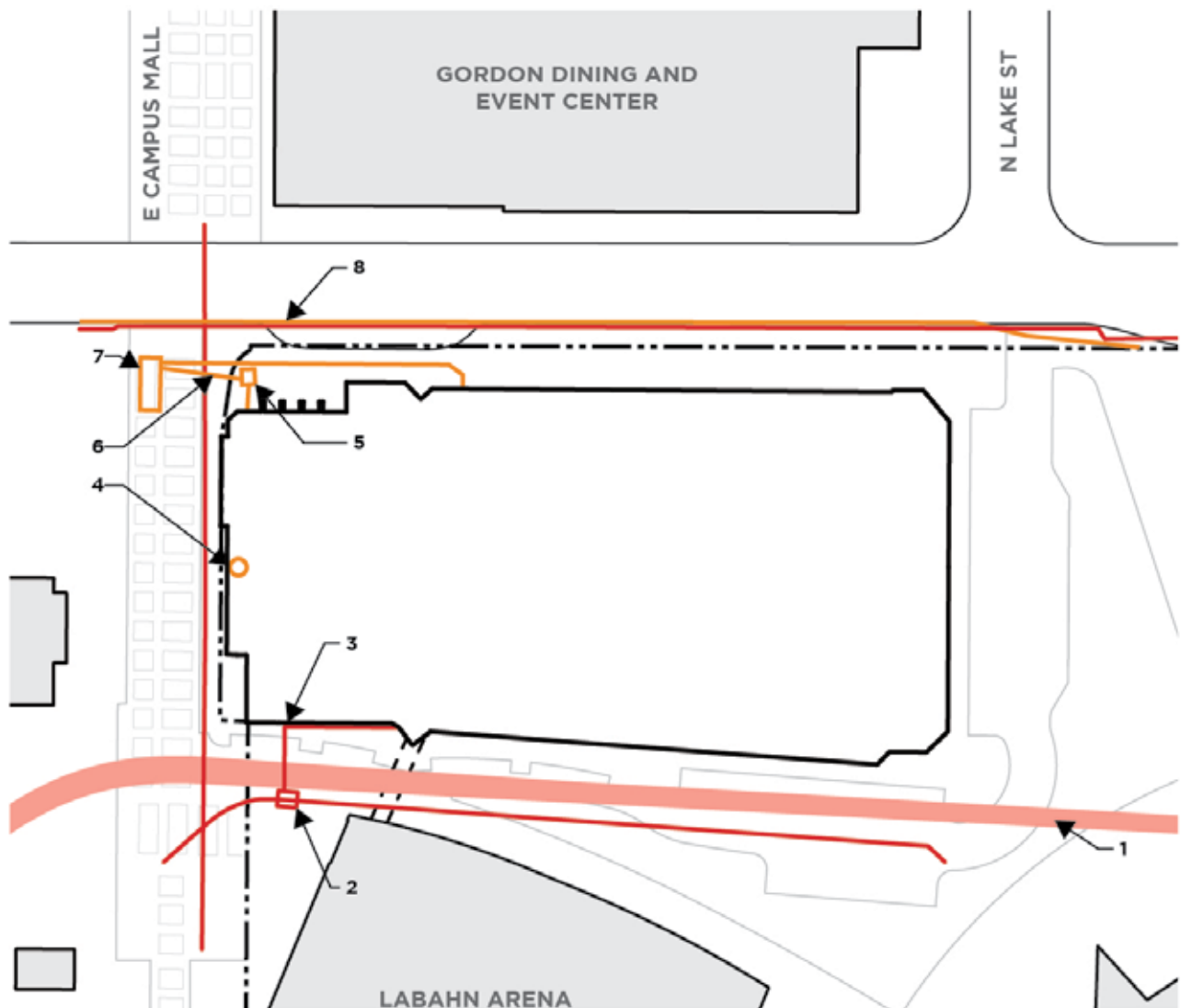
A lawn sprinkler system is located along the easterly perimeter of the site. Portions of this system may require relocation in some areas and/or removal and resetting to be relocated.

Any other utilities within the Dayton Street right-of-way are not anticipated to be impacted by the new SERF building construction.

Existing Site Utilities - Electric and Telecommunications

1. EXISTING ATC DUCTBANK
2. EXISTING ELECTRICAL MANHOLE 4P11
3. APPROXIMATE LOCATION OF EXIST. ELECTRICAL SERVICE ENTRANCE
4. APPROXIMATE LOCATION OF EXISTING MAIN TELECOMMUNICATIONS ENTRANCE ROOM
5. EXISTING SIGNAL MANHOLE 4S15. SIZE OF MANHOLE IS 6'x8'x6.5' TALL
6. (4 OR 6) 4" CONDUITS
7. EXISTING SIGNAL MANHOLE 4S02
8. (8) 4" CONDUITS WITH SIGNAL CIRCUITS INSIDE

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUCTBANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT



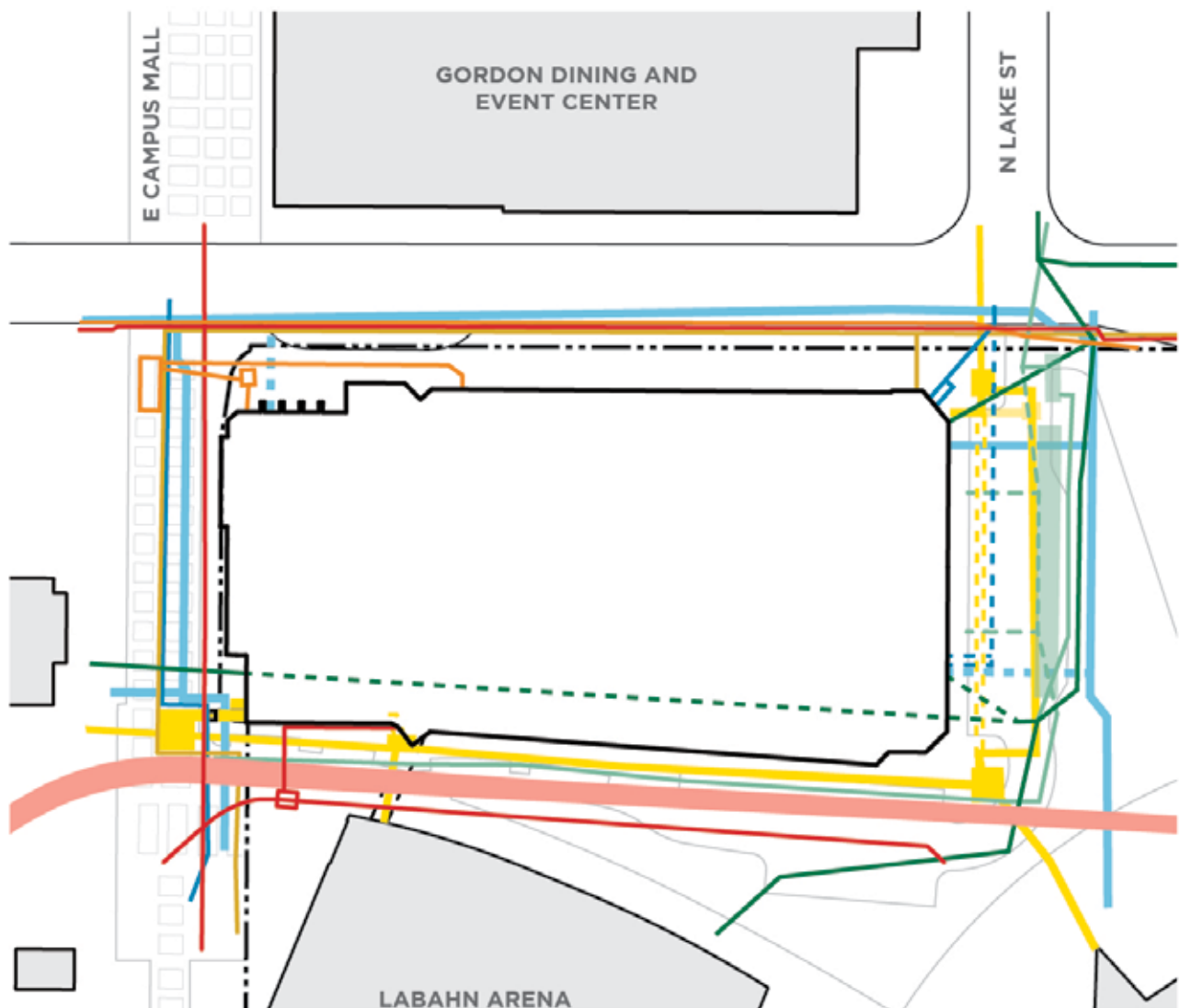
D.2.2 Proposed

Based on programmatic and conceptual planning, University staff and the DFD are exploring separating site utility relocation work into a separate project. Conceptually, all service lines connecting the facility to nearby mains will be replaced by the SERF replacement project. Relocating utility mains to make room for the expanded building footprint will be by the separate project. The budget in Section J, Budget, does not include costs for the separate project.

Upgrades to existing utilities that serve the area are not expected, except for telecommunication service and possibly water. Sizing of proposed utility services to the site and building will be determined during the Preliminary Design Phase when the extent of utility relocation work will also be verified.

Proposed Site Utilities - Overall

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUTC BANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT



Proposed Site Utility - Chilled Water

The existing chilled water piping serving the facility will be removed and new piping will be routed to the basement mechanical room. The piping will be 8"-10" direct bury ductile iron pipe.

Proposed Site Utility - Steam

The steam box conduit serving the existing facility will be removed. This will include the removal of steam pit 17/13. Due to the new buildings proposed footprint, the existing box conduit located east of the proposed building will be removed and new steam box conduit installed in its place further east on the site. The steam box conduit will include 6" HPS and 3" pumped condensate. This will allow the campus steam to continue to loop the project site to allow shutdowns in the future with minimum disruption to other buildings. The new box conduit will be routed between the steam pit 11/13 and steam pit on the southeast side of the existing facility. Steam piping serving the new building will be routed from steam pit 11/13 to the basement mechanical room if the existing steam pit 11/13 is of adequate size to accommodate the additional box conduit. If existing pit 11/13 is not of adequate size a new steam pit will be added southeast of pit 11/13 to accommodate the steam service to the new building. The steam service to the building is initially planned at 4"-5", but final sizing will depend on domestic water and pool heating requirements.

Proposed Site Utility - Geothermal

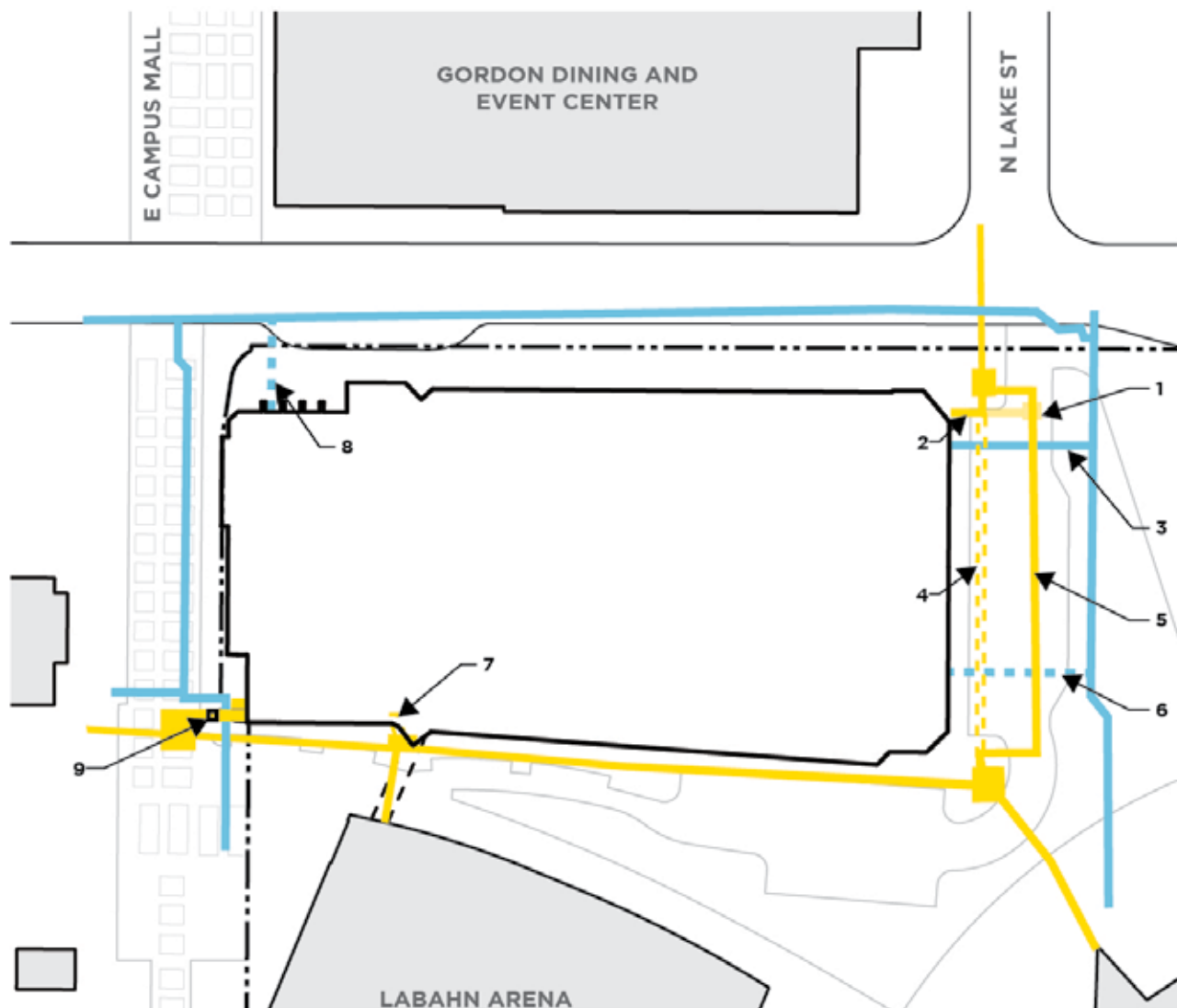
Geothermal has been evaluated for this project and was determined to not be feasible. Assuming a 600 ton cooling load, the building would require a geothermal borefield that is approximately 160,000 square feet. This assumes 1.5 tons per bore and 20' x 20' bore spacing. The building site cannot accommodate the borefield. Adjacent sites were evaluated, but through discussions with the University it was determined that adjacent areas such as the Kohl Center lawn cannot be disturbed during the construction process. The geothermal borefield and associated chiller system would also add approximately \$3,000,000 in mechanical and site cost to the project. Based on the above reasons geothermal is no longer being considered for the project.

Proposed Site Utilities - Steam and Chilled Water

1. NEW STEAM PIT AND BOX CONDUIT FOR THE SERF STEAM SERVICES IF THE EXIST. PIT CANNOT BE RECONFIGURED TO ALLOW STEAM TO ENTER AS SHOWN
2. NEW BOX CONDUIT TO SERVE SERF IF THIS WILL WORK WITH THE PROPOSED FOOTPRINT AND EXISTING STEAM PIT
3. NEW CHILLED WATER SUPPLY AND RETURN PIPING TO SERVE THE FACILITY
4. EXISTING STEAM BOX CONDUIT THAT WILL BE REMOVED TO ALLOW BUILDING TO EXPAND EAST
5. NEW BOX CONDUIT OFFSET 25' TO THE EAST OF THE EXIST. BOX CONDUIT
6. EXISTING CHILLED WATER LINES SERVING SERF TO BE REMOVED
7. STEAM CONDUIT TO SERF ADDITION TO BE REMOVED
8. EXISTING CHILLED WATER LINES SERVING SERF TO BE REMOVED
9. RELOCATE EXISTING STEAM PIT ACCESS

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUTC BANK
- STEAM
- GAS LINE
- SIGNAL DUTC BANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT

UTILITY ENTRY POINTS AND ROOM LOCATIONS TO BE VERIFIED IN SCHEMATIC DESIGN



Proposed Site Utility - Water Service

The new service will be located near the north east corner of the building and will be cement mortar lined ductile iron pipe with rubber gasket push-on or mechanical joints. Joint restraint will be by wedge-action retainer glands. Valves and access boxes will be in accordance with City of Madison specifications. The size of the existing water service from Dayton Street will be confirmed to be adequate for domestic and fire protection requirements as part of the Preliminary Design Phase.

Proposed Site Utility - Sanitary Sewer

A new 8-inch to 10-inch diameter sanitary main from the manhole that connects the 8-inch diameter LaBahn main to the 18-inch diameter main under SERF will be constructed to the north to a proposed manhole at the Dayton Street right-of-way line to carry the flow from LaBahn. Due to space constraints it may be necessary to remove and replace the small retaining wall located between the Kohl Center and SERF or brace it while the sanitary sewer is being installed. Optionally, this run of the sanitary sewer could be jacked in place.

A new approximate 12-inch diameter main will be constructed across Dayton Street and connect to the 20-inch diameter sanitary main that is being constructed by the City. The new main across Dayton will carry flows from LaBahn and SERF. It is expected that the City will construct the connection from their manhole on the 20-inch diameter main to the south right-of-way line of Dayton Street. The combined discharges from SERF and LaBahn will discharge into the new approximate 12-inch diameter main across Dayton Street. The sanitary sewer service from SERF will be ductile iron push on joints. The extended sanitary service for LaBahn will be PVC with elastomeric joints. The sanitary manholes will be pre-cast concrete sections with internal frame/chimney seals.

Proposed Site Utility - Storm Drainage

Storm water from the new building will be routed through an underground storm water detention system to attenuate peak runoff rates. Storm water flows from the site pavement and landscaping areas will be routed through a settling basin to remove Total Suspended Solids (TSS). Polyethylene pipes and overflow structures will be installed to facilitate proper drainage in the expected variety of storm events.

Storm sewers from the building to the settling basin will be ductile iron pipe (DIP) with push-on joints. Storm sewers from the site to the underground detention system will be reinforced concrete pipe (RCP). Storm sewers from the settling basin and the detention system to the storm sewer system will be RCP. Storm manholes and drainage structures will be pre-cast concrete sections with cast iron grates and lids. Both discharges will connect into the City owned storm sewer network through the existing storm sewer manhole at the northeastern corner of the site.

The storm water management goals for the project are removal of 40% of the TSS from the paved surface areas and reducing pre-project to the 2-year rate for the 10-year storm runoff from the building roof area. If physical space availability on site cannot provide adequate room for detention of the 10-year storm, the criteria will be reduced to maximize detention and maintain a 2-year release rate. These requirements address the University of Wisconsin storm water management goals for the University.

The project is exempt from the typical runoff infiltration requirements that say if the project disturbs less than one acre, a Notice of Intent (NOI) will need to be submitted to the Wisconsin Department of Natural Resources (WDNR). Currently the project is greater than one acre when considering the combined building footprint and the site. Therefore this project will likely require submission of an NOI.

Proposed Site Utility - Gas

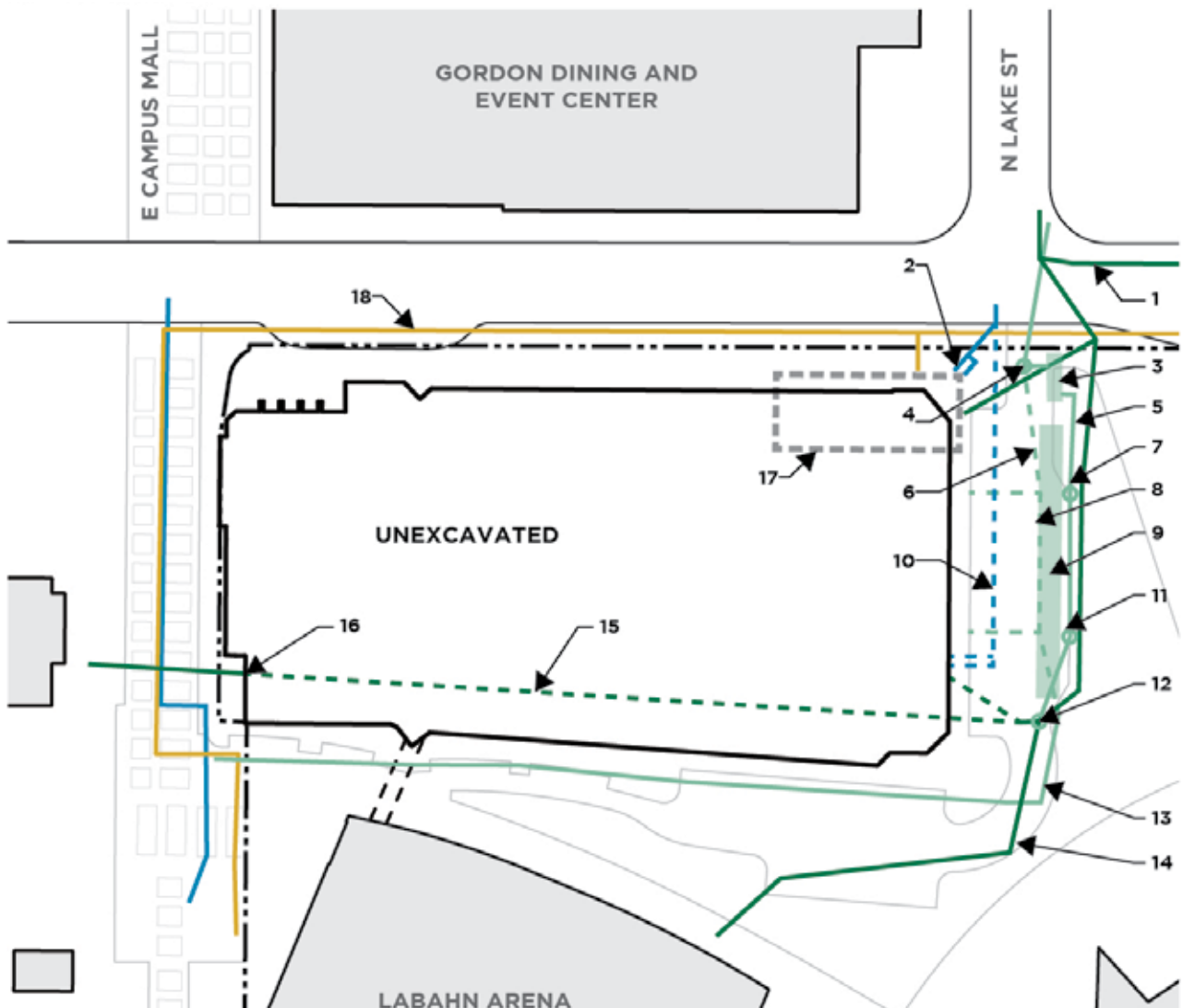
At this time it is not known whether gas service will be needed for the proposed SERF. This will be determined as part of the Preliminary Design Phase.

Proposed Site Utilities - Water, Sanitary, Storm Water and Gas

1. NEW 20" SANITARY (CITY)
2. PROPOSED FIRE DOMESTIC WATER
3. SEDIMENTATION BASIN
4. CONNECT TO EXISTING MANHOLE
5. 10" D.I. SANITARY @ 0.14%
6. EXISTING STORM SEWER TO BE REPLACED
7. MANHOLE / INLET
8. 15" PVC STORM
9. UNDERGROUND STORM WATER DETENTION
10. EXISTING WATER SERVICE TO BE REMOVED
11. MANHOLE / INLET
12. (F.L. 852.88) TOP M.H. LID = 859.7+/- I.E. 847.08 (EXISTING) TOP M.H. LID = 858.08
13. EXISTING STORM TO REMAIN
14. EXISTING SANITARY FROM LABAHN ARENA TO REMAIN
15. REMOVE OR ABANDON IN PLACE
16. PLUG EXISTING SANITARY
17. BASEMENT MECHANICAL ROOM. SIZE TBD
18. EXISTING GAS LINE

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUTC BANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT

UTILITY ENTRY POINTS AND ROOM LOCATIONS TO BE VERIFIED IN SCHEMATIC DESIGN



Proposed Site Utility - Site Lighting

All exterior fixtures will be LED, full cut-off and dark sky compliant.

Area lighting for the parking lots and drives will be the campus standard Kim Archetype Model AR fixture. A DFD required Class 1 Notice will be included in the specifications to ensure that there are no substitutions. The pole height will be 25 feet. The pole will be aluminum, round, smooth, straight and be 6 inches in diameter.

Pedestrian lighting will be the campus Standard Kim Archetype Model SAR fixture. A DFD required Class 1 Notice will be included in the specifications to ensure that there are no substitutions. The pole height will be 12 feet. The pole will be aluminum, round, smooth, straight and be 4 inches in diameter.

Exterior lighting levels will be in the 1-5 footcandle range as recommended by the IES recommended practices.

Light fixtures will be controlled via photo cell.

Proposed Site Utility - Electrical Power

A new 4-cell ductbank will be provided from existing manhole 4P11 to the new electrical room location. New 15 KV conductors will be provided from the manhole into the new electrical room for feeders 1532 and 1541. New conductors will be spliced to the existing conductors in the manhole. The existing conductors from the manhole to the building will be removed. The existing ductbank will be abandoned in place, with the duct openings being sealed inside the manhole.

Proposed Site Utility - Telecommunication

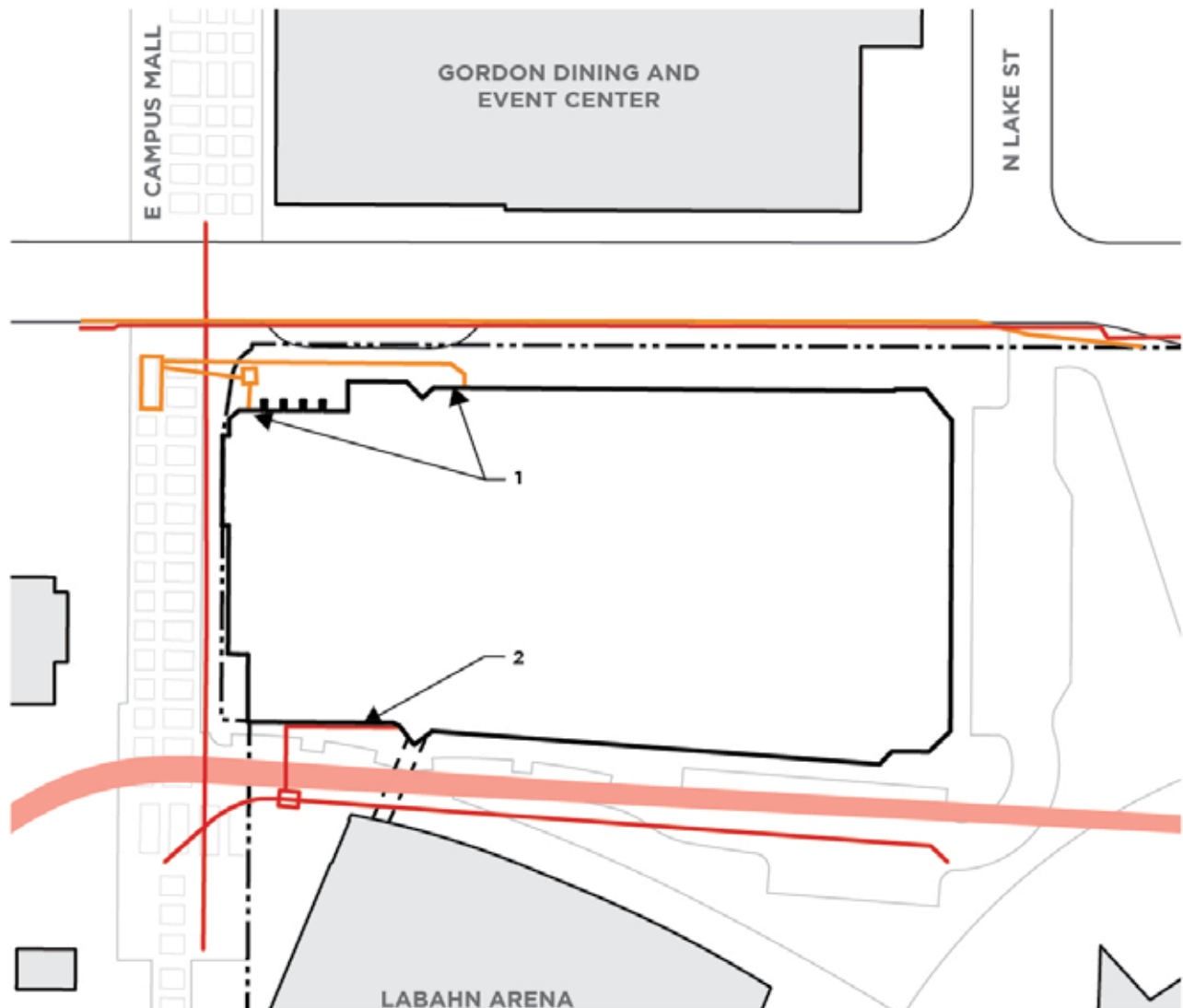
A new manhole and minimum of (4) 4 inch conduits in a concrete duct bank will be required to feed this new building with a telecommunications service. A minimum of 48 strands of single mode optical fiber will be routed into the building for data services. Any cable television service required for this building will be routed through a pair of the single mode strands of optical fiber. The University will only be requiring voice backbone (1) 25 pair of copper voice backbone cables for the emergency elevator and any fax lines for this building. That 25 pair of copper voice cable will route through the same conduits from the new manhole into the building with the new 48 strands of optical fiber cabling. In June of 2016 the University plans to convert all telephone voice service to VoIP this is the reason for minimal copper backbone pairs coming into the building.

Proposed Site Utilities - Electric and Telecommunications

- 1. SIGNAL
- 2. PRIMARY

UTILITY ENTRY POINTS AND ROOM LOCATIONS TO BE VERIFIED IN SCHEMATIC DESIGN

- PROPERTY LINE
- PRIMARY DUCTBANK
- ATC DUTC BANK
- STEAM
- GAS LINE
- SIGNAL DUCTBANK
- WATER
- CHILLED WATER
- SANITARY SEWER
- STORM SEWER
- STEAM VENT OR STEAM PIT



D.2.3 Maintaining Utilities During Construction

Sanitary Sewer

The sanitary sewer main serving LaBahn will have to be relocated to the east side of the SERF site prior to demolition of the existing SERF building since the current line runs under SERF.

Water Service

The water service line from Dayton Street to the southeast corner of existing SERF can remain in operation if needed or shortened to supply water to the site. This service supplies SERF only.

The Cold Water Supply and Cold Water Return lines that enter the existing SERF at the southeast corner of the building will have to be terminated at a point outside the building line for the new SERF prior to demolition. These lines serve the SERF site only.

Erosion and Sediment Control

Construction erosion control will be performed in accordance with Wisconsin Administrative Code Chapter NR 151, and sustainability goals. Erosion control measures will be installed and maintained during construction to reduce sediment carried by runoff by 80%.

Site disturbances will be minimized and phased to limit the amount of time that bare earth is exposed to runoff. Areas where work is not being performed will be temporarily or permanently stabilized through seeding, sodding, mulching or covering.

Silt fence will be installed around the site perimeter. Existing pavement will be maintained in place during construction of the building and stone tracking pads will be installed at each site egress for construction traffic where necessary. Inlet protection will be installed, as needed, on-site and in adjacent City street right-of-ways.

Material stockpiles will not be allowed on site except for temporary stockpiling of aggregate when it is delivered to the site. Stockpiles remaining at the end of work days will be contained with physical barriers to prevent materials from spreading to adjacent areas.

Dust control will require water or polymer application as needed to prevent windborne soil erosion.

Dewatering

Dewatering systems may be needed for groundwater extraction in deeper building and utility excavations and to control rainfall accumulations in all excavations. Sump dewatering is expected to be feasible based on previous geotechnical information available.

Alarm systems and standby power will be required for dewatering systems. All dewatered flows will require treatment by portable sediment tanks or filters prior to discharge to sewers.

Electrical and Signal

Electrical and communication lines serving SERF will have to be terminated prior to construction. These terminations will not affect any other buildings, but could affect site lighting. Therefore a temporary service may have to be established for site lighting and on-site needs during construction.

Steam

Given the work recently completed in the Lake Street/ Law Building Steam and Condensate Upgrades project (DFD Project No. 13H1L), a full steam loop was completed on campus that would allow the steam branch on the east side of this site to be off line and still feed nearby buildings. This will be further evaluated and discussed with campus and DFD staff during Preliminary Design phase.

D.3 Transportation and Circulation

D.3.1 Bicycle/ Pedestrian

All sidewalks will be a minimum 8 feet wide. ADA-accessible egress will be provided from the main entries along Dayton Street and where required by code. Additionally, the site design will maintain or recreate accessible pedestrian connections from ADA parking stalls to the Kohl Center.

The site design will include bike parking primarily along Dayton St, near main entries. The project will provide bike & moped parking quantities as directed by UW Transportation.

D.3.2 Vehicular/ Parking

A bus pull off and ADA drop off will be provided along Dayton Street within close proximity to the building's main entry.

Limited-access parking, by permit, will continue to be provided on the east and south sides of the building. Maintaining the existing parking capacity is desirable but not a top priority. The site plan will continue to provide ADA parking stalls and access to the Kohl Center in the SERF south lot 87. Reserved University vehicle parking will be provided as directed by UW Transportation.

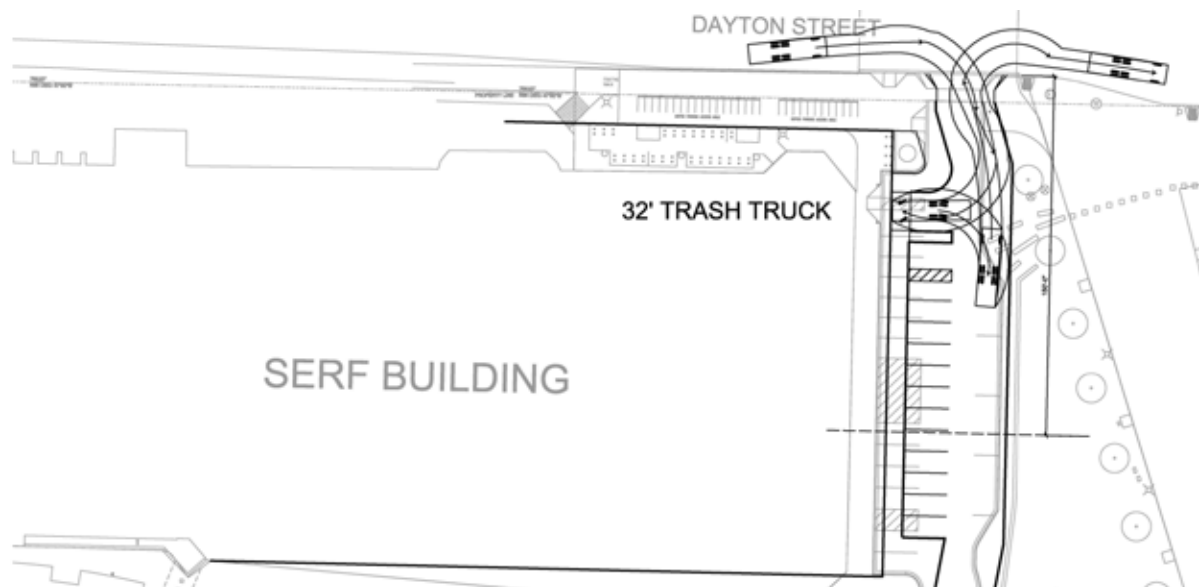
For security, vehicular access to the Kohl Center will continue to be restricted.

University vehicles and Fire/Emergency vehicle access will be maintained through East Campus Mall, along the north façade of LaBahn Arena and to the Kohl Center.

D.3.3 Service Loading/Unloading

Site design will accommodate 30' box trucks and garbage trucks at the loading/ service area on the east side of the building.

For occasional semi-trailer deliveries, the SERF will follow current University protocol involving offsite unloading and delivery to the SERF via smaller box trucks. The SERF site is not required to accommodate semi-trailer pull-through or turn-around movements.



Truck Access Diagram - 32' Garbage Truck

D.3.4 Access to Site During Construction

Construction access will be from the Dayton-Lake Street intersection. This location will keep construction trucks and deliveries away from pedestrian traffic on East Campus Mall. Plus, East Campus Mall provides delivery access to LaBahn Arena, Nicholas-Johnson Pavilion and Plaza and the Kohl Center.

Site work must be coordinated with University activities and operations, which may include phasing of work across the site. A chain link construction fence will be specified for the project along with appropriate signage for temporarily rerouting pedestrians. Potential construction noise and vibration concerns must be coordinated with DFD and University staff.

D.4 Existing Building Conditions

D.4.1 Concealed Conditions

There are four types of concealed conditions associated with the existing facility. They are:

1. Site Utility Structures: These conditions are normal for site utility structures and will continue after the project is complete.
2. Conduit, Duct and Pipe Chases: These conditions are normal for buildings and are anticipated to be “opened” up to gain access to the conduits, ducts and pipes during deconstruction. The new facility will have similar vertical and horizontal chases with access points at valves, dampers and other service points.
3. Pool Tanks: At the southeast corner of the existing pool are clear water and settling tanks that are part of the existing pool infrastructure. The tanks are considered concealed spaces and require periodic inspection and cleaning. They will be removed as part of the building deconstruction.
4. Pipe Tunnel Below Pool Deck: There is an existing pipe tunnel below the existing pool deck and immediately south of the pool. Access to this tunnel is gained through a door at one end and an access panel at the other. This tunnel will be removed during building deconstruction. Such tunnels are uncommon for pools and are not anticipated for the new facility.

In short, typical concealed conditions are known to exist in the existing facility that will be demolished and typical concealed conditions will be constructed as part of the new facility.

D.4.2 Condition of Existing Infrastructure and Equipment

The entire existing facility will be deconstructed including all infrastructure components and equipment. Where appropriate, materials will be salvaged for recycling. Disposal of materials will follow the DFD Construction Waste Management protocol.

D.4.3 Hazardous Materials

According to the latest Wisconsin Asbestos and Lead Management System (WALMS) report for the building, all materials sampled for Asbestos Containing Material (ACM) indicate Non-ACM. Testing protocol requires the DFD to assume some materials are ACM until confirmed to be Non-ACM. Testing such materials prior to demolition would damage the material and were therefore not tested. Destructive testing will be performed on these materials when it is confirmed the materials will be demolished.

Surfaces sampled for Lead Based Paint (LBP) indicate Non-LBP.

Additional testing for ACM and/or LBP may be needed during design phases. DFD's Hazardous Materials Specialist will review both preliminary and final documents to determine requirements for any additional testing or required work scope.

Based on the above information an Asbestos Abatement Designer is not required for the project. Similarly, a separate Abatement/ Demolition Bid is not required for the project.

D.4.4 Current Occupancy and Occupancy During Construction

Currently, the existing building is occupied by UW-Madison, Rec Sports. Prior to start of construction the existing building will be vacated and turned over to the Contractor for deconstruction. The existing facility will not be occupied during construction.

D.4.5 Deconstruction of Existing Building

This project will follow the DFD Construction Waste Management (CWM) procedures as described in paragraph 4.H.2 of the DFD Policy and Procedure Manual for Architects/ Engineers and in the DFD Master Specification, Section 01 74 19. Most solid waste generated during demolition and construction is considered construction waste. Hazardous waste is not recyclable and not considered construction waste. It will be handled separately and disposed of according to DFD General Requirements Article 5.

Deconstruction activities will remove the entire existing building including all foundations and footings including site stairs and retaining walls. The existing 18" sanitary sewer pipe currently routed beneath the existing building will also be removed.

A separate Demolition Bid may be considered for the project. This will be confirmed in the Design Report.

D.4.6 Opportunities for Energy Conservation and Sustainable Design

See section H.6 - Sustainable Facilities & Energy Conservation for additional information and diagrams

Opportunities for Energy Conservation

Energy Conservation opportunities for the design of the new SERF facility will be best optimized when site, architectural, mechanical and electrical design decisions for a project are made in an integrated fashion with objective comparative analysis of component interactions as part of whole building systems. The earlier these analyzes are implemented in the design sequence, more can be achieved at a lower cost.

Energy Conservation challenges for recreational facilities include:

- Recreational buildings have varying occupancy throughout the week, so conservation strategies need to be accommodating to maintain proper ventilation and temperature control
- Ventilation loads for recreational facilities tend to be large which increases Energy Use Index (EUI). This can be mitigated through the use heat recovery and outdoor air reduction strategies.
- Air stratification in high spaces can increase cooling and ventilation loads to provide appropriate conditions at running tracks in high spaces. Appropriate design of the ventilation system can provide the required comfort level without increasing heating and cooling loads.

14L2T Southeast Recreation Facility Replacement Program Statement

- Pool areas have much larger energy use than non-pool areas due to humidity loads from pool evaporation and chloramine removal. Targeting pool mechanical systems in particular for energy reducing strategies can have a big impact on EUI.
- Aperture sizes and glazing systems will affect both thermal comfort and peak energy loads. Appropriately sized apertures and efficient glazing systems should be optimized to realize maximum thermal and daylighting potential.
- However, Energy Conservation opportunities for the proposed SERF facility will be limited to the energy efficiencies implemented in the facility, as the efficiencies of the existing central plant will not be changed by the new facility design. These buildings will typically show a higher EUI although energy costs and carbon footprint will be comparable to buildings with on-site plants.

Initial research of completed peer projects conducted with the Owner Representatives and the Design Team suggests an early EUI goal of 140-160 kBtu/sf-yr. This goal presumes a mix of typical and emerging design energy conservation strategies resulting in a 30% reduction from ASHRAE 90.1-2007 base energy use. Further definition of the energy goals will be possible when program and operating hours are better defined. The report Energy Use Index Analysis dated March 22, 2016 provides additional methodology and research information detail.

Energy Conservation for the new SERF facility will follow a rigorous methodology of Goal Setting (predesign), HVAC and Daylight Analysis (Schematic Design), and Building System Optimization (Design Development). Through the course of these analyzes every energy using or energy use affecting component of the facility will be evaluated for efficiency and contribution to the integrated energy efficiency of the facility.

SECTION E

OCCUPANTS, USERS, AND ACTIVITIES

E.1 Occupants and Users

An Array of Users

The SERF is not purely a recreation center for the students of the University of Wisconsin-Madison; it is a gathering of the campus community, including faculty, spectators, student-athletes, coaches, recreation staff, and students. With such a vast array of different entities invested in the success of the facility, a solid understanding of the needs and wants of each user type is required.

- **Students**

Students of the University of Wisconsin-Madison make up 85% of the attendance at the SERF. With a total enrollment of over 43,000 health-conscious students, that can equate to a lot of foot traffic through the facility. The typical UW-Madison student does not reside to a single fitness activity upon each visit to the SERF, but partakes multiple areas for their daily workouts. It is not uncommon to see a student attend a group fitness class and then visit the cardio room afterwards; or warm-up around the jogging track, play a game of basketball, and end with some time in the weight room.

Hearing firsthand the opinions and suggestions from students during the Pre-Design phase has been valuable to understanding what will make the future SERF a success. Through multiple meetings with various student groups, several key concerns were vocalized.

- *Better way finding through the facility*
- *More space for the weight room*
- *Bring more daylight into the fitness areas*
- *Provide restrooms on each floor*
- *Improve the air quality of the spaces*

- **Student-Athletes**

The new Natatorium will give the Badger Swimming and Diving programs a new home. The 27 female team members and 27 male team members will no longer have to travel to the existing Nat facility for practice or competitions, but instead will use the new SERF Natatorium which will provide a direct link to the LaBahn Arena and team locker rooms. This new singular Natatorium will give the swimmers and divers a competitive advantage by not just providing more training features, but a 'home pool' that is familiar and comfortable.

- **Faculty**

University faculty co-mingle with students in the SERF. This smaller, yet older, user group have full access to all of the same fitness areas, amenities, and group fitness classes as the students. The expanded demographics provided by faculty use allows for expanded interactions and demands on selected program areas throughout the day.

- **Recreation Professional Staff**

A good portion of the roughly 30 Rec Sports full-time staff will make the new facility a permanent home. Led by Director John Horn, this group goes well beyond fitness coordinators; the team has subgroups dedicated for finance, marketing, maintenance, intramural sports, and aquatics. Beyond the needs of the students, the facility must perform to enhance the daily work needs of each professional group, to support enhanced program offerings and services.

- **Recreation Student Staff**

The Recreation Professional Staff is supplemented by the nearly 700 part-time Student Staff members operating the multiple facilities on the UW-Madison campus. These students juggle the demands of their education as well as ensuring the safety, cleanliness, and operations of the SERF. This group goes beyond swiping IDs at the check desk; these students serve as lifeguards, intramural referees, group fitness leaders, marketing, and maintenance staff, among other duties.

- **Coaches**

Coach Whitney Hite leads a small group of 6-10 coaches that will make the new SERF Natatorium the permanent home for UW Swimming and Diving program. Though practice times still have to be coordinated with recreation activities, the assortment of coaches will have expanded training spaces (dryland training, spin room, designated diving pool) to enhance their student-athletes techniques and endurance. UW Swimming and Diving team will also use the new SERF as a primary recruiting tool for high school students.

- **Event Spectators**

Collegiate Dual Meets, BIG10 Championships, and Wisconsin State High School Swimming and Diving Championships will bring large crowds into the facility. With an elevated seating capacity of 1,000, the new facility will need to accommodate a surge of public spectators including family members and friends for events. Appropriate hospitality services such as restrooms, circulation, concessions, and viewing angles will need to be provided without interfering with the normal daily Rec Center operations.

- **High School Swimmers and Divers**

The Wisconsin State High School Swimming and Diving Championships are planned to be hosted at the new facility which will bring a large number of teenage athletes onto campus and into the new SERF building. The facility has the ability to leave an indelible impression on the group and serve as a recruiting tool for the swimming and diving program as well as the University.

- **Local Swimming Groups**

The new SERF Natatorium will be able to accommodate various clubs from the Madison community on a case by case basis. Local swimming groups of all ages and skill will have opportunities to reserve the facility for practice and competition. This will further strengthen the bond that the university has with the city of Madison.

E.2 Activities

- **Multi-use**

A wide array of users with different goals forces the new SERF building to be versatile and flexible. Through our Pre-Design phase Programming meetings, various groups emphasized that the success of the facility rests upon its long term flexibility and versatility supporting multi-use and a variety of activities.

- **Group Fitness Classes**

A group fitness class allows a single instructor to efficiently teach anywhere from a small group of 5-6 members to a very large Zumba class approaching 200 members. Classes may also involve calm and relaxing yoga sessions to High Intensity Interval Training (HIIT) sessions. Classes work best in enclosed rooms to ensure sound isolation and privacy. A range of room sizes will be required to accommodate the varying class sizes and fitness activities.

- **Recreation Court Activities**

The University of Wisconsin-Madison has a surging demand for basketball which has made the current SERF's gymnasiums one of the busiest areas in the facility. But these courts can not just be exclusive to basketball, they also need to accommodate the increasing demands for Volleyball, Futsal, and Badminton. The gymnasiums need to be designed as versatile spaces that can quickly changeover equipment for the various activities. The adjacent floor areas need to be able to accommodate the excess crowds of students waiting for court times.

- **Swimming & Diving Competitions**

One of the keys to the success of the SERF replacement is ensuring high level swimming and diving competitions can be held in the Natatorium. The BIG10 Championships have established the benchmark criteria for the design team and require seating of at least 1,000 spectators, ample deck space for each of the 14 BIG10 teams, and supporting amenities for judges, trainers, and coaches. The BIG10 Championship will occur every 4 or 5 years, but the Wisconsin State High School Swimming and Diving Championships are annual events the SERF is aiming to accommodate. On top of these marquee events, numerous dual meets between the Badgers and other schools will occur several times a year and require spectator accommodations.

- **Swimming & Diving Practice**

Swimming and diving competitions will dot the calendar, but the Badger Swimming and Diving Teams will use the new Natatorium daily year round. This will be their new home and the facility will need to provide various training opportunities outside of the 8-lanes in the 50-meter pool. A new diving well and tower will be a huge enhancement to the program. The addition of a Wet Classroom, Dryland Training Deck and Shared Natatorium Multi-Purpose Room will provide additional opportunities for athletes through the space and diversify their training.

- **Recreational Swimming**

Though sized around swimming and diving competition, the Natatorium will provide a variety of recreational aquatic opportunities. Fitness lap swimming is an easy activity to accommodate, but the pool will also support water safety classes, scuba diving, aqua-fitness classes, water polo, inflatables, and water basketball and other activities. Aiding in the versatility of this space will be the movable pool floor which will allow a 50'x75' area of the 50-meter pool to have a variable depth of 0'-0" to 8'-0".

- **Intramural and Sport Club Activities**

With more than 25 different Intramural and sport club leagues offered, nearly every student has an opportunity to participate in a unique social and fitness activity. From classic 5 on 5 Basketball to Inner-tube Water Polo, the new facility will need to be able to not just serve the activity but store equipment.

- **Personal Training**

Nationally certified trainers work directly with individuals to create a custom overall health and fitness plan that reflects their personal goals, interests, and skill level. Sessions start with a private physical assessment to set a baseline and then adapt the program to reach the goal. Sessions can occur within a private fitness area at the facility or leak out into the larger open fitness areas.

- **Open Recreation and Fitness**

A majority of the new facility users will workout with a friend or individually in a self-directed routine. Dedicated fitness areas or 'neighborhoods' will aid in supporting each users goals and skill levels.

- Jogging Track - 900 to 1,000 lineal feet of jogging track will meander through the facility overlooking the gymnasiums, Dayton Street, and other open fitness areas to create an enhanced experience.

rience with connectivity to other fitness areas

- Cardio Equipment - A variety of treadmills, steppers, ellipticals, and rowers provide a stationary mode of cardiovascular activity. This equipment can be clustered in groups and placed in strategic spaces in the facility providing views and privacy.
- Free Weights - The new facility will aim to maximize the amount of the lifting racks, plate-loaded equipment, dumbbells, and Olympic platforms.
- Selectorize Equipment - Lifting machines that specifically target a muscle group or provide tangible guidance and safety to users new to lifting weights.
- Functional Training - Open space is needed to allow users to perform natural, three-dimensional, ground-based and full body movements. Various mobile equipment like pushing sleds, medicine balls, ropes, tires, and kettlebells enable the user to engage a dynamic resistance apparatus.

- **Recruiting**

The Natatorium will be the newest competition venue within the BIG10, provide ample space for practice and competitions, and a wide range of new training technology. All of these features, plus the overall visual impact of the new Natatorium space will create a great recruiting tool for the coaching staff. The Swimming and Diving program will bring numerous recruits through the facility to showcase the amenities as well as its direct link to the team locker rooms in the La Bahn Arena.

- **Social Gathering**

Outside of the expanded fitness and athletic activities, the new SERF will create a new hub on campus for social interaction. The transparency through the building, internal connectivity, and creation of open fitness neighborhoods will allow students, staff, and faculty to interact casually within an environment that is dynamic and active. The new facility will facilitate a safe environment to meet new students that share similar interests and goals beyond their academic studies.

SECTION F SPACE TABULATION

F.1 NATATORIUM SPACE TABULATION

DEPT	RM	ROOM NAME	OCCUPANCY		ROOM SIZE		
			SF/Per	Count	Qty	Unit SF	Total SF
NATATORIUM POOL AREA		Water Surface					
		50-meter Pool (75'-1" x 170'-4.5")			1		12,800
		Diving Well (75'-1" x 56'-0")			1		4,205
							17,005
		Pool Floors					
		Pool Floor	50	256	1	12,800	12,800
		Diving Well Floor	50	84	1	4,205	4,205
		Natatorium Deck	15	895	1	13,425	13,425
				1235	4		30,430
NATATORIUM SUPPORT SPACES		Natatorium Entry			1	500	500
		Wet Classroom	20	33	1	650	650
		Wet Classroom Storage		0	1	100	100
		Visiting Team Locker Rooms	50	40	2	800	1,600
		Lifeguard Staff Room			1	150	150
		Athletic Training / First Aid			1	350	350
		Collegiate Athletics Touchdown Office			1	150	150
		Assistant Director of Aquatics Office			1	120	120
		Meet Management Room			1	160	160
		Storage - Natatorium Equipment			1	1,000	1,000
		Storage - Wet Gear Bags			2	60	120
		Natatorium Deck Restroom			2	65	130
		Broadcasting Room - A/V Connections			1	50	50
	Storage - Timing Equipment			1	60	60	
			73	9		5,140	

14L2T Southeast Recreation Facility Replacement
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F.1 NATATORIUM SPACE TABULATION (CONTINUED)

DEPT	RM	ROOM NAME	OCCUPANCY		ROOM SIZE		
			SF/Per	Count	Qty	Unit SF	Total SF
SPECTATOR SEATING SPACES		Permanent Spectator Seating		562	1	2,325	2,325
		Natatorium Flex Space		448	1	3,085	3,085
		Natatorium Shared Multi-Purpose Room	15	67	1	1,000	1,000
		Natatorium Multi-Purpose Room Storage		0	1	125	125
		Dryland Training & Bleacher Storage		0	1	750	750
		Concessions Room		3	1	150	150
		Spectator Restrooms			1	700	700
				1080	6		8,135

Natatorium Assignable Square Feet (ASF)	43,705 ASF
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NON ASSIGNABLE PROGRAM SPACE	RM	ROOM NAME	OCCUPANCY		ROOM SIZE		
			SF/Per	Count	Qty	Unit SF	Total SF
		Pool Mechanical			1	2,000	2,000
		Pool Chemical Storage			2	80	160
		Natatorium Mechanical Room (HVAC)			1	3,300	3,300
		Misc. Cirulation/Structure/Walls			1	5,465	5,465
					17		10,925

Natatorium Non Assignable Square Feet (NASF)	10,925 ASF
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NATATORIUM		
Assignable Square Feet		43,705 ASF
Non Assignable Square Feet		10,925 NASF
Gross Square Feet		54,630 GSF
	<i>Calculated Efficiency</i>	80.0%

F.2 RECREATION SPACE TABULATION

DEPT	RM	ROOM NAME	OCCUPANCY		ROOM SIZE		
			SF/Per	Count	Qty	Unit SF	Total SF
PUBLIC SPACES -100		Entry Vestibule		0	1	250	250
		Entry Lobby			1	1,000	1,000
		Entry Lounge			1	650	650
		Distributed Lounges			2	300	600
				0	5		2,500

ONE STOP SHOP - 200		Welcome Desk					
		- Check Desk		3	1	250	250
		- Equipment Checkout / Purchase					
		- Membership Services					
		Welcome Desk Workroom		2	1	150	150
	Equipment Storage		0	1	120	120	
			5	3		520	

FITNESS AREA - 300		Open Fitness Space						
		Cardio & Selectorizer Equipment	50	420	1	21,000	21,000	
		Strength & Free Weight Equipment	50	164	1	8,200	8,200	
		Stretching & Functional Training Space	50	24	1	1,200	1,200	
			TOTAL FITNESS AREA - 30,400					
		Fitness Floor Admin Desk			3	50	150	
		Multi Purpose Rooms						
		Small Multi-Purpose Room	15	67	2	1,000	2,000	
		Small Multi-Purpose Room Storage	300	1	2	175	350	
		Medium Multi-Purpose Room	15	133	2	2,000	4,000	
		Medium Multi-Purpose Room Storage	300	1	2	250	500	
		Large Multi-Purpose Room	15	280	1	4,200	4,200	
		Large Multi-Purpose Room Storage	300	2	1	400	400	
			TOTAL STUDIO AREA - 10,200					
			TOTAL STORAGE AREA - 1,250					
		Personal Training						
		Select Fitness Equipment	50	16	1	800	800	
	Consultation Room	50	2	1	100	100		
	Assessment Room	50	2	1	100	100		
			1112	19		43,000		

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F.2 RECREATION SPACE TABULATION (CONTINUED)

DEPT	RM	ROOM NAME	OCCUPANCY		ROOM SIZE		
			SF/Per	Count	Qty	Unit SF	Total SF
RECREATIONAL COURT SPACE - 400		Two Court Gymnasium on Level 1	50	266	1	13,312	13,312
		Two Court Gymnasium on Level 3	50	266	1	13,312	13,312
		Four Court Gymnasium on Level 3	50	508	1	25,376	25,376
		Gymnasium Services / Equipment Station		2	1	150	150
		Gymnasium Storage		0	3	450	1,350
		Jogging Track	50	180	1	9,000	9,000
		Racquetball Court		4	2	800	1,600
				1226	10		64,100

ADMINISTRATION - 500		Reception & Waiting Area		3	1	250	250
		Director's Office		3	1	165	165
		Associate Directors' Offices		3	5	120	600
		Open Office Area		14	1	1,000	1,000
		Breakout Workspace		4	1	160	160
		Group Office Suite		5	2	250	500
		Workroom		4	1	200	200
		Professional Staff Breakroom		3	1	150	150
		Student Staff Breakroom		5	1	225	225
		Staff Restroom w/ Shower		3	2	150	300
		Conference Room		16	1	450	450
		Administration Storage		1	1	120	120
				63	17		4,120

LOCKER ROOMS - 600		Level 1 Locker Rooms					
		Men's Locker Room	50	28	1	1,400	1,400
		Women's Locker Room	50	28	1	1,400	1,400
		Unisex / Special Needs Locker Room	50	9	1	425	425
		Level 3 Locker Rooms					
		Men's Locker Room	50	52	1	2,600	2,600
		Women's Locker Room	50	52	1	2,600	2,600
	Unisex / Special Needs Locker Room	50	9	1	425	425	
				177	6		8,850

DEPT	RM	ROOM NAME	OCCUPANCY		ROOM SIZE		
			SF/Per	Count	Qty	Unit SF	Total SF
BUILDING SUPPORT - 900		Laundry			1	400	400
		Building Service					
		- Building Maintenance			1	1,700	1,700
		- Loading Dock					
		- Trash / Recycling					
		Maintenance Office		2	1	150	150
		Main Equipment Repair Room			1	300	300
		Satellite Equipment Repair Room			1	100	100
		General Storage			4	175	700
					5		3,350

Recreation Assignable Square Feet (ASF)	126,440 ASF
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NON ASSIGNABLE PROGRAM SPACE		Public Restroom			3	350	1,050
		Rec Facility Mechanical Room (HVAC)			1	9,300	9,300
		Main Electrical Room			1	400	400
		Satellite Electrical Room			4	80	320
		Telephone / Communications / Data Room			5	80	400
		Fire / Water Service			1	100	100
		Janitor / Custodial Rooms			5	60	300
		Vertical Circulation - Stairs			5	1,800	9,000
		Vertical Circulation - Elevators			2	150	300
		Elevator Machine Room			2	65	130
		Misc. Circulation / Structure / Walls			1	38,190	38,190
						42	

Recreation Non Assignable Square Feet (NASF)	59,490 ASF
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RECREATION		
Assignable Square Feet		126,440 ASF
Non Assignable Square Feet		59,490 NASF
Gross Square Feet		185,930 GSF
	<i>Calculated Efficiency</i>	68.0%

**14L2T Southeast Recreation Facility Replacement
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F.3 SPACE TABULATION SUMMARY

NATATORIUM		
Assignable Square Feet		43,705 ASF
Non Assignable Square Feet		10,925 NASF
Gross Square Feet		54,630 GSF
	<i>Calculated Efficiency</i>	80.0%

RECREATION		
Assignable Square Feet		126,440 ASF
Non Assignable Square Feet		59,490 NASF
Gross Square Feet		185,930 GSF
	<i>Calculated Efficiency</i>	68.0%

TOTALS		
Assignable Square Feet		170,145 ASF
Non Assignable Square Feet		70,415 NASF
Gross Square Feet		240,560 GSF
	<i>Calculated Efficiency</i>	70.7%

**14L2T Southeast Recreation Facility Replacement
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SECTION G ROOM DATA SHEETS

NATATORIUM

• NATATORIUM POOL AREA	52
• NATATORIUM SUPPORT SPACES	56
• SPECTATOR SEATING SPACES	82
• NON ASSIGNABLE PROGRAM SPACE	96

RECREATION CENTER

• PUBLIC SPACES	103
• ONE STOP SHOP	110
• FITNESS AREA	116
• RECREATIONAL COURT SPACE	142
• ADMINISTRATION	156
• LOCKER ROOMS	180
• BUILDING SUPPORT	192
• NON ASSIGNABLE PROGRAM SPACE	202

AREA Natatorium Pool Area

ROOM Pool Floor

FUNCTIONAL DESCRIPTION	50-meter competition and recreation pool with 8 swimming lanes. 6-foot movable bulkhead dividing the pool into two pool areas.
ADJACENCY	Locker rooms, Wet Classroom, Natatorium Storage, Athletic Training/First Aid, Pool Deck Rest Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 12,800 square feet</p> <p>Minimum Dimensions 75'-1" x 170'-4.5"</p> <p>Minimum Heights None. Depth of pool to be approximately 2-3 meters</p>
OCCUPANCY	<p>Access Open on all sides</p> <p>Users Intercollegiate Athletics and Recreation</p> <p>Security None</p> <p>Numbers Approximately 256 people in the space. (50 ASF per person)</p>
ARCHITECTURAL	<p>Floor The pool will be constructed of cast-in-place or pneumatically applied concrete. The interior finish of the pool and space will be unglazed cermaic mosaic tile.</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish.</p> <p>Ceiling Exposed acoustic metal deck.</p> <p>Doors None</p> <p>Windows None</p>
SYSTEMS	<p>HVAC Independent air handling unit with provisions for high outdoor air flows, humidity resistant materials (coatings), heat recovery. Moisture resistant duct materials (ie. Aluminum). Negative air. Air intake near pool surface.</p> <p>Plumbing Integrated overflow gutter surrounding edge of pool. Multiple systems to be determined by Aquatics Consultant</p> <p>Electrical None</p> <p>Lighting High bay or similar high efficiency fluorescent or LED fixtures. Achieve lighting levels to accomodate BIG10 Network broadcasts</p> <p>Audio / Visual Underwater cameras used at finish line and various locations along the pool edge</p> <p>Computer None</p> <p>Telephone None</p> <p>Access Control None</p> <p>Acoustics None</p> <p>Special Systems None</p>
EQUIPMENT	<p>Fixed Movable 6'-0" bulkhead across pool surface.. Operable Height Pool Floor</p> <p>Movable Lane Lines</p>
SPECIAL COMMENTS	

AREA Natatorium Pool Area
ROOM Diving Well

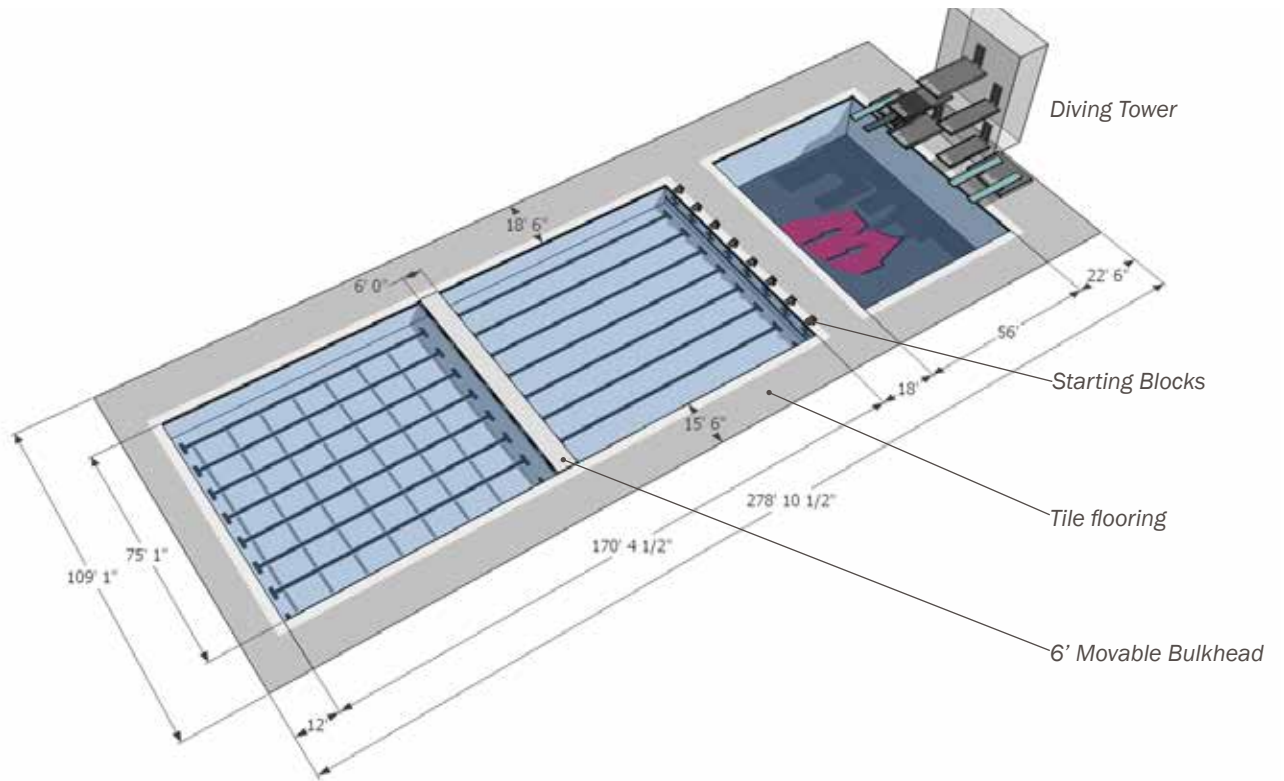
FUNCTIONAL DESCRIPTION	Competition diving well used by collegiate athletics and recreation
ADJACENCY	
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 4,205 square feet</p> <p>Minimum Dimensions 75'-1" x 56'-0"</p> <p>Minimum Heights Minimum 46'-0" (deck to ceiling) over the 10-meter diving platform. 49'-3" preferred</p>
OCCUPANCY	<p>Access Open on all sides</p> <p>Users Intercollegiate Athletics and Recreation</p> <p>Security None</p> <p>Numbers Approximately 84 people in the space. (50 ASF per person)</p>
ARCHITECTURAL	<p>Floor The pool will be constructed of cast-in-place or pneumatically applied concrete. The interior finish of the pool and space will be unglazed cermaic mosaic tile.</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish.</p> <p>Ceiling Exposed acoustic metal deck.</p> <p>Doors None</p> <p>Windows None</p>
SYSTEMS	<p>HVAC Independent air handling unit with provisions for high outdoor air flows, humidity resistant materials (coatings), heat recovery. Moisture resistant duct materials (ie. Aluminum). Negative air. Air intake near pool surface.</p> <p>Plumbing Integrated overflow gutter surrounding edge of pool. Multiple systems to be determined by Aquatics Consultant</p> <p>Electrical None</p> <p>Lighting High bay or similar high efficiency fluorescent or LED fixtures. Achieve lighting levels to accomodate BIG10 Network broadcasts</p> <p>Audio / Visual Underwater cameras on each side of the diving well and aligned with platform plummets</p> <p>Computer None</p> <p>Telephone None</p> <p>Access Control None</p> <p>Acoustics None</p> <p>Special Systems Air Sparger Systems under each of the three platform plummets</p>
EQUIPMENT	<p>Fixed Diving Tower (3-centerline) Diving springboards (1-meter and 3-meter)</p> <p>Movable</p>
SPECIAL COMMENTS	

AREA Natatorium Pool Area

COMPONENT Natatorium Deck

FUNCTIONAL DESCRIPTION	Deck space surrounding 50-meter pool and diving well. Space to accommodate various functions for recreation and collegiate athletics. Will hold tip-n-roll bleachers for swimmers & divers during competitions
ADJACENCY	Locker rooms, Wet Classroom, Natatorium Storage, Athletic Training/First Aid, Pool Deck Rest Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 13,425 square feet</p> <p>Minimum Dimensions 278'-10" x 109'-1" overall outside dimensions of space</p> <p>Minimum Heights Minimum 46'-0" (deck to ceiling) over the 10-meter diving platform. 49'-3" preferred</p>
OCCUPANCY	<p>Access Two controlled access points onto deck with multiple controlled egress points</p> <p>Users Intercollegiate Athletics and Recreation</p> <p>Security Lockable after hours</p> <p>Numbers Approximately 895 people in the space. (15 ASF per person)</p>
ARCHITECTURAL	<p>Floor The pool will be constructed of cast-in-place or pneumatically applied concrete. The interior finish of the pool and space will be unglazed cermaic mosaic tile.</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish.</p> <p>Ceiling Exposed acoustic metal deck.</p> <p>Doors TBD</p> <p>Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Independent air handling unit with provisions for high outdoor air flows, humidity resistant materials (coatings), heat recovery. Moisture resistant duct materials (ie. Aluminum). Negative air. Air intake near pool surface.</p> <p>Plumbing Floor drains, trench drains, hose bibbs, domestic water connections, drinking fountain with possible bottle filling station. Integrated overflow gutter surrounding edge of pool</p> <p>Electrical Wall outlets as required around perimeter.</p> <p>Lighting High bay or similar high efficiency fluorescent or LED fixtures. Achieve lighting levels to accomodate BIG10 Network broadcasts</p> <p>Audio / Visual Distributed sound loud speakers & PA (zoned). Camera stations for remote and manually operated cameras. Video capable scoreboard. Junction boxes at deck level</p> <p>Computer Yes. Connection for Electronic Timing Blocks</p> <p>Telephone Yes</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems None</p>
EQUIPMENT	<p>Fixed Diving Tower (3-centerline) Diving springboards (1-meter and 3-meter)</p> <p>Movable Starting Blocks Scoreboard Lifeguard stations</p>
SPECIAL COMMENTS	

SPACE DIAGRAM Natatorium with Pool Deck Dimensions



BUILT EXAMPLE University of Iowa (RDG Planning & Design)



AREA Natatorium Support Spaces

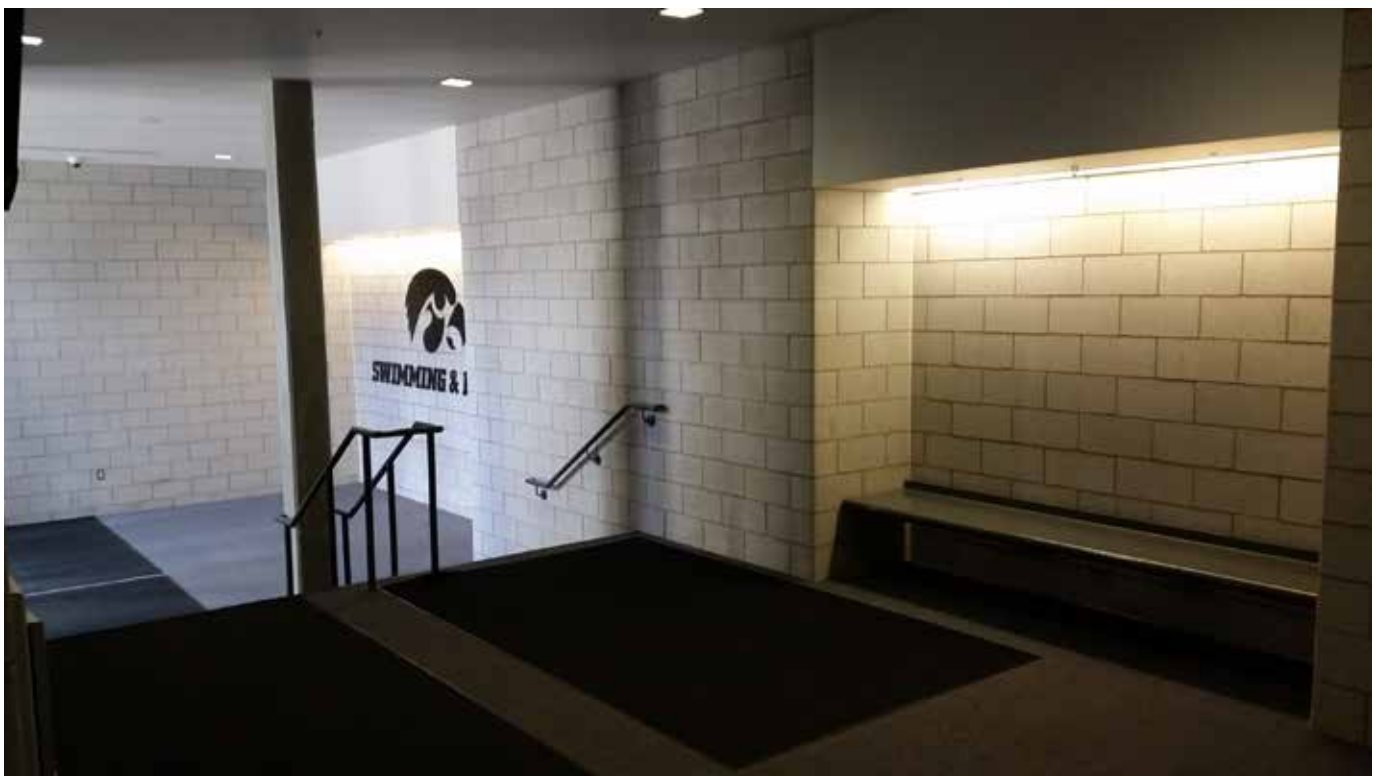
ROOM Natatorium Entry

FUNCTIONAL DESCRIPTION	Seperate entry point into the facility to service spectators attending Swimming/Diving competitions and other events in the Natatorium
ADJACENCY	On the exterior of facility. Near Spectator Restrooms and vertical circulation up to Elevated Seating Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 500 square feet</p> <p>Minimum Dimensions 22'-4" x 22'-4" to 16'-8" x 30'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Double control point entry (inside and outside)</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers TBD</p>
ARCHITECTURAL	<p>Floor Porcelain tile with rigid walkoff grate</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Aluminum and glass door</p> <p>Windows Yes. Maximize views and natural daylight.</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing Drinking fountain with bottle filling station. (Hydration Station).</p> <p>Electrical Wall and floor outlets on perimeter and at required equipment</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TBD</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics No</p> <p>Special Systems Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p>
EQUIPMENT	<p>Fixed -</p> <p>Movable -</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



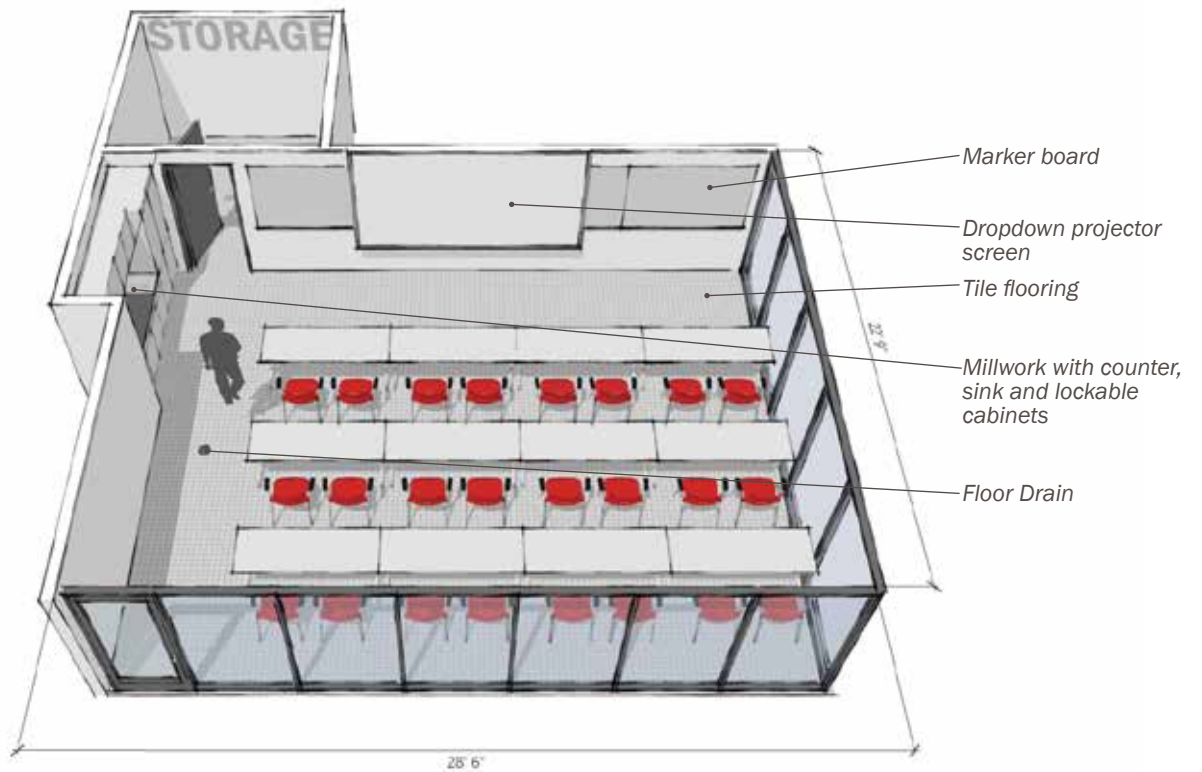
BUILT EXAMPLE University of Iowa (RDG Planning & Design)



AREA Natatorium Support Spaces
ROOM Wet Classroom

FUNCTIONAL DESCRIPTION	Multi-purpose training room to serve various functions of the Natatorium. Space to be shared by Recreation and Intercollegiate Athletics
ADJACENCY	Directly off of the pool deck. Directly connected to storage room. Direct access to storage room (100 sqft)
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 650 square feet</p> <p>Minimum Dimensions 22'-9" x 28'-6"</p> <p>Minimum Heights High Ceilings not required for this space</p>
OCCUPANCY	<p>Access Single Control Entry Point</p> <p>Users Lockable after hours</p> <p>Security TBD</p> <p>Numbers TBD</p>
ARCHITECTURAL	<p>Floor Tile with floor drains</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Aluminum and glass double doors in curtain wall or storefront system. Corrosion resistant</p> <p>Windows Yes. Interior aluminum storefront to maximize visibility and connection to pool deck. All equipment to be corrosion resistant.</p>
SYSTEMS	<p>HVAC On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.</p> <p>Plumbing Floor drains. Handwashing sink</p> <p>Electrical Wall Outlets as required around perimeter</p> <p>Lighting Recessed Fluorescent</p> <p>Audio / Visual Yes. Satellite and/or cable access required. Video flat screen panels.</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control Yes</p> <p>Acoustics TBD</p> <p>Special Systems Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p>
EQUIPMENT	<p>Fixed Millwork counter with sink and lockable storage cabinets Marker Boards, projector or TV monitor</p> <p>Movable Desks and Chairs</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE University of Iowa (RDG Planning & Design)



**14L2T Southeast Recreation Facility Replacement
Program Statement**

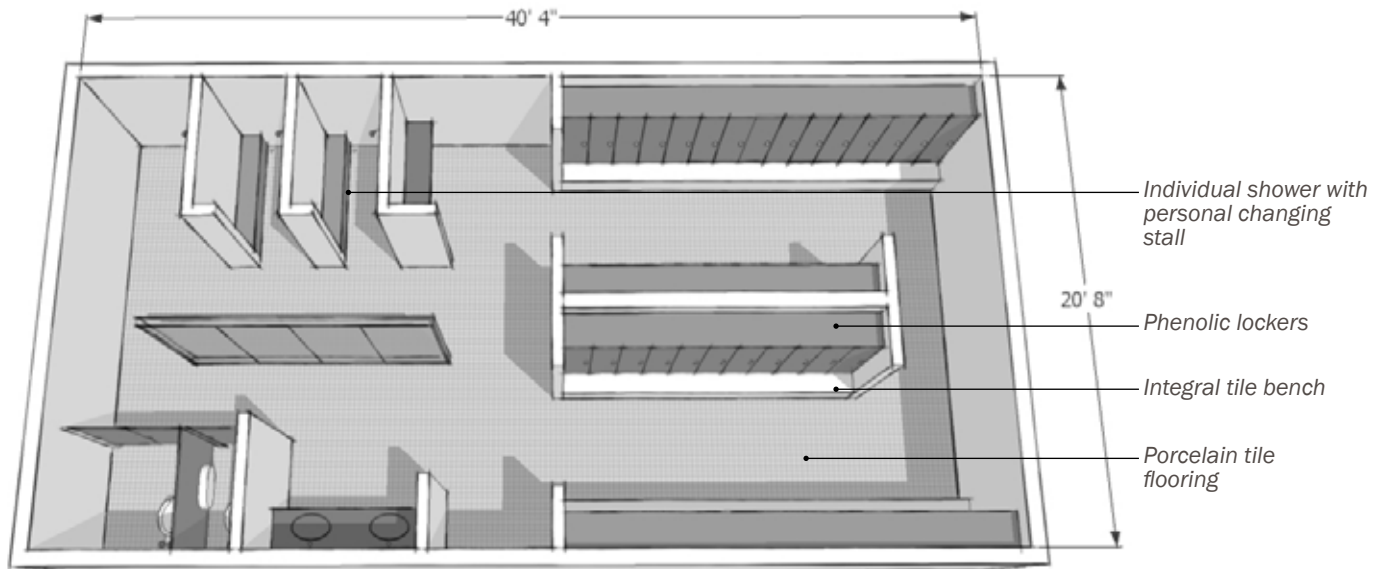
AREA Natatorium Support Spaces**ROOM** Wet Classroom Storage

FUNCTIONAL DESCRIPTION	Storage room for various recreation and collegiate athletics equipment
ADJACENCY	Directly connected to Wet Classroom
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 100 square feet</p> <p>Minimum Dimensions 10'-0" x 10'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users Lockable</p> <p>Security TBD</p> <p>Numbers Not Occupied</p>
ARCHITECTURAL	<p>Floor Exposed Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling None</p> <p>Doors Corrosion resistant metal door and hardware</p> <p>Windows None</p>
SYSTEMS	<p>HVAC Standard Natatorium mechanical heating/cooling.</p> <p>Plumbing No</p> <p>Electrical Wall Outlets as required around perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed storage shelving</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Natatorium Support Spaces
ROOM Visiting Team Locker Room

FUNCTIONAL DESCRIPTION	Team Locker rooms located on Level 1 of the facility near the Natatorium. Lockers are to be day use only. Space can be closed off from adjacent Recreation Lockers and serve events or competitions in the Natatorium
ADJACENCY	Directly connected to Recreation Natatorium Locker Rooms and near Pool Deck
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 800 square feet each. 1,600 total square feet</p> <p>Minimum Dimensions Varies. Close to 25'-0" x 32'-0" to 20'-0" x 40"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Access off of main circulation and from pool deck area</p> <p>Users None</p> <p>Security TBD</p> <p>Numbers 40 occupants per locker room based off of 50 square feet per person.</p>
ARCHITECTURAL	<p>Floor Tile</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish</p> <p>Ceiling Acoustical wet location suspended ceiling and gypsum</p> <p>Doors Metal Doors</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.</p> <p>Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains</p> <p>Electrical Wall outlets as required around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Mens: (3) Private Showers; (2) Water Closets; (2) Lavatories; (50) Lockers Womens: (3) Private Showers; (2) Water Closets; (2) Lavatories; (50) Lockers</p> <p>Integrated bench seats in locker area</p> <p>Suit dryers</p>
SPECIAL COMMENTS	<i>Space can be closed off from adjacent Recreation Lockers and serve events or competitions in the Natatorium</i>

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)

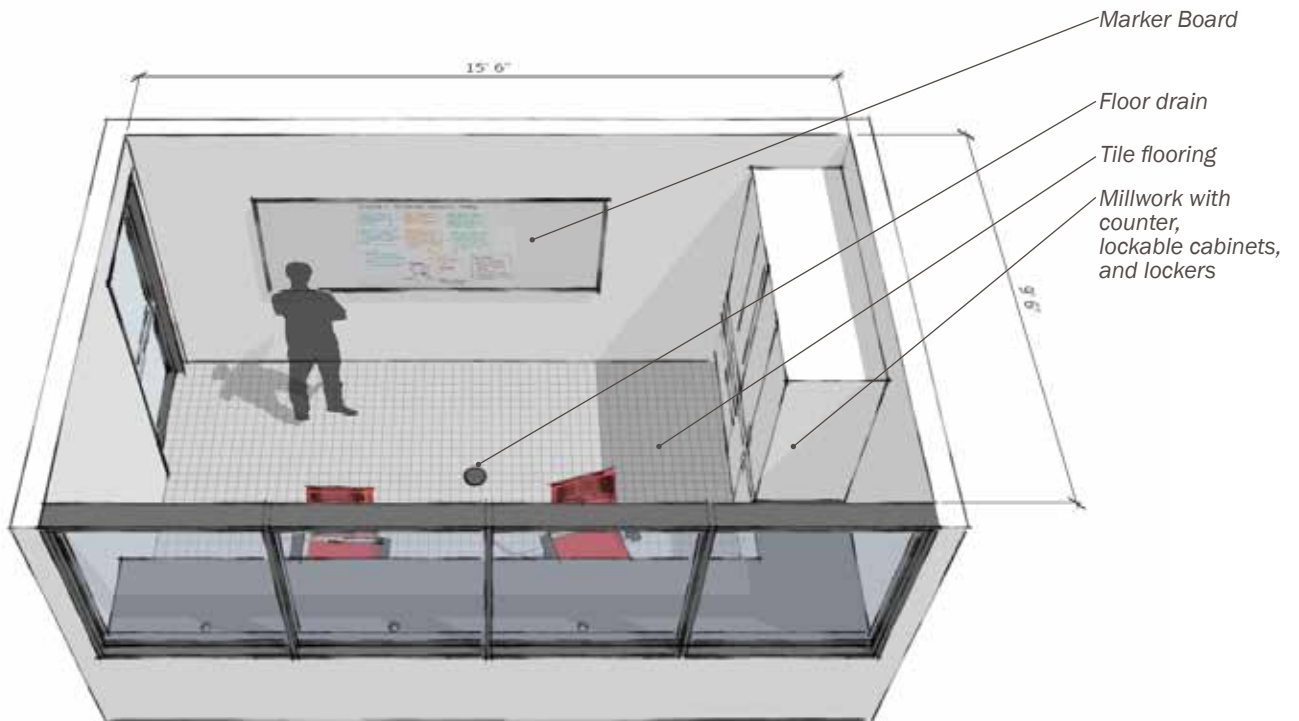


AREA Natatorium Support Spaces

ROOM Lifeguard Staff Room

FUNCTIONAL DESCRIPTION	Shared office space for on duty Lifeguards to work from and serve as a breakroom	
ADJACENCY	Located off of Pool Deck. Near main access point onto Pool Deck for security	
DIMENSIONAL REQUIREMENTS	Net Program Area	150 square feet
	Minimum Dimensions	12'-6" x 12'-6" to 8'-0" x 19'-4"
	Minimum Heights	High ceilings not required for this space
OCCUPANCY	Access	Single control point entry
	Users	TBD
	Security	Lockable after open hours
	Numbers	Approximately 2 or 3
ARCHITECTURAL	Floor	Tile with floor drain
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Acoustical suspended ceiling or gypsum
	Doors	Aluminum and glass door with corrosion resistant hardware
	Windows	Yes. Interior aluminum storefront to maximize visibility and connection to pool deck. All equipment to be corrosion resistant
SYSTEMS	HVAC	On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.
	Plumbing	Floor drain
	Electrical	Wall outlets on perimeter
	Lighting	Recessed Fluorescent.
	Audio / Visual	TBD
	Computer	Yes
	Telephone	Yes
	Access Control	Yes
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption
	Special Systems	
EQUIPMENT	Fixed	Millwork counter with lockable storage cabinets Millwork lockers for lifeguard staff
	Movable	(2) Chairs
SPECIAL COMMENTS	-	

SPACE DIAGRAM



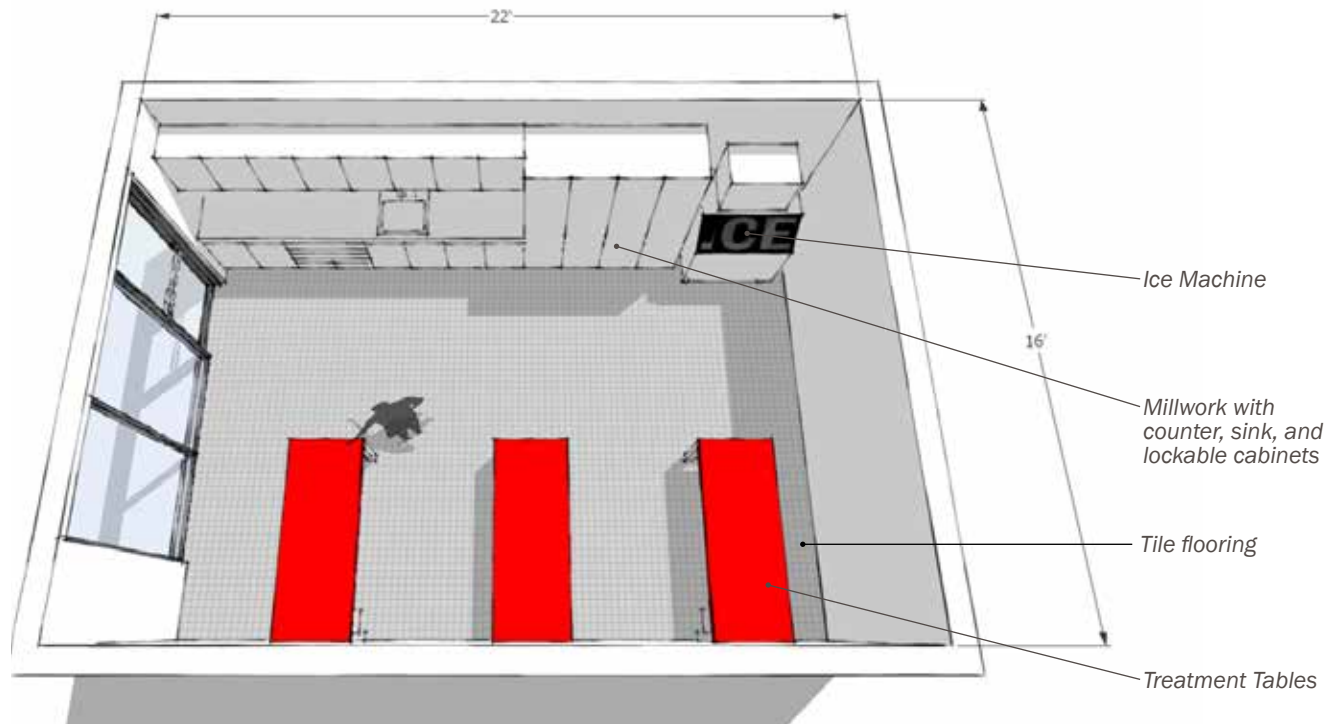
BUILT EXAMPLE *Unknown*



AREA Natatorium Support Spaces
ROOM Athletic Training / First Aid

FUNCTIONAL DESCRIPTION	First Aid and Athletic Training room to service Natatorium. Space to be used by Recreation Staff as the primary First Aid resource and as a satellite space for Intercollegiate Athletics during practice & competition.	
ADJACENCY	Directly off of pool deck	
DIMENSIONAL REQUIREMENTS	Net Program Area	350 square feet
	Minimum Dimensions	16'-0" x 22'-0"
	Minimum Heights	High ceiling not required for this space.
OCCUPANCY	Access	Single control entry point
	Users	TBD
	Security	Lockable after open hours
	Numbers	Approximately 6
ARCHITECTURAL	Floor	Tile
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Accoustical suspended ceiling or gypsum
	Doors	Aluminum and glass door. All hardware to be corrosive resistant
	Windows	TBD
SYSTEMS	HVAC	On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.
	Plumbing	Floor drains. Handwashing sinks
	Electrical	Wall Outlets as required around perimeter
	Lighting	Recessed Fluorescent
	Audio / Visual	TBD
	Computer	Yes
	Telephone	Yes
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems	
EQUIPMENT	Fixed	Ice Machine Marker Boards Millwork counter with sink and lockable storage cabinets
	Movable	Storage Shelving (3) Treatment/Massage Tables
SPECIAL COMMENTS	-	

SPACE DIAGRAM



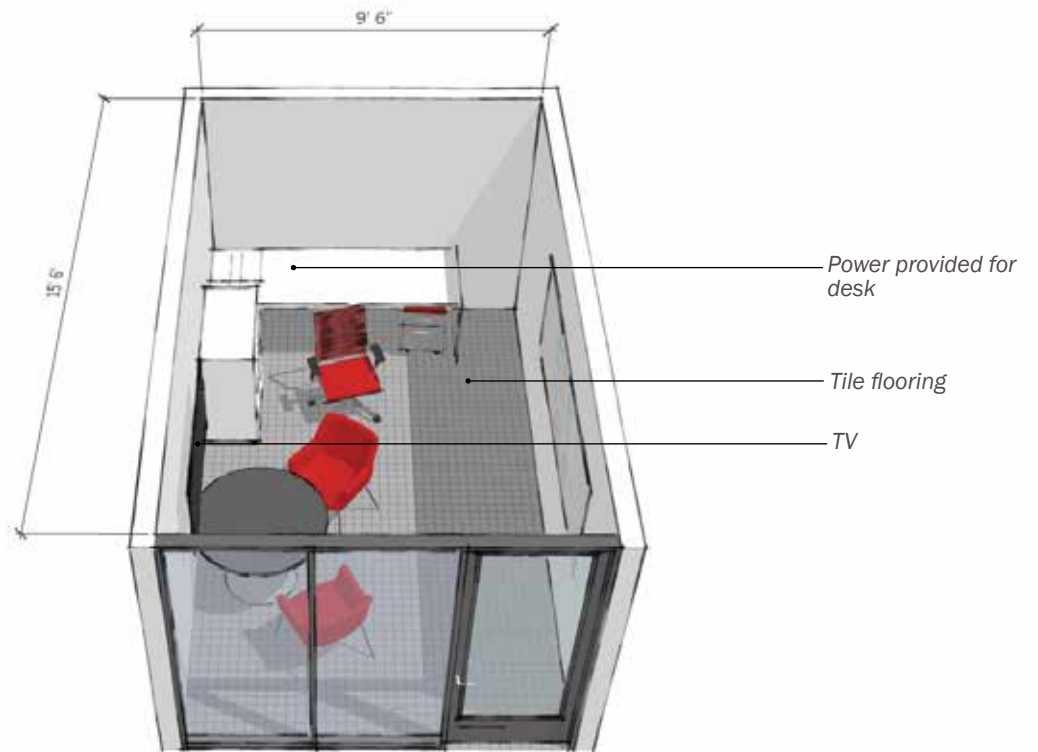
BUILT EXAMPLE University of Iowa (RDG Planning & Design)



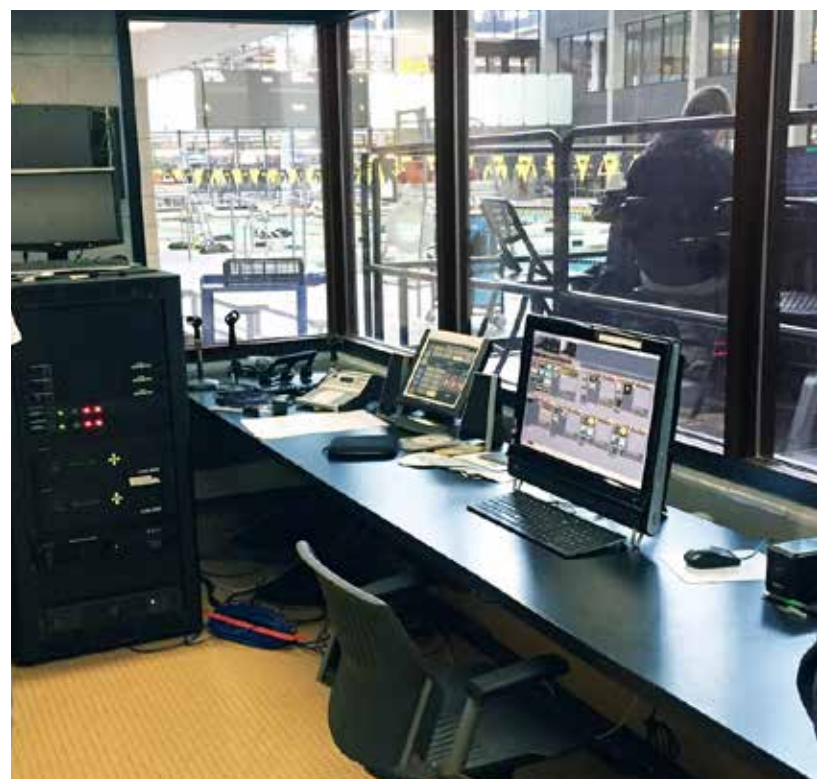
AREA Natatorium Support Spaces
ROOM Collegiate Athletics Touchdown Office

FUNCTIONAL DESCRIPTION	Small office/meeting are for the Swimming and Diving coaches to utilize in the Natatorium	
ADJACENCY	Located off of Pool Deck.	
DIMENSIONAL REQUIREMENTS	Net Program Area	150 square feet
	Minimum Dimensions	9'-6" x 15'-6"
	Minimum Heights	High ceilings not required for this space
OCCUPANCY	Access	Single control point entry
	Users	TBD
	Security	Lockable after open hours
	Numbers	Approximately 1 or 2
ARCHITECTURAL	Floor	Tile
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Acoustical suspended ceiling or gypsum
	Doors	Aluminum and glass door or a wood door
	Windows	Yes. Interior aluminum storefront to maximize visibility and connection to pool deck
SYSTEMS	HVAC	On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.
	Plumbing	No
	Electrical	Wall outlets on perimeter
	Lighting	Recessed Fluorescent.
	Audio / Visual	TBD
	Computer	Yes
	Telephone	Yes
	Access Control	
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption
	Special Systems	
EQUIPMENT	Fixed	Millwork with lockable storage cabinets
	Movable	Chairs Group Table Small Workstation Desk
SPECIAL COMMENTS	-	

SPACE DIAGRAM



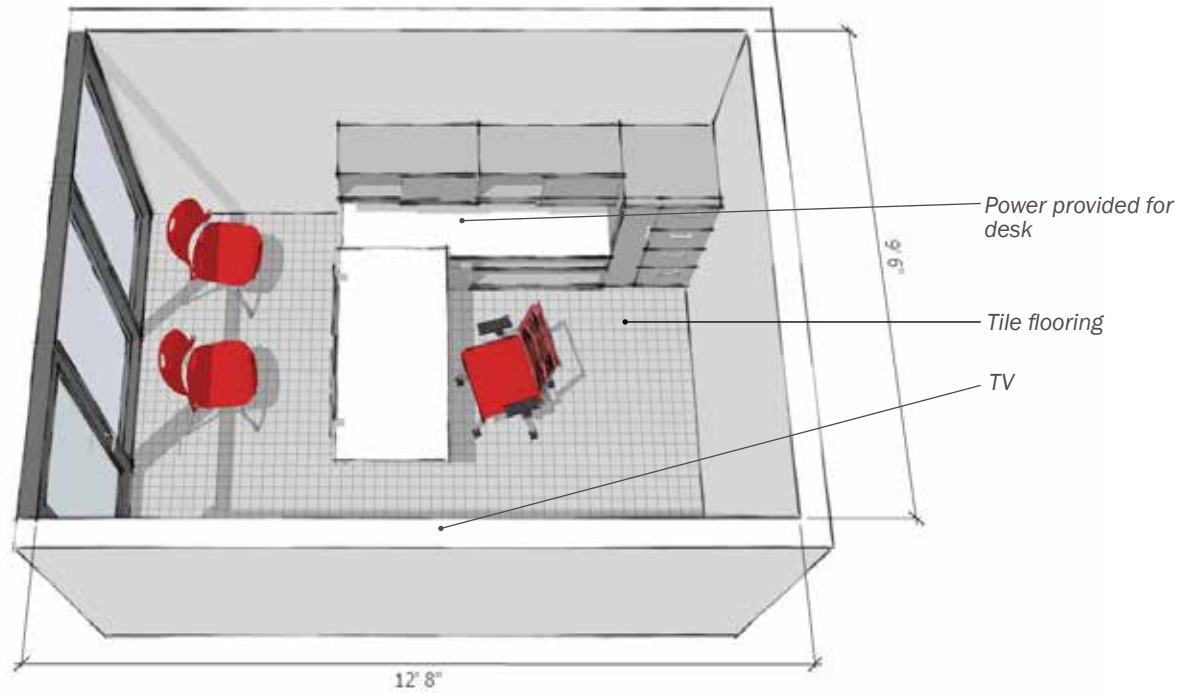
BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*



AREA Natatorium Support Spaces
ROOM Assistant Director of Aquatics Office

FUNCTIONAL DESCRIPTION	Private Office for Director of Aquatics	
ADJACENCY	Located off of Pool Deck. Office to have visual connection to Natatorium access points	
DIMENSIONAL REQUIREMENTS	Net Program Area	120 square feet
	Minimum Dimensions	9'-6" x 12'-8"
	Minimum Heights	High ceilings not required for this space
OCCUPANCY	Access	Single control point entry
	Users	TBD
	Security	Lockable after open hours
	Numbers	Approximately 1 or 2
ARCHITECTURAL	Floor	Tile
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Acoustical suspended ceiling or gypsum
	Doors	Aluminum and glass door or a wood door
	Windows	Yes. Interior aluminum storefront to maximize visibility and connection to pool deck
SYSTEMS	HVAC	On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.
	Plumbing	No
	Electrical	Wall outlets on perimeter
	Lighting	Recessed Fluorescent.
	Audio / Visual	TBD
	Computer	Yes
	Telephone	Yes
	Access Control	-
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption
	Special Systems	
EQUIPMENT	Fixed	-
	Movable	Office Desk Credenza Chairs
SPECIAL COMMENTS	-	

SPACE DIAGRAM



BUILT EXAMPLE Auburn Montgomery (HOK)

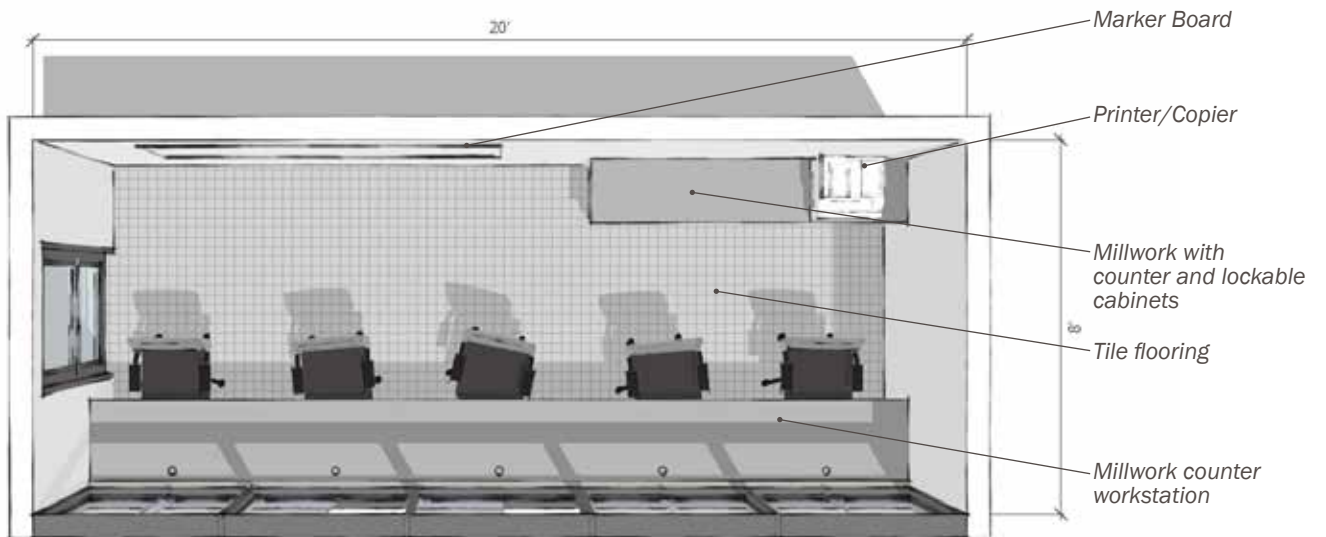


AREA Natatorium Support Spaces

ROOM Meet Management Room

FUNCTIONAL DESCRIPTION	Work room for officials to coordinate and operate swimming and diving competitions
ADJACENCY	Directly off of pool deck area. Aligned with primary starting blocks for swimming races.
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 160 square feet</p> <p>Minimum Dimensions 20'-0" x 8'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 5 to 6 people</p>
ARCHITECTURAL	<p>Floor Tile</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Aluminum and glass door or a wood door</p> <p>Windows Yes. Interior aluminum storefront to maximize visibility and connection to pool deck. Room must have view of scoreboard</p>
SYSTEMS	<p>HVAC On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.</p> <p>Plumbing No</p> <p>Electrical Maximize wall outlets on perimeter and integrated into workstations</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual Control and connections to timing system, scoreboard, and announcement speakers.</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Integrated desk/worktable Millwork counter with lockable storage cabinets</p> <p>Movable Chairs Copy/Printer; Marker Board</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



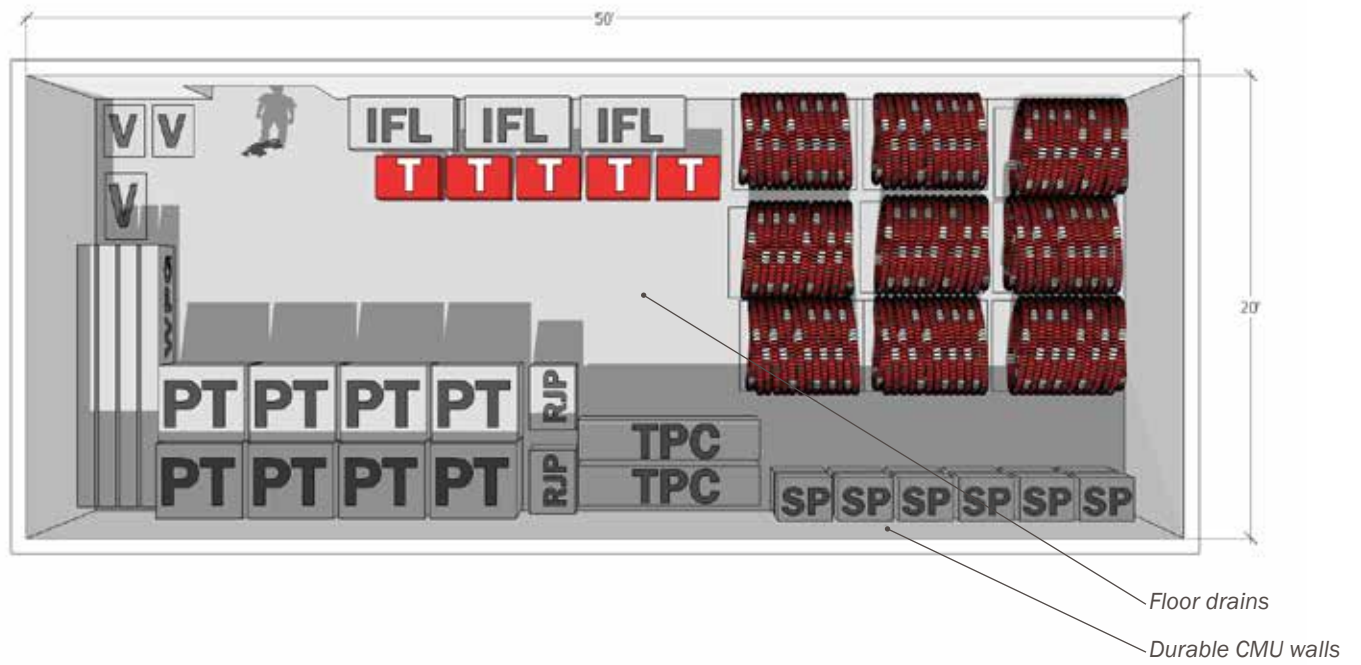
BUILT EXAMPLE *University of Tennessee (HNTB)*



AREA Natatorium Support Spaces
ROOM Storage - Natatorium Equipment

FUNCTIONAL DESCRIPTION	Storage space for Natatorium Equipment									
ADJACENCY	Directly connected to pool deck									
DIMENSIONAL REQUIREMENTS	Net Program Area	1,000 square feet								
	Minimum Dimensions	30'-0" x 33'-4" to 20'-0" x 50'-0"								
	Minimum Heights	Maximize ceiling height for potential split level storage								
OCCUPANCY	Access	Single point of entry. Two entry points if possible								
	Users	TBD								
	Security	Lockable after hours								
	Numbers	Not Occupied								
ARCHITECTURAL	Floor	Sealed Concrete or Tile. Must have incorporated floor drains								
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments								
	Ceiling	Acoustical suspended ceiling or gypsum.								
	Doors	TBD								
	Windows	No								
SYSTEMS	HVAC	Standard mechanical heating/cooling.								
	Plumbing	Floor Drains.								
	Electrical	Wall outlets as required at equipment locations and around perimeter.								
	Lighting	Recessed Fluorescent.								
	Audio / Visual	No								
	Computer	No								
	Telephone	No								
	Access Control	Possible to have key card access or card verification capabilities to access this space.								
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.								
	Special Systems									
EQUIPMENT	Fixed	Various storage shelving and hooks to maximize efficiency of space								
	Movable	<table border="0"> <tr> <td>- (9) Lane Reels</td> <td>- (1) Poolside Vacuums (V)</td> </tr> <tr> <td>- (12) Starting Platforms (SP)</td> <td>- (4) Folding Water Polo Goals</td> </tr> <tr> <td>- (8) Power Towers (PT)</td> <td>- (2) Touchpad Caddies</td> </tr> <tr> <td>- (2) Robotic Vacuums (V)</td> <td>- (1) RJP Caddies</td> </tr> </table>	- (9) Lane Reels	- (1) Poolside Vacuums (V)	- (12) Starting Platforms (SP)	- (4) Folding Water Polo Goals	- (8) Power Towers (PT)	- (2) Touchpad Caddies	- (2) Robotic Vacuums (V)	- (1) RJP Caddies
- (9) Lane Reels	- (1) Poolside Vacuums (V)									
- (12) Starting Platforms (SP)	- (4) Folding Water Polo Goals									
- (8) Power Towers (PT)	- (2) Touchpad Caddies									
- (2) Robotic Vacuums (V)	- (1) RJP Caddies									
SPECIAL COMMENTS	Final Equipment List to be verified by recreation and athletics staff									

SPACE DIAGRAM



BUILT EXAMPLE University of Iowa (RDG Planning & Design)



AREA Natatorium Support Spaces

ROOM Storage - Wet Gear Bags

FUNCTIONAL DESCRIPTION Storage space for athletes to hang swim team bags during practice.

ADJACENCY Locate in close proximity to the pool deck and student athlete access to Natatorium.

DIMENSIONAL REQUIREMENTS

- Net Program Area** (2) at 60 square feet or a single room at 120 square feet
- Minimum Dimensions** 3'-0" x 20'-0" recessed space off of circulation or combined into 8'-0" x 15'-0" room
- Minimum Heights** High ceilings not required for this space

OCCUPANCY

- Access** Open
- Users** Swim Teams
- Security** TBD
- Numbers** Not Occupied

ARCHITECTURAL

- Floor** Tile with multiple floor drains
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments.
- Ceiling** Acoustical suspended ceiling or gypsum
- Doors** None
- Windows** None

SYSTEMS

- HVAC** Natatorium mechanical heating/cooling. Provide exhaust air.

Plumbing Trench drains on perimeter walls

Electrical Wall outlets on perimeter

Lighting Recessed Fluorescent.

Audio / Visual None

Computer No

Telephone No

Access Control TBD

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption

Special Systems

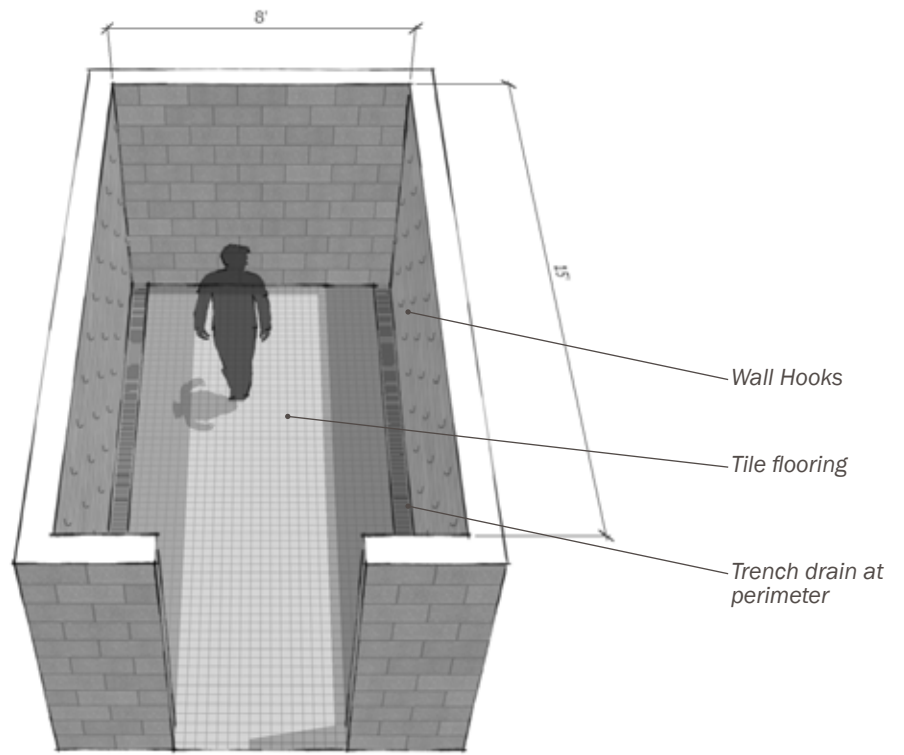
EQUIPMENT

- Fixed** Hanging hooks on wall

Movable None

SPECIAL COMMENTS Determine security needs of space. Does space serve best as a lockable room off of pool deck or as a recessed nook near pool deck.

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

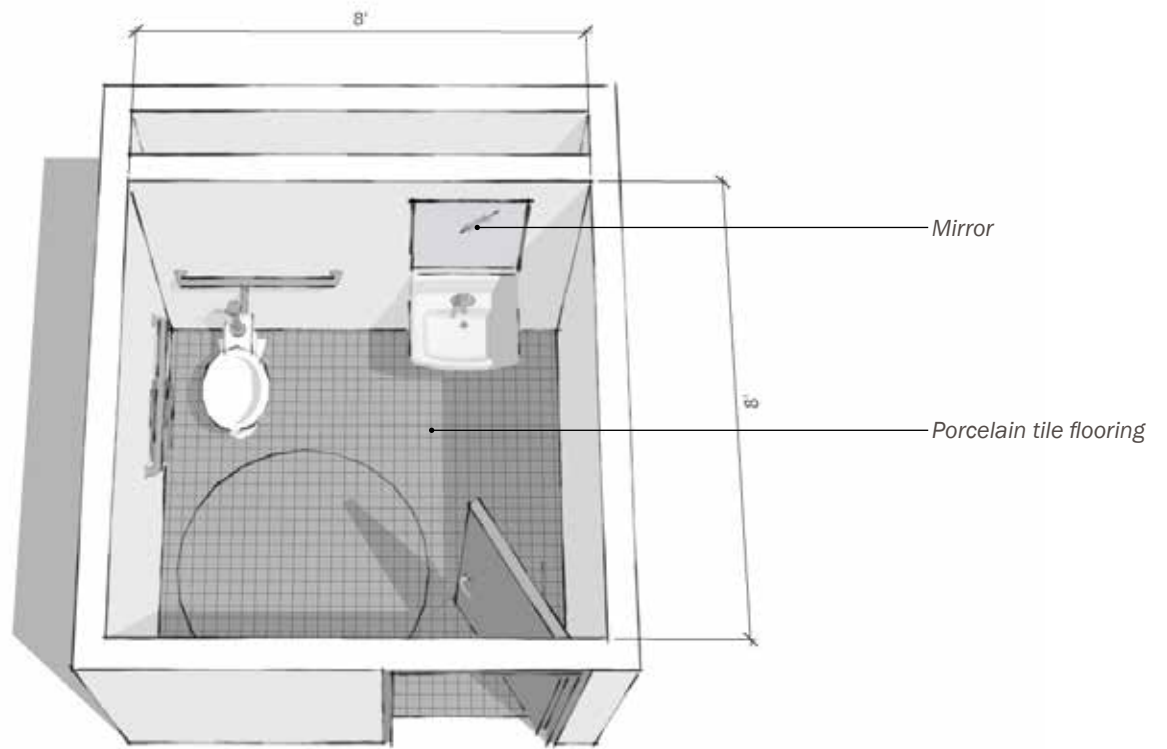


AREA Natatorium Support Spaces

ROOM Natatorium Deck Restroom

FUNCTIONAL DESCRIPTION	Accessible restrooms located directly off of the deck area to allow students, swimmers, coaches, officials, and life-guards a space to use without circulating all the way back to the locker rooms.
ADJACENCY	Directly off of or near pool deck. Located at opposite ends of the Natatorium
DIMENSIONAL REQUIREMENTS	<p>Net Program Area (2) at 65 square feet</p> <p>Minimum Dimensions 8'-0" x 8'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users TBD</p> <p>Security No</p> <p>Numbers 1</p>
ARCHITECTURAL	<p>Floor Tile</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal Door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Exhaust.</p> <p>Plumbing Standard plumbing (water closet, lavatory, floor drain).</p> <p>Electrical Convenience wall outlets as required around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Accessible at all hours</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed water closet and lavatory</p> <p>Movable None</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE Auburn University at Montgomery (HOK)



AREA Natatorium Support Spaces
ROOM Broadcasting Room - A/V Connections

FUNCTIONAL DESCRIPTION	Specific location of connections for Big10 network to plug their broadcasting trucks too.
ADJACENCY	Space within Building Maintenance.
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 50 square feet</p> <p>Minimum Dimensions 5'-0 x 10'-0"</p> <p>Minimum Heights High ceiling is not required for this space</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users TBD</p> <p>Security Lockable</p> <p>Numbers Not Occupied</p>
ARCHITECTURAL	<p>Floor Sealed Concrete</p> <p>Walls TBD. If so, Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Exposed</p> <p>Doors TBD</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing No</p> <p>Electrical Scope to be confirmed.</p> <p>Lighting Suspended Fluorescent.</p> <p>Audio / Visual Scope to be confirmed</p> <p>Computer Yes</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics No</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed TBD</p> <p>Movable TBD</p>
SPECIAL COMMENTS	TBD if this needs to be a separate room or a designated area of space. Conduit to/from this space to direct cabling to various locations in Natatorium for camera feeds.

AREA Natatorium Support Spaces
ROOM Storage - Timing Equipment

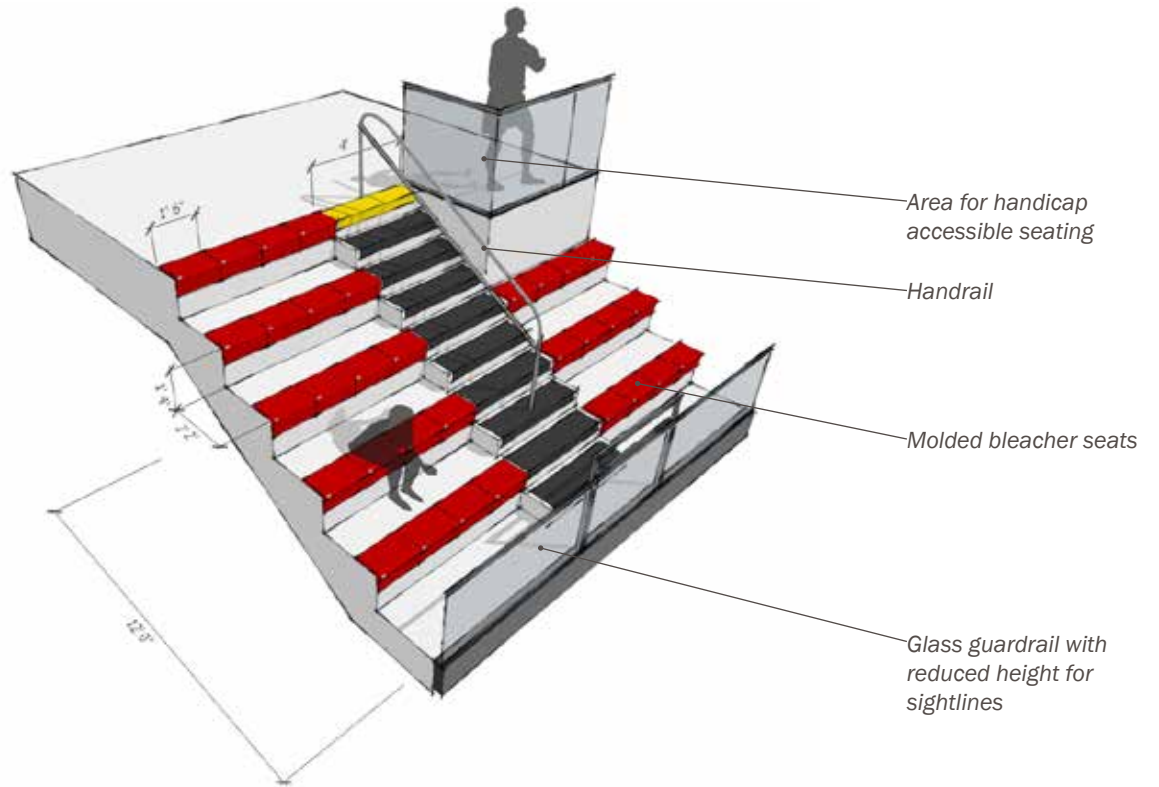
FUNCTIONAL DESCRIPTION	Designated storage space for swimming timing equipment. Conditioned space separate from Natatorium
ADJACENCY	Near Storage Room for General Natatorium Equipment
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 60 square feet</p> <p>Minimum Dimensions 6'-0" x 10'-0"</p> <p>Minimum Heights High ceiling is not required for this space</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users TBD</p> <p>Security Lockable</p> <p>Numbers Not Occupied</p>
ARCHITECTURAL	<p>Floor Exposed Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling None</p> <p>Doors Single Metal Door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space.</p> <p>Plumbing No</p> <p>Electrical Additional wall outlets as required to charge stored timing equipment.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics TBD</p> <p>Special Systems Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p>
EQUIPMENT	<p>Fixed</p> <p>Movable</p>
SPECIAL COMMENTS	-

AREA Natatorium Spectator Seating Spaces

ROOM Permanent Spectator Seating

FUNCTIONAL DESCRIPTION	Built in concrete seating tub for swimming and diving spectators
ADJACENCY	Natatorium Share Multi-Purpose Room, Open Area for Spectator Seating
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 2,325 square feet</p> <p>Minimum Dimensions Seating rows: 26” depth and 16” high between rows. Seats to be 18” wide.</p> <p>Minimum Heights High ceiling preferred, minimum 10’-0”</p>
OCCUPANCY	<p>Access Open Access</p> <p>Users Spectators for swimming and diving competitions</p> <p>Security None</p> <p>Numbers Approximately 550-600 seats for people during large swimming diving competitions. Count to include handicap accessible seating (locations TBD)</p>
ARCHITECTURAL	<p>Floor Exposed Sealed Concrete or High impact rubber sheet flooring</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Exposed acoustic metal deck.</p> <p>Doors None</p> <p>Windows None</p>
SYSTEMS	<p>HVAC Separate mechanical heating/cooling. Same conditioned space as pool deck</p> <p>Plumbing No</p> <p>Electrical Wall outlets around floor perimeter.</p> <p>Lighting High bay or similar high efficiency fluorescent or LED fixtures.</p> <p>Audio / Visual Distributed sound by section (Diving, Middle, Spectators). Sound fed from stations in Life-guard Staff room and Meeting Management room.</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Glass guardrails Individual molded bleachers seats (18” wide)</p> <p>Movable - -</p>
SPECIAL COMMENTS	<i>Glass railing at bleacher edge looking out onto pool surface.</i>

SPACE DIAGRAM



BUILT EXAMPLE University of Iowa (RDG Planning & Design)

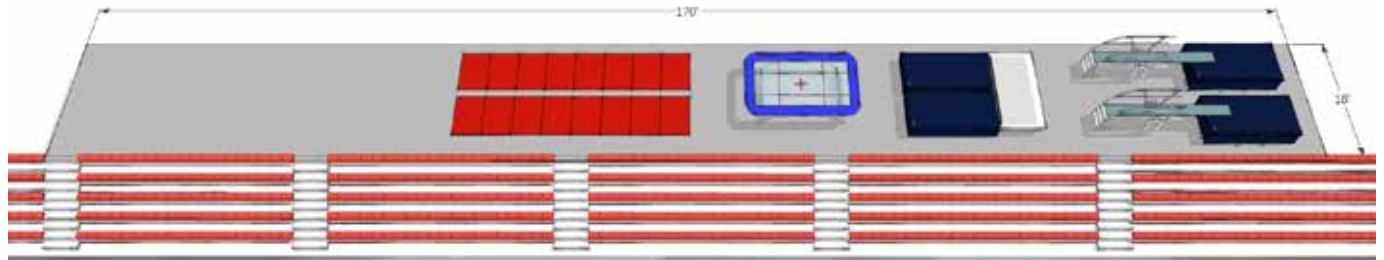


AREA Natatorium Spectator Seating Spaces

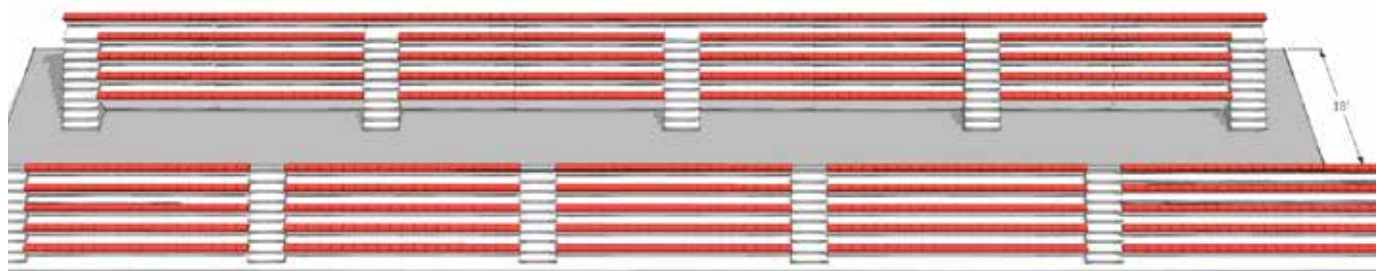
ROOM Natatorium Flex Space

FUNCTIONAL DESCRIPTION	Open flexible space to accommodate portable retractable bleacher systems, circulation for spectators, and various exercise activities for recreation
ADJACENCY	Natatorium Share Multi-Purpose Room, Permanent Spectator Seating, and Dryland Training Storage Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 3,085 square feet</p> <p>Minimum Dimensions varies but near 20'-0" x 160'-0"</p> <p>Minimum Heights 20'-0" minimum. To accommodate head clearance for spectators on bleacher units and dryland training equipment</p>
OCCUPANCY	<p>Access Multiple Access Points TBD</p> <p>Users Lockable</p> <p>Security TBD</p> <p>Numbers Approximately 400 to 500 bleacher seats during large swimming diving competitions</p>
ARCHITECTURAL	<p>Floor Exposed Sealed Concrete or High impact rubber sheet flooring</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Exposed acoustic metal deck.</p> <p>Doors Aluminum and glass double doors in storefront system to facilitate equipment access</p> <p>Windows Yes. Maximize views to rest or facility and exterior</p>
SYSTEMS	<p>HVAC Separate mechanical heating/cooling. Same conditioned space as pool deck</p> <p>Plumbing Drinking fountain with bottle filling station. (Hydration Station). Location TBD</p> <p>Electrical Wall outlets as required at equipment locations and around perimeter.</p> <p>Lighting High bay or similar high efficiency fluorescent or LED fixtures.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Overhead pulleys and spotting rigs to service Dryland Training</p> <p>Movable Portable Retractable Bleachers Dryland Training Equipment</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM

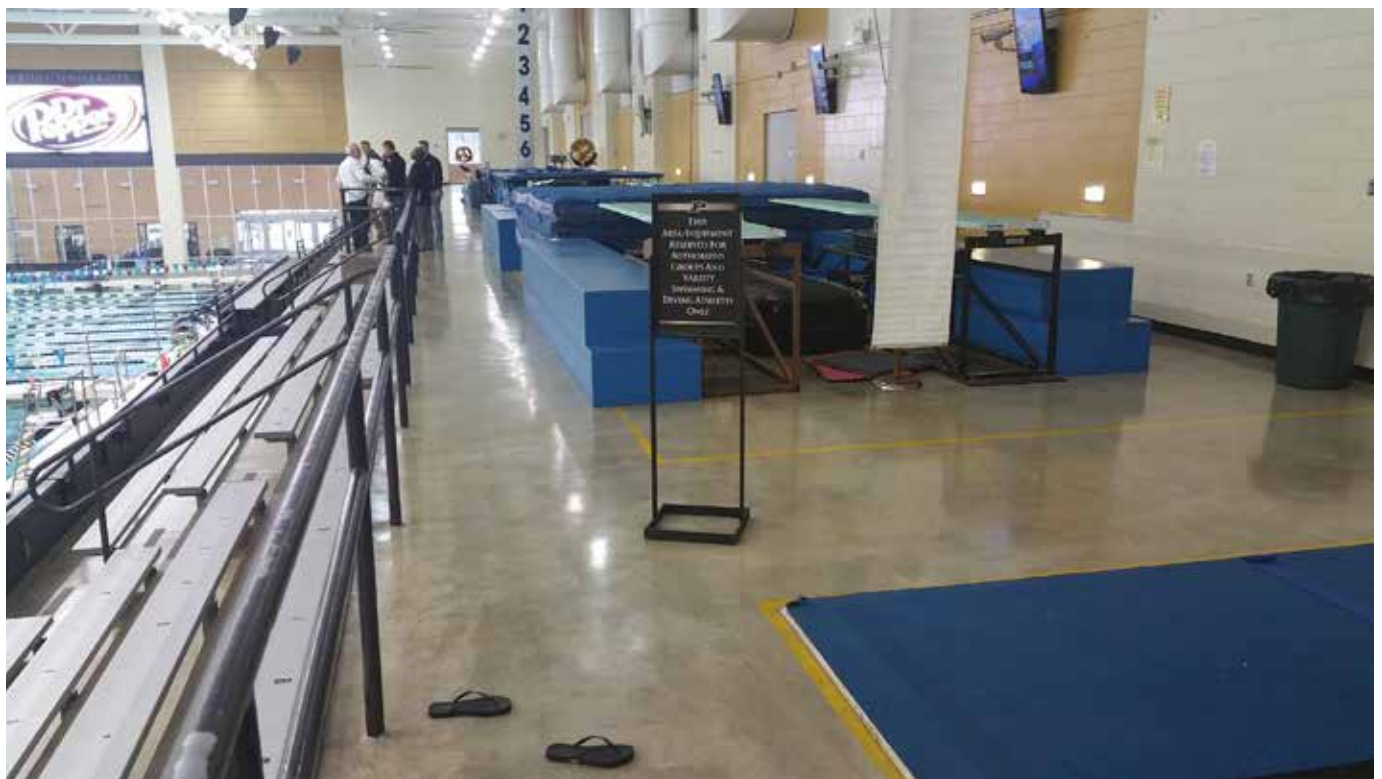


Open Area with Dryland Training Setup



Open Area with Portable Retractable Bleachers

BUILT EXAMPLE *Purdue University (unknown)*

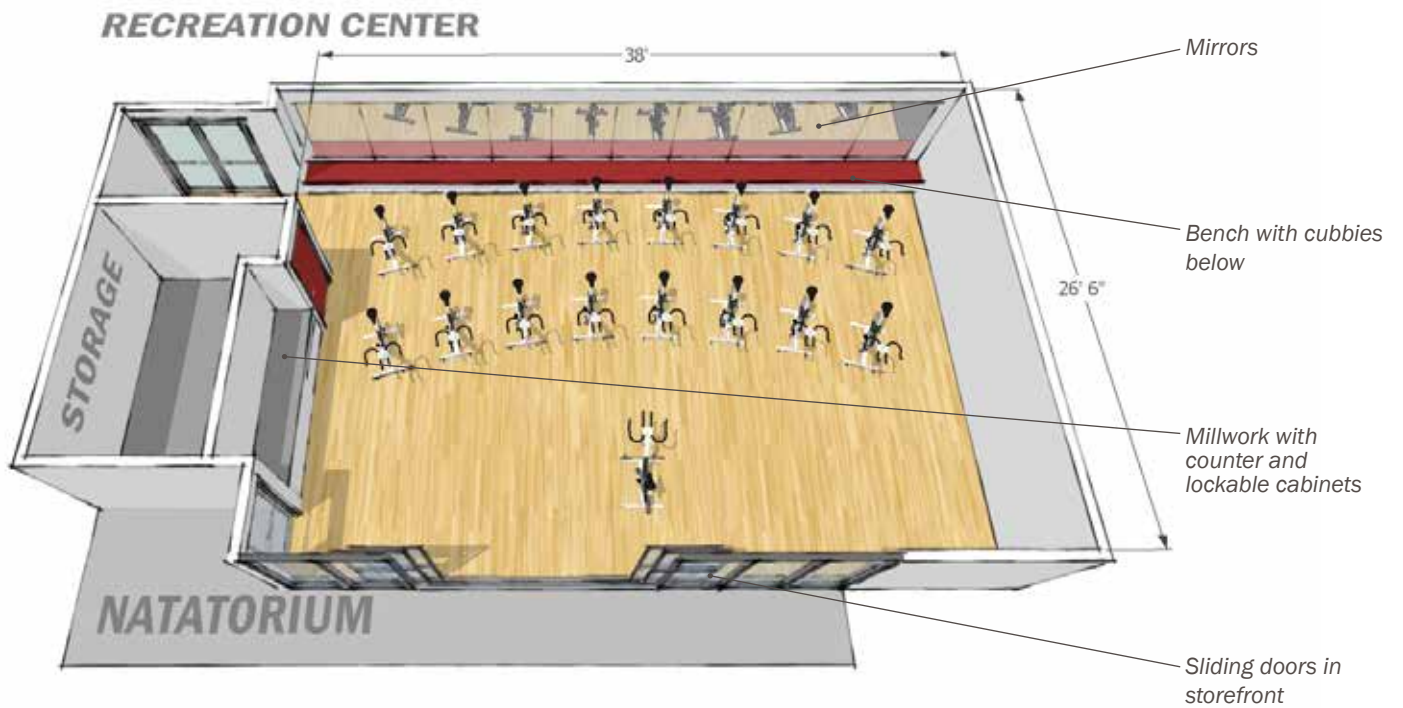


AREA Natatorium Spectator Seating Spaces

ROOM Natatorium Shared Multi-Purpose Room

FUNCTIONAL DESCRIPTION	Multi-Purpose Room shared by Intercollegiate Athletics and Recreation that can be utilized for group fitness activities, hospitality events, and meetings.
ADJACENCY	Room connected to Natatorium's Open Area for Spectator Seating and Recreation's Open Fitness Area. Room connected to 125 sqft Storage Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 1,000 SF</p> <p>Minimum Dimensions 32'-0" x 32'-0" to 23'-0" x 43'-6"</p> <p>Minimum Heights High ceiling preferred, minimum 10'-0"</p>
OCCUPANCY	<p>Access Access from Open Area for Spectator Seating and Recreation's Open Fitness Area</p> <p>Users Shared by Intercollegiate Athletics and Recreation</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 20 with Instructor</p>
ARCHITECTURAL	<p>Floor Hardwood Athletic Flooring or High Impact Rubber Sheet Flooring (10mm)</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments. Interior storefront for visual access to Natatorium space</p> <p>Ceiling Acoustical ceiling or panel "clouds".</p> <p>Doors Aluminum and glass double doors in storefront system</p> <p>Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC On own system separate mechanical heating/cooling from Natatorium with thermostat and VAV box for space. Ceiling Fans</p> <p>Plumbing Work Sink</p> <p>Electrical Convenience wall outlets as required around floor perimeter</p> <p>Lighting Fluorescent or LED Fixtures, multi-level or dimmable</p> <p>Audio / Visual Yes. Satellite and/or cable access required. Video flat screen panels; sound system. Connected to Natatorium Announcements</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork cubbies Mirrors (Full Height)</p> <p>Movable (20) Spinning Bikes + 1 Instructor Spinning Bike</p>
SPECIAL COMMENTS	Open storage cubbies, centrally located. Provide flush transition between wood flooring and adjacent flooring surface. Mirrors at Instructor's wall. Provide direct access to adjacent Open Area for Spectator Seating.

SPACE DIAGRAM



BUILT EXAMPLE Auburn University at Montgomery (HOK)

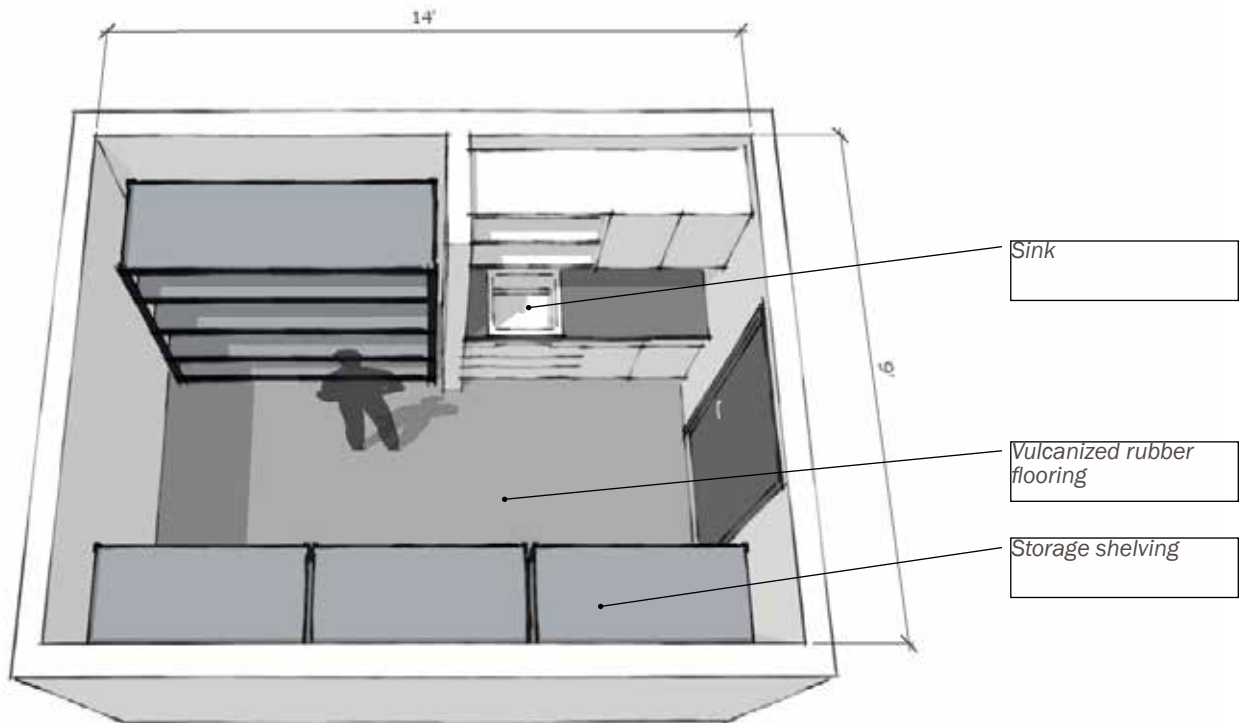


AREA Natatorium Spectator Seating Spaces

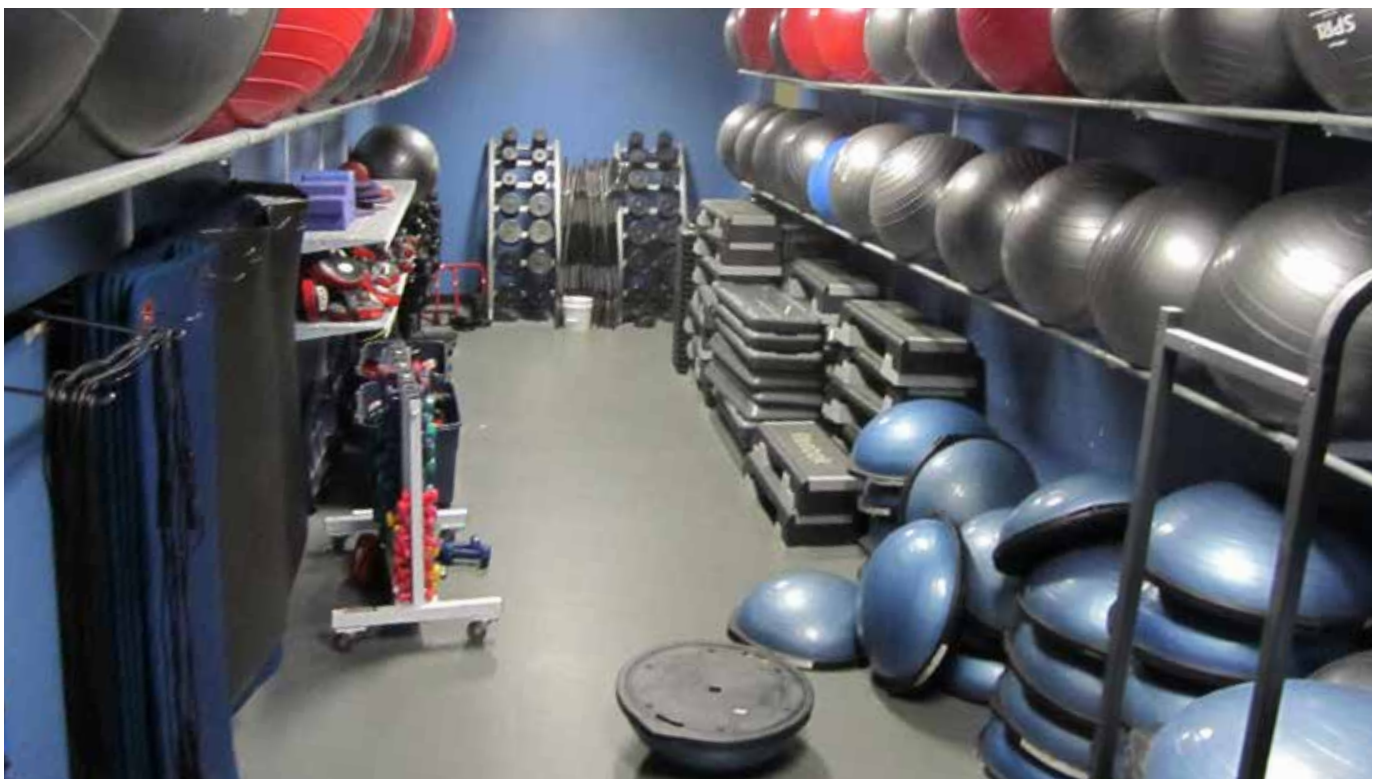
ROOM Natatorium Multi-Purpose Room Storage

FUNCTIONAL DESCRIPTION	Dedicated storage space for various equipment and to aid in hospitality functions during swimming competitions
ADJACENCY	Natatorium Shared Multi-Purpose Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 125 square feet</p> <p>Minimum Dimensions 9'-0" x 14'-0"</p> <p>Minimum Heights High ceiling is not required for this space</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users Shared by Intercollegiate Athletics and Recreation</p> <p>Security Lockable</p> <p>Numbers Approximately 1-2 people</p>
ARCHITECTURAL	<p>Floor Rubber Flooring</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing Connection for a standard single compartment sink.</p> <p>Electrical Wall outlets as required at equipment locations and around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with sink and lockable wall + base storage cabinets Built in storage shelving</p> <p>Movable</p>
SPECIAL COMMENTS	

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

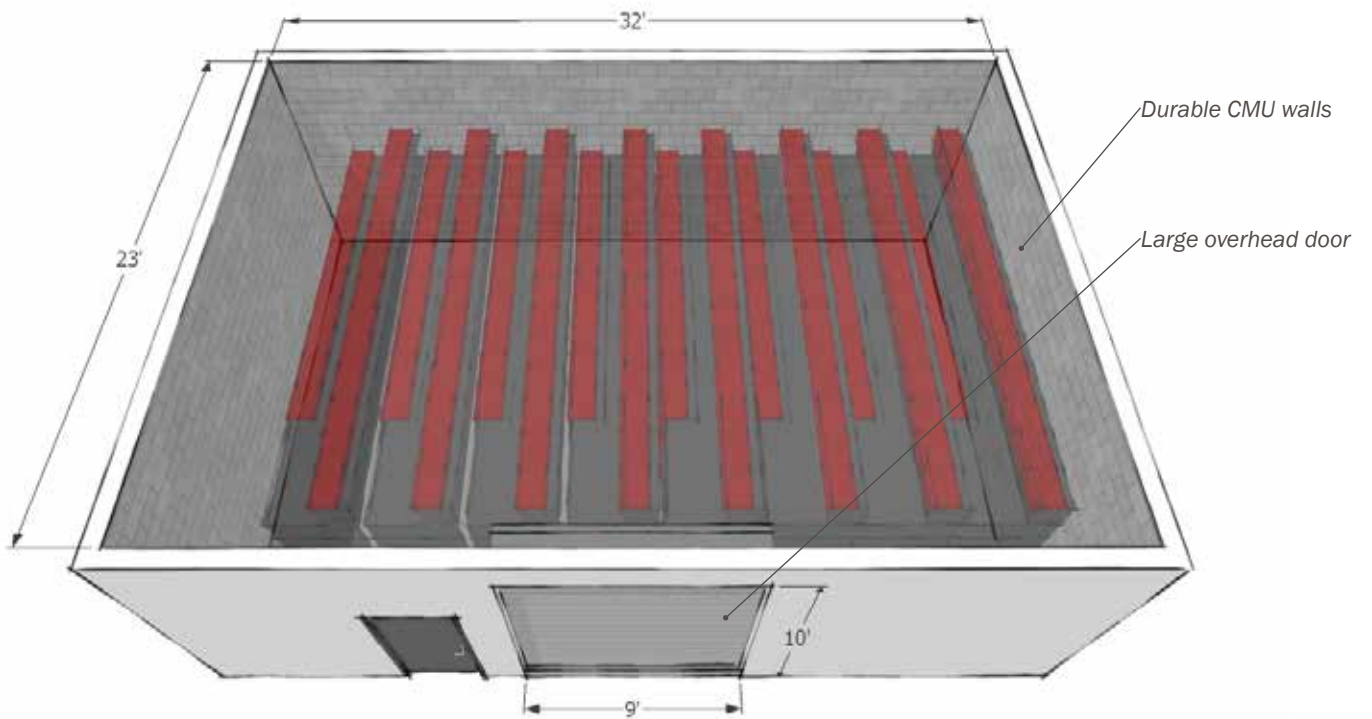


AREA Natatorium Spectator Seating Spaces

ROOM Dryland Training & Bleacher Storage

FUNCTIONAL DESCRIPTION	Large storage room to hold portable bleacher systems and dryland training equipment (padded mats, dry diving boards, and stretching mats)
ADJACENCY	Directly connected Open Area for Spectator Seating
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 750 square feet</p> <p>Minimum Dimensions 23'-0" x 32'-0"</p> <p>Minimum Heights Maximize ceiling height in space. Bleacher height at 8'-2"</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users Lockable</p> <p>Security TBD</p> <p>Numbers Not Occupied</p>
ARCHITECTURAL	<p>Floor Exposed Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling None</p> <p>Doors 9' x 10' overhead door to accomodate large bleachers and dryland training equipment Additional single metal door into space</p>
SYSTEMS	<p>HVAC On own system seperate mechanical heating/cooling from Natatorium</p> <p>Plumbing No</p> <p>Electrical Minimal wall outlets as required at equipment locations and around perime-</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed 9'-0" wide overhead coiling door into space. At least 10'-0" high</p> <p>Movable Approximately (8) Portable retractable bleachers</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE *Unknown*



AREA Natatorium Spectator Seating Spaces
ROOM Concessions Room

FUNCTIONAL DESCRIPTION

ADJACENCY Directly on circulation path as spectators enter Natatorium Entrance and circulate up to Elevated Seating Area

DIMENSIONAL REQUIREMENTS
Net Program Area 150 square feet
Minimum Dimensions 12'-0" x 15'-0"
Minimum Heights High ceiling not required for this space.

OCCUPANCY
Access Single Control Entry Point
Users Lockable after hours
Security TBD
Numbers TBD

ARCHITECTURAL

Floor Tile
Walls Masonry or suitable durable material with ceramic tile & paint finish
Ceiling Acoustical wet location suspended ceiling and gypsum
Doors Metal Doors
Windows Operable pass-through window

SYSTEMS

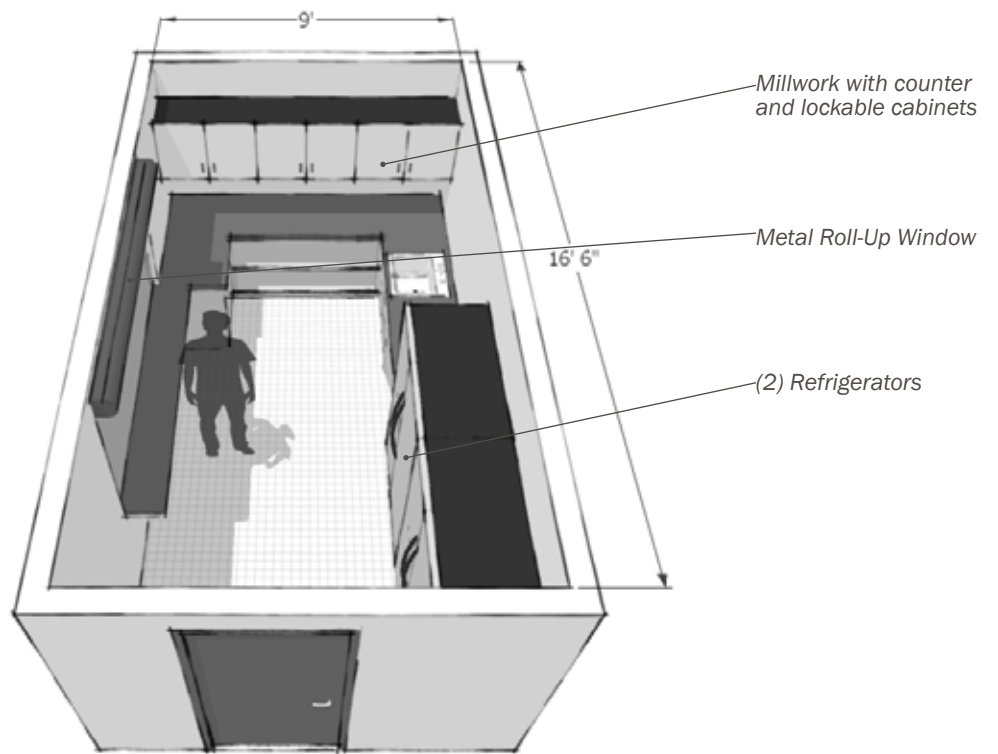
HVAC Standard mechanical heating/cooling. Provide additional hood to exhaust air. Maintain negative airflow pressurization relative to adjacent areas.
Plumbing Dishwasher connections, refrigerator water connections, standard 2 compartment sink.
Electrical Wall outlets on perimeter and floor. Integrate power into table
Lighting Recessed Fluorescent.
Audio / Visual No
Computer No
Telephone No
Access Control No
Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption
Special Systems

EQUIPMENT

Fixed Millwork counter with sink and lockable wall + base storage cabinets
Movable Refrigerator, Microwave, Coffee Maker

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE *Utah State University (HOK)*

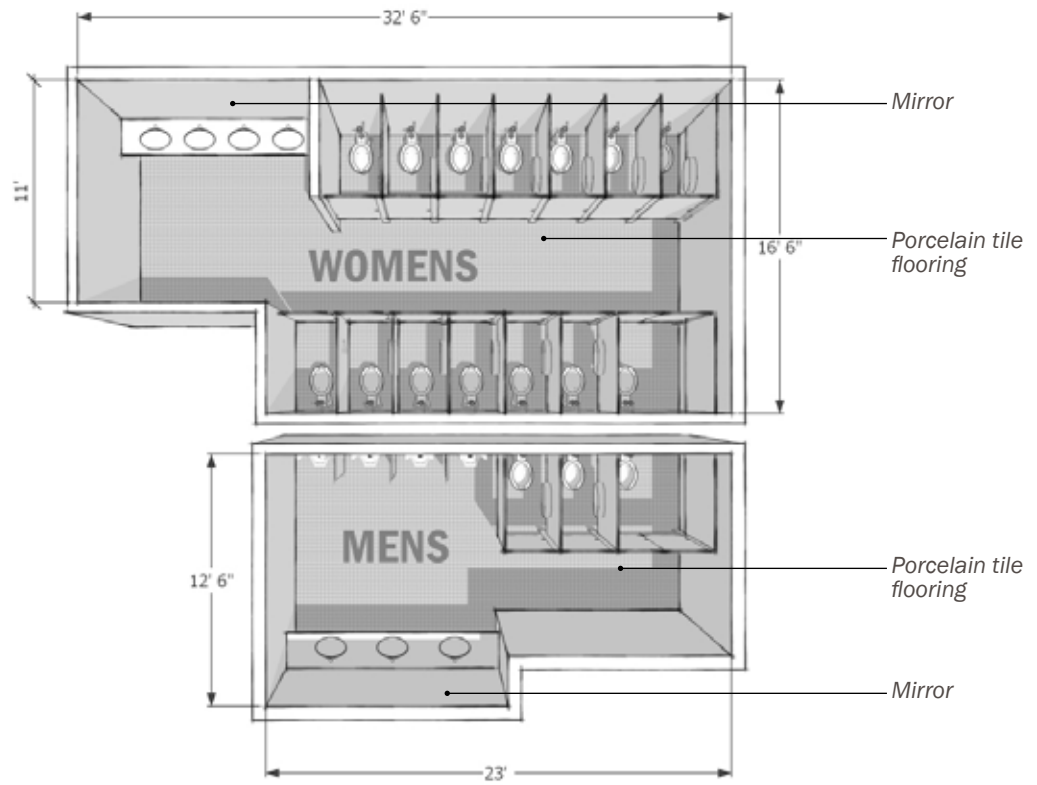


AREA Natatorium Spectator Seating Spaces
ROOM Spectator Restrooms

FUNCTIONAL DESCRIPTION	Toilets and restrooms to serve spectators for Natatorium events
ADJACENCY	Directly on circulation path as spectators enter Natatorium Entrance and circulate up to Elevated Seating Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 700 square feet. (Approximately 275 sqft for Mens and 425 sqft for Womens)</p> <p>Minimum Dimensions -</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users TBD</p> <p>Security No</p> <p>Numbers 1</p>
ARCHITECTURAL	<p>Floor Tile</p> <p>Walls Masonry with ceramic tile at wet walls</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal Door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Exhaust.</p> <p>Plumbing Standard plumbing (water closet, lavatory, floor drain).</p> <p>Electrical Convenience wall outlets as required around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Accessible at all hours</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Fixture count based on 1,050 spectators. 525 men and 525 women</p> <p>Mens: (7) Water Closets: (3) Lavatories;</p> <p>Womens: (14) Water Closets: (4) Lavatories;</p> <p>Baby Changing Stations in Each</p>

SPECIAL COMMENTS

SPACE DIAGRAM



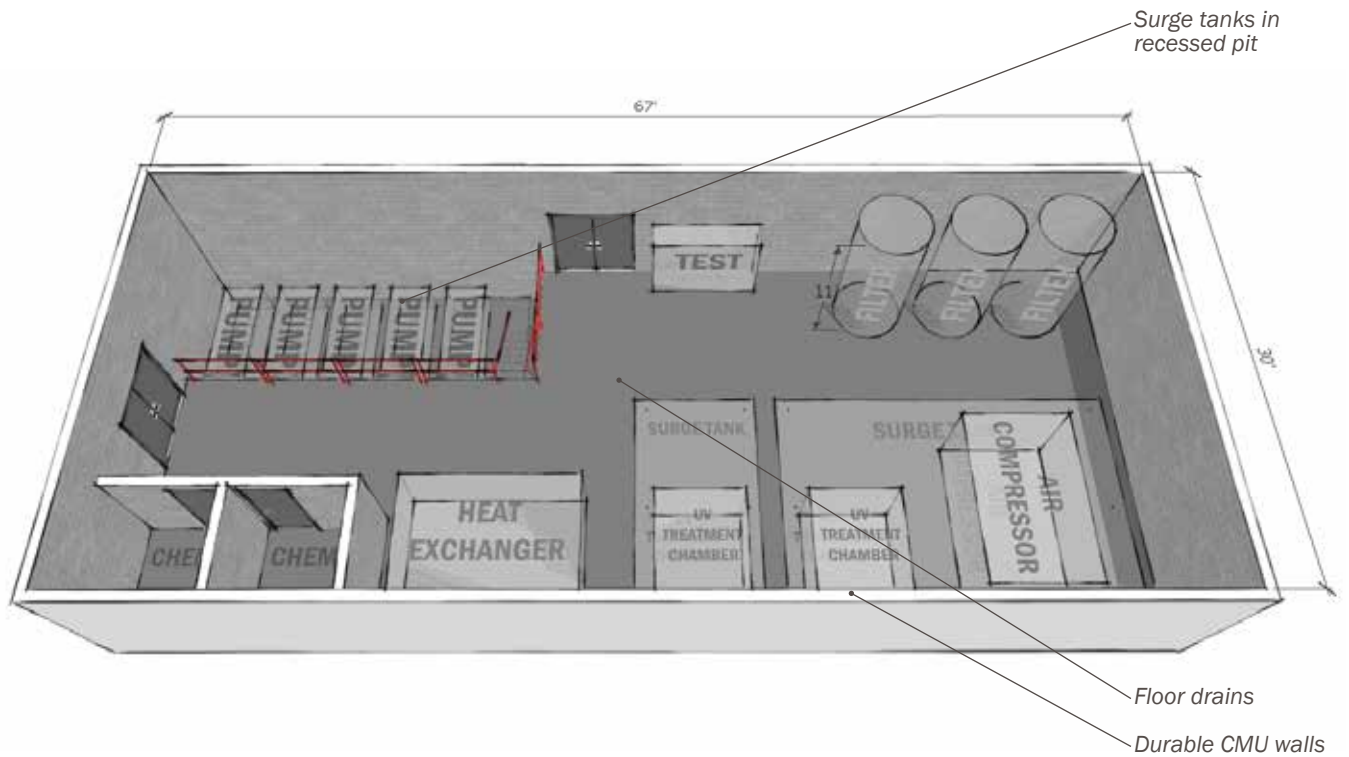
BUILT EXAMPLE Auburn University Arena (HOK)



AREA Non Assignable Program Space
ROOM Pool Mechanical

FUNCTIONAL DESCRIPTION	Space for 50-meter pool and diving well pump and filtration equipment
ADJACENCY	Located on exterior wall and adjacent to Natatorium. Linked to Pool Chemical Storage Rooms
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 2,000 square feet</p> <p>Minimum Dimensions 40'-0" x 50'-0" to 25'-0" x 80'-0"</p> <p>Minimum Heights Minimum 12'-0" to clear pool filters</p>
OCCUPANCY	<p>Access Multiple controlled access points. Access from deck and from exterior</p> <p>Users Lockable after open hours</p> <p>Security TBD</p> <p>Numbers Not occupied</p>
ARCHITECTURAL	<p>Floor Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Exposed metal deck</p> <p>Doors Pair of corrosion resistant metal doors to allow large equipment in and out of space.</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling</p> <p>Plumbing To be confirmed</p> <p>Electrical Wall outlets as required at equipment locations and around floor perimeter.</p> <p>Lighting High efficiency fluorescent fixtures.</p> <p>Audio / Visual No</p> <p>Computer Yes. Pool chemical controls</p> <p>Telephone Yes</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed (2) Surge Tanks (426 sqft and 143 sqft) in recessed pit with concrete lid (3) Filters (2 for 50-meter pool and 1 for diving well). 62" diameter and 11'-0" tall Air Compressor and tank for filters & Sparger system Heat Exchangers (2) UV Treatment Chambers (5) pumps in recessed pit</p>
SPECIAL COMMENTS	<i>Station for water testing and chemical controllers.</i>

SPACE DIAGRAM



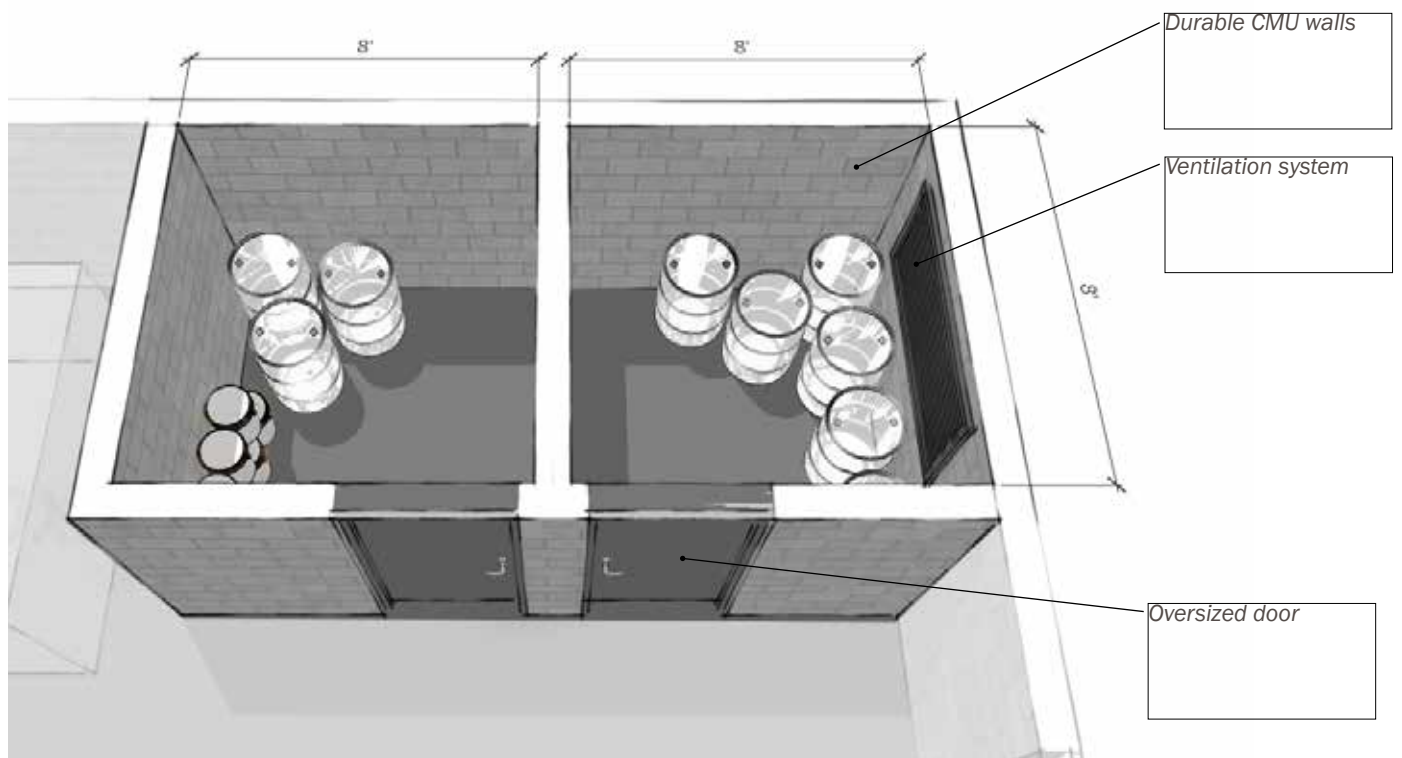
BUILT EXAMPLE University of Iowa (RDG Planning & Design)



AREA Non Assignable Program Space
ROOM Pool Chemical Storage

FUNCTIONAL DESCRIPTION	Two rooms for storing various pool chemicals.
ADJACENCY	Located near exterior with access from Loading Dock or exterior for chemical deliveries. Within Pool Mech Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area (2) at 80 square feet each</p> <p>Minimum Dimensions 6'-0" x 13'-4" to 9'-0" x 9'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Multiple controlled access points. Access from deck and from exterior</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers Not occupied</p>
ARCHITECTURAL	<p>Floor Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Exposed metal deck</p> <p>Doors Single 42" corrosion resistant metal door for chemical deliveries</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Aggressive ventilation system for exhaust. Ideally adjacent to exterior wall</p> <p>Plumbing No</p> <p>Electrical No</p> <p>Lighting High efficiency fluorescent fixtures.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space</p> <p>Acoustics None</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed -</p> <p>Movable -</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*



**14L2T Southeast Recreation Facility Replacement
Program Statement**

AREA Non Assignable Program Space
ROOM Natatorium Mechanical Room (HVAC)

FUNCTIONAL DESCRIPTION	Building Mechanical and Chiller Rooms for heating, ventilation, air conditioning for the Natatorium	
ADJACENCY	Near Natatorium space	
DIMENSIONAL REQUIREMENTS	Net Program Area	Approximately 3,300 square feet. To be verified by mechanical engineers
	Minimum Dimensions	TBD
	Minimum Heights	High ceiling is not required for this space
OCCUPANCY	Access	Single access point
	Users	Recreation and campus maintenance staff
	Security	Lockable
	Numbers	Not Occupied
ARCHITECTURAL	Floor	Exposed Sealed Concrete
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments
	Ceiling	None
	Doors	Metal double doors
	Windows	No
SYSTEMS	HVAC	Standard mechanical heating/cooling
	Plumbing	TBD
	Electrical	Floor and wall outlets where required for HVAC equipment
	Lighting	Recessed Fluorescent.
	Audio / Visual	No
	Computer	No
	Telephone	Yes
	Access Control	Possible to have key card access capabilities to access this space
	Acoustics	TBD
	Special Systems	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
EQUIPMENT	Fixed	TBD
	Movable	None
SPECIAL COMMENTS		

**14L2T Southeast Recreation Facility Replacement
Program Statement**

AREA Public Spaces
ROOM Entry Vestibule

FUNCTIONAL DESCRIPTION	A connection room linking the exterior to the main lobby and aid in the reduction of heat loss.	
ADJACENCY	Exterior and Entry Lobby	
DIMENSIONAL REQUIREMENTS	Net Program Area	250 square feet
	Minimum Dimensions	20'-0" x 12'-6"
	Minimum Heights	High ceilings not required for this space
OCCUPANCY	Access	Dual access points
	Users	Lockable
	Security	TBD
	Numbers	Not Occupied
ARCHITECTURAL	Floor	TBD
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments
	Ceiling	None
	Doors	Aluminum and glass double doors in storefront system. Width TBD
	Windows	None
SYSTEMS	HVAC	Standard Natatorium mechanical heating/cooling.
	Plumbing	No
	Electrical	Wall Outlets as required around perimeter
	Lighting	Recessed Fluorescent.
	Audio / Visual	No
	Computer	No
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
	Special Systems	
EQUIPMENT	Fixed	None
	Movable	None
SPECIAL COMMENTS	-	

AREA Public Spaces

ROOM Entry Lobby

FUNCTIONAL DESCRIPTION Primary entry and lobby space for staff and student visitors to recreation facility

ADJACENCY Near Welcome Desk, Entry Lounge, Member Services, and Administrative Suite

DIMENSIONAL REQUIREMENTS

- Net Program Area** 1,000
- Minimum Dimensions** 25'-0" x 40'-0"
- Minimum Heights** High ceilings preferred for this space

OCCUPANCY

- Access** Dual access space to circulate through
- Users** All
- Security** Lockable after open hours
- Numbers** TBD

ARCHITECTURAL

- Floor** TBD. Rigid walkoff grate at entry doors
- Walls** Combination of Gypsum, Masonry, and Glass Storefront Walls with applied or integrated acoustic treatments
- Ceiling** Acoustical suspended ceiling or gypsum
- Doors** Aluminum and glass double doors in storefront system to facilitate equipment access
- Windows** Yes. Maximize views and natural daylight.

SYSTEMS

- HVAC** Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space

Plumbing No

Electrical Convenience wall outlets around perimeter.

Lighting TBD

Audio / Visual Yes. Television on closed network for marketing and program display

Computer No

Telephone No

Access Control Possible to have key card access or card verification capabilities to access this space

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption

Special Systems

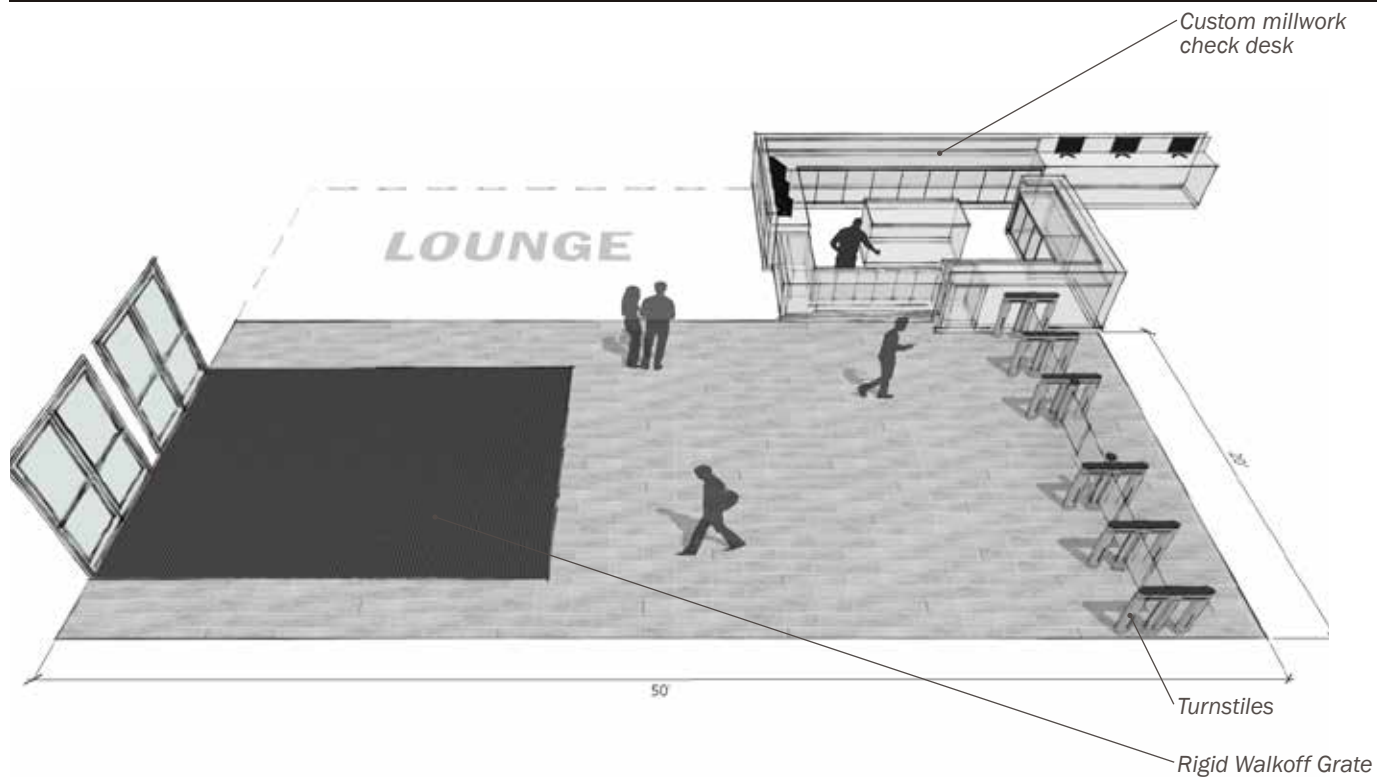
EQUIPMENT

- Fixed** (4-5) Turnstyles

Movable -

SPECIAL COMMENTS Provide as many windows as possible on exterior walls and rest of recreation facility Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE *University of Portland (HOK)*



AREA Public Spaces

ROOM Entry Lounge

FUNCTIONAL DESCRIPTION Primary entry and lobby space for staff and student visitors to recreation facility

ADJACENCY Near Welcome Desk, Member Services, and Administrative Suite

DIMENSIONAL REQUIREMENTS

- Net Program Area** 650 square feet
- Minimum Dimensions** 25'-0" x 40'-0"
- Minimum Heights** High ceilings preferred for this space

OCCUPANCY

- Access** Open
- Users** All
- Security** None
- Numbers** Approximately 8-12 people

ARCHITECTURAL

- Floor** Tile or Carpet
- Walls** Partially open space. Needed walls to be gypsum, masonry, or glass curtain wall
- Ceiling** Acoustical suspended ceiling or gypsum

- Doors** None
- Windows** Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
- HVAC** Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space

SYSTEMS

- Plumbing** Drinking fountain with bottle filling station.
- Electrical** Additional receptacles for personal device charging

- Lighting** TBD
- Audio / Visual** Yes. CCTV
- Computer** No
- Telephone** No
- Access Control** No
- Acoustics** Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption

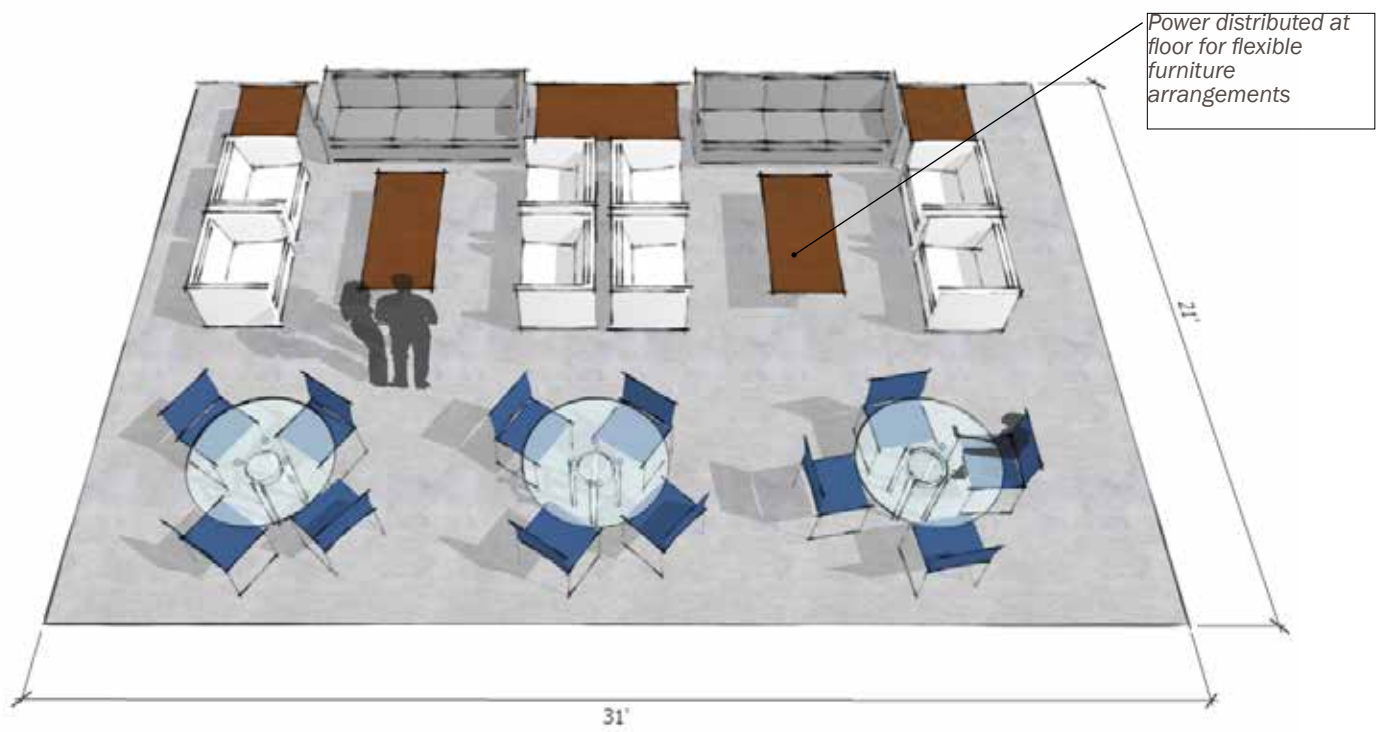
Special Systems

EQUIPMENT

- Fixed** -
- Movable** Comfortable furniture for 8-12 people

SPECIAL COMMENTS Provide as many windows as possible on exterior walls and rest of recreation facility Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE University of Central Arkansas (HOK)



AREA Public Spaces

ROOM Distributed Lounges

FUNCTIONAL DESCRIPTION Primary entry and lobby space for staff and student visitors to recreation facility

ADJACENCY Near Upper Level Locker Rooms and Open Fitness Areas

DIMENSIONAL REQUIREMENTS
Net Program Area 300 square feet
Minimum Dimensions 12'-6" x 24'-0"
Minimum Heights High ceilings preferred for this space

OCCUPANCY
Access Open
Users All
Security None
Numbers Approximately 4-6 people

ARCHITECTURAL
Floor Tile or Carpet
Walls Partially open space. Needed walls to be gypsum, masonry, or glass curtain wall
Ceiling Acoustical suspended ceiling or gypsum

Doors None
Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space

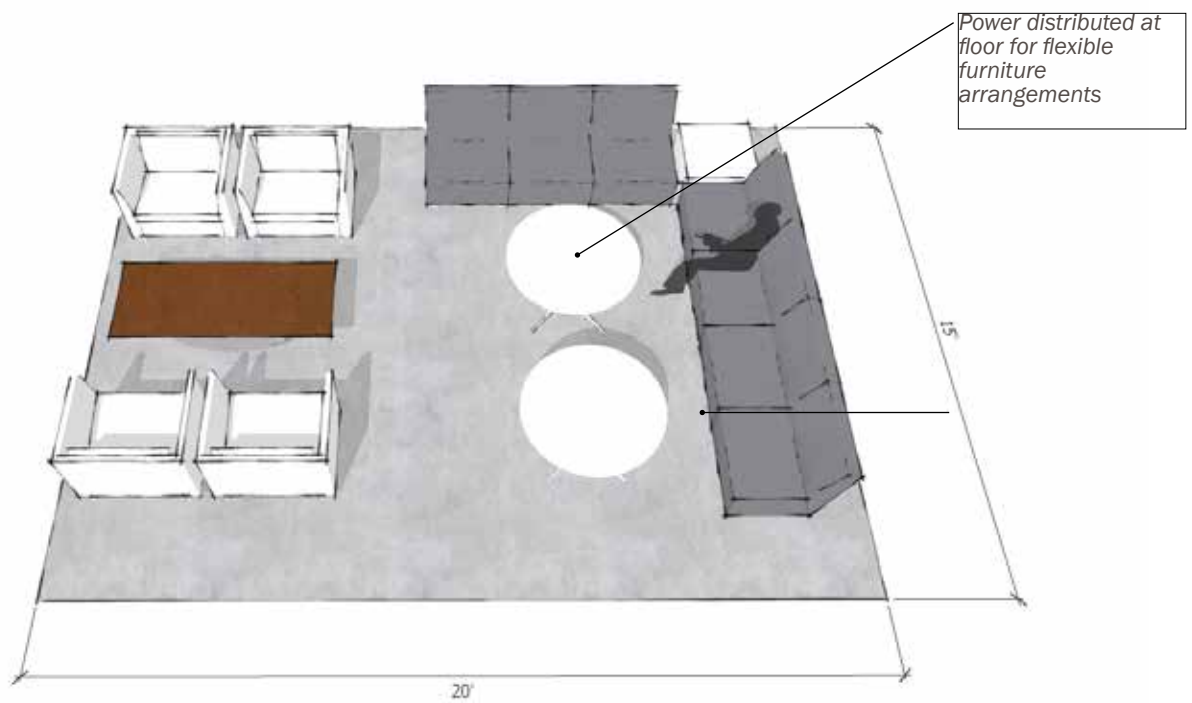
SYSTEMS
Plumbing No
Electrical Additional receptacles for personal device charging

Lighting TBD
Audio / Visual Yes. CCTV
Computer No
Telephone No
Access Control No
Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption
Special Systems

EQUIPMENT
Fixed -
Movable Comfortable furniture for 4-6 people

SPECIAL COMMENTS Provide as many windows as possible on exterior walls and rest of recreation facility Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)

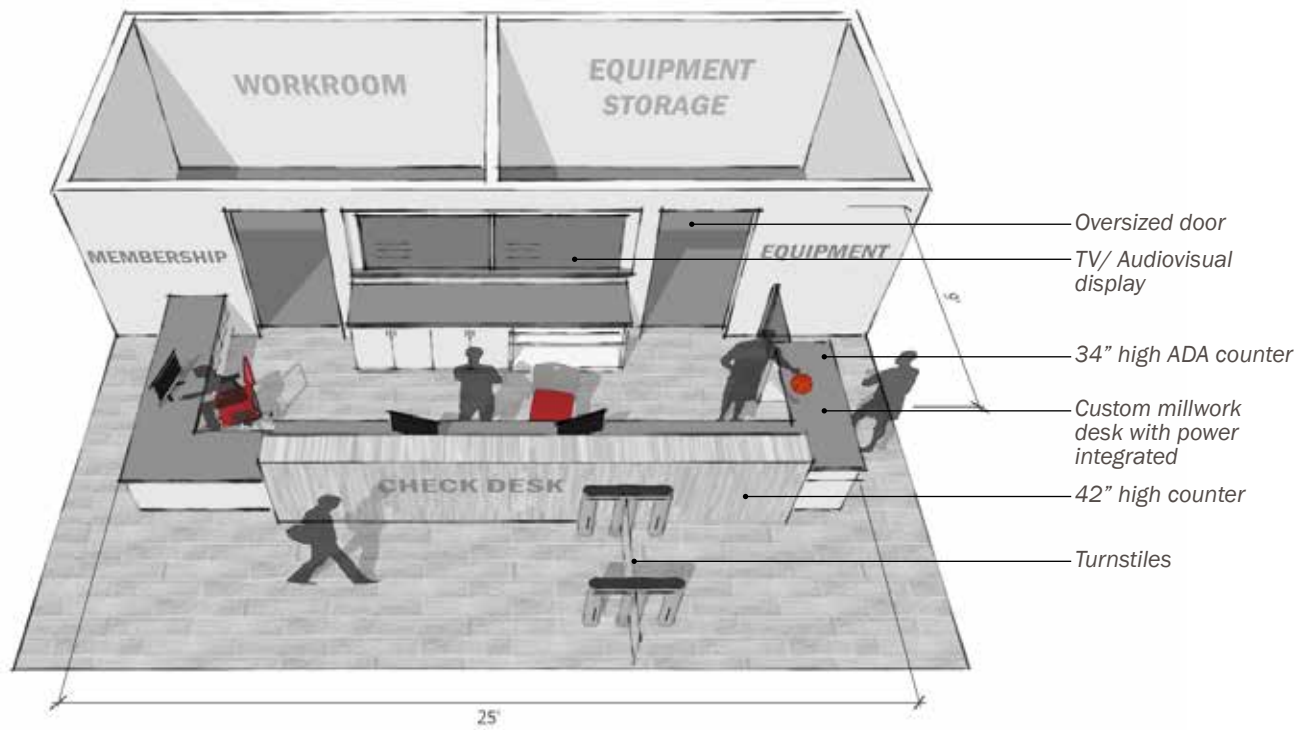


AREA One Stop Shop

ROOM Welcome Desk

FUNCTIONAL DESCRIPTION	Control desk at public entry. Desk to be staffed by student recreation staff in order to observe visitors swiping ID cards, assist with visitor questions, hand out and receive towels, and rent/sell equipment
ADJACENCY	Directly off of Entry Lobby and have easy access to Administrative Suite
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 250 square feet</p> <p>Minimum Dimensions 10'-0" x 25'-0"</p> <p>Minimum Heights High ceilings preferred for this space</p>
OCCUPANCY	<p>Access Single point entry</p> <p>Users Recreation Staff</p> <p>Security Lockable after open hours</p> <p>Numbers Staffed by 2-3 workers</p>
ARCHITECTURAL	<p>Floor Tile or carpet</p> <p>Walls Suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors None</p> <p>Windows None. Open to Lobby</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Convenience wall outlets around perimeter and integrated into reception desk</p> <p>Lighting TBD</p> <p>Audio / Visual Yes. Television on closed network for marketing and program display</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Reception Desk Millwork counter lockable storage cabinets</p> <p>Movable (3) Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls and rest of recreation facility Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE Texas A&M University (MarmonMok)

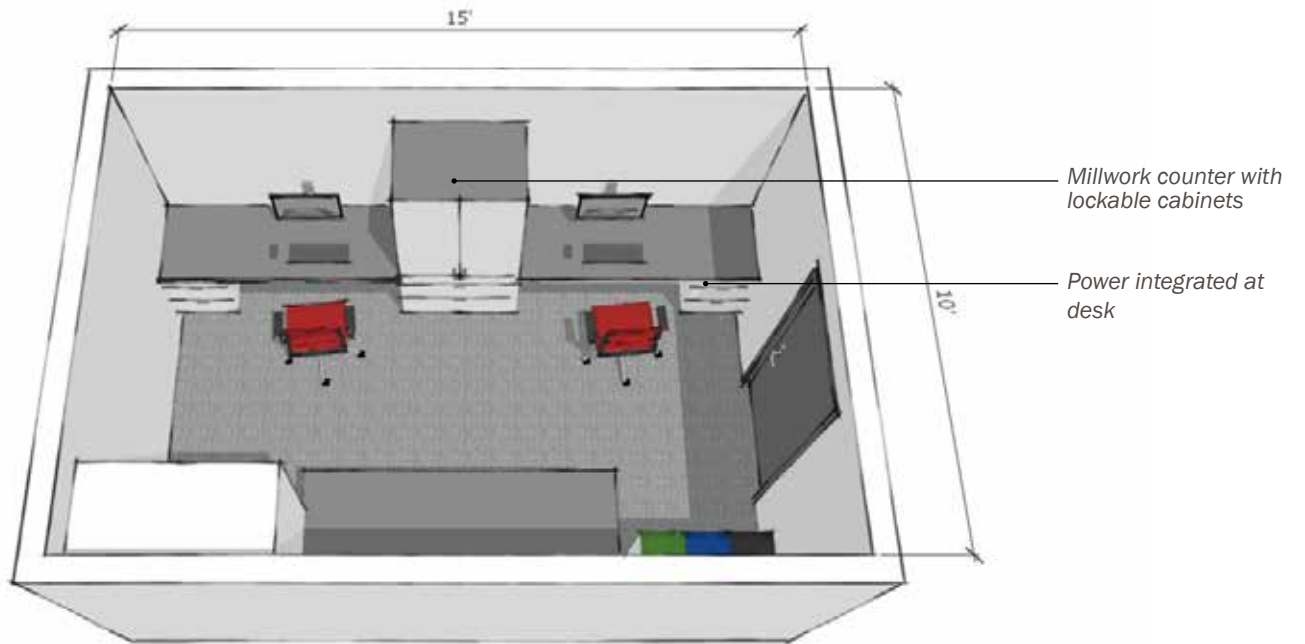


AREA One Stop Shop

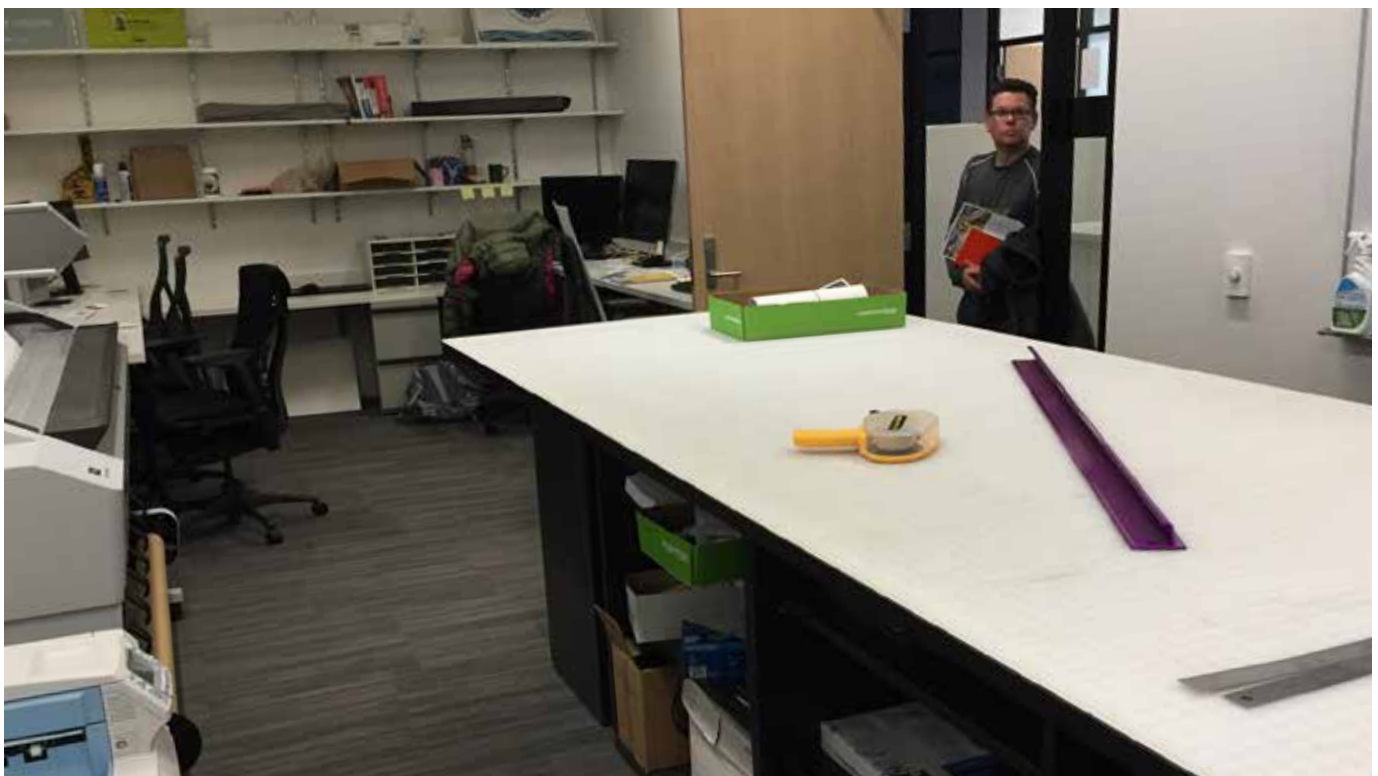
ROOM Welcome Desk Workroom

FUNCTIONAL DESCRIPTION	General workroom associate to Welcome Desk to assist staff in laundry service, selling/renting of equipment and membership questions.
ADJACENCY	Directly connected to Welcome Desk. Near Laundry Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 150 square feet</p> <p>Minimum Dimensions 10'-0" x 15'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Recreation professional staff</p> <p>Security Lockable after open hours</p> <p>Numbers 2-3 people</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal or wood door</p> <p>Windows Yes. Interior aluminum storefront to maximize visibility and connection to admin suite.</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter and floor.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer Yes.</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with lockable wall + base storage cabinets</p> <p>Movable (2) Chairs</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

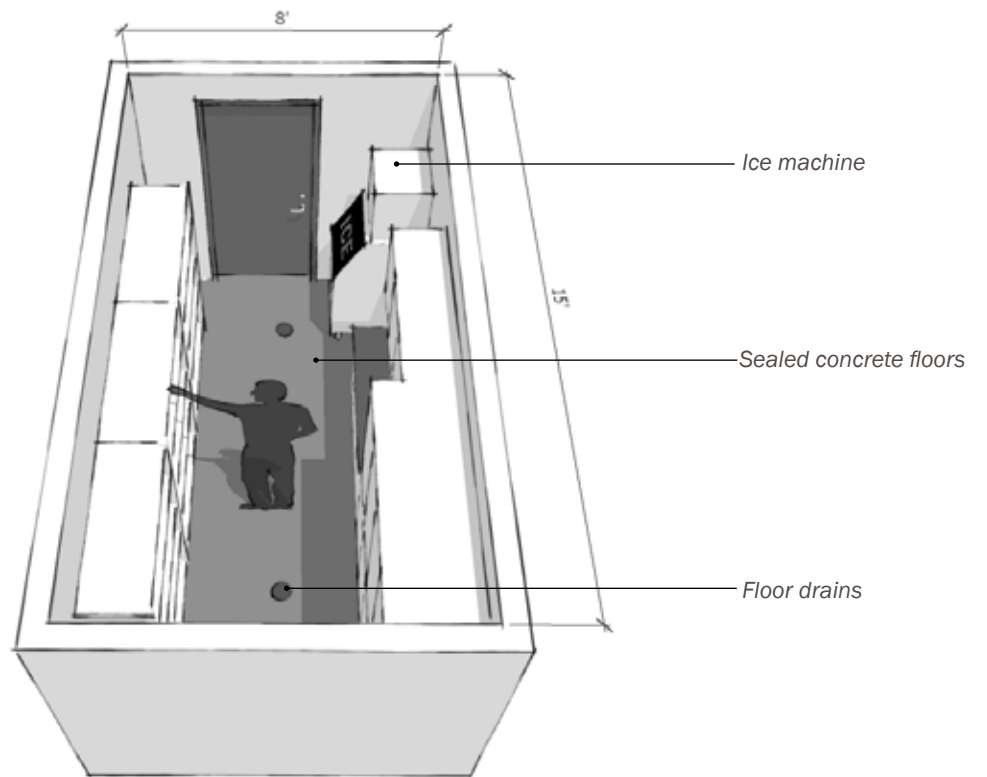


AREA One Stop Shop
ROOM Equipment Storage

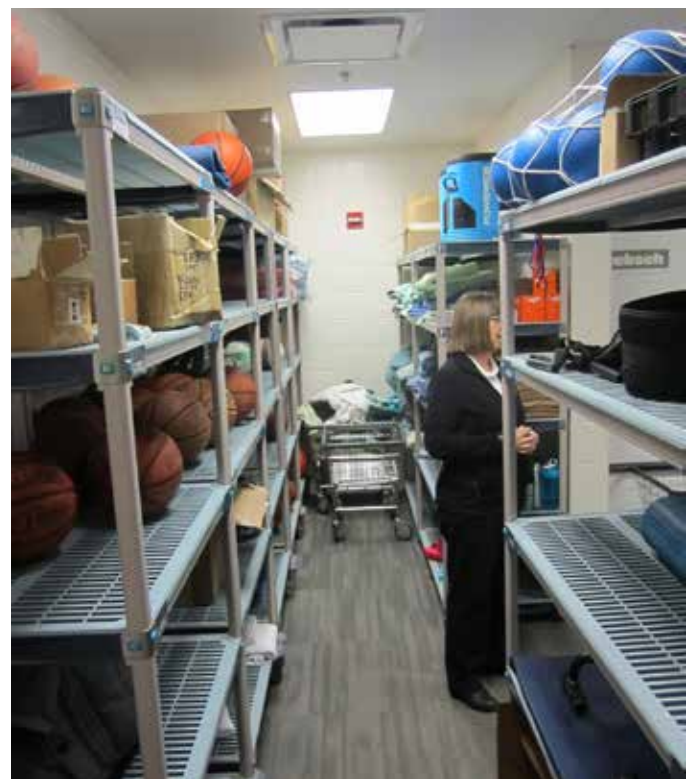
FUNCTIONAL DESCRIPTION	Storage space for gymnasium equipment
ADJACENCY	Directly connected to gymnasiums
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 120 square feet</p> <p>Minimum Dimensions 8'-0" x 12'-0"</p> <p>Minimum Heights High Ceilings not required for this space</p>
OCCUPANCY	<p>Access Single point of entry</p> <p>Users TBD</p> <p>Security Lockable after hours</p> <p>Numbers No Occupied</p>
ARCHITECTURAL	<p>Floor Sealed Concrete or rubber flooring</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors TBD</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing Connection for ice machine. Floor drains</p> <p>Electrical Wall outlets as required at equipment locations and around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space.</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed</p> <p>Movable Ice machine</p>

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

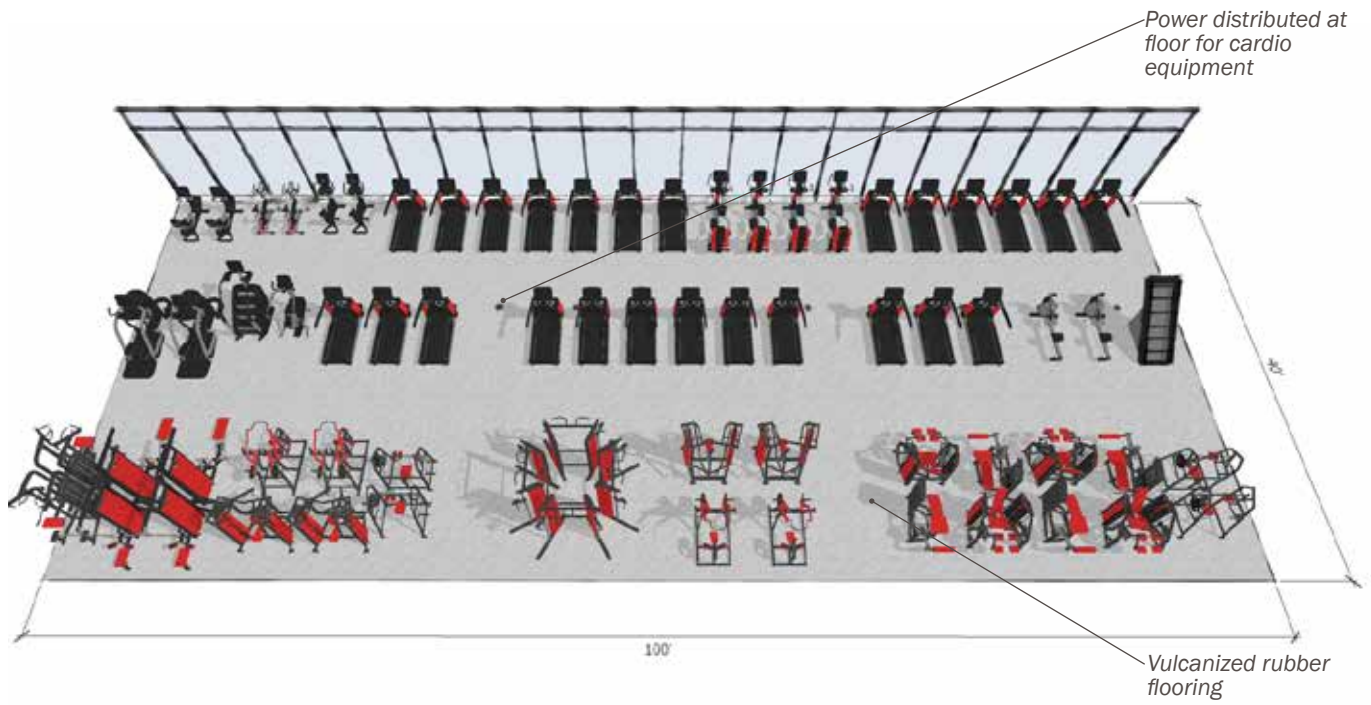


AREA Fitness Area

ROOM Cardio & Selectorizer Equipment

FUNCTIONAL DESCRIPTION	Open fitness area to designated for cardio equipment and selectorizer equipment. Space to be broken up into “neighborhoods” instead of being one large blocked space
ADJACENCY	Primary: Strength and Free Weights, Fitness Studios, Stretching and Functional Training Areas Secondary: Locker Room, Gymnasiums, Front Entry, Equipment Repair
DIMENSIONAL REQUIREMENTS	Net Program Area 21,000 square feet
	Minimum Dimensions Varies. Assignable SF to be divided and dispersed in large areas throughout the facility
	Minimum Heights High ceilings not required but preferred. 10’-0” minimum
OCCUPANCY	Access Open Access
	Users Rec Center Members and Recreation Staff
	Security Area to be monitored by training staff
	Numbers Approximately 400 people in all areas. (50 ASF per person)
ARCHITECTURAL	Floor High impact rubber sheet flooring, 10mm.
	Walls Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling Acoustic metal deck or supplemental acoustic ceiling panels “clouds”.
	Doors None
	Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC Standard mechanical heating/cooling. Ceiling Fans.
	Plumbing Drinking fountain with bottle filling station
	Electrical Floor outlets as required at equipment locations and around floor perimeter.
	Lighting Indirect high efficiency fluorescent or LED fixtures.
	Audio / Visual Yes. Network hard-line connections for all equipment. Satellite and/or cable access required. Video flat screen panels @ multiple locations; “zones” sound/PA
	Computer Wi-Fi Throughout
	Telephone No.
	Access Control No
	Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems
EQUIPMENT	Fixed Millwork for trash and sanitation Mirrors
	Movable Treadmills, Arc Trainers, Ellipticals, Spin Bikes, Rowing Machines, Steppers (Cardio vascular fitness equipment & machines to be confirmed by user w/ layouts & inventory provided by vendor as part of FF&E)
SPECIAL COMMENTS	Large open room. Open storage cubbies, centrally located. Provide flush transition between resilient rubber flooring and adjacent fitness flooring materials.

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)

Utah State University (HOK)

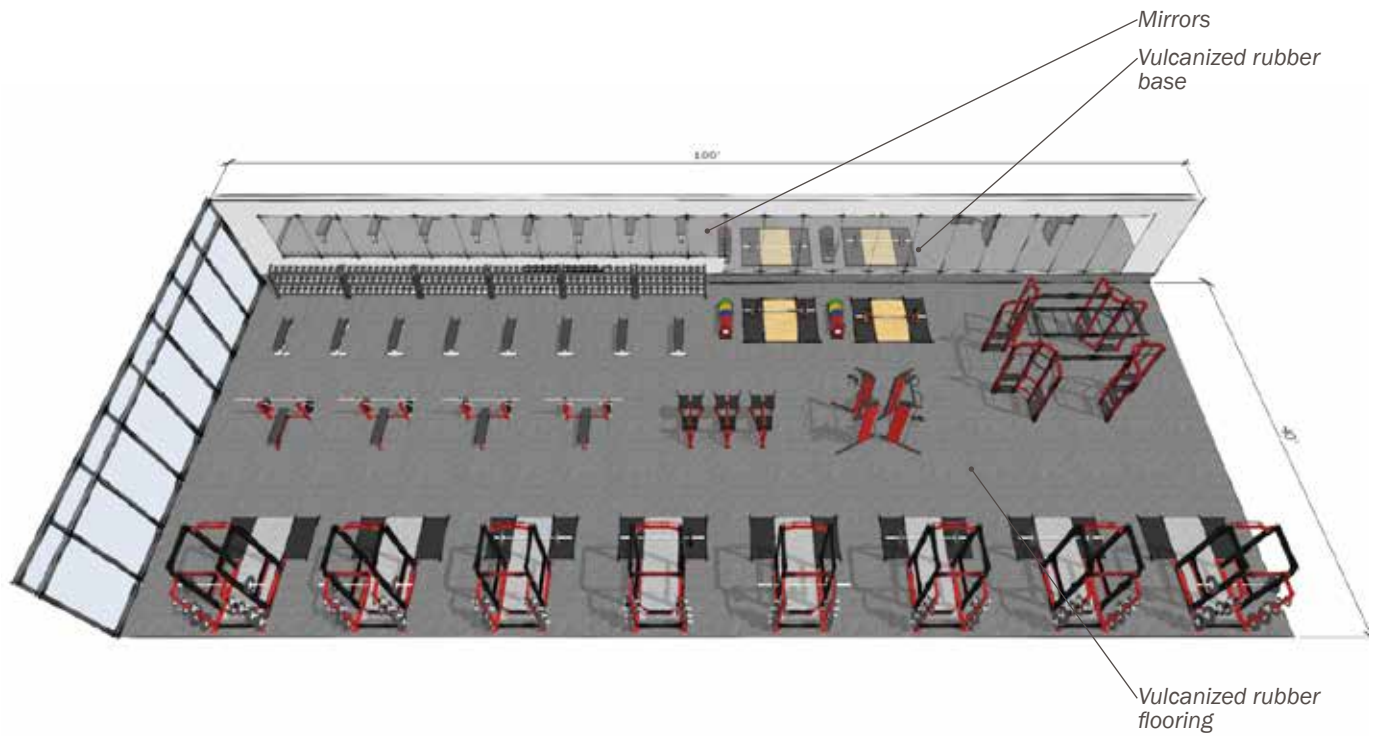


AREA Fitness Area

ROOM Strength & Free Weight Equipment

FUNCTIONAL DESCRIPTION	Open fitness area to designated for free weights and strength equipment. Space to be broken up into “neighborhoods” instead of being one large blocked space
ADJACENCY	Primary: Cardio and Selectorizer Fitness, Fitness Studios, Stretching and Functional Training Areas Secondary: Locker Room, Gymnasiums, Front Entry, Equipment Repair
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 8,200 square feet</p> <p>Minimum Dimensions Varies. Assignable SF to be divided and dispersed in large areas throughout the facility</p> <p>Minimum Heights High ceilings required. 11’-0” minimum</p>
OCCUPANCY	<p>Access Open Access</p> <p>Users Rec Center Members and Recreation Staff</p> <p>Security Area to be monitored by training staff</p> <p>Numbers Approximately 165 people in all areas. (50 ASF per person)</p>
ARCHITECTURAL	<p>Floor High impact rubber sheet flooring, 10mm.</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustic metal deck or supplemental acoustic ceiling panels “clouds”.</p> <p>Doors None</p> <p>Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Ceiling Fans.</p> <p>Plumbing Drinking fountain with bottle filling station.</p> <p>Electrical Floor outlets as required at equipment locations and around floor perimeter.</p> <p>Lighting Indirect high efficiency fluorescent or LED fixtures.</p> <p>Audio / Visual Yes. Satellite and/or cable access required. Video flat screen panels @ multiple locations; “zones” sound/PA</p> <p>Computer Wi-Fi Throughout</p> <p>Telephone No.</p> <p>Access Control No</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork for trash and sanitation Mirrors</p> <p>Movable Lifting Racks, Dumbbells, Bench Presses, Plate Loaded Equipment, Platforms Free weight machines to be determined by user. Specific quantities and inventory layout will be provided by equipment vendor as part of FF&E.</p>
SPECIAL COMMENTS	Large open room. Natural Light / Views. Open storage cubbies, centrally located. Provide flush transition between resilient rubber flooring and adjacent fitness flooring materials.

SPACE DIAGRAM



BUILT EXAMPLE *University of Nebraska-Lincoln (HOK)*

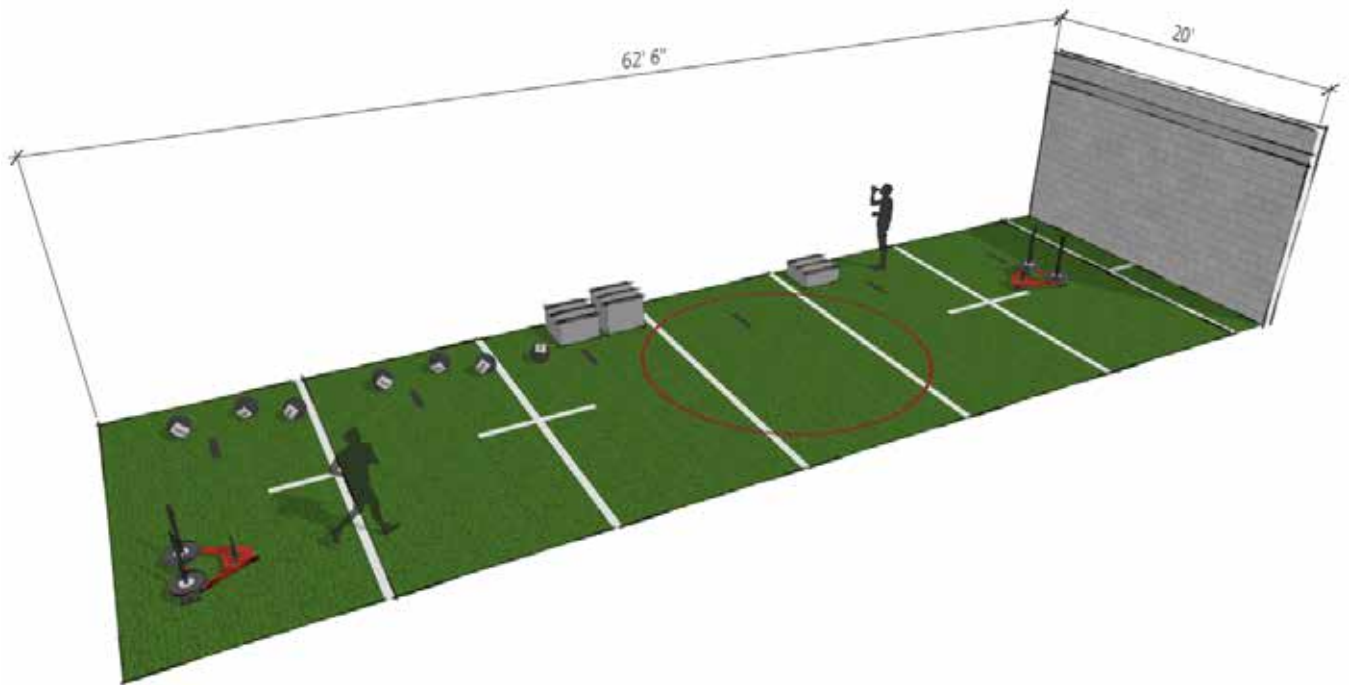


AREA Fitness Area

ROOM Stretching & Functional Training Space

FUNCTIONAL DESCRIPTION	Open fitness area to designated for stretching and functional training. Space to be free of permanent equipment.	
ADJACENCY	Integrated into Open Fitness Spaces. Close to Jogging Track.	
DIMENSIONAL REQUIREMENTS	Net Program Area	1,200 square feet
	Minimum Dimensions	Varies. Assignable SF to be divided and dispersed in large areas throughout the facility
	Minimum Heights	High ceilings required.. 10'-0" minimum
OCCUPANCY	Access	Open Access
	Users	Rec Center Members and Recreation Staff
	Security	Area to be monitored by training staff
	Numbers	Approximately 25 people in all areas. (50 ASF per person)
ARCHITECTURAL	Floor	TBD
	Walls	TBD. Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Acoustic metal deck or supplemental acoustic ceiling panels "clouds".
	Doors	None
	Windows	Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	Standard mechanical heating/cooling. Ceiling Fans.
	Plumbing	Drinking fountain with bottle filling station.
	Electrical	Floor outlets as required at equipment locations and around floor perimeter.
	Lighting	Indirect high efficiency fluorescent or LED fixtures.
	Audio / Visual	Yes. Satellite and/or cable access required. Video flat screen panels @ multiple locations; "zones" sound/PA
	Computer	Wi-Fi Throughout
	Telephone	No.
	Access Control	No
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems	
EQUIPMENT	Fixed	TBD
	Movable	Equipment to be determined by user. Specific quantities and inventory layout will be provided by equipment vendor as part of FF&E.
SPECIAL COMMENTS	Large open room. Natural Light / Views. Open storage cubbies, centrally located. Provide flush transition between resilient rubber flooring and adjacent fitness flooring materials.	

SPACE DIAGRAM



BUILT EXAMPLE *University of Portland (HOK)*



AREA Fitness Area

ROOM Fitness Floor Admin Desk

FUNCTIONAL DESCRIPTION Open fitness area to designated for stretching and functional training. Space to be free of permanent equipment.

ADJACENCY Integrated into Open Fitness Spaces with optimal sightlines of

DIMENSIONAL REQUIREMENTS

- Net Program Area** 150 square feet total (3 x 50 square feet)
- Minimum Dimensions** (3) Desk areas at 6’-6” x 7’-6”
- Minimum Heights** High ceilings not required

OCCUPANCY

- Access** Open Access
- Users** TBD
- Security** Area to be monitored by training staff
- Numbers** 1 or 2 staff members

ARCHITECTURAL

- Floor** High impact rubber sheet flooring, 10mm.
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments.
- Ceiling** Acoustic metal deck or supplemental acoustic ceiling panels “clouds”.
- Doors** No
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling.
- Plumbing** No
- Electrical** Wall outlets on perimeter and floor. Integrated into workstation

- Lighting** Indirect high efficiency fluorescent or LED fixtures.
- Audio / Visual** No
- Computer** Yes.
- Telephone** Yes
- Access Control** No
- Acoustics** No

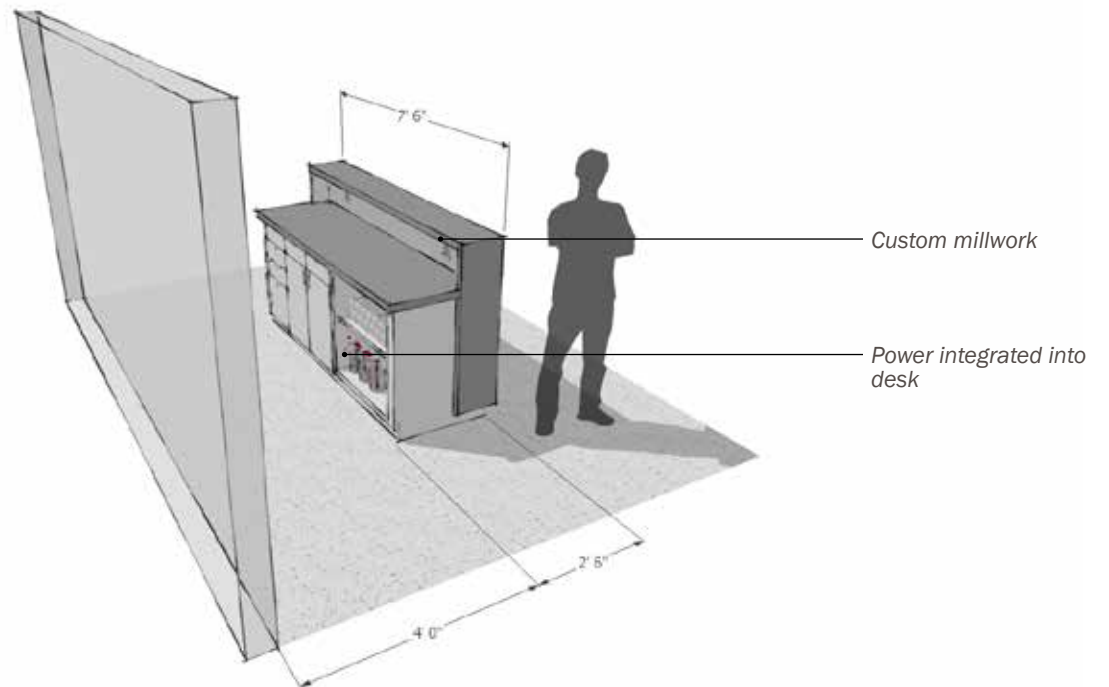
Special Systems

EQUIPMENT

- Fixed** Millwork standing workstation with lockable storage for cleaning supplies and towels
- Movable**

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE Auburn University at Montgomery (HOK)



AREA Fitness Area

ROOM Small Multi-Purpose Room

FUNCTIONAL DESCRIPTION	Small open room to hold specialized group exercise activities	
ADJACENCY	Connection to storage room. Possibility for exterior terrace.	
DIMENSIONAL REQUIREMENTS	Net Program Area	1,000 SF x (2) locations (2,000 ASF total)
	Minimum Dimensions	30'-0" x 33'-4" to 22'-0" x 45'-0"
	Minimum Heights	High ceiling required - 10'-0" minimum / 15'-0" preferred
OCCUPANCY	Access	(2) Controlled Entry Points
	Users	Lockable after hours
	Security	TBD
	Numbers	Anticipated Occupant Load = 20 people @ 50 ASF per person Exist Occupant Load = 67 people @ 15 ASF per person
ARCHITECTURAL	Floor	Hardwood Athletic Flooring or High Impact Rubber Sheet Flooring (10mm)
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments
	Ceiling	Acoustical ceiling or suspended panel acoustical "clouds".
	Doors	Aluminum and glass double doors in storefront system to facilitate equipment access
	Windows	Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	Standard mechanical heating/cooling. Ceiling Fans
	Plumbing	NA
	Electrical	Convenience wall and floor outlets as required around perimeter
	Lighting	Fluorescent or LED Fixtures, multi-level, dimable, and color changing
	Audio / Visual	Yes. Satellite and/or cable access required. video projector + screen; stereo and sound system.
	Computer	Wi-Fi Throughout
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
	Special Systems	
EQUIPMENT	Fixed	Mirrors (Full Height) Millwork cubbies Projector, screen, and sound system
	Movable	(20) Spinning Bikes @ (1) Studio only
SPECIAL COMMENTS	Open room. Natural Light/Views. Open storage cubbies, centrally located. Provide flush transition between wood flooring and adjacent surface. Mirrors on one or more interior walls.	

SPACE DIAGRAM



BUILT EXAMPLE University of Central Arkansas (HOK)



AREA Fitness Area

ROOM Small Multi-Purpose Room Storage

FUNCTIONAL DESCRIPTION Dedicated storage space for various equipment to be used in the Small Multi-Purpose Room

ADJACENCY Directly connected to Small Multi-Purpose Room

DIMENSIONAL REQUIREMENTS

- Net Program Area** 175 square feet each x (2) locations
- Minimum Dimensions** Room to 8 - 10ft wide and varying in length
- Minimum Heights** High ceiling is not required for this space

OCCUPANCY

- Access** (2) Access Points Preferred but only a single access point required
- Users** TBD
- Security** Lockable
- Numbers** Not Occupied

ARCHITECTURAL

- Floor** Rubber Flooring
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments
- Ceiling** Acoustical suspended ceiling or gypsum
- Doors** TBD
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling.

Plumbing No

Electrical Wall outlets as required at equipment locations and around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual No

Computer No

Telephone No

Access Control TBD

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

Special Systems

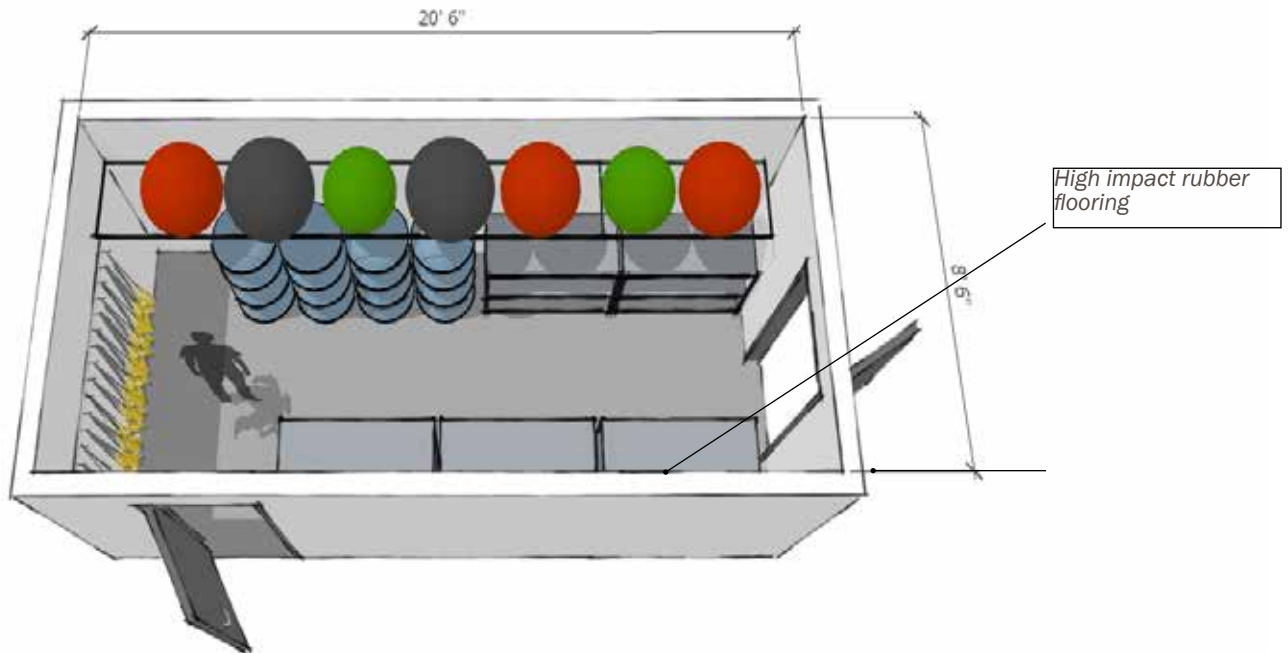
EQUIPMENT

- Fixed** Built in storage shelving

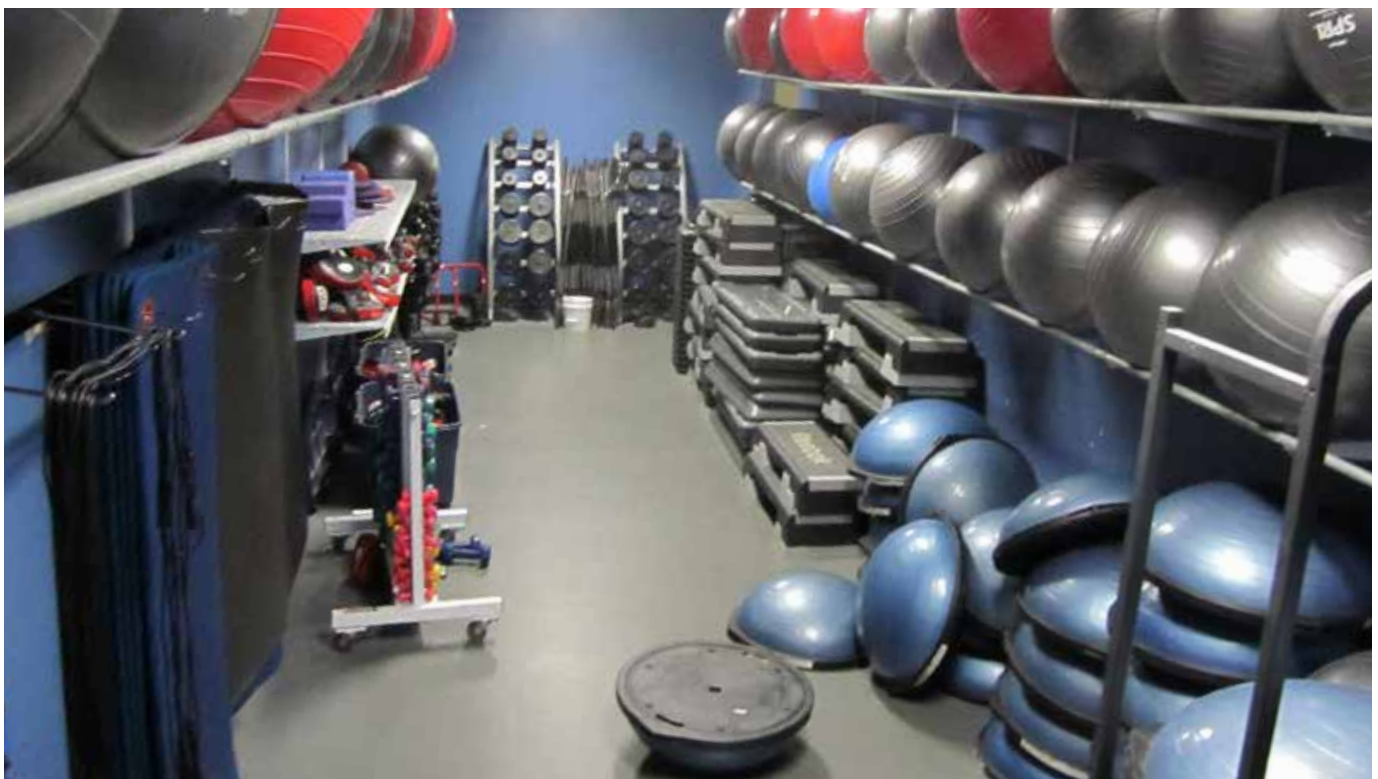
Movable TBD

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

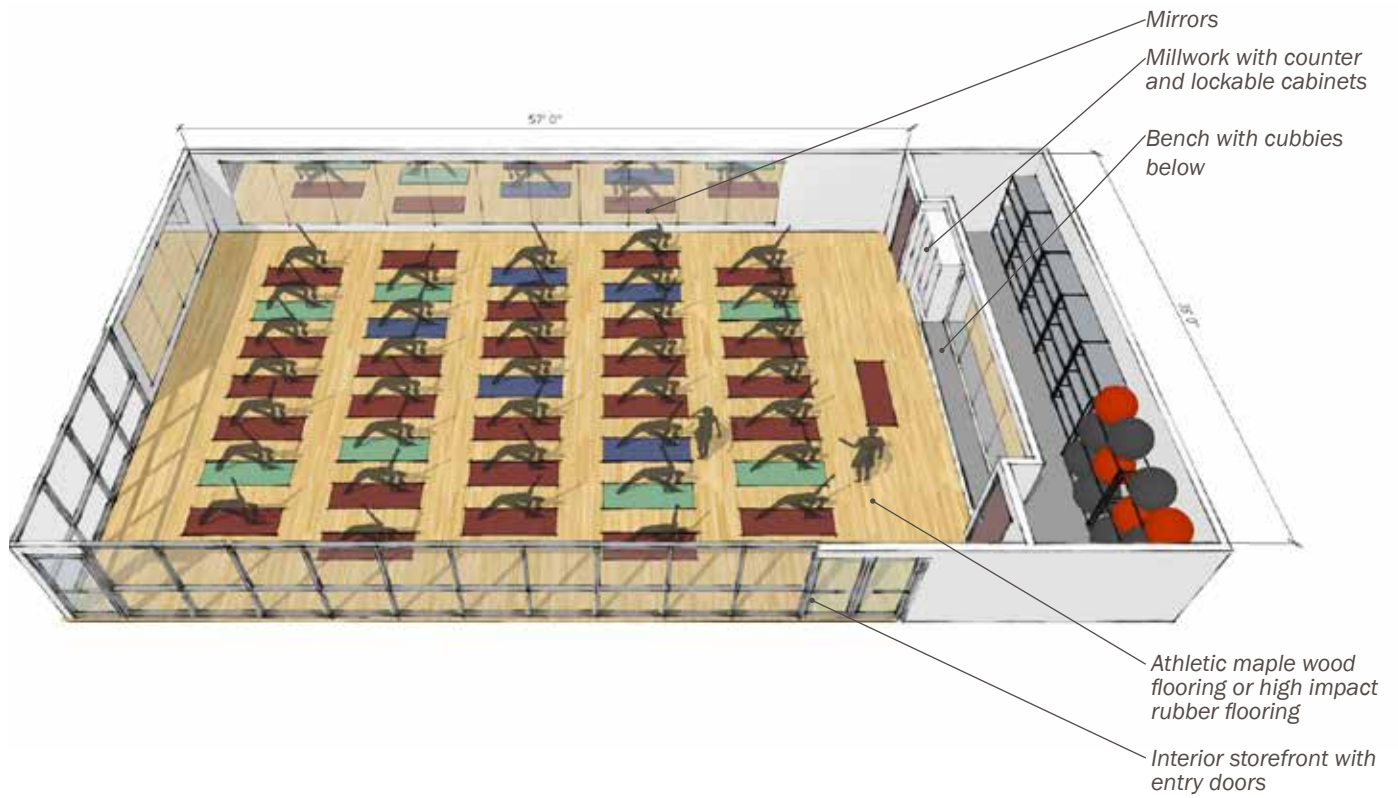


AREA Fitness Area

ROOM Medium Multi-Purpose Room

FUNCTIONAL DESCRIPTION	Medium sized open room to hold specialized group exercise activities	
ADJACENCY	Connection to storage room. Possibility for exterior terrace.	
DIMENSIONAL REQUIREMENTS	Net Program Area	2,000 SF x (2) locations (4,000 ASF total)
	Minimum Dimensions	40'-0" x 50'-0" to 32'-0" x 62'-6"
	Minimum Heights	High ceiling required - 10'-0" minimum / 15'-0" preferred
OCCUPANCY	Access	(2) Controlled Entry / Exit Points
	Users	TBD
	Security	Lockable after hours
	Numbers	Anticipated Occupant Load = 40 people @ 50 ASF per person Exist Occupant Load = 133 people @ 15 ASF per person
ARCHITECTURAL	Floor	Hardwood Athletic Flooring or High Impact Rubber Sheet Flooring (10mm)
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments
	Ceiling	Acoustical ceiling or suspended panel acoustical "clouds".
	Doors	Aluminum and glass double doors in storefront system to facilitate equipment access
	Windows	Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	Standard mechanical heating/cooling. Ceiling Fans
	Plumbing	Drinking fountain with bottle filling station.
	Electrical	Convenience wall and floor outlets as required around perimeter
	Lighting	Fluorescent or LED Fixtures, multi-level or dimmable
	Audio / Visual	Yes. Satellite and/or cable access required. video projector + screen; stereo and sound system.
	Computer	Wi-Fi Throughout
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
	Special Systems	
EQUIPMENT	Fixed	Mirrors (Full Height) Millwork cubbies Projector, screen, and sound system
	Movable	TBD
SPECIAL COMMENTS	Open room. Natural Light/Views. Open storage cubbies, centrally located. Provide flush transition between wood flooring and adjacent surface. Mirrors on one or more interior walls.	

SPACE DIAGRAM



BUILT EXAMPLE *Utah State University (HOK)*



AREA Fitness Area

ROOM Medium Multi-Purpose Room Storage

FUNCTIONAL DESCRIPTION Dedicated storage space for various equipment to be used in the Medium Multi-Purpose Room

ADJACENCY Directly connected to Medium Multi-Purpose Room

DIMENSIONAL REQUIREMENTS

- Net Program Area** 250 square feet x (2) locations
- Minimum Dimensions** Room to 8 - 10ft wide and varying in length
- Minimum Heights** High ceiling is not required for this space

OCCUPANCY

- Access** (2) Access Points Preferred but only a single access point required
- Users** TBD
- Security** Lockable
- Numbers** Not Occupied

ARCHITECTURAL

- Floor** Rubber Flooring
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments
- Ceiling** Acoustical suspended ceiling or gypsum
- Doors** TBD
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling.

Plumbing No

Electrical Wall outlets as required at equipment locations and around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual No

Computer No

Telephone No

Access Control TBD

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

Special Systems

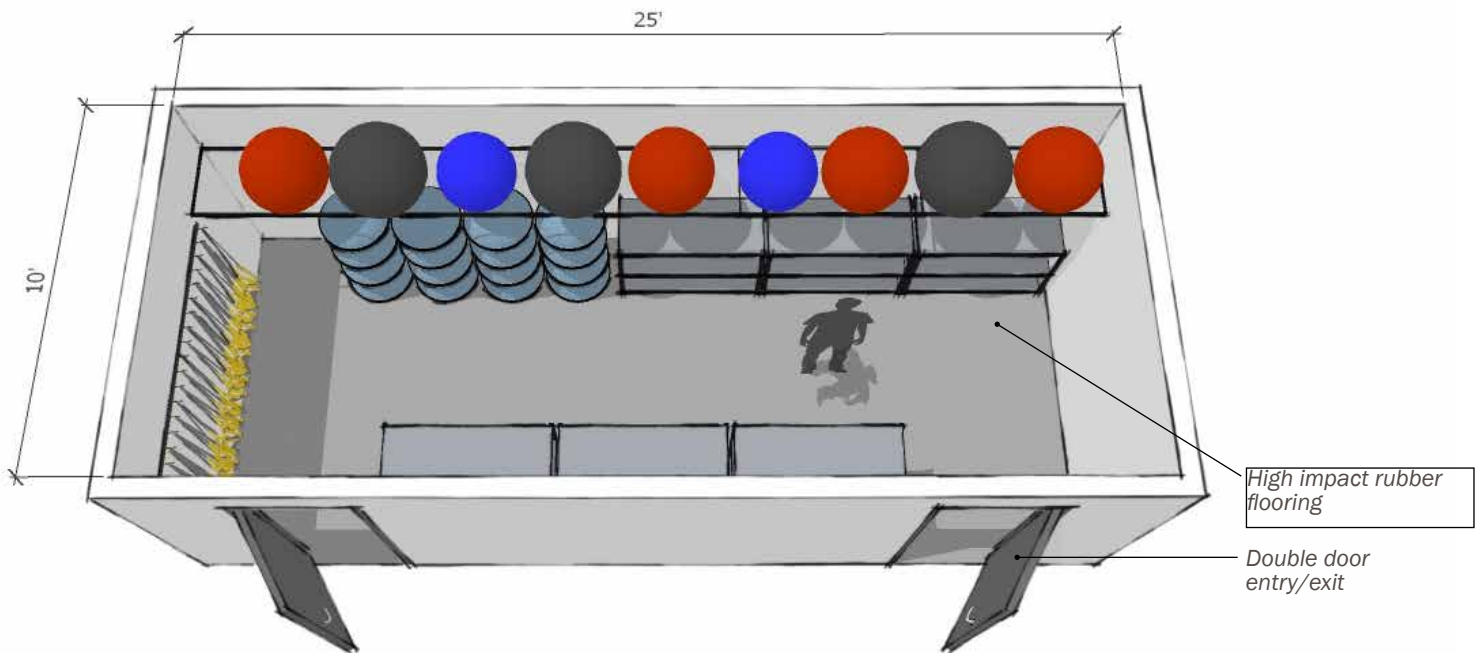
EQUIPMENT

- Fixed** Built in storage shelving

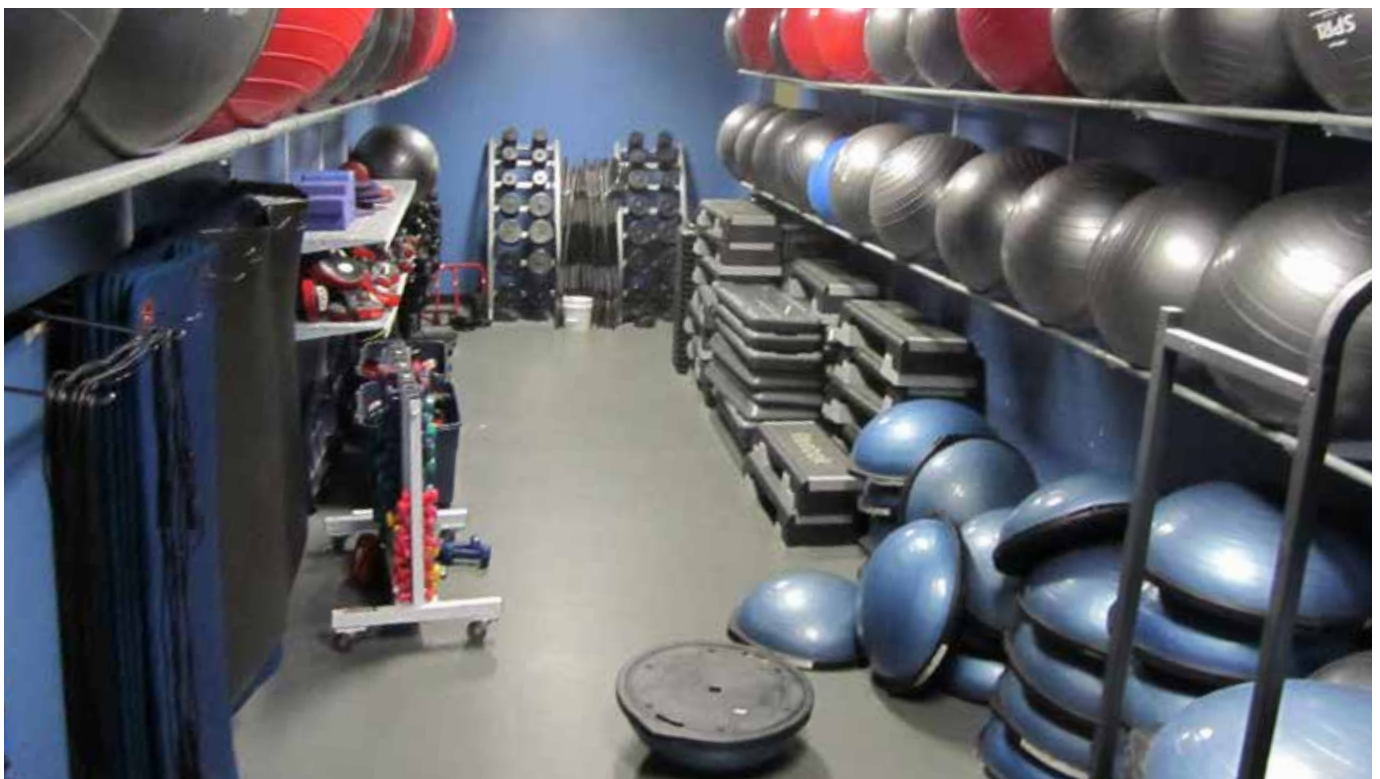
Movable TBD

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

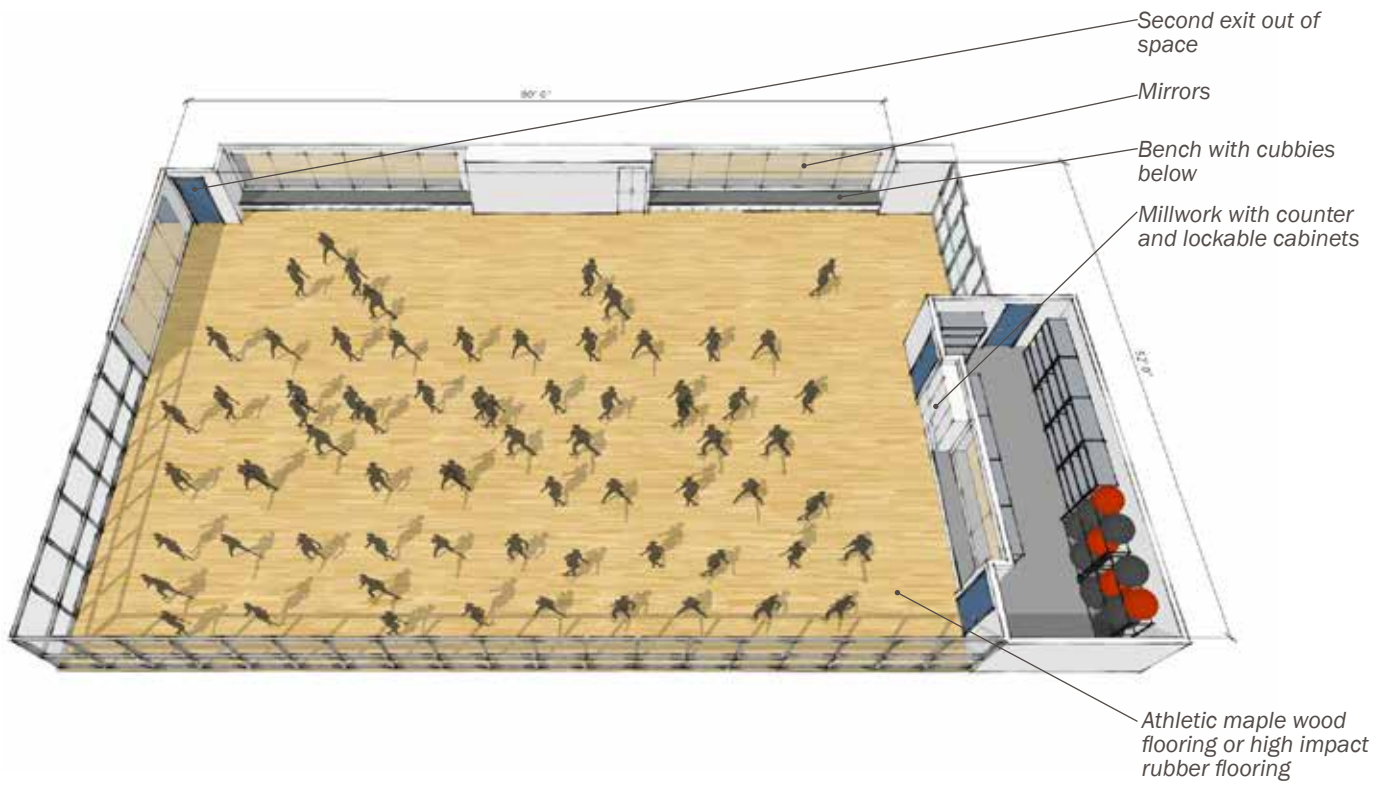


AREA Fitness Area

ROOM Large Multi-Purpose Room

FUNCTIONAL DESCRIPTION	Large open room to hold large specialized group exercise activities (Zumba)	
ADJACENCY	Connection to storage room. Near primary circulation stairs through facility. Possibility for exterior terrace.	
DIMENSIONAL REQUIREMENTS	Net Program Area	4,200 SF
	Minimum Dimensions	60'-0" x 70'-0" to 50'-0" x 84'-0"
	Minimum Heights	High ceiling required - 10'-0" minimum / 15'-0" preferred
OCCUPANCY	Access	(2) Entry / Exit Points
	Users	TBD
	Security	Lockable after hours
	Numbers	Anticipated Occupant Load = 85 people @ 50 ASF per person Exist Occupant Load = 280 people @ 15 ASF per person
ARCHITECTURAL	Floor	Hardwood Athletic Flooring
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments
	Ceiling	Acoustical ceiling or suspended panel acoustical "clouds".
	Doors	Aluminum and glass double doors in storefront system to facilitate equipment access
	Windows	Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	Standard mechanical heating/cooling. Ceiling Fans
	Plumbing	Drinking fountain with bottle filling station.
	Electrical	Convenience wall and floor outlets as required around perimeter
	Lighting	Fluorescent or LED Fixtures, multi-level or dimmable
	Audio / Visual	Yes. Satellite and/or cable access required. video projector + screen; stereo and sound system.
	Computer	Wi-Fi Throughout
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
	Special Systems	
EQUIPMENT	Fixed	Mirrors (Full Height) Millwork cubbies Projector, screen, and sound system
	Movable	TBD
SPECIAL COMMENTS	Large open room. Natural Light/Views. Open storage cubbies, centrally located. Provide flush transition between wood flooring and adjacent surface. Mirrors on one or more interior walls.	

SPACE DIAGRAM



BUILT EXAMPLE University of Central Arkansas (HOK)



AREA Fitness Area

ROOM Storage - Multi-Purpose Room

FUNCTIONAL DESCRIPTION Dedicated storage space for various equipment to be used in the Large Multi-Purpose Room

ADJACENCY Directly connected to Large Multi-Purpose Room

DIMENSIONAL REQUIREMENTS

- Net Program Area** 400 square feet
- Minimum Dimensions** Room to 8 - 10ft wide and varying in length
- Minimum Heights** High ceiling is not required for this space

OCCUPANCY

- Access** (2) Access Points Preferred but only a single access point required
- Users** TBD
- Security** Lockable
- Numbers** Not Occupied

ARCHITECTURAL

- Floor** Rubber Flooring
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments
- Ceiling** Acoustical suspended ceiling or gypsum
- Doors** TBD
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling.

Plumbing No

Electrical Wall outlets as required at equipment locations and around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual No

Computer No

Telephone No

Access Control TBD

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

Special Systems

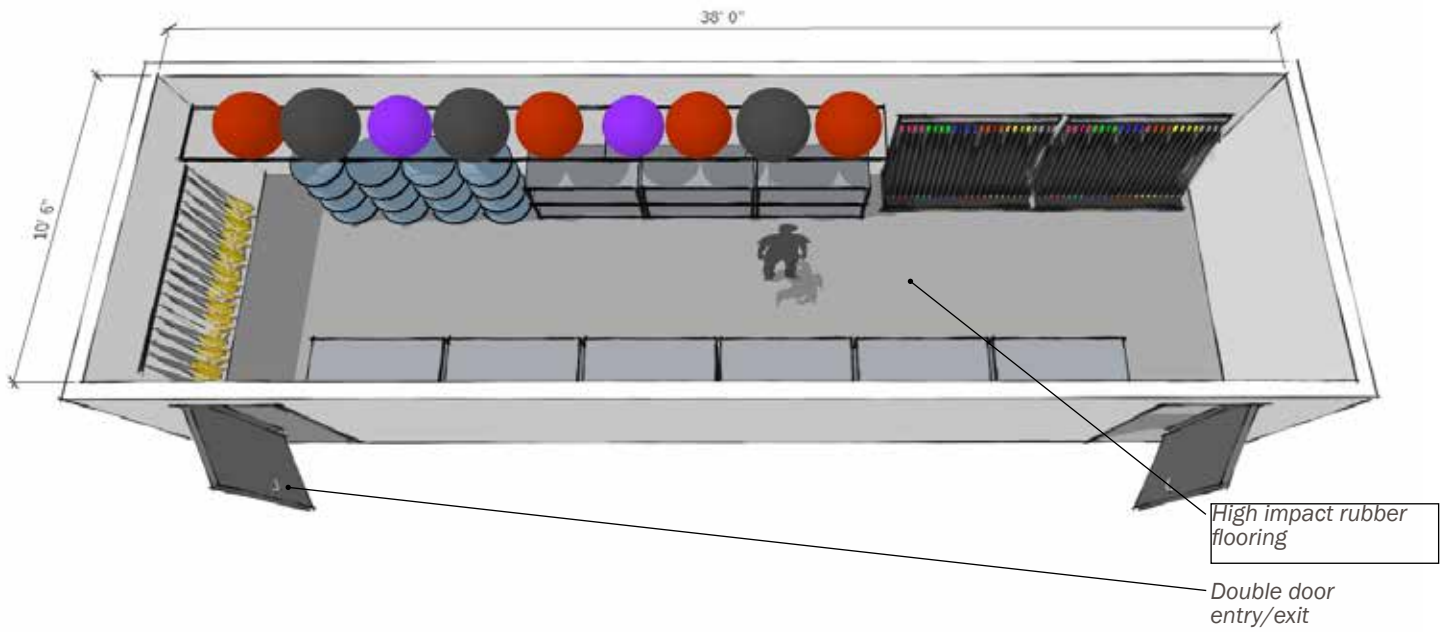
EQUIPMENT

- Fixed** Built in storage shelving

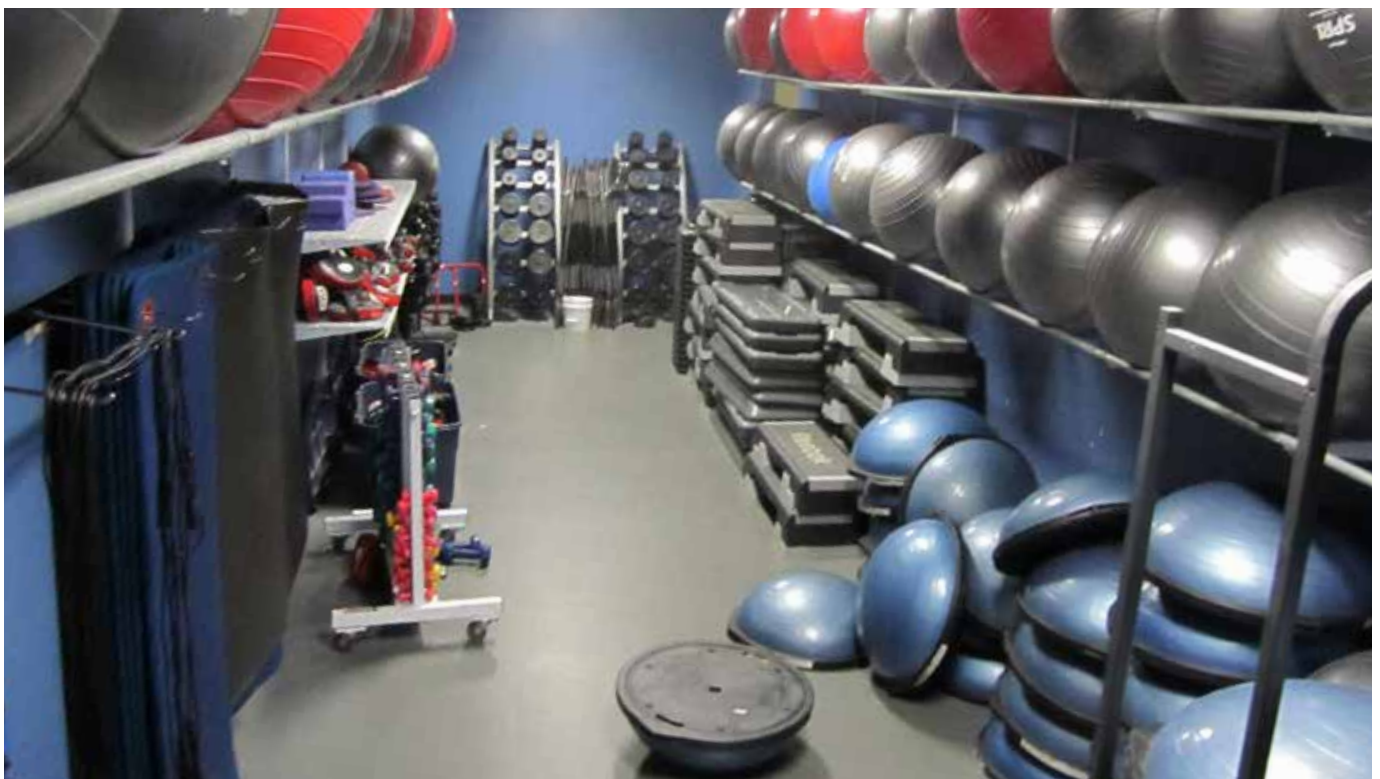
Movable TBD

SPECIAL COMMENTS

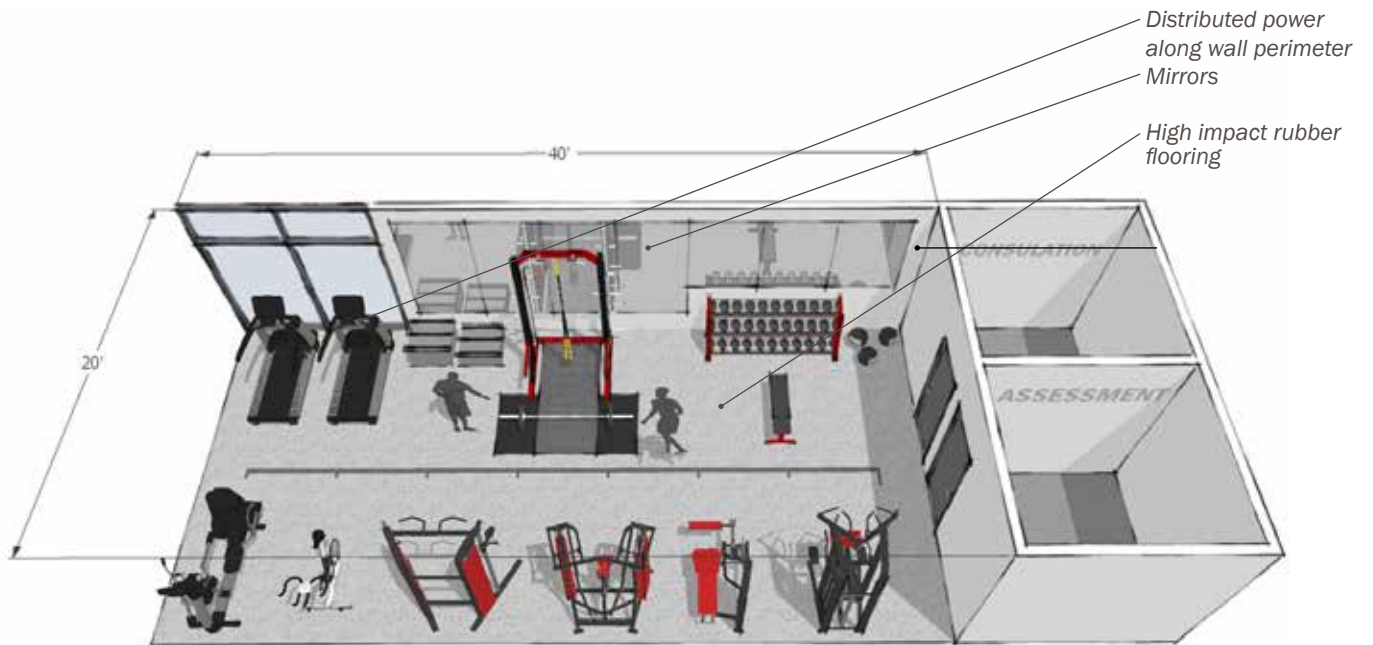
SPACE DIAGRAM



BUILT EXAMPLE University of Iowa (RDG Planning & Design)



SPACE DIAGRAM



BUILT EXAMPLE University of Iowa (RDG Planning & Design)



AREA Fitness Area

ROOM Personal Training: Select Fitness Equipment

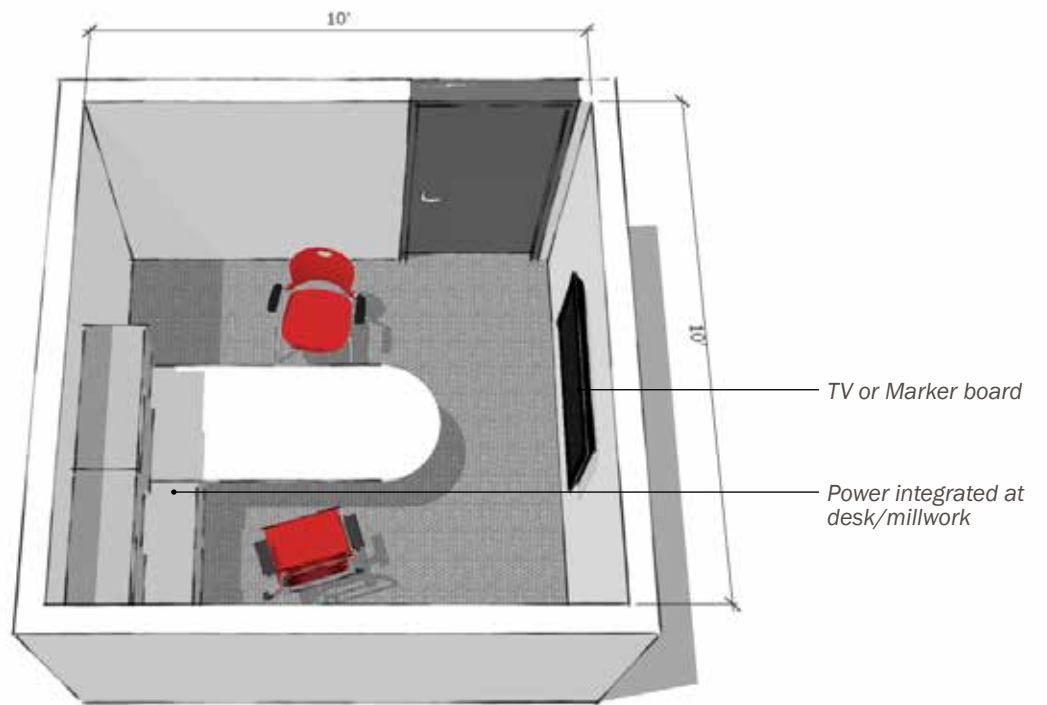
FUNCTIONAL DESCRIPTION	Fitness area to designated for a select collection of fitness equipment. Space to be semi-public and integrated into rest of the facility's fitness areas.
ADJACENCY	Open Fitness Space. Personal Training Consultation and Assessment Rooms
DIMENSIONAL REQUIREMENTS	Net Program Area 800 square feet
	Minimum Dimensions 20'-0" x 40'-0"
	Minimum Heights High ceilings not required but preferred. 10'-0" minimum
OCCUPANCY	Access Open Access
	Users TBD
	Security Area to be monitored by training staff
	Numbers Approximately 16 people (50 ASF per person)
ARCHITECTURAL	Floor High impact rubber sheet flooring, 10mm.
	Walls TBD
	Ceiling Acoustic metal deck or supplemental acoustic ceiling panels "clouds".
	Doors None
	Windows TBD
	HVAC Standard mechanical heating/cooling.
SYSTEMS	Plumbing Drinking fountain with bottle filling station.
	Electrical Floor outlets as required at equipment locations and around floor perimeter.
	Lighting Indirect high efficiency fluorescent or LED fixtures.
	Audio / Visual Yes. Satellite and/or cable access required. Video flat screen panels @ multiple locations; "zones" sound/PA
	Computer No/ Wi-Fi Throughout
	Telephone No.
	Access Control No
	Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems
	Fixed Millwork counter with lockable storage cabinets
Movable (Cardio vascular fitness equipment & machines to be confirmed by user w/ layouts & inventory provided by vendor as part of FF&E)	
SPECIAL COMMENTS	Large open room. Open storage cubbies, centrally located. Provide flush transition between resilient rubber flooring and adjacent fitness flooring materials.

AREA Fitness Area

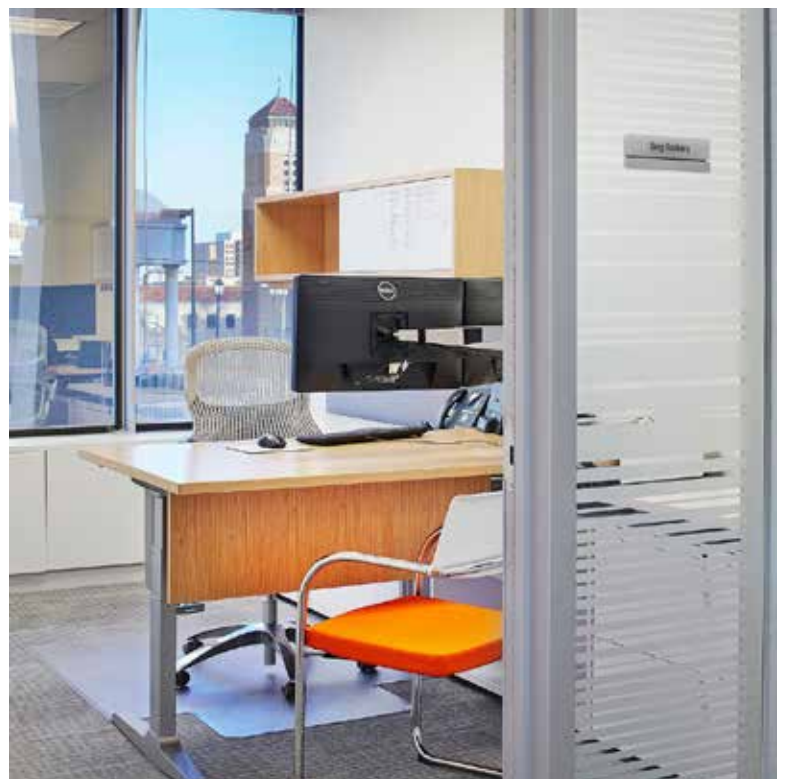
ROOM Personal Training: Consultation Room

FUNCTIONAL DESCRIPTION	Small private meeting room for a Personal Trainer and client to meet and discuss various health and wellness issues
ADJACENCY	Adjacent to Personal Training Fitness Area and Assessment Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 100 square feet</p> <p>Minimum Dimensions 10'-0" x 10'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Personal Trainers and Client</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 1 or 2</p>
ARCHITECTURAL	<p>Floor Carpet Tile or High impact rubber sheet flooring, 10mm.</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal or wood door</p> <p>Windows None. Privacy is required for this area.</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office.</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TBD</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork base and wall storage cabinets</p> <p>Movable Desk; Chairs Marker board</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE ACCELERATED VISION (HOK) POLSINELLI (HOK)

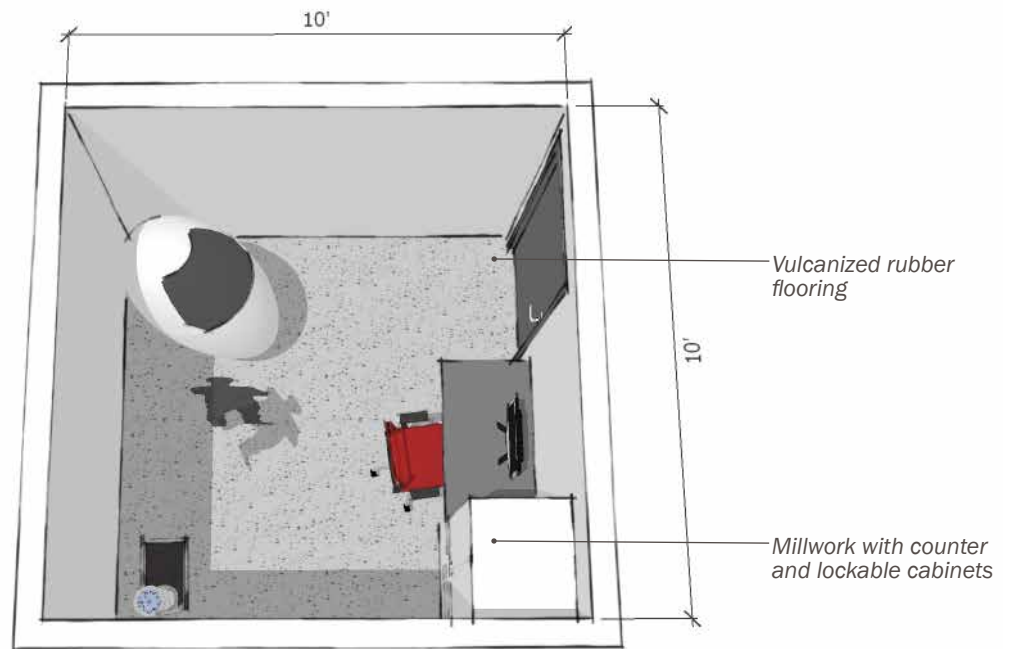


AREA Fitness Area

ROOM Personal Training: Assessment Room

FUNCTIONAL DESCRIPTION	Private room for Personal Trainer to conduct physical assessments of a client
ADJACENCY	Adjacent to Personal Training Fitness Area and Consultation Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 100 square feet</p> <p>Minimum Dimensions 10'-0" x 10'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Personal Trainers and Client</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 1 or 2</p>
ARCHITECTURAL	<p>Floor High impact rubber sheet flooring, 10mm.</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal or wood door</p> <p>Windows None. Privacy is required for this area.</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office.</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TBD</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter and lockable storage cabinets Assessment Equipment to be determined by recreation staff.</p> <p>Movable (1) Chair</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



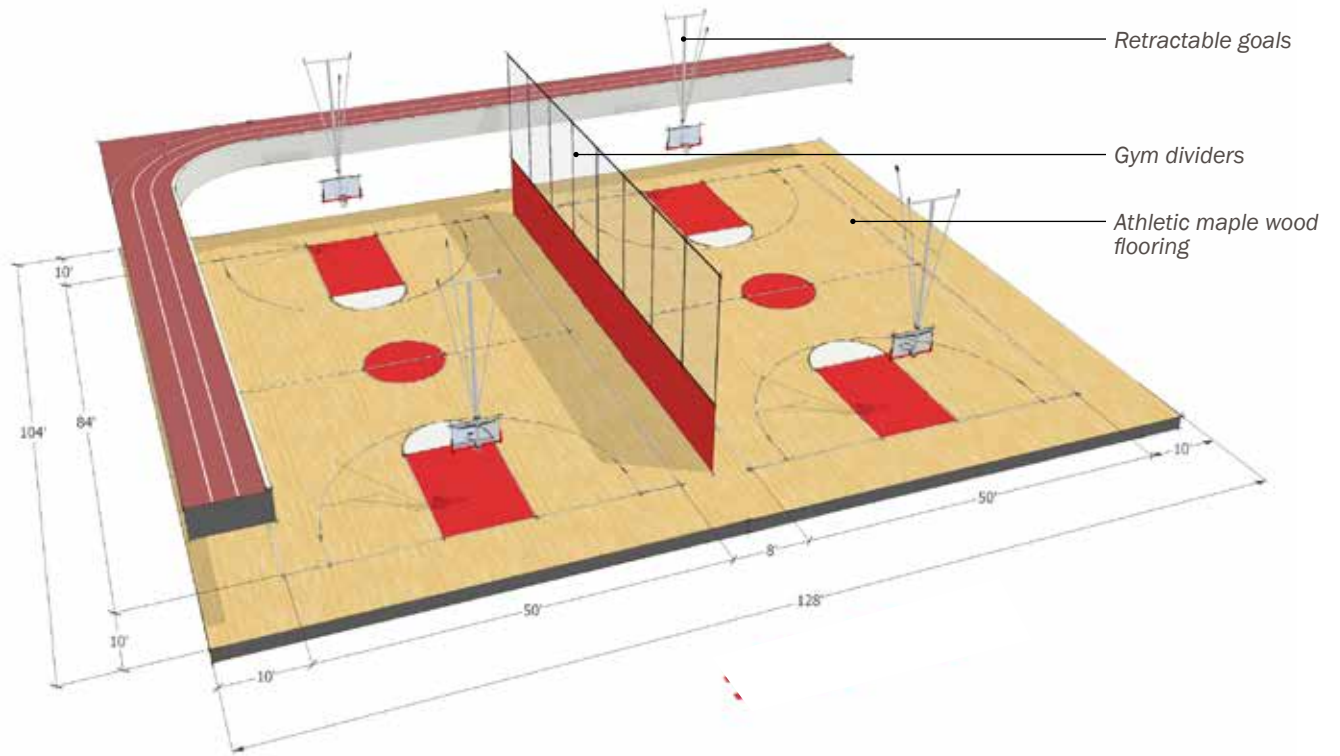
BUILT EXAMPLE *Unknown*



AREA Recreational Court Space
ROOM Two Court Gymnasium on Level 1

FUNCTIONAL DESCRIPTION	2-court gymnasium on Level 1 to accommodate a variety of recreational activities	
ADJACENCY	Primary: Gymnasium Storage. Egress Stairs to be within proximity Secondary: Locker Rooms and Fitness Areas	
DIMENSIONAL REQUIREMENTS	Net Program Area	13,312 square feet
	Minimum Dimensions	104'-0" x 128'-0"
	Minimum Heights	High ceilings required in this space. Open structure with 25'-0" minimum clearance.
OCCUPANCY	Access	Multiple access points. Access to egress stairs within proximity
	Users	TBD
	Security	TBD
	Numbers	Approximately 250
ARCHITECTURAL	Floor	TBD. Sleeves for badminton nets and futsal goals.
	Walls	Ground-face CMU or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Exposed acoustic metal deck.
	Doors	Flush insulated metal doors at perimeter exits to stairs
	Windows	Yes. Clerestory windows to provide views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	High supply outlets, low return air grilles. Ceiling fans. Occupancy Sensor for Demand Control Ventilation.
	Plumbing	Drinking fountain with bottle filling station. (Hydration Station).
	Electrical	Wall outlets at perimeter walls. Floor outlets between courts to service Scoring Tables
	Lighting	High bay or similar high efficiency fluorescent or LED fixtures.
	Audio / Visual	Distributed sound & (zoned) loud speakers. Microphone connection for instructions into designated gymnasium
	Computer	Wifi throughout
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems	
EQUIPMENT	Fixed	Retractable Basketball Goals Retractable Volleyball Nets Divider Netting
	Movable	Badminton Nets and Stanchions Futsal and Indoor Soccer Goals
SPECIAL COMMENTS		

SPACE DIAGRAM



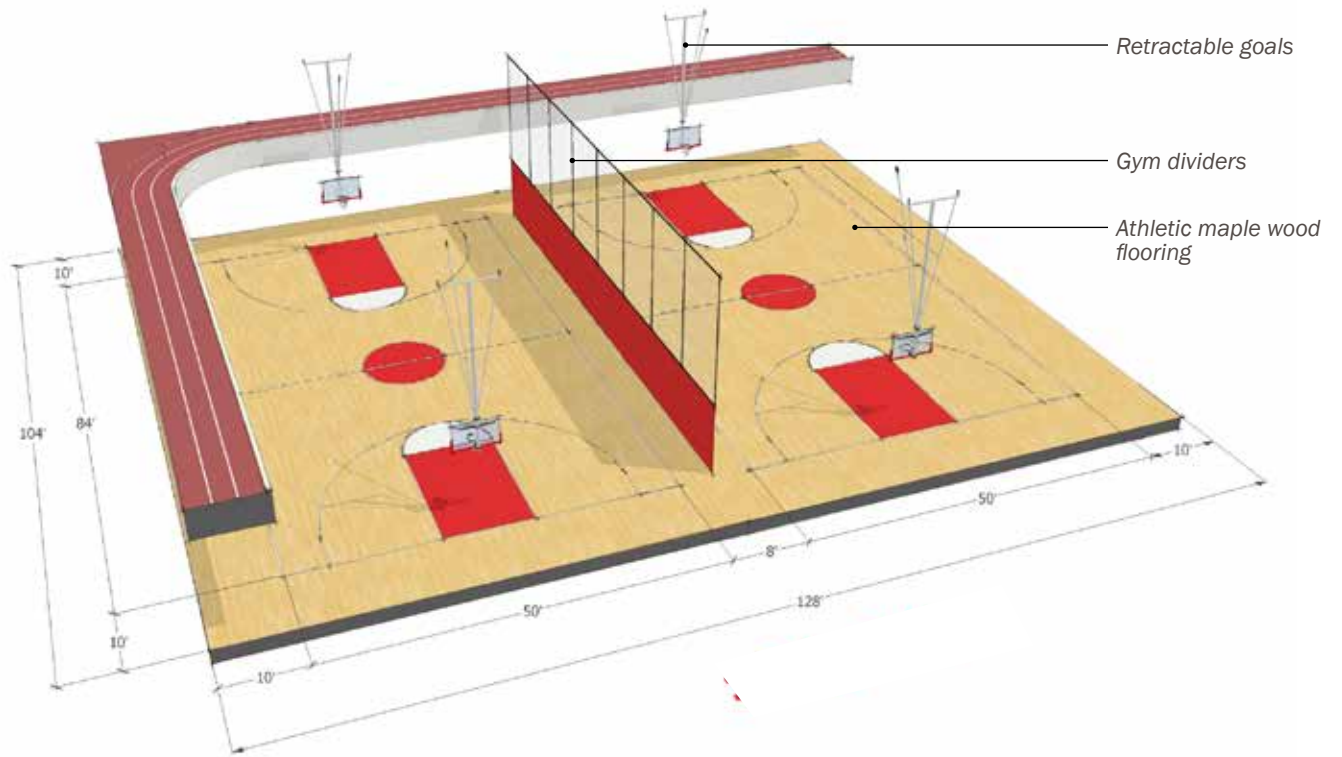
BUILT EXAMPLE Auburn University (HOK)



AREA Recreational Court Space
ROOM Two Court Gymnasium on Level 3

FUNCTIONAL DESCRIPTION	2-court gymnasium on Level 3 to accommodate a variety of recreational activities	
ADJACENCY	Primary: Gymnasium Storage. Egress Stairs to be within proximity Secondary: Locker Rooms and Fitness Areas	
DIMENSIONAL REQUIREMENTS	Net Program Area	13,312 square feet
	Minimum Dimensions	104'-0" x 128'-0"
	Minimum Heights	Height ceilings required in this space. Open structure with 25'-0" minimum clearance.
OCCUPANCY	Access	Multiple access points. Access to egress stairs within proximity
	Users	TBD
	Security	TBD
	Numbers	Approximately 250
ARCHITECTURAL	Floor	Hardwood Athletic Flooring. Sleeves for Volleyball and Badminton Stanchions
	Walls	Ground-face CMU or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Exposed acoustic metal deck.
	Doors	Flush insulated metal doors at perimeter exits to stairs
	Windows	Yes. Clerestory windows to provide views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	High supply outlets, low return air grilles. Ceiling fans. Occupancy Sensor for Demand Control Ventilation.
	Plumbing	Drinking fountain with bottle filling station. (Hydration Station).
	Electrical	Wall outlets at perimeter walls. Floor outlets between courts to service Scoring Tables
	Lighting	High bay or similar high efficiency fluorescent or LED fixtures.
	Audio / Visual	Distributed sound & (zoned) loud speakers. Microphone connection for instructions into designated gymnasium
	Computer	Wifi throughout
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems	
EQUIPMENT	Fixed	Retractable Basketball Goals Retractable Volleyball Nets Divider Netting
	Movable	Badminton Nets and Stanchions Futsal and Indoor Soccer Goals
SPECIAL COMMENTS		

SPACE DIAGRAM



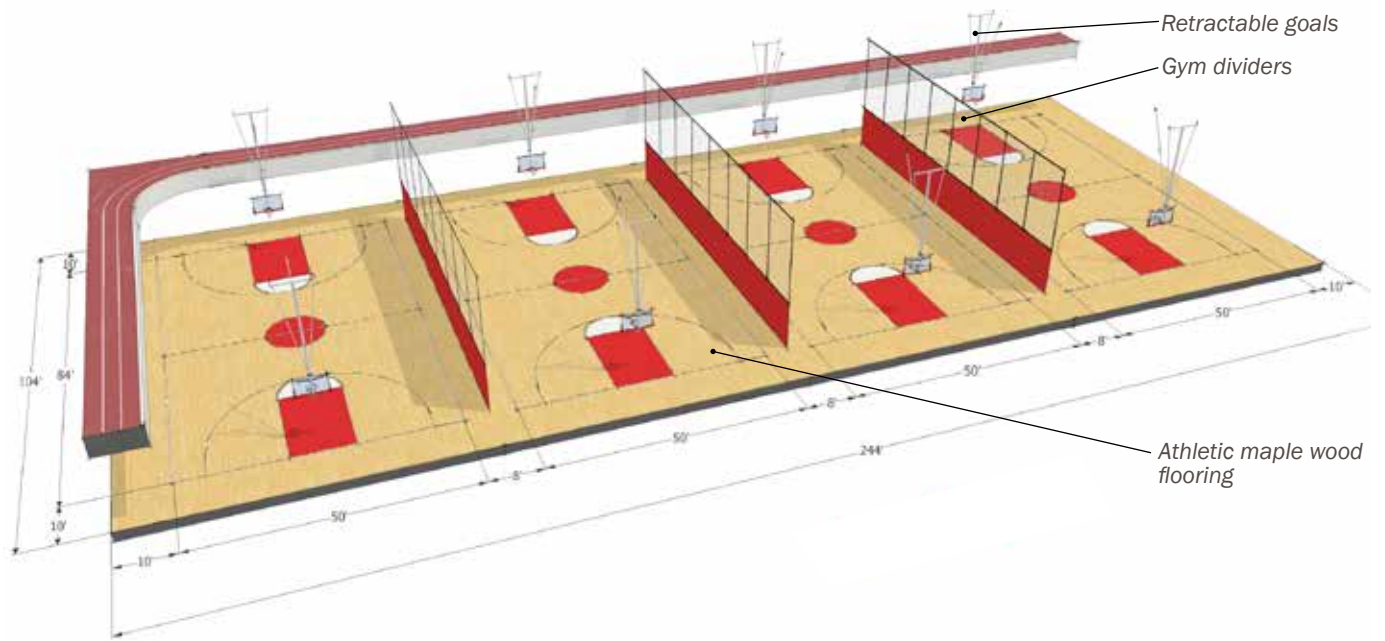
BUILT EXAMPLE Auburn University at Montgomery (HOK)



AREA Recreational Court Space
ROOM Four Court Gymnasium on Level 3

FUNCTIONAL DESCRIPTION	4-court gymnasium on Level 3 to accommodate a variety of recreational activities	
ADJACENCY	Primary: Gymnasium Storage and Running Track. Egress Stairs to be within proximity Secondary: Locker Rooms and Fitness Areas	
DIMENSIONAL REQUIREMENTS	Net Program Area	25,376 square feet
	Minimum Dimensions	104'-0" x 244'-0"
	Minimum Heights	Height ceilings required in this space. Open structure with 25'-0" minimum clearance.
OCCUPANCY	Access	Multiple access points. Access to egress stairs within proximity
	Users	TBD
	Security	TBD
	Numbers	Approximately 500
ARCHITECTURAL	Floor	Hardwood Athletic Flooring. Sleeves for Volleyball and Badminton Stanchions
	Walls	Ground-face CMU or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Exposed acoustic metal deck.
	Doors	Flush insulated metal doors at perimeter exits to stairs
	Windows	Yes. Clerestory windows to provide views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare
SYSTEMS	HVAC	High supply outlets, low return air grilles. Ceiling fans. Occupancy Sensor for Demand Control Ventilation.
	Plumbing	Drinking fountain with bottle filling station. (Hydration Station).
	Electrical	Wall outlets at perimeter walls. Floor outlets between courts to service Scoring Tables
	Lighting	High bay or similar high efficiency fluorescent or LED fixtures.
	Audio / Visual	Distributed sound & (zoned) loud speakers. Microphone connection for instructions into designated gymnasium
	Computer	Wifi throughout
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems	
EQUIPMENT	Fixed	Retractable Basketball Goals Retractable Volleyball Nets Divider Netting
	Movable	Badminton Nets and Stanchions Futsal and Indoor Soccer Goals
SPECIAL COMMENTS		

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)

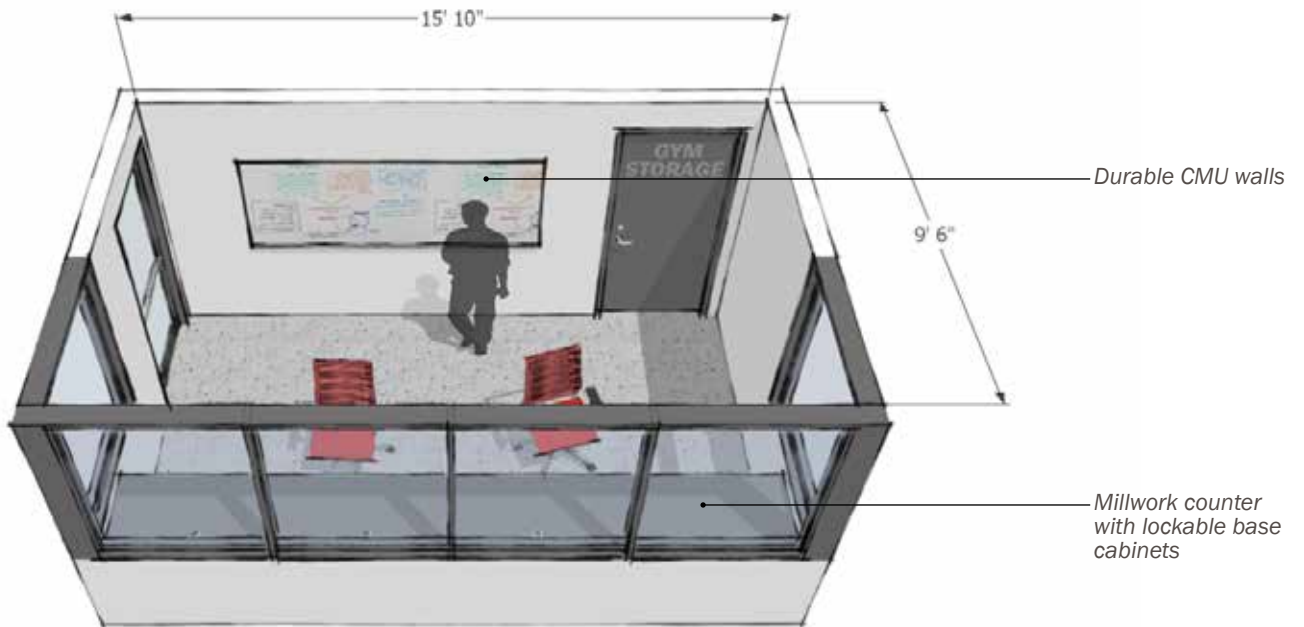


AREA Recreational Court Space

ROOM Gymnasium Services / Equipment Station

FUNCTIONAL DESCRIPTION	Workstation integrated into Welcome desk designated for the rental and sales of recreation equipment
ADJACENCY	Directly connected to Welcome Desk. Equipment Rental Storage Room
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 150 square feet</p> <p>Minimum Dimensions 10'-0" x 8'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Recreation professional staff</p> <p>Security Lockable after open hours</p> <p>Numbers 1-2 people</p>
ARCHITECTURAL	<p>Floor Tile or carpet</p> <p>Walls Suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors None</p> <p>Windows None. Open to Lobby</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Convenience wall outlets around perimeter and integrated into reception desk</p> <p>Lighting TBD</p> <p>Audio / Visual Yes.</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with lockable wall + base storage cabinets Marker board</p> <p>Movable (2) Chairs</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)



AREA Recreational Court Space

ROOM Gymnasium Storage

FUNCTIONAL DESCRIPTION Storage space for gymnasium equipment

ADJACENCY Directly connected to gymnasiums

DIMENSIONAL REQUIREMENTS

- Net Program Area** (3) at 450 square feet. Total of 1,350 square feet
- Minimum Dimensions** 16'-0" x 26'-3"
- Minimum Heights** Maximize ceiling height for potential split level storage

OCCUPANCY

- Access** Single point of entry
- Users** TBD
- Security** Lockable after hours
- Numbers** No Occupied

ARCHITECTURAL

- Floor** Sealed Concrete
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments
- Ceiling** Acoustical suspended ceiling or gypsum.
- Doors** TBD
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling.
- Plumbing** No
- Electrical** Wall outlets as required at equipment locations and around perimeter.
- Lighting** Recessed Fluorescent.
- Audio / Visual** No
- Computer** No
- Telephone** No
- Access Control** Possible to have key card access or card verification capabilities to access this space.
- Acoustics** Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
- Special Systems**

EQUIPMENT

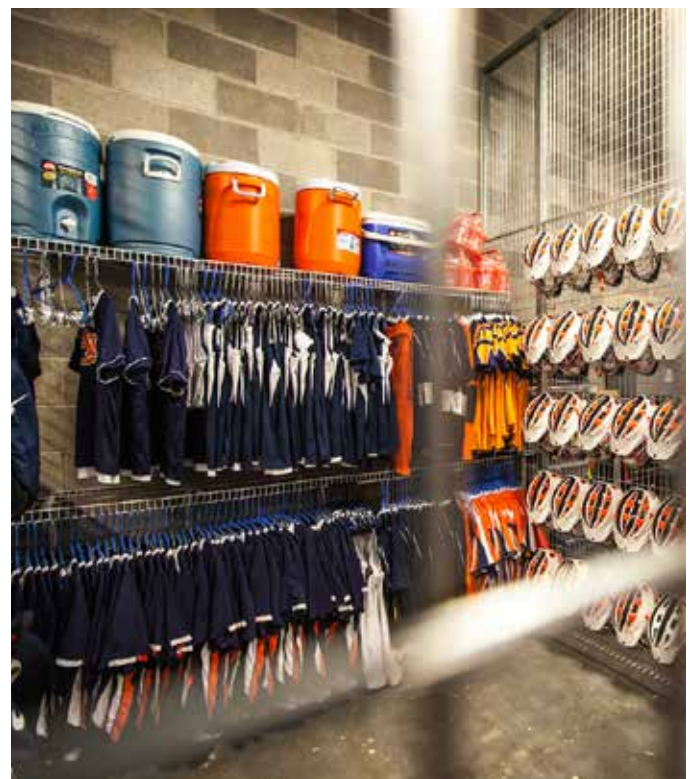
- Fixed**
- Movable**

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE University of Iowa (RDG Planning & Design) Auburn University (HOK)



AREA Recreational Court Space

ROOM Jogging Track

FUNCTIONAL DESCRIPTION Elevated running track. Approximately 9,000 square feet of track. Primarily 3-lanes (10'-0" wide) and some at 2-lanes (7'-6" wide). Estimated track length around 900 linear feet.

ADJACENCY 4 Court Gymnasium Open Fitness Area

DIMENSIONAL REQUIREMENTS

- Net Program Area** 9,000 square feet
- Minimum Dimensions** 3-lanes (10'-0" wide) preferred throughout. 2-lanes (7'-6" wide) in designated sections
- Minimum Heights** Low ceilings possible for this space

OCCUPANCY

- Access** Multiple entry points
- Users** TBD
- Security** TBD
- Numbers** TBD

ARCHITECTURAL

- Floor** Rubber indoor track surface
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments.
- Ceiling** Acoustic metal deck or gypsum ceiling as required by code.
- Doors** None
- Windows** TBD

SYSTEMS

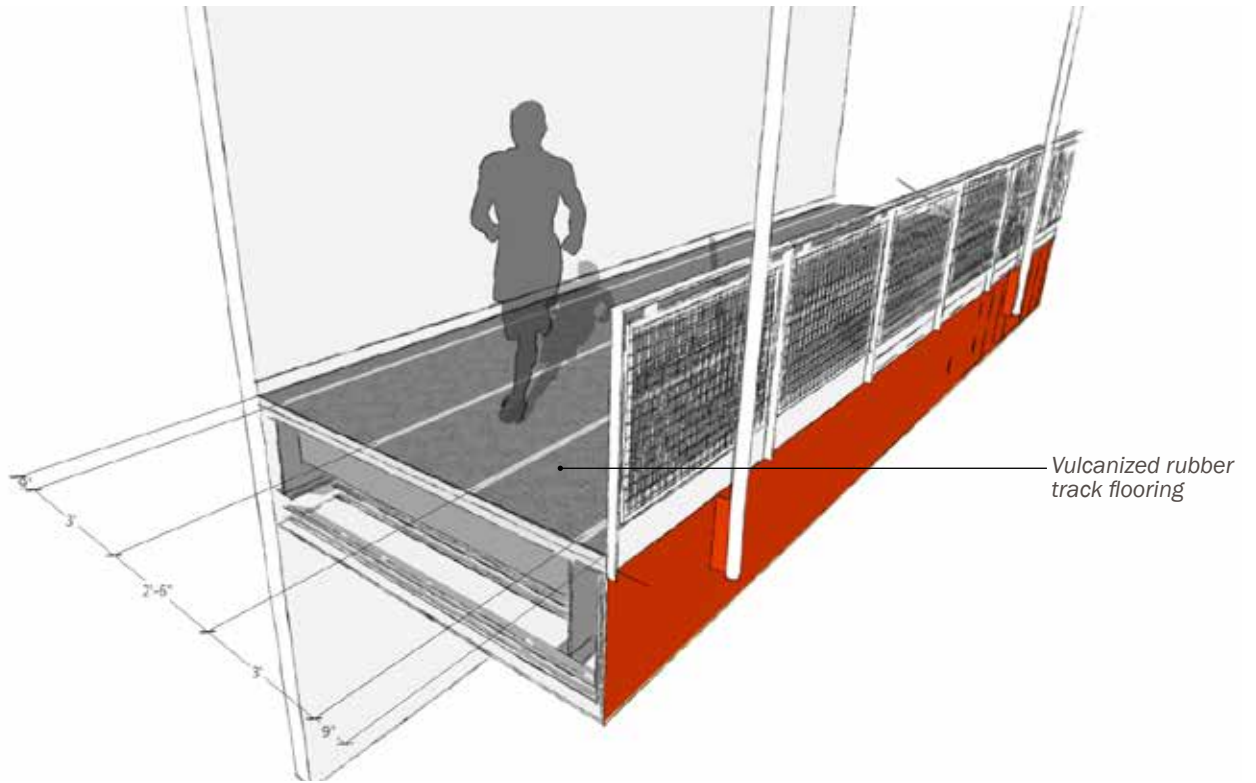
- HVAC** Standard mechanical heating/cooling.
- Plumbing** Drinking fountain with possible bottle filling station in close proximity.
- Electrical** Floor outlets as required at equipment locations and around floor perimeter.
- Lighting** Coordinate with gymnasium lighting
- Audio / Visual** Yes. Zoned audio and PA systems
- Computer** WiFi throughout
- Telephone** No
- Access Control** No
- Acoustics** Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
- Special Systems**

EQUIPMENT

- Fixed**
- Movable**

SPECIAL COMMENTS Elevated running track overlooking the free weight gymnasium and fitness area. Provide as many windows as possible on exterior walls. Natural Light / Views. (1-2) Clock(s)

SPACE DIAGRAM



BUILT EXAMPLE *Arizona State University (HOK)*

Auburn University (HOK)



AREA Recreational Court Space

ROOM Racquetball Court

FUNCTIONAL DESCRIPTION Court to play racquetball

ADJACENCY None

DIMENSIONAL REQUIREMENTS

- Net Program Area** 800 square feet
- Minimum Dimensions** 20'-0" x 40'-0"
- Minimum Heights** Minimum 20'-0" clear to ceiling

OCCUPANCY

- Access** Multiple access points.
- Users** TBD
- Security** TBD
- Numbers** Approximately 1-4

ARCHITECTURAL

- Floor** Hardwood Athletic Flooring.
- Walls** Smooth durable material (impact resistant wall panels). One end of court to feature an athletic, tempered glass wall
- Ceiling** Gypsum ceiling
- Doors** Glass door in glass wall
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling.

Plumbing No

Electrical No

- Lighting** Fluorescent or LED fixtures.
- Audio / Visual** Speakers for Zoned PA system

Computer WiFi

Telephone No

Access Control TBD

Acoustics No

Special Systems

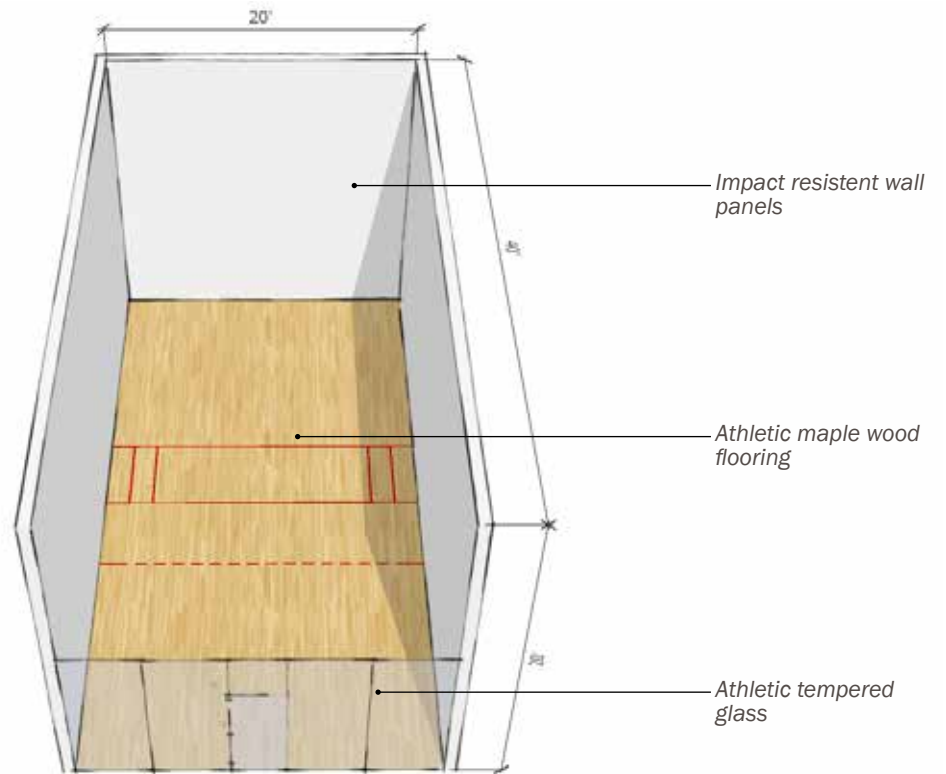
EQUIPMENT

- Fixed**

- Movable**

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE University of Central Arkansas (HOK)



AREA Administration

ROOM Reception & Waiting Area

FUNCTIONAL DESCRIPTION Reception and waiting area for the Administrative Suite

ADJACENCY Near Entry Lobby. Connected to Administrative Suite, Restrooms

DIMENSIONAL REQUIREMENTS
Net Program Area 250 square feet
Minimum Dimensions 12'-6" x 20'-0"
Minimum Heights High ceilings not required for this space

OCCUPANCY
Access Two control entry points.
Users All
Security Lockable after open hours
Numbers 3-4 plus Receptionist

ARCHITECTURAL
Floor Carpet Tile
Walls Gypsum or Masonry walls with applied or integrated acoustic treatments
Ceiling Acoustical suspended ceiling or gypsum
Doors Aluminum and glass double doors in storefront system to facilitate equipment access
Windows Yes. Interior aluminum storefront to maximize visibility and connection to admin suite or recreation facility
SYSTEMS
HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space

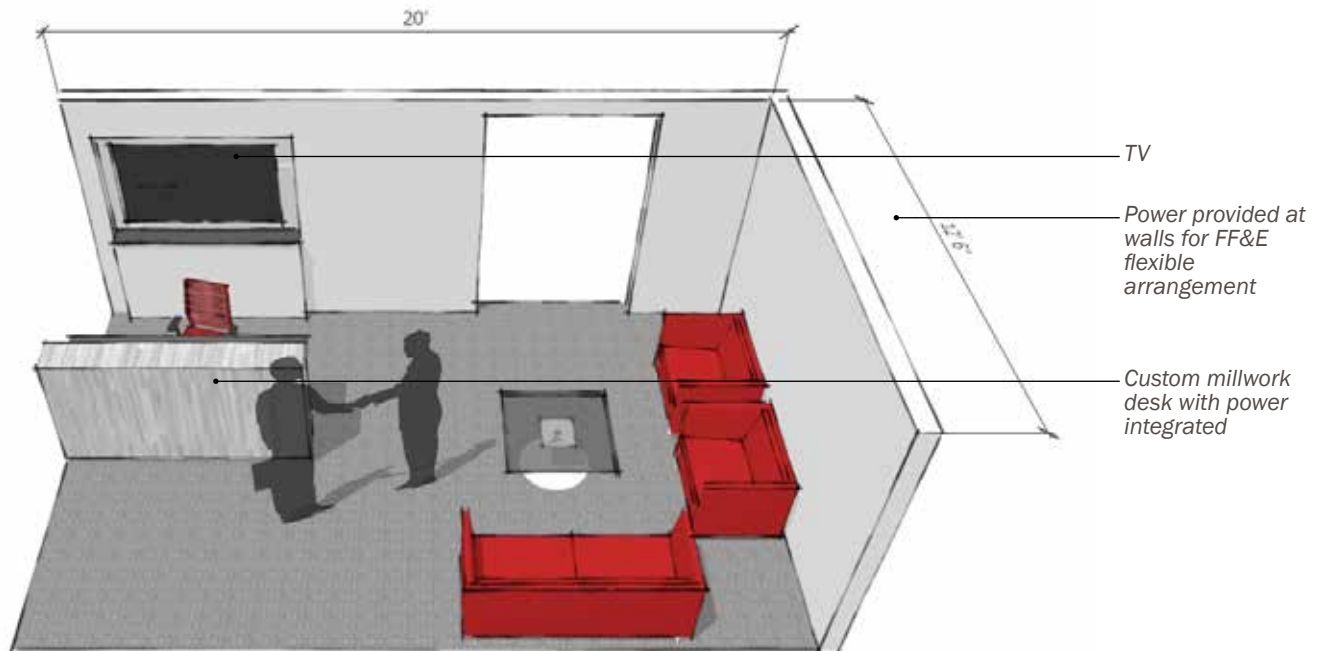
Plumbing No
Electrical Wall outlets on perimeter and floor. Integrated into receptionist desk

Lighting Recessed Fluorescent.
Audio / Visual Yes. CCTV
Computer Yes. WiFi
Telephone Yes
Access Control Possible to have key card access or card verification capabilities to access this space
Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption
Special Systems

EQUIPMENT
Fixed Millwork receptionist desk and workstations with lockable wall + base storage cabinets
Movable Comfortable seating for 3 to 4 people

SPECIAL COMMENTS Provide as many windows as possible on exterior walls and rest of recreation facility Natural Light / Views.

SPACE DIAGRAM



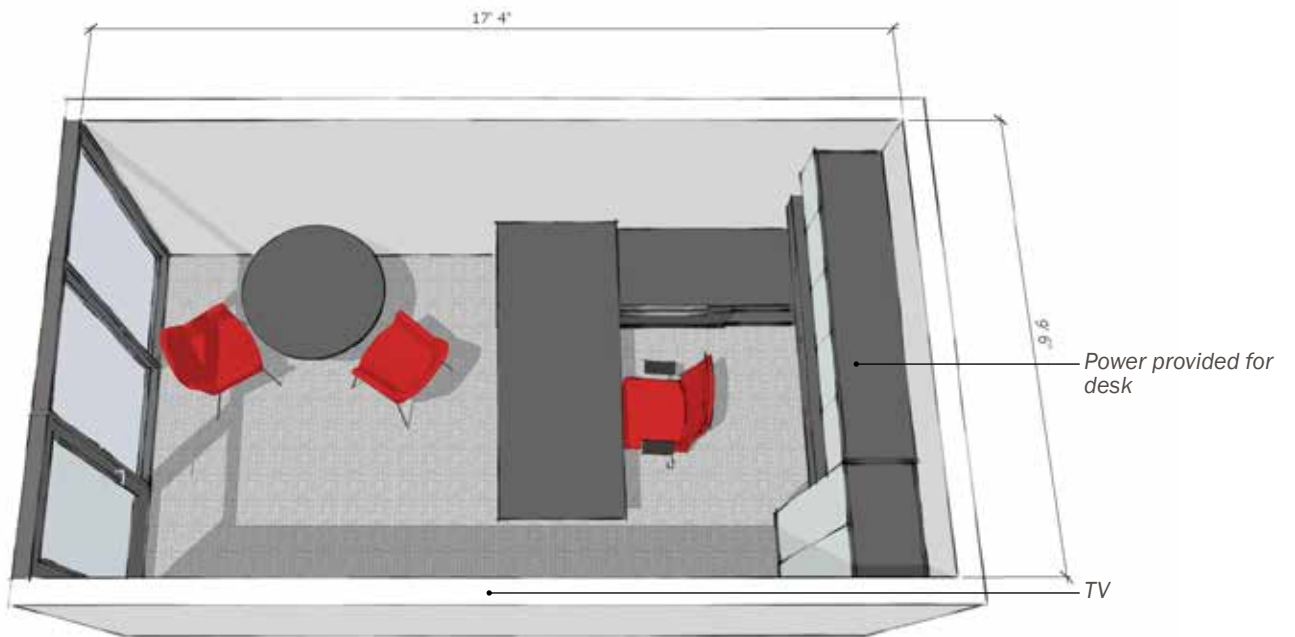
BUILT EXAMPLE *University of Nebraska-Lincoln (HOK)*



AREA Administration
ROOM Director's Office

FUNCTIONAL DESCRIPTION	Private Office for Recreation Director
ADJACENCY	Located within Administrative Suite. Overlooks Open Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 165 square feet</p> <p>Minimum Dimensions 9'-6" x 17'-4"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 1 or 2</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Aluminum and glass door or a wood door</p> <p>Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office.</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual (1) TV</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Marker Board</p> <p>Movable Office Desk Credenza Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



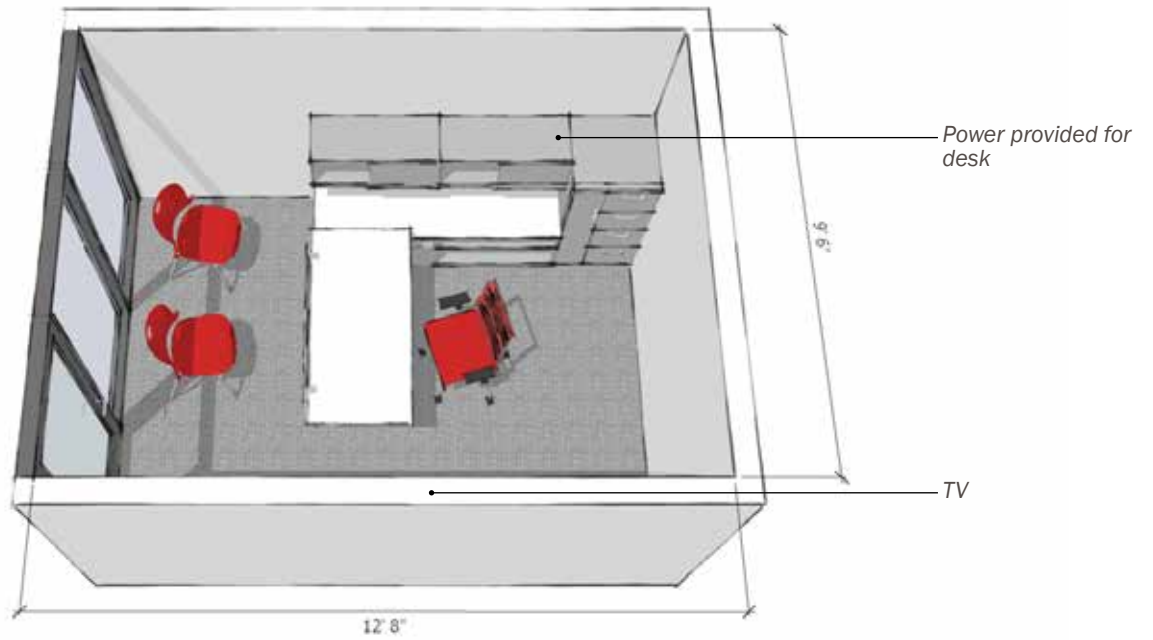
BUILT EXAMPLE Auburn University (HOK)



AREA Administration
ROOM Associate Directors' Offices

FUNCTIONAL DESCRIPTION	(5) Private Offices for Associate Directors
ADJACENCY	Located within Administrative Suite. Overlooks Open Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 120 square feet each</p> <p>Minimum Dimensions 9'-6" x 12'-8"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 1 or 2</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Aluminum and glass door or a wood door</p> <p>Windows Yes. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office.</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter. Power</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual (1) TV per office</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed</p> <p>Movable Office Desk Credenza Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



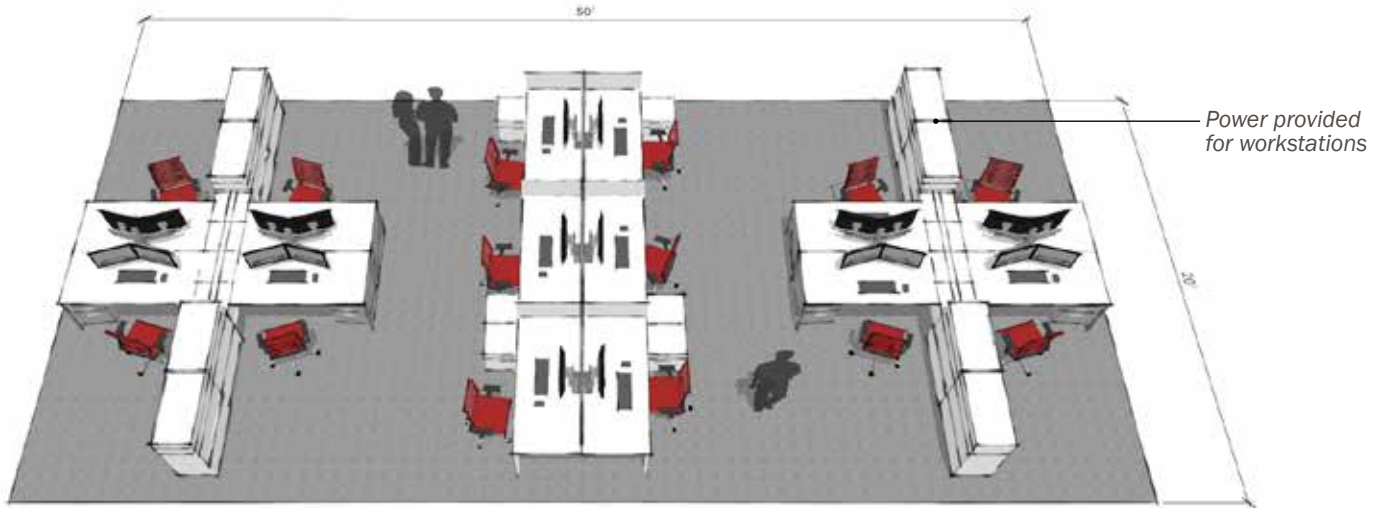
BUILT EXAMPLE AMC Headquarters (HOK)



AREA Administration
ROOM Open Office Area

FUNCTIONAL DESCRIPTION	Open office area for various administrative assistants and student staff.
ADJACENCY	Core area of Administrative Suite and central to private admin offices and work rooms
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 1,000 square feet</p> <p>Minimum Dimensions 25'-0" x 40'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Open</p> <p>Users Recreation professional staff</p> <p>Security No</p> <p>Numbers Approximately 12 to 15</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls None</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors No</p> <p>Windows TBD</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter and floor.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual Yes. Television</p> <p>Computer Yes. Flexible for various office furniture layouts</p> <p>Telephone Yes. Flexible for various office furniture layouts</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter lockable storage cabinets on perimeter</p> <p>Movable (15) Office Desk (30) Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE AMC Headquarters (HOK)



AREA Administration
ROOM Breakout Workspace

FUNCTIONAL DESCRIPTION Semi private enclosed space for informal meetings.

ADJACENCY Located within Administrative Suite and a feature area in the Communal Work Area

DIMENSIONAL REQUIREMENTS
Net Program Area 160 square feet
Minimum Dimensions 10'-6" x 15'-6"
Minimum Heights High ceilings not required for this space

OCCUPANCY
Access Open
Users Recreation professional staff
Security No
Numbers 2-3

ARCHITECTURAL
Floor Carpet Tile
Walls Gypsum or Masonry walls with applied or integrated acoustic treatments
Ceiling Acoustical suspended ceiling or gypsum
Doors No
Windows No

SYSTEMS
HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space

Plumbing No
Electrical Wall outlets on perimeter and floor. Integrate power into table.

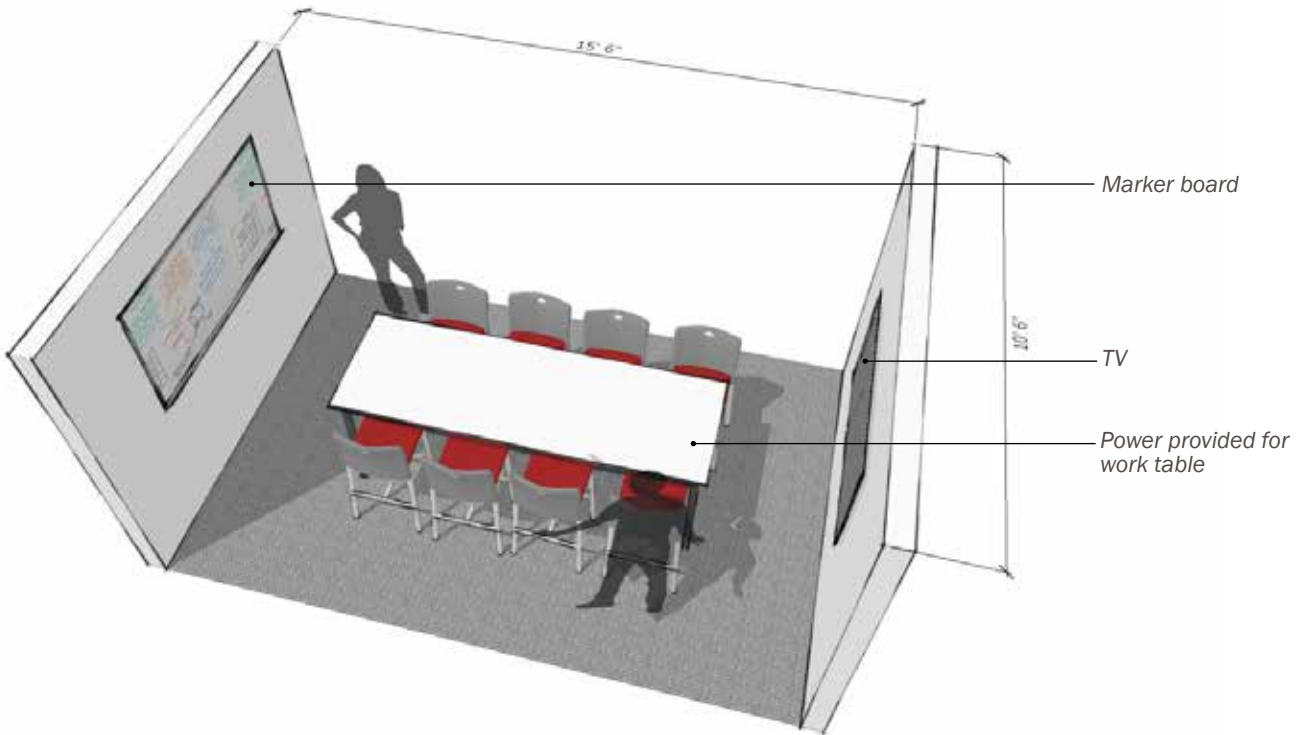
Lighting Recessed Fluorescent.
Audio / Visual Yes. Television
Computer No.
Telephone No
Access Control -
Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption

Special Systems

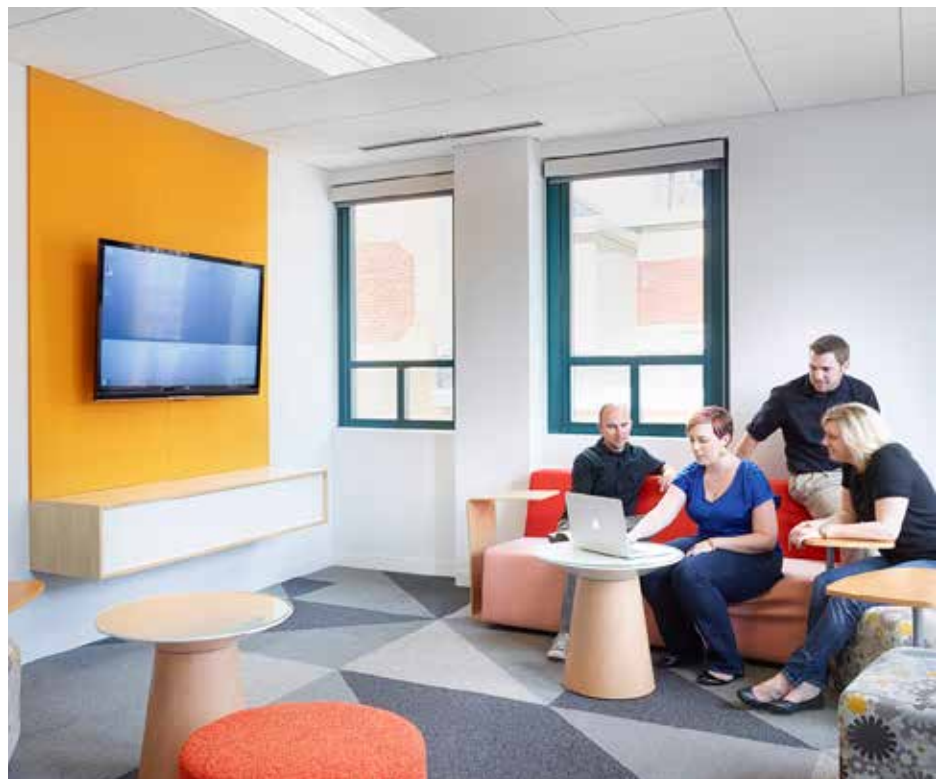
EQUIPMENT
Fixed Marker board
Movable Comfortable seating and table

SPECIAL COMMENTS Provide as many windows as possible on exterior walls.
 Natural Light / Views.

SPACE DIAGRAM



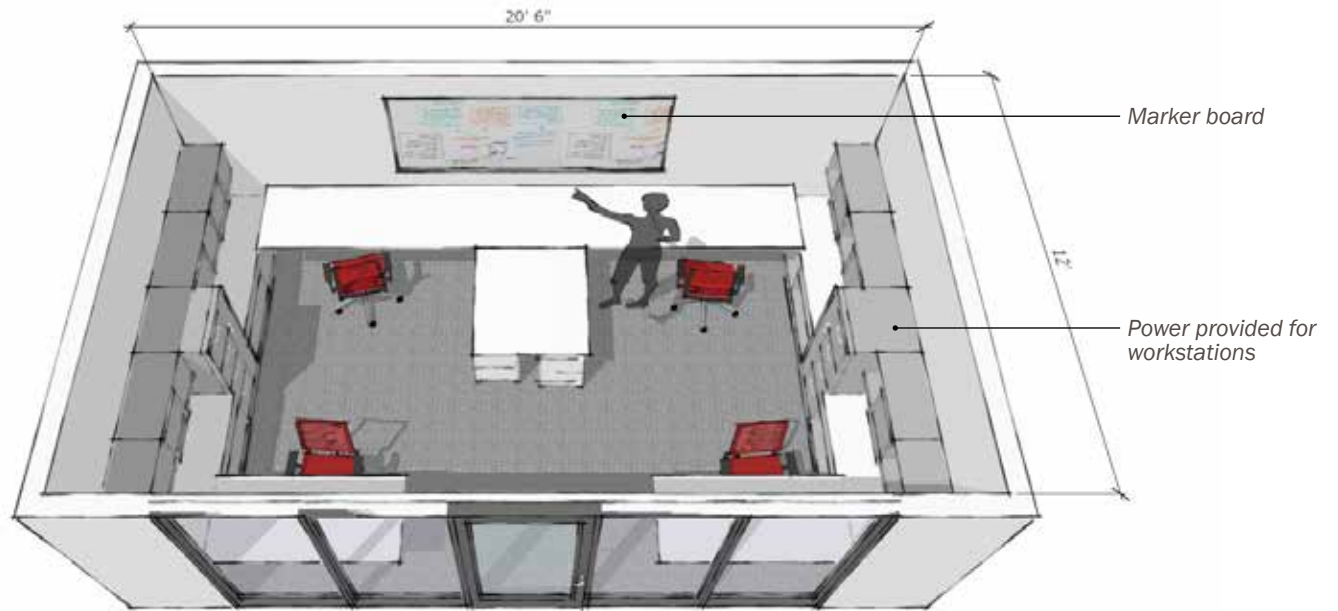
BUILT EXAMPLE *DST (HOK)*



AREA Administration
ROOM Group Office Suite

FUNCTIONAL DESCRIPTION	Private working suite for select division of recreation department
ADJACENCY	Located within Administrative Suite. Overlooks Open Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 250 square feet</p> <p>Minimum Dimensions 12'-0" x 20'-10"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Recreation professional staff</p> <p>Security Lockable after open hours</p> <p>Numbers 4-5 people</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments. Interior aluminum storefront to maximize visibility and connection to admin suite or recreation facility</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal or wood door. Possibly aluminum or glass door in interior storefront</p> <p>Windows Yes, if possible</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter and floor.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TV</p> <p>Computer Yes.</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Marker board</p> <p>Movable Workstations, (6) Chairs, Filing Cabinets</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE ACCELERATED VISION (HOK)

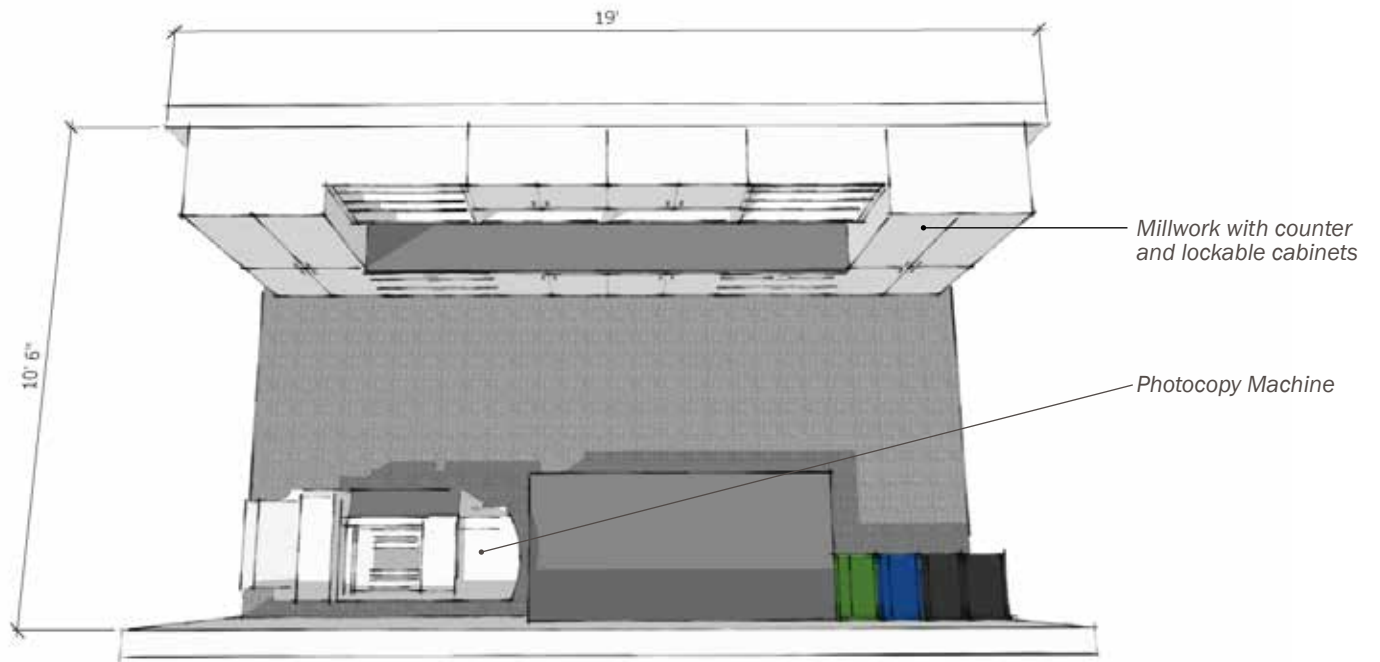


AREA Administration

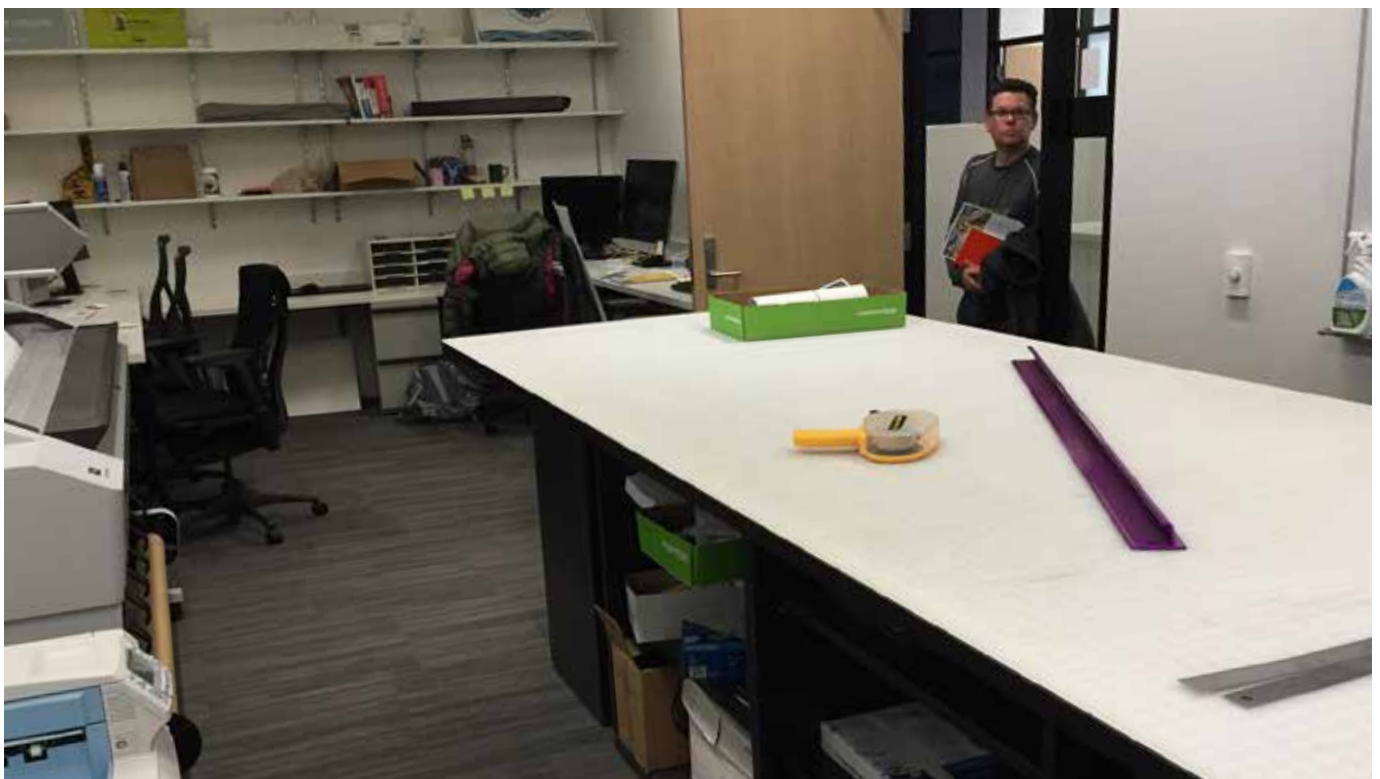
ROOM Workroom

FUNCTIONAL DESCRIPTION	Work and copy area for recreation administrative staff
ADJACENCY	Located within Administrative Suite. Overlooks Open Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 200 square feet</p> <p>Minimum Dimensions 12'-0" x 16'-8"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Recreation professional staff</p> <p>Security Lockable after open hours</p> <p>Numbers 3-4 people</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal or wood door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter and floor.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TV</p> <p>Computer Yes.</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with lockable wall + base storage cabinets</p> <p>Movable Photocopy Machine</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

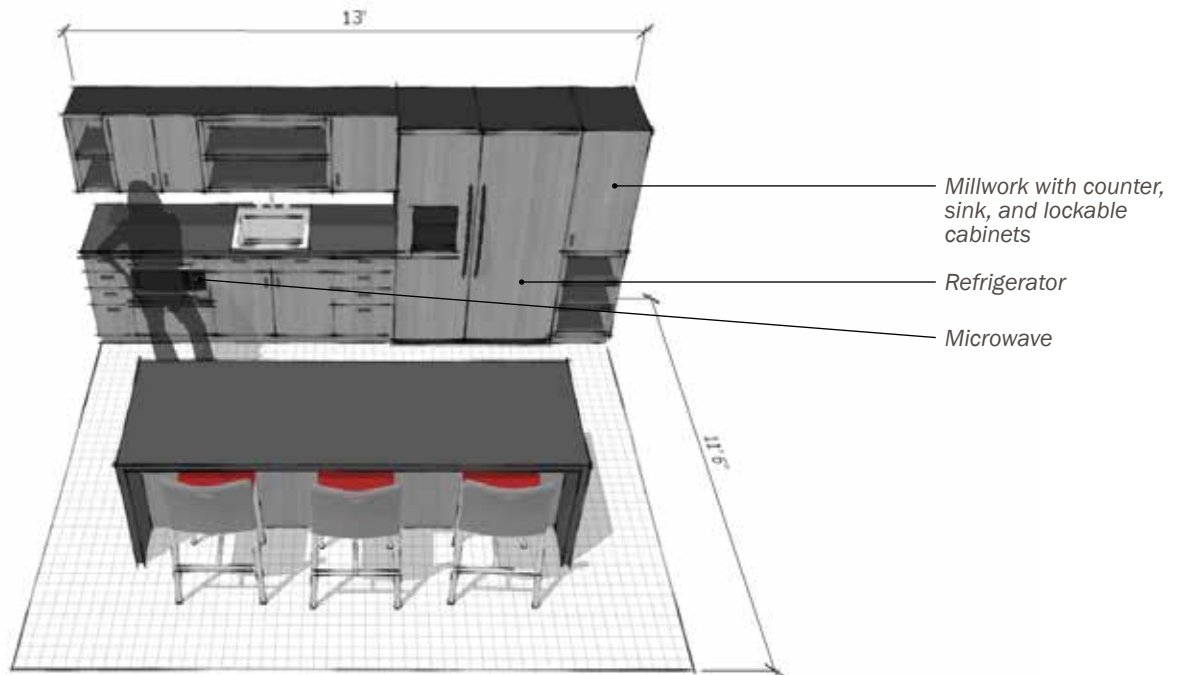


AREA Administration

ROOM Professional Staff Breakroom

FUNCTIONAL DESCRIPTION	Lounge, breakroom, and kitchen area for staff. Has to be determined if this room will be for professional staff or student staff or both
ADJACENCY	Located within Administrative Suite. Near Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 200 square feet</p> <p>Minimum Dimensions 12'-0" x 16'-8"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access TBD</p> <p>Users TBD. Recreational Professional Staff or Student Staff or Both</p> <p>Security Lockable after open hours</p> <p>Numbers 5-6 People</p>
ARCHITECTURAL	<p>Floor TBD. Carpet Tile or Procelain Tile</p> <p>Walls TBD</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors TBD</p> <p>Windows Yes, if possible. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing Dishwasher connections, refrigerator water connections, standard 2 compartment sink.</p> <p>Electrical Wall outlets on perimeter and floor. Integrate power into table</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with sink and lockable wall + base storage cabinets KeyWatcher Security Box</p> <p>Movable Refrigerator, Microwave, Coffee Maker Tables and Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE Valorem (HOK)

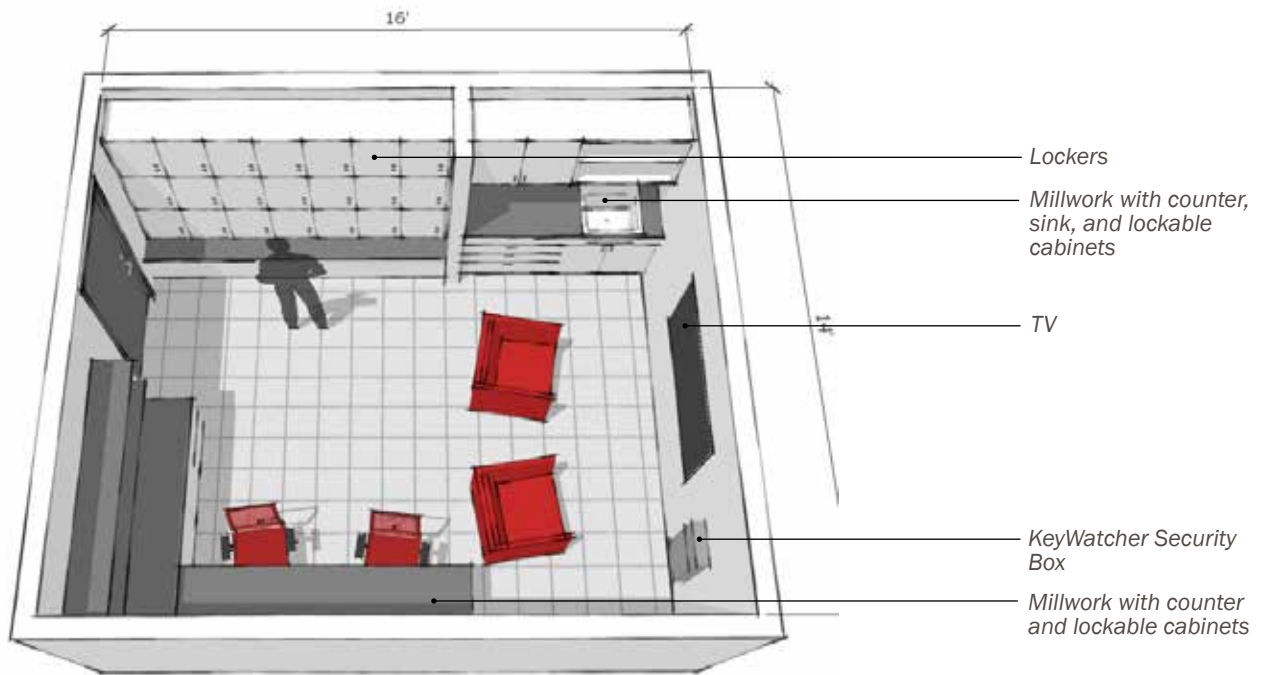


AREA Administration

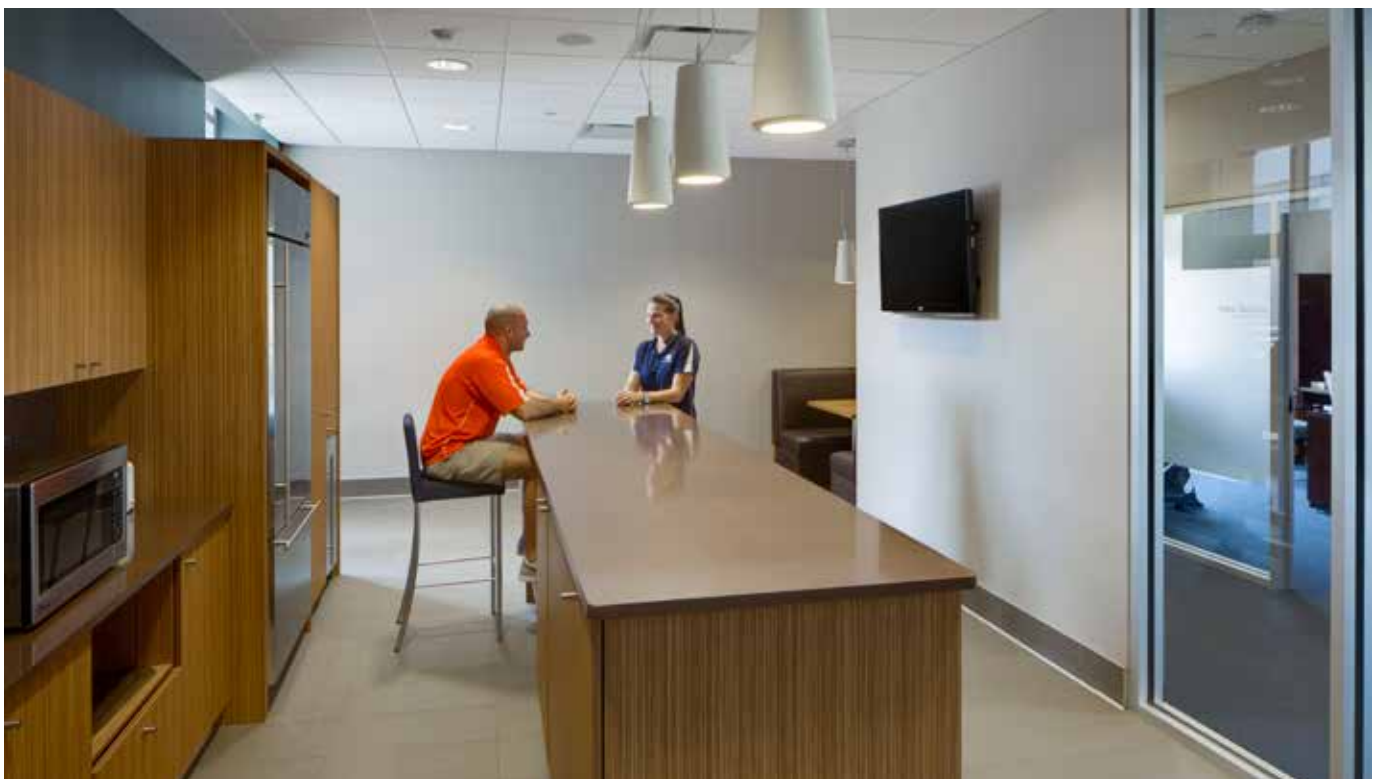
ROOM Student Staff Breakroom

FUNCTIONAL DESCRIPTION	Lounge, breakroom, and kitchen area for staff. Has to be determined if this room will be for professional staff or student staff or both
ADJACENCY	Located within Administrative Suite. Near Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 200 square feet</p> <p>Minimum Dimensions 12'-0" x 16'-8"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access TBD</p> <p>Users TBD. Recreational Professional Staff or Student Staff or Both</p> <p>Security Lockable after open hours</p> <p>Numbers 5-6 People</p>
ARCHITECTURAL	<p>Floor TBD. Carpet Tile or Procelain Tile</p> <p>Walls TBD</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors TBD</p> <p>Windows Yes, if possible. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing Dishwasher connections, refrigerator water connections, standard 2 compartment sink.</p> <p>Electrical Wall outlets on perimeter and floor.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TV</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with sink and lockable wall + base storage cabinets KeyWatcher Security Box</p> <p>Movable Refrigerator, Microwave, Coffee Maker Tables and Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)



AREA Administration

ROOM Staff Restroom w/ Shower

FUNCTIONAL DESCRIPTION Restrooms located directly off of the Administrative Suite

ADJACENCY Directly off of or near pool deck

DIMENSIONAL REQUIREMENTS

- Net Program Area** Mens and Womens at 125 square feet each
- Minimum Dimensions** 12'-2" x 8'-0"
- Minimum Heights** High ceiling not required for this space.

OCCUPANCY

- Access** Single control point entry.
- Users** Recreation Staff - Professional and Student
- Security** No
- Numbers** 2

ARCHITECTURAL

- Floor** Tile
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments.
- Ceiling** Acoustical suspended ceiling or gypsum.
- Doors** Metal Door
- Windows** No

SYSTEMS

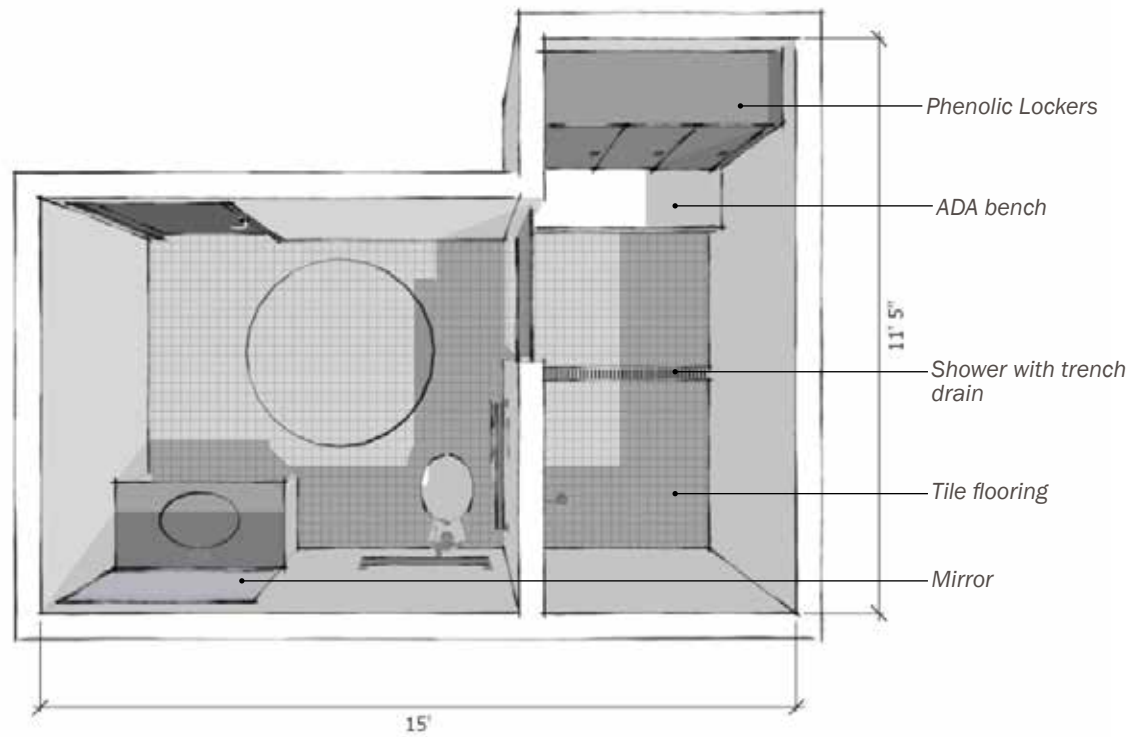
- HVAC** Standard mechanical heating/cooling. Exhaust.
- Plumbing** Standard plumbing (water closet, lavatory, floor drain).
- Electrical** Convenience wall outlets as required around perimeter.
- Lighting** Recessed Fluorescent.
- Audio / Visual** No
- Computer** No
- Telephone** No
- Access Control** Accessible at all hours
- Acoustics** Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
- Special Systems**

EQUIPMENT

- Fixed** Mens: (1) Water Closet; (1) Lavatories; (1) Shower; Phenolic Lockers
 Womens: (1) Water Closet; (1) Lavatories; (1) Shower; Phenolic Lockers
- Movable** -

SPECIAL COMMENTS -

SPACE DIAGRAM



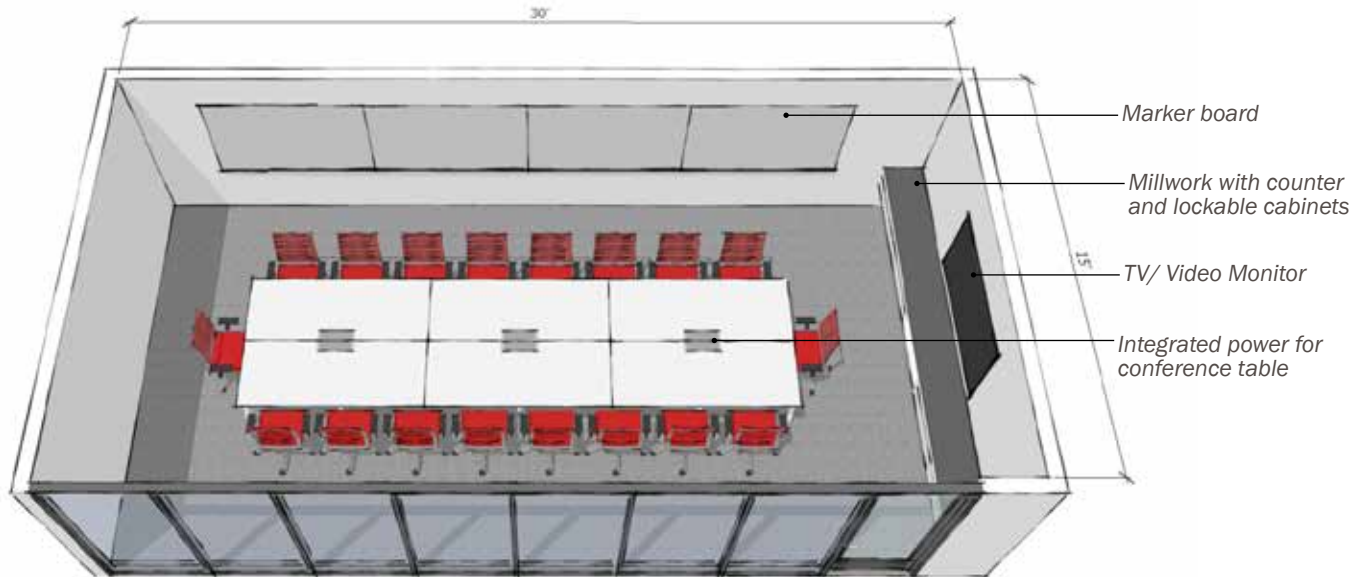
BUILT EXAMPLE Auburn University at Montgomery (HOK)



AREA Administration
ROOM Conference Room

FUNCTIONAL DESCRIPTION	Conference room for recreation staff with a capacity of 12-14 people
ADJACENCY	Located within Administrative Suite. Overlooks Open Communal Work Area
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 450 square feet</p> <p>Minimum Dimensions 15'-0" x 30'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users Recreation professional staff</p> <p>Security Lockable after open hours</p> <p>Numbers 16 - 20 people</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Gypsum or Masonry walls with applied or integrated acoustic treatments. Interior aluminum storefront to maximize visibility and connection to administration suite.</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Aluminum and glass door or a wood door</p> <p>Windows Yes, if possible. Maximize views and natural daylight. Evaluate for possible movable shading devices or translucent glazing for control of direct sun glare</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Wall outlets on perimeter and floor. Integrate power into table</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual Yes. Satellite and/or cable access required. Video flat screen panels or projector. Ability to host video or conference calls.</p> <p>Computer Yes. Service integrated into meeting table</p> <p>Telephone Yes</p> <p>Access Control -</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with lockable storage cabinets Marker board(s)</p> <p>Movable (1) Meeting Table (20) Chairs</p>
SPECIAL COMMENTS	Provide as many windows as possible on exterior walls. Natural Light / Views.

SPACE DIAGRAM



BUILT EXAMPLE *Utah State University (HOK)*



**14L2T Southeast Recreation Facility Replacement
Program Statement**

AREA Administration
ROOM Administration Storage

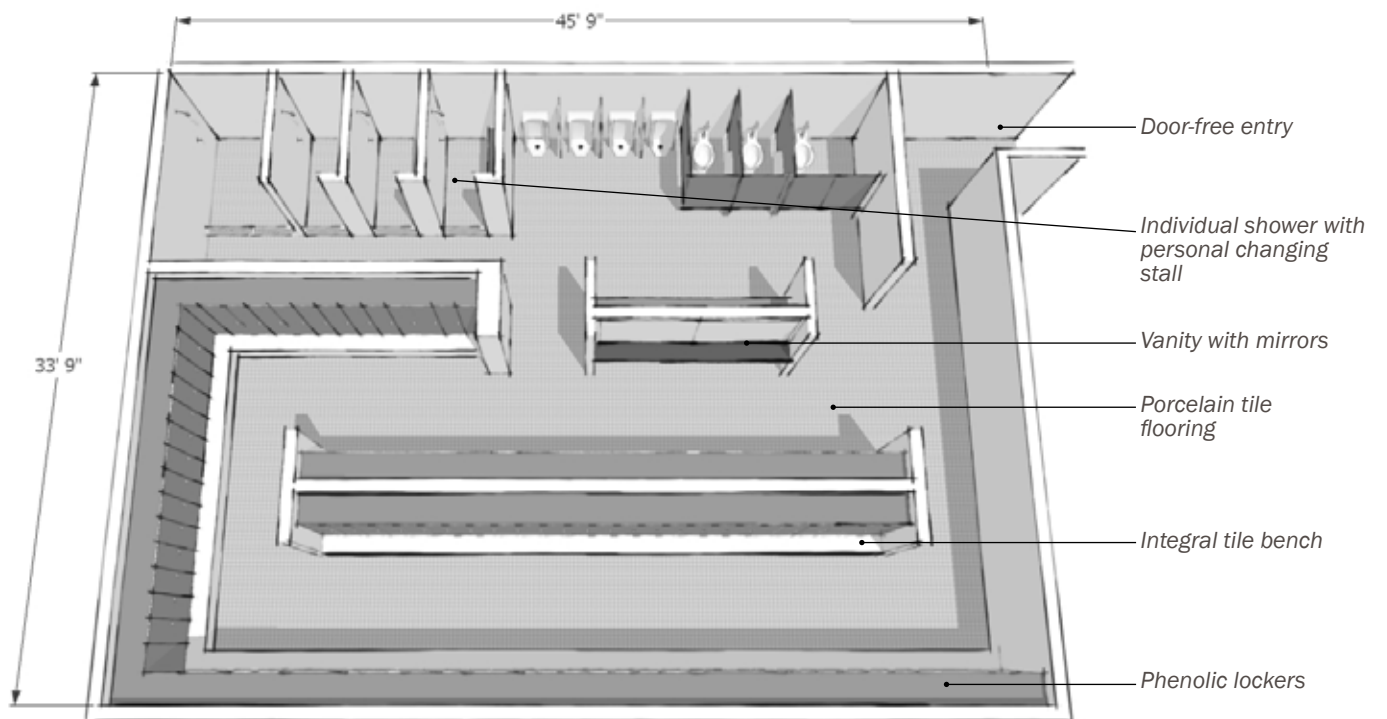
FUNCTIONAL DESCRIPTION	General storage room in the Administration area
ADJACENCY	Directly connected to Wet Classroom
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 120 square feet</p> <p>Minimum Dimensions 10'-0" x 12'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users Lockable</p> <p>Security TBD</p> <p>Numbers Not Occupied</p>
ARCHITECTURAL	<p>Floor Carpet Tile</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling None</p> <p>Doors Metal Door</p> <p>Windows None</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for each office space</p> <p>Plumbing No</p> <p>Electrical Wall Outlets as required around perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Storage shelving</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Locker Rooms

ROOM Level 1 Locker Rooms: Men's Locker Room

FUNCTIONAL DESCRIPTION	Locker rooms located on Level 1 of the facility near the Natatorium. Lockers are to be rentable and expandable but opening connection to adjacent Team Locker Rooms
ADJACENCY	Directly connected to Team Locker Rooms and near Pool Deck
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 1,400 square feet each</p> <p>Minimum Dimensions Varies. Close to 40'-0" x 50'-0" to 32'-0" x 62'-6"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Access off of main circulation and from pool deck area</p> <p>Users TBD</p> <p>Security None</p> <p>Numbers TBD</p>
ARCHITECTURAL	<p>Floor Tile</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish</p> <p>Ceiling Acoustical wet location suspended ceiling and gypsum</p> <p>Doors Metal Doors</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.</p> <p>Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains</p> <p>Electrical Wall outlets as required around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual Speakers for Zoned PA system</p> <p>Computer No WiFi in locker room</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Mens: (4) Private Showers; (7) Water Closets; (3) Lavatories; (108) Phenolic Lockers Womens: (4) Private Showers; (7) Water Closets; (3) Lavatories; (108) Phenolic Lockers Swimsuit Dryer Bench seats in locker area</p>
SPECIAL COMMENTS	<i>Locker Room to be adjacent to Team Locker Rooms and have the ability to open up to and also be closed off from them.</i>

SPACE DIAGRAM



BUILT EXAMPLE *University of Nebraska-Lincoln (HOK)*

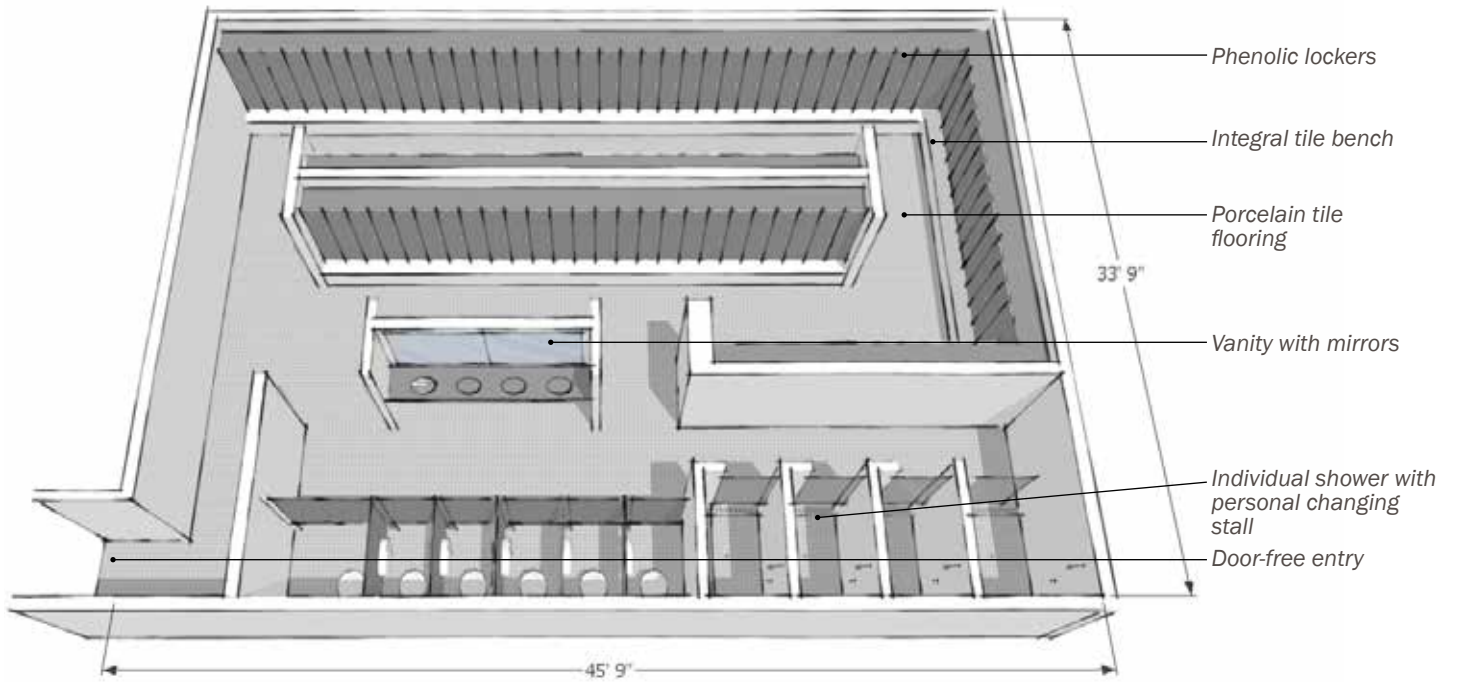


AREA Locker Rooms

ROOM Level 1 Locker Rooms: Women’s Locker Room

FUNCTIONAL DESCRIPTION	Locker rooms located on Level 1 of the facility near the Natatorium. Lockers are to be rentable and expandable but opening connection to adjacent Team Locker Rooms
ADJACENCY	Directly connected to Team Locker Rooms and near Pool Deck
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 1,400 square feet each</p> <p>Minimum Dimensions Varies. Close to 40’-0” x 50’-0” to 32’-0” x 62’-6”</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Access off of main circulation and from pool deck area</p> <p>Users TBD</p> <p>Security None</p> <p>Numbers TBD</p>
ARCHITECTURAL	<p>Floor Tile</p> <p>Walls Masonry or suitable durable material with ceramic tile & paint finish</p> <p>Ceiling Acoustical wet location suspended ceiling and gypsum</p> <p>Doors Metal Doors</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.</p> <p>Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains</p> <p>Electrical Wall outlets as required around perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual Speakers for Zoned PA system</p> <p>Computer No WiFi in locker room</p> <p>Telephone No</p> <p>Access Control No</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Mens: (4) Private Showers; (7) Water Closets; (3) Lavatories; (108) Phenolic Lockers Womens: (4) Private Showers; (7) Water Closets; (3) Lavatories; (108) Phenolic Lockers Swimsuit Dryer Bench seats in locker area</p>
SPECIAL COMMENTS	<i>Locker Room to be adjacent to Team Locker Rooms and have the ability to open up to and also be closed off from them.</i>

SPACE DIAGRAM



BUILT EXAMPLE *University of Portland (HOK)*



AREA Locker Rooms

ROOM Level 1 Locker Rooms: Unisex / Special Needs Locker Room

FUNCTIONAL DESCRIPTION Private Unisex changing rooms with showers, lavatories, and water closets located on Level 1 near the Natatorium. Space to also have open locker area.

ADJACENCY Near Recreation Natatorium Locker Room

DIMENSIONAL REQUIREMENTS

- Net Program Area** 425 square feet
- Minimum Dimensions** Variable. 17'-0" x 23'-6"
- Minimum Heights** High ceilings not required for this space

OCCUPANCY

- Access** Two controllable access points
- Users** TBD
- Security** None
- Numbers** TBD

ARCHITECTURAL

- Floor** Tile
- Walls** Masonry or suitable durable material with ceramic tile & paint finish
- Ceiling** Acoustical wet location suspended ceiling and gypsum
- Doors** Metal Doors
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.

Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains

Electrical Wall outlets as required around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual Speakers for Zoned PA system

Computer No WiFi in locker room

Telephone No

Access Control No

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

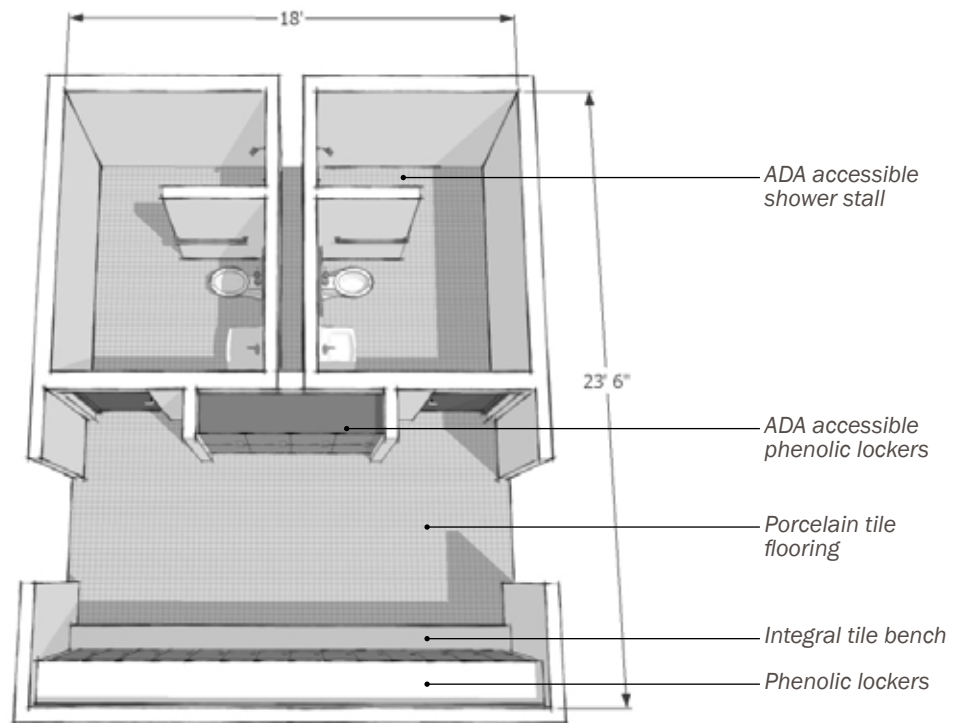
Special Systems

EQUIPMENT

- Fixed** (2) Private Changing Rooms
 (1) Private Showers; (1) Water Closets: (1) Lavatories
 Swimsuit Dryer; (1) ADA bench; Phenolic Lockers

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE YMCA Portage (Unknown)



AREA Locker Rooms

ROOM Level 3 Locker Rooms: Men's Locker Room

FUNCTIONAL DESCRIPTION Locker rooms located on Level 3 of the facility near Gymnasiums

ADJACENCY Close to main vertical circulation stairs

DIMENSIONAL REQUIREMENTS

- Net Program Area** 2,600 square feet each
- Minimum Dimensions** Varies. Close to 40'-0" x 50'-0" to 32'-0" x 62'-6"
- Minimum Heights** High ceilings not required for this space

OCCUPANCY

- Access** Two controlable access points
- Users** TBD
- Security** None
- Numbers** TBD

ARCHITECTURAL

- Floor** Tile
- Walls** Masonry or suitable durable material with ceramic tile & paint finish
- Ceiling** Acoustical wet location suspended ceiling and gypsum
- Doors** Metal Doors
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.

Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains

Electrical Wall outlets as required around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual Speakers for Zoned PA system

Computer No WiFi in locker room

Telephone No

Access Control No

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

Special Systems

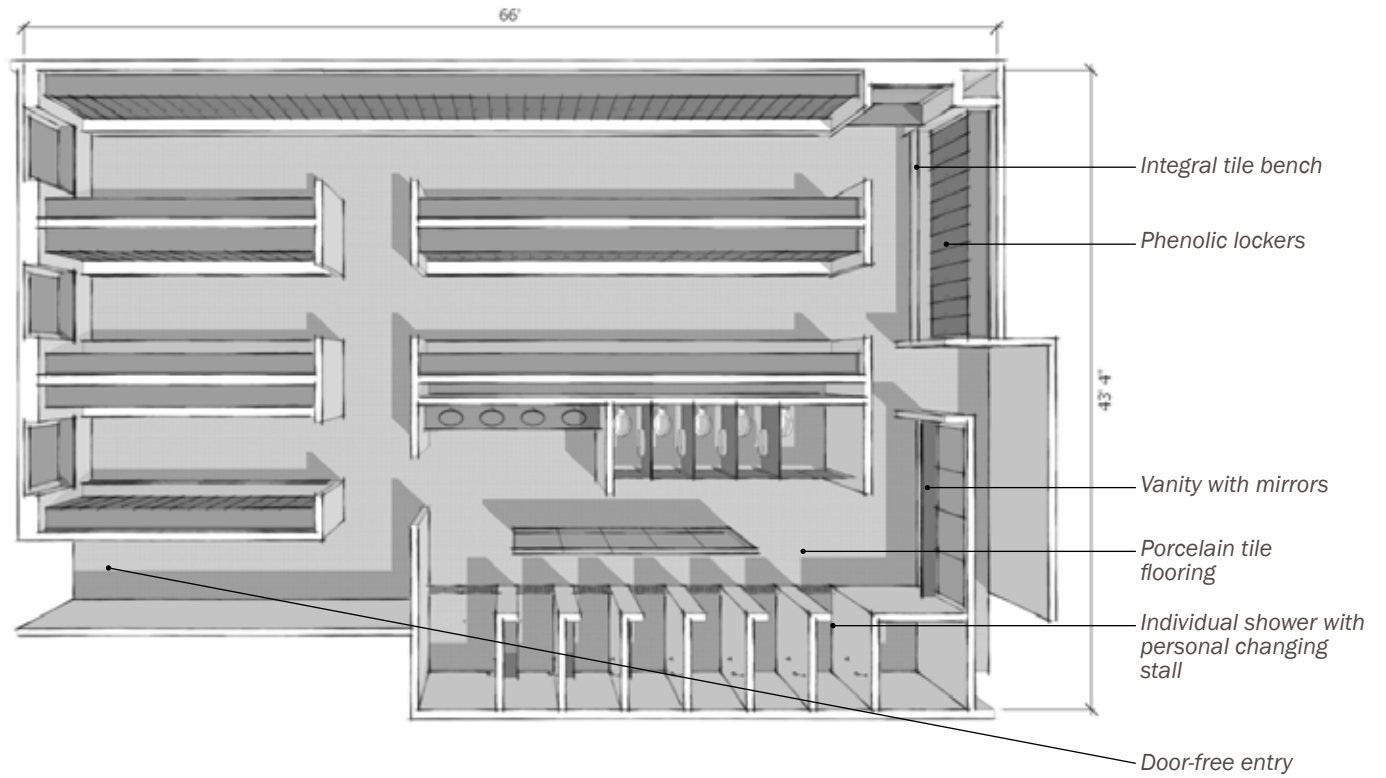
EQUIPMENT

- Fixed** Mens: (7) Private Showers; (5) Water Closets; (4) Lavatories; (203) Phenolic Lockers
 Womens: (7) Private Showers; (5) Water Closets; (4) Lavatories; (203) Phenolic Lockers

Movable Integrated bench at lockers; (1) ADA bench

SPECIAL COMMENTS *Water Closets and Lavatories to be accessible without having to cross through the locker space. Fixtures to serve as this floors restrooms.*

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)

Utah State University (HOK)



AREA Locker Rooms

ROOM Level 3 Locker Rooms: Women’s Locker Room

FUNCTIONAL DESCRIPTION Locker rooms located on Level 3 of the facility near Gymnasiums

ADJACENCY Close to main vertical circulation stairs

DIMENSIONAL REQUIREMENTS

- Net Program Area** 2,600 square feet each
- Minimum Dimensions** Varies. Close to 40’-0” x 50’-0” to 32’-0” x 62’-6”
- Minimum Heights** High ceilings not required for this space

OCCUPANCY

- Access** Two controlable access points
- Users** TBD
- Security** None
- Numbers** TBD

ARCHITECTURAL

- Floor** Tile
- Walls** Masonry or suitable durable material with ceramic tile & paint finish
- Ceiling** Acoustical wet location suspended ceiling and gypsum
- Doors** Metal Doors
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.

Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains

Electrical Wall outlets as required around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual Speakers for Zoned PA system

Computer No WiFi in locker room

Telephone No

Access Control No

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

Special Systems

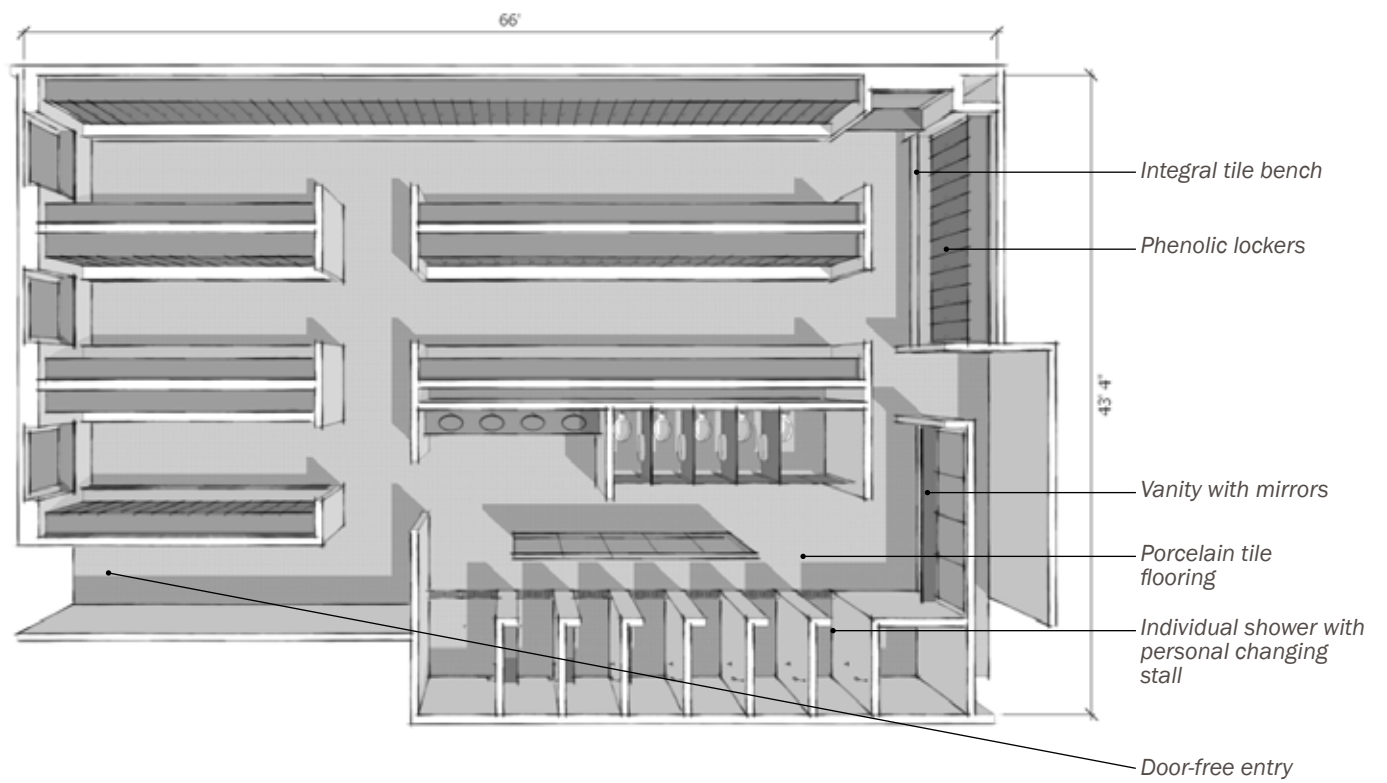
EQUIPMENT

- Fixed** Mens: (7) Private Showers; (5) Water Closets; (4) Lavatories; (203) Phenolic Lockers
 Womens: (7) Private Showers; (5) Water Closets; (4) Lavatories; (203) Phenolic Lockers

Movable Integrated bench at lockers; (1) ADA bench

SPECIAL COMMENTS *Water Closets and Lavatories to be accessible without having to cross through the locker space. Fixtures to serve as this floors restrooms.*

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)

Utah State University (HOK)



AREA Locker Rooms

ROOM Level 3 Locker Rooms: Unisex / Special Needs Locker Room

FUNCTIONAL DESCRIPTION Private Unisex changing rooms with showers, lavatories, and water closets located on Level3 near the Recreation Locker Rooms to also have open locker area.

ADJACENCY Near Recreation Locker Rooms

DIMENSIONAL REQUIREMENTS

- Net Program Area** 425 square feet
- Minimum Dimensions** Variable. 17'-0" x 26'-6"
- Minimum Heights** High ceilings not required for this space

OCCUPANCY

- Access** Two controllable access points
- Users** TBD
- Security** None
- Numbers** TBD

ARCHITECTURAL

- Floor** Tile
- Walls** Masonry or suitable durable material with ceramic tile & paint finish
- Ceiling** Acoustical wet location suspended ceiling and gypsum
- Doors** Metal Doors
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.

Plumbing Standard plumbing fixtures (water closets, lavatories & showers). Floor Drains

Electrical Wall outlets as required around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual Speakers for Zoned PA system

Computer No WiFi in locker room

Telephone No

Access Control No

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.

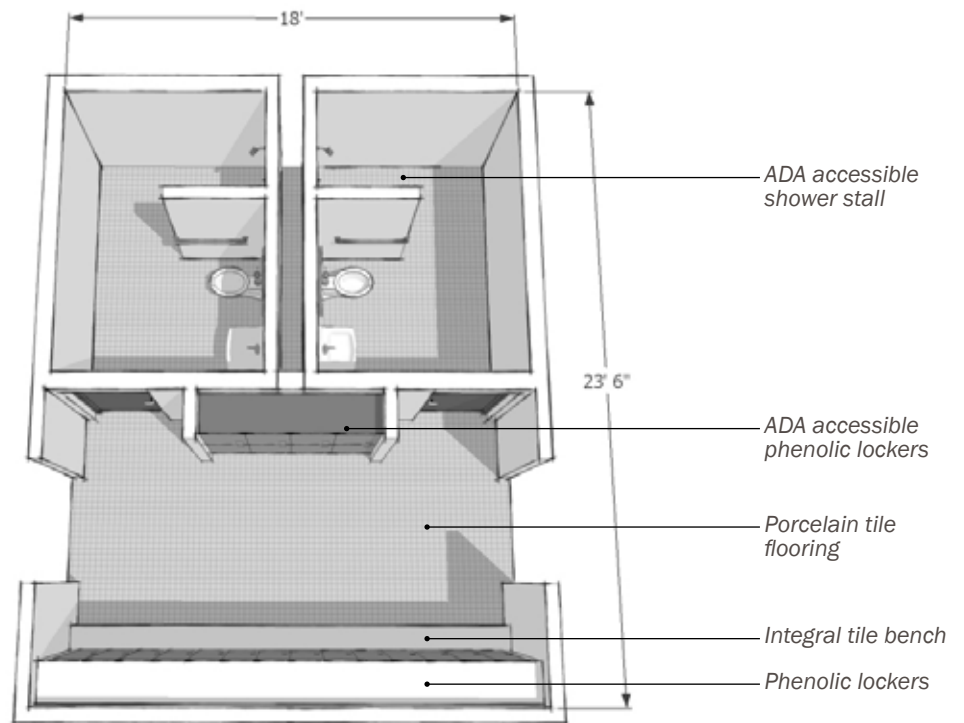
Special Systems

EQUIPMENT

- Fixed** (2) Private Changing Rooms
 (1) Private Showers; (1) Water Closets: (1) Lavatories
 Phenolic Lockers; (1) ADA Bench
- Movable**

SPECIAL COMMENTS

SPACE DIAGRAM



BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*

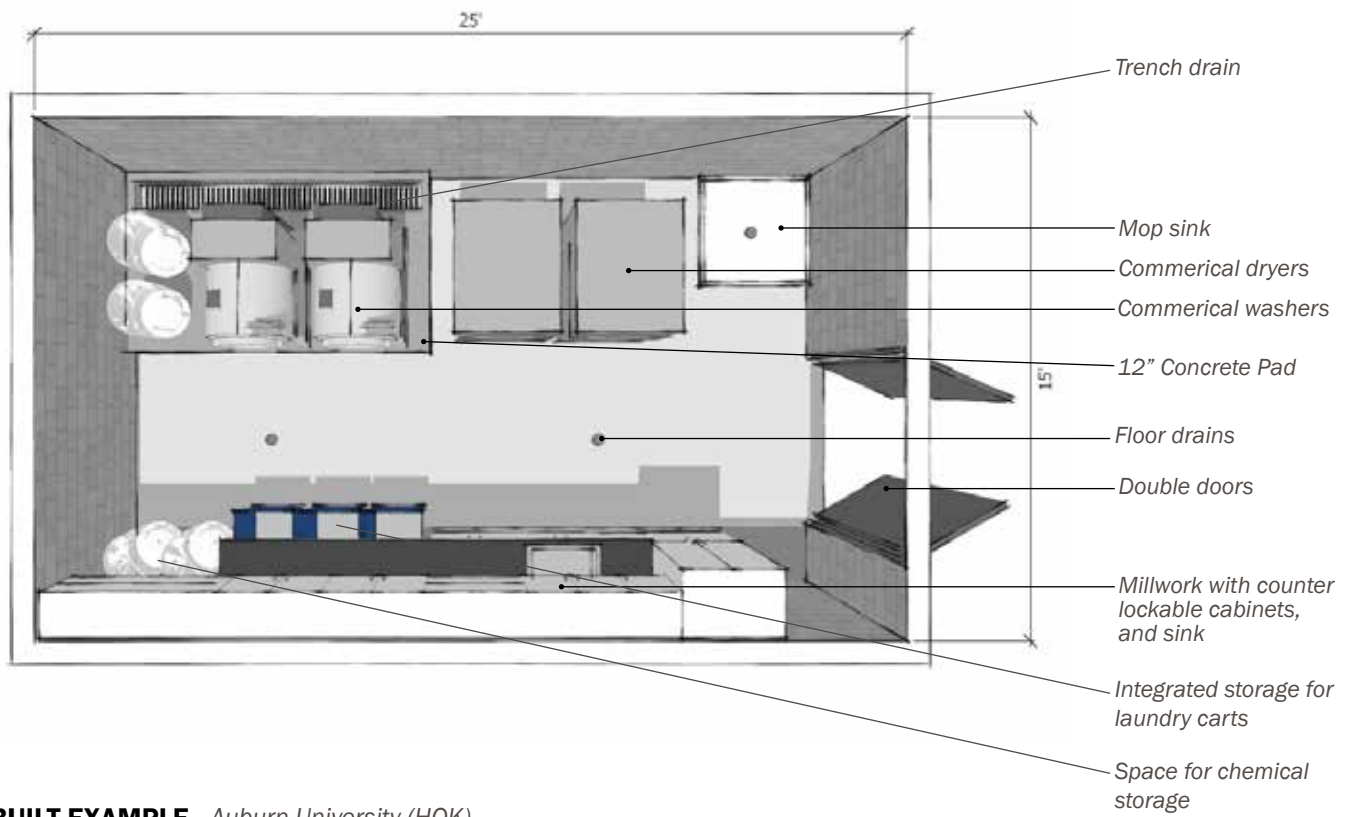


AREA Building Support

ROOM Laundry

FUNCTIONAL DESCRIPTION	Laundry room for recreation operations staff to use for washing towels and intramural sport jerseys
ADJACENCY	Near exterior wall and elevator for delivery/gathering of towels.
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 400 square feet</p> <p>Minimum Dimensions 15'-0" x 26'-8". Key width of the room is 14'-15' for washing units, circulation, and counter</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control entry point</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers Not occupied</p>
ARCHITECTURAL	<p>Floor Sealed Concrete. Equipment on 12" vibration isolating concrete pad. Potential for entire room to be on its own isolated slab.</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Pair of Metal Doors to assist movement of laundry carts and equipment</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Provide exhaust air. Maintain negative airflow pressurization relative to adjacent areas.</p> <p>Plumbing Domestic water connections to washers. Gas connections as required based on clothes dryer type. Floor drains, trench drain with grating behind washing units for drainage, hose bibb. Mop sink</p> <p>Electrical Wall outlets as required at equipment locations and around floor perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone Yes</p> <p>Access Control Possible key card access or card verification capabilities to access this space</p> <p>Acoustics TBD</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Commercial, high capacity, washing and drying units on concrete pads Millwork counter with sink and lockable storage cabinets</p> <p>Movable Laundry carts</p>
SPECIAL COMMENTS	-

SPACE DIAGRAM



BUILT EXAMPLE Auburn University (HOK)



AREA Building Support

ROOM Building Services

FUNCTIONAL DESCRIPTION Service space in the facility to handle loading, receiving, trash, recycling, and building maintenance.

ADJACENCY Exterior connection to east service drive. Near Service Elevator, Maintenance Office, and Equipment Repair

DIMENSIONAL REQUIREMENTS
Net Program Area 1700 square feet
Minimum Dimensions 30'-0" x 56'-0"
Minimum Heights High ceiling preferred for this space.

OCCUPANCY
Access Large overhead door connected to exterior. Large doors connecting to rest of facility
Users TBD
Security Lockable after open hours
Numbers Not occupied

ARCHITECTURAL
Floor Sealed Concrete
Walls Masonry or suitable durable material
Ceiling Exposed
Doors Large metal overhead sectional door (Insulated). Coordinate size and overhead clearance with UW waste disposal vendor.
 Single insulated metal door to exterior for general access

SYSTEMS
HVAC Ventilation and heat only; no cooling.

Plumbing Water service for washdown and floor drain. Mopsink

Electrical Wall outlets as required at equipment locations and around floor perimeter.

Lighting Suspended Fluorescent.

Audio / Visual No

Computer No

Telephone No

Access Control No

Acoustics TBD

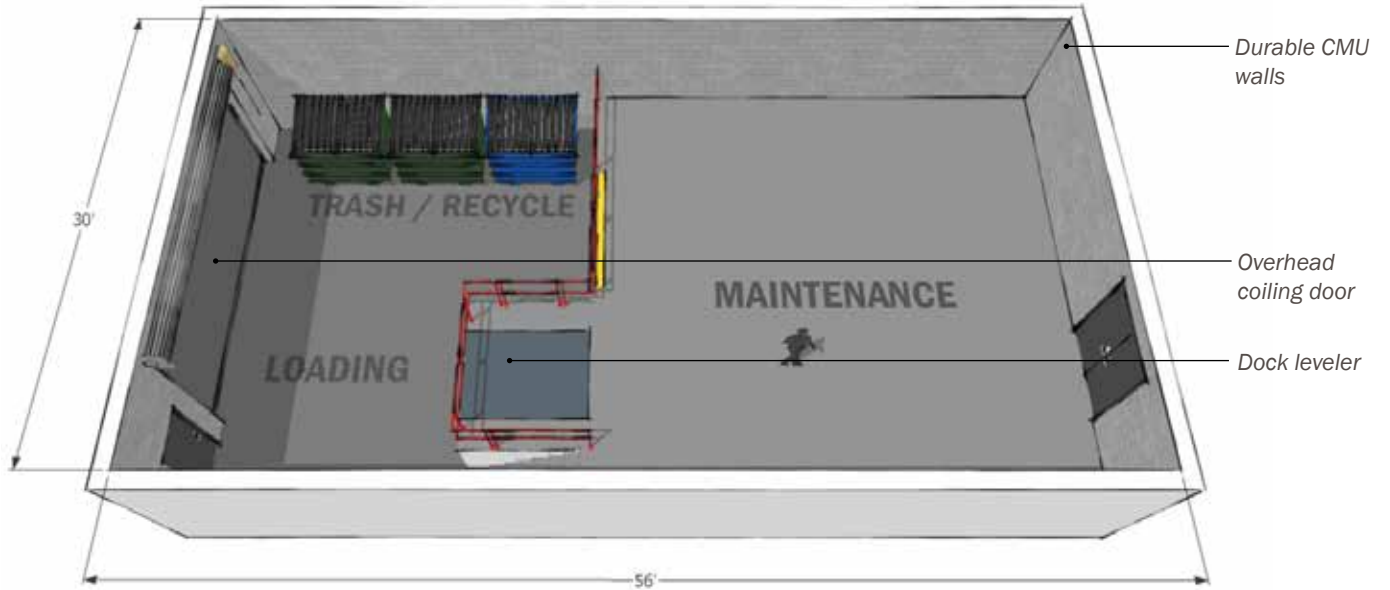
Special Systems

EQUIPMENT
Fixed Dock Leveler. Mop sink

Movable

SPECIAL COMMENTS

SPACE DIAGRAM



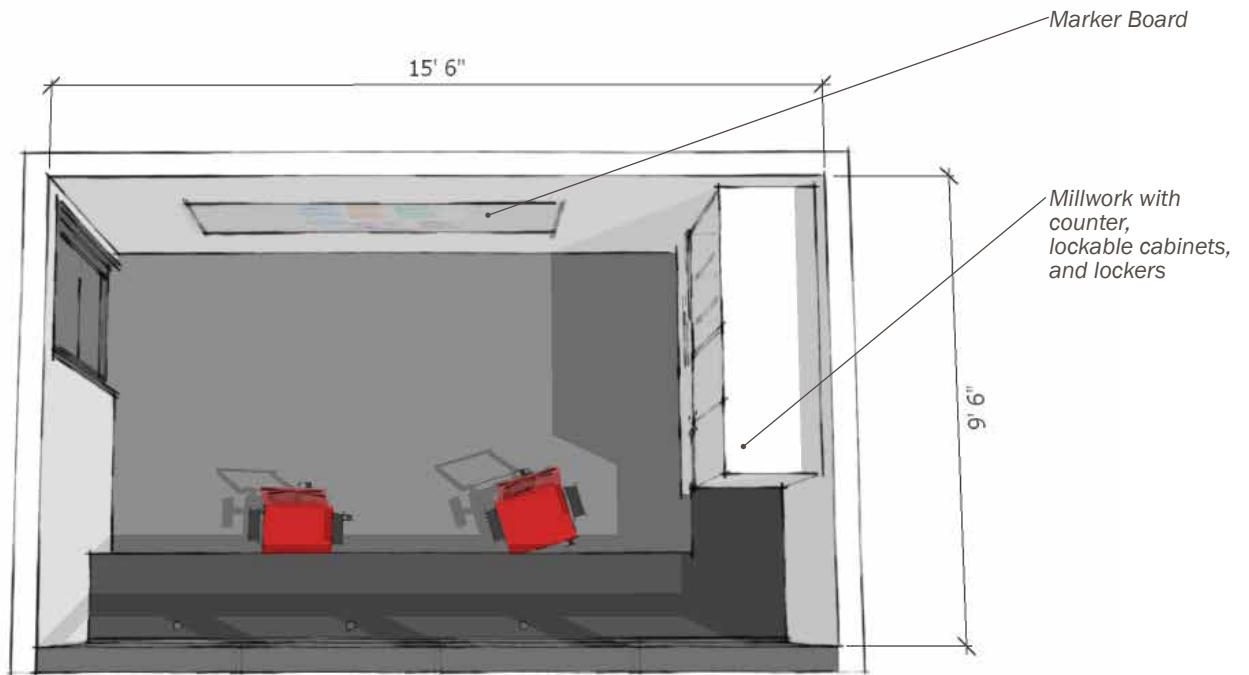
BUILT EXAMPLE *University of Iowa (RDG Planning & Design)*



AREA Building Support
ROOM Maintenance Office

FUNCTIONAL DESCRIPTION	Shared office space for on maintenance staff to work from. Located with in the main maintenance/loading area to oversee the activities of that area.
ADJACENCY	Located adjacent or within the Building Service space.
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 150 square feet</p> <p>Minimum Dimensions 12'-6" x 12'-6" to 8'-0" x 19'-4"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single control point entry</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers Approximately 2 or 3</p>
ARCHITECTURAL	<p>Floor Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum</p> <p>Doors Metal Door</p> <p>Windows Yes. Interior aluminum storefront to maximize visibility and connection Maintenance area</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. With central HVAC system, would like thermostat and VAV box for office.</p> <p>Plumbing None</p> <p>Electrical Wall outlets on perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual TBD</p> <p>Computer Yes</p> <p>Telephone Yes</p> <p>Access Control Yes</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Markerboard Millwork counter with lockable storage cabinets</p> <p>Movable Office Desk Credenza Chairs -</p>
SPECIAL COMMENTS	

SPACE DIAGRAM



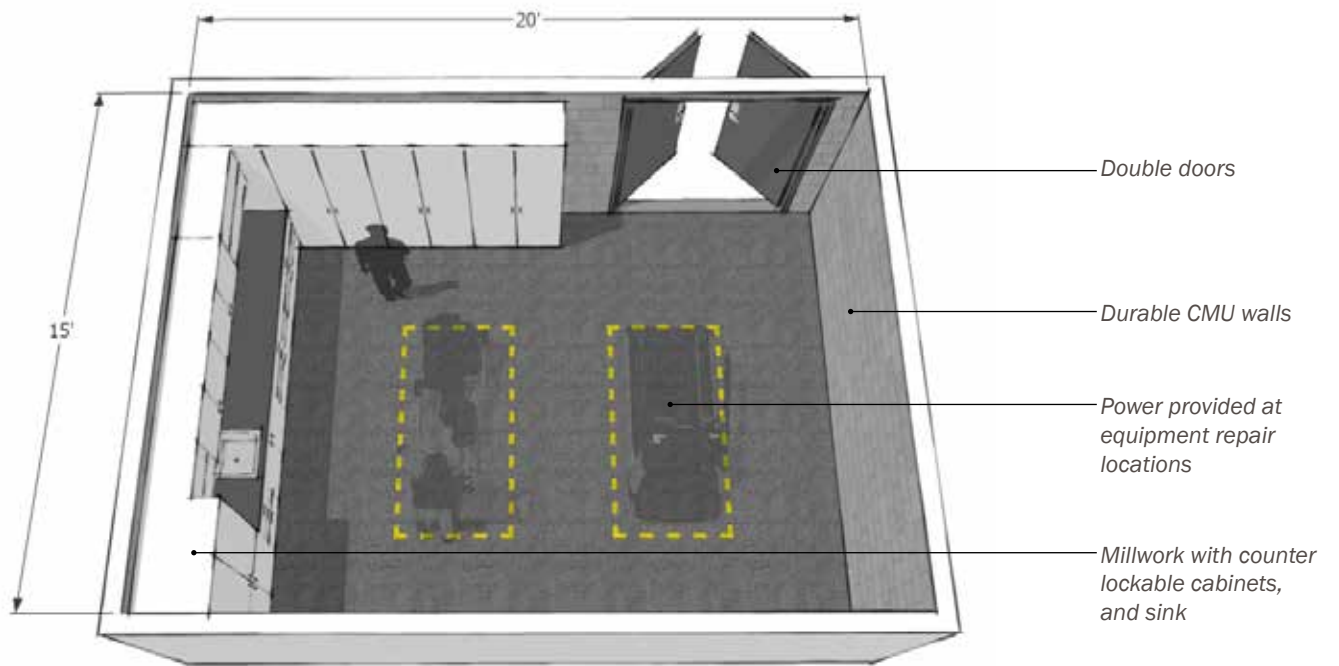
BUILT EXAMPLE *Unknown*



AREA Building Support
ROOM Main Equipment Repair Room

FUNCTIONAL DESCRIPTION	Workshop area to repair Fitness Equipment
ADJACENCY	Near Service Elevator and Open Fitness Areas
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 300 square feet</p> <p>Minimum Dimensions 15'-0" x 20'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers TBD</p>
ARCHITECTURAL	<p>Floor Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or Exposed</p> <p>Doors Pair of Metal Doors to allow large equipment in and out of room</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling. Exterior exhaust to allow for painting and welding services.</p> <p>Plumbing Handwashing sink</p> <p>Electrical Floor & wall outlets as required at equipment locations and around floor perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed To be confirmed. Apparatus to hoist and hold heavy fitness equipment Millwork counter with sink and lockable storage cabinets</p> <p>Movable</p>
SPECIAL COMMENTS	

SPACE DIAGRAM



BUILT EXAMPLE *Purdue University - Moody Nolan*



AREA Building Support
ROOM Satellite Equipment Repair Room

FUNCTIONAL DESCRIPTION	Workshop area on one of the upper level areas to support the staff with the maintenance of the facility and equipment
ADJACENCY	Near Service Elevator and Open Fitness Areas
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 100 square feet</p> <p>Minimum Dimensions 10'-0" x 10'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users TBD</p> <p>Security Lockable after open hours</p> <p>Numbers TBD</p>
ARCHITECTURAL	<p>Floor Sealed Concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or Exposed</p> <p>Doors Pair of Metal Doors to allow large equipment in and out of room</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing None</p> <p>Electrical Floor & wall outlets as required at equipment locations and around floor perimeter.</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access or card verification capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Millwork counter with sink and lockable storage cabinets</p> <p>Movable</p>
SPECIAL COMMENTS	

AREA Building Support**ROOM** General Storage

FUNCTIONAL DESCRIPTION	General storage areas distributed throughout the facility to hold various items for the recreation staff
ADJACENCY	
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 4 separate rooms at 175 square feet each. Total of 700 square feet</p> <p>Minimum Dimensions 12'-0" x 15'-0"</p> <p>Minimum Heights High ceilings not required for this space</p>
OCCUPANCY	<p>Access Single access point</p> <p>Users Lockable</p> <p>Security TBD</p> <p>Numbers Not Occupied</p>
ARCHITECTURAL	<p>Floor Sealed concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments</p> <p>Ceiling None</p> <p>Doors Metal Door</p> <p>Windows None</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing No</p> <p>Electrical Wall Outlets as required around perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed None</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Non Assignable Program Space

ROOM Public Restroom

FUNCTIONAL DESCRIPTION A set of mens, womens and gender neutral restrooms located on each floor to serve recreation staff and rec center members

ADJACENCY TBD.

DIMENSIONAL REQUIREMENTS

- Net Program Area** 350 square feet
- Minimum Dimensions** Varies by restroom.
- Minimum Heights** High ceiling not required for this space.

OCCUPANCY

- Access** Single control point entry.
- Users** Recreation Staff - Professional and Student
- Security** No
- Numbers** 2

ARCHITECTURAL

- Floor** Tile
- Walls** Masonry or suitable durable material with applied or integrated acoustic treatments.
- Ceiling** Acoustical suspended ceiling or gypsum.
- Doors** Metal Door
- Windows** No

SYSTEMS

- HVAC** Standard mechanical heating/cooling. Exhaust.

Plumbing Standard plumbing (water closet, lavatory, floor drain).

Electrical Convenience wall outlets as required around perimeter.

Lighting Recessed Fluorescent.

Audio / Visual No

Computer No

Telephone No

Access Control Accessible at all hours

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.

Special Systems

EQUIPMENT

- Fixed** Mens: (2) Water Closet; (1) Lavatories
 Womens: (2) Water Closet; (1) Lavatories
 Gender Neutral: (1) Water Closet; (1) Lavatories

SPECIAL COMMENTS -

AREA Non Assignable Program Space
ROOM Rec Facility Mechanical Room (HVAC)

FUNCTIONAL DESCRIPTION	Building Mechanical and Chiller Rooms for heating, ventilation, air conditioning	
ADJACENCY	Near gymnasiums	
DIMENSIONAL REQUIREMENTS	Net Program Area	Approximately 9,300 square feet. To be verified by mechanical engineers
	Minimum Dimensions	TBD
	Minimum Heights	High ceiling is not required for this space
OCCUPANCY	Access	Single access point
	Users	Recreation and campus maintenance staff
	Security	Lockable
	Numbers	Not Occupied
ARCHITECTURAL	Floor	Exposed Sealed Concrete
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments
	Ceiling	None
	Doors	Metal double doors
	Windows	No
	SYSTEMS	HVAC
	Plumbing	TBD
	Electrical	Floor and wall outlets where required for HVAC equipment
	Lighting	Recessed Fluorescent.
	Audio / Visual	No
	Computer	No
	Telephone	Yes
	Access Control	Possible to have key card access capabilities to access this space
	Acoustics	TBD
	Special Systems	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption. Floor condition to be confirmed.
EQUIPMENT	Fixed	TBD
	Movable	None
SPECIAL COMMENTS		

AREA Non Assignable Program Space
ROOM Main Electrical Room

FUNCTIONAL DESCRIPTION Main electrical room to connect and distribute campus electrical services to the entire facility

ADJACENCY On an exterior wall near the campus electrical line

DIMENSIONAL REQUIREMENTS
Net Program Area 400 square feet
Minimum Dimensions 20'-0" x 20'-0"
Minimum Heights High ceiling not required for this space.

OCCUPANCY
Access Single control point entry.
Users Campus and facility maintenance staff
Security Lockable
Numbers 1

ARCHITECTURAL
Floor Sealed concrete
Walls Masonry or suitable durable material with applied or integrated acoustic treatments.
Ceiling Acoustical suspended ceiling or gypsum.
Doors Metal double doors
Windows No

SYSTEMS
HVAC Standard mechanical heating/cooling.

Plumbing None

Electrical TBD

Lighting Recessed Fluorescent.

Audio / Visual No

Computer No

Telephone Yes

Access Control Possible to have key card access capabilities to access this space

Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.

Special Systems

EQUIPMENT
Fixed TBD

Movable None

SPECIAL COMMENTS -

AREA Non Assignable Program Space
ROOM Satellite Electrical Room

FUNCTIONAL DESCRIPTION	Satellite electrical room to distribute main electrical services to each area or level of the facility
ADJACENCY	Aligned vertical through the facility
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 80 square feet</p> <p>Minimum Dimensions 8'-0" x 10'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users Campus and facility maintenance staff</p> <p>Security Lockable</p> <p>Numbers 1</p>
ARCHITECTURAL	<p>Floor Sealed concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing None</p> <p>Electrical TBD</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed TBD</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Non Assignable Program Space
ROOM Telephone / Communications / Data Room

FUNCTIONAL DESCRIPTION Room to distribute telephone, communications, and data lines to specific areas of the facility

ADJACENCY TBD

DIMENSIONAL REQUIREMENTS
Net Program Area 80 square feet
Minimum Dimensions 8'-0" x 10'-0"
Minimum Heights High ceiling not required for this space.

OCCUPANCY
Access Single control point entry.
Users Campus and facility maintenance staff
Security Lockable
Numbers 1

ARCHITECTURAL
Floor Sealed concrete
Walls Masonry or suitable durable material with applied or integrated acoustic treatments.
Ceiling Acoustical suspended ceiling or gypsum.
Doors Metal door
Windows No

SYSTEMS
HVAC Standard mechanical heating/cooling.
Plumbing None
Electrical Floor and wall outlets located to service equipment
Lighting Recessed Fluorescent.
Audio / Visual No
Computer No
Telephone No
Access Control Possible to have key card access capabilities to access this space
Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
Special Systems

EQUIPMENT
Fixed TBD
Movable None

SPECIAL COMMENTS -

AREA Non Assignable Program Space**ROOM** Fire / Water Service

FUNCTIONAL DESCRIPTION	Fire and water service control room on the facilities ground floor
ADJACENCY	TBD
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 100 square feet</p> <p>Minimum Dimensions 10'-0" x 10'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users Campus and facility maintenance staff</p> <p>Security Lockable</p> <p>Numbers 1</p>
ARCHITECTURAL	<p>Floor Sealed concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing None</p> <p>Electrical Floor and wall outlets located to service equipment</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone Yes</p> <p>Access Control Possible to have key card access capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed TBD</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Non Assignable Program Space
ROOM Janitor / Custodial Rooms

FUNCTIONAL DESCRIPTION	Storage rooms to facilitate janitor and custodial supplies
ADJACENCY	TBD
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 60 square feet</p> <p>Minimum Dimensions 8'-0" x 7'-6"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users Campus and facility maintenance staff</p> <p>Security Lockable</p> <p>Numbers 1</p>
ARCHITECTURAL	<p>Floor Sealed concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing Mop sink and floor drain</p> <p>Electrical Wall outlets located on perimeter</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Mop Sink</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Non Assignable Program Space**ROOM** Vertical Circulation - Stairs

FUNCTIONAL DESCRIPTION	Various egress stairs located in the facility to enable quick and efficient exiting out of the facility	
ADJACENCY	TBD	
DIMENSIONAL REQUIREMENTS	Net Program Area	Approximately 9,000 ASF. Possible 5 separate stairs that cover all 5 levels of the facility
	Minimum Dimensions	Approximately 10'-0" x 30'-0"
	Minimum Heights	-
OCCUPANCY	Access	Single control point entry on each level
	Users	All users
	Security	TBD
	Numbers	-
ARCHITECTURAL	Floor	TBD
	Walls	Masonry or suitable durable material with applied or integrated acoustic treatments.
	Ceiling	Acoustical suspended ceiling or gypsum.
	Doors	Metal door - Fire rated
	Windows	No
	SYSTEMS	HVAC Standard mechanical heating/cooling.
	Plumbing	None
	Electrical	None
	Lighting	Recessed Fluorescent.
	Audio / Visual	No
	Computer	No
	Telephone	No
	Access Control	TBD
	Acoustics	Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.
	Special Systems	
EQUIPMENT	Fixed	None
	Movable	None
SPECIAL COMMENTS	-	

AREA Non Assignable Program Space
ROOM Vertical Circulation - Elevators

FUNCTIONAL DESCRIPTION	Building elevators to service all levels of the facility
ADJACENCY	TBD
DIMENSIONAL REQUIREMENTS	<p>Net Program Area Approximately 300 ASF. (2) elevators expected for the facility</p> <p>Minimum Dimensions 2 elevators at approximately 10'-0" x 15'-0". Coordination with elevator manufacturer</p> <p>Minimum Heights -</p>
OCCUPANCY	<p>Access Single control point entry on each level</p> <p>Users All users</p> <p>Security TBD</p> <p>Numbers -</p>
ARCHITECTURAL	<p>Floor TBD</p> <p>Walls Shaft walls to be masonry and/or cast in place concrete</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing Sump pump at shaft floor</p> <p>Electrical TBD</p> <p>Lighting TBD</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control TBD</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed Sump Pump</p> <p>Movable None</p>
SPECIAL COMMENTS	-

AREA Non Assignable Program Space**ROOM** Elevator Machine Room

FUNCTIONAL DESCRIPTION	Support room for control of the an elevator. One elevator machine room per elevator in the facility
ADJACENCY	Near elevator
DIMENSIONAL REQUIREMENTS	<p>Net Program Area 70 square feet each. (2) machine rooms expected in facility</p> <p>Minimum Dimensions 7'-0" x 10'-0"</p> <p>Minimum Heights High ceiling not required for this space.</p>
OCCUPANCY	<p>Access Single control point entry.</p> <p>Users Campus and facility maintenance staff</p> <p>Security Lockable</p> <p>Numbers 1</p>
ARCHITECTURAL	<p>Floor Sealed concrete</p> <p>Walls Masonry or suitable durable material with applied or integrated acoustic treatments.</p> <p>Ceiling Acoustical suspended ceiling or gypsum.</p> <p>Doors Metal door</p> <p>Windows No</p>
SYSTEMS	<p>HVAC Standard mechanical heating/cooling.</p> <p>Plumbing None</p> <p>Electrical Floor and wall outlets located to service equipment</p> <p>Lighting Recessed Fluorescent.</p> <p>Audio / Visual No</p> <p>Computer No</p> <p>Telephone No</p> <p>Access Control Possible to have key card access capabilities to access this space</p> <p>Acoustics Sound proofing of walls between adjacent spaces and on wall surfaces to provide sound absorption.</p> <p>Special Systems</p>
EQUIPMENT	<p>Fixed TBD</p> <p>Movable None</p>
SPECIAL COMMENTS	-

**14L2T Southeast Recreation Facility Replacement
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SECTION H

SPECIAL PLANNING ISSUES

H.1 Environmental Impact

In accordance with the Wisconsin Environmental Policy Act (WEPA), s. 1.11, Wisconsin Stats., the UW Systems Administration and the campus have determined an Environmental Impact Statement (EIS) is required for the project. A third party consultant will be retained by DFD during the Preliminary Design Phase to provide this service.

H.2 Zoning

The City of Madison established Planned Development Districts to provide a voluntary regulatory framework as a means to facilitate the development of land in an integrated and innovative fashion, to allow for flexibility in site design, and to encourage development that is sensitive to environmental, cultural, and economic considerations. Since the site currently zoned as part of the Kohl Center's Planned Unit Development (PUD) and the use for the proposed facility is essentially the same as the current facility, the University will pursue an Alteration to an existing, approved Planned Development.

H.3 Historic Preservation

It is not anticipated that the project will be affected by historic preservation. The building is currently 32 years old and is not listed on the University's list of Historic Buildings and Landscapes. Typically, buildings are 50 years old before they are listed on local, state, or national registers of historic places. It is expected the campus' Historic and Cultural Resources Manager will contact the Wisconsin Historical Society for a final determination on this matter. It is also expected the historic society will be contacted as part of the EIS process.

H.4 Preliminary Code and Life Safety

Construct a new five story student exercise and recreational facility. The building includes a mezzanine located above the lowest level at the primary entrance to the building, with 4 additional stories. The facility is a type A-3 occupancy classification primarily intended for recreation and sports with occasional A-4 swim meets. The building is Type I-B construction based on the allowable height and are of the building and will be fully sprinklered.

H.4.1 General Information

Location

Madison, Wisconsin

Authority Having Jurisdiction

University of Wisconsin

Project Description

New 5-story Student exercise and recreational facility. The facility is considered a Type I-B construction type with an A-3 occupancy classification.

H.4.2 Applicable Codes

- 2009 International Building Code (IBC)
- 2009 International Mechanical Code (IMC)
- 2009 International Fuel Gas Code (IFGC)
- 2009 International Energy Conservation Code (IECC)
- 2010 ADA Standards for Accessible Design

H.4.3 Use and Occupancy Classification

Use Group A-3

H.4.4 Construction Classification

Type I-B

Fire Rating Requirements

Structural frame including columns, girders & trusses	2 Hour
Bearing exterior walls	2 Hour
Bearing interior walls	2 Hour
Nonbearing exterior walls & partitions	0 Hour
Nonbearing interior walls & partitions	0 Hour
Floor construction including supporting beams & joists	2 Hour
Roof construction including supporting beams & joists	1 Hour
MEP Shafts	2 Hour

H.4.5 Building Height and Areas**Allowable Building Height and Areas**

Base Allowable Height	11 stories, 160'
Height Modification	+1 stories, +20'
Allowable Height	12 stories, 180'
Base Allowable Area	Unlimited
Allowable Floor Area	Unlimited

Actual Building Height and Areas

Actual Height	5 stories, 110' Maintain less than 75' to Level 4 Floor above the lowest level of fire department vehicle access.	
Actual Area:		
Level 1	57,876 SF	Pool, Locker Rooms and Courts
Level 1, Mezzanine	19,108 SF	Main Entry
Level 2	23,414 SF	Administration
Level 3	60,091 SF	Courts
Level 4	23,685 SF	Track
Mechanical Penthouse	7,921 SF	
TOTAL	192,095 SF	

H.4.6 Egress Requirements**Exit Width Factors**

Assembly	
Stairs, Stepped Aisle	0.3"/person (40 people/ft)
Doors, Level Surface, Ramps	0.2"/person (60 people/ft)

Maximum Exit Access Travel Distance

Use Group A-3	250'
---------------	------

Maximum Common Path of Travel Distance

Use Group A-3	75'
---------------	-----

H.4.7 Life Safety Systems**Active**

Fire Alarm	Required/Provided	Sprinkler system water flow switch monitoring
Fire Alarm Control Panel	Required/Provided	
Remote Annunciator Panel	Required/Provided	
Smoke Detection	Required/Provided	Elevator lobbies; HVAC return ducts >2,000 cfm ducts >10,000 cfm
Exit Signs	Required/Provided	Emergency Generator
Emergency Lights	Required/Provided	Emergency Generator
Backup Power	Required/Provided	Emergency Generator
Suppression – Standpipe	Required/Provided	Class I Wet

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Suppression – Automatic	Required/Provided	Throughout per NFPA 13
Fire Extinguishers	Required/Provided	Per IFC & NFPA 10
Fire Pump	Not Required/Not Provided	Per IBC 2012
Pressurized Exit Stairs	Not Required/Not Provided	Per IBC
Pull Stations	Not Required/Not Provided	Per IBC
Passive		
Corridor Ratings	0 hour	
Stairways	2 hour with 90 minute opening protections	
Shafts	2 hour with 90 minute opening protections	

H.5 Accessibility

The University desires that this facility go beyond the requirements of the building code and the ADA and be designed as a “universally designed” environment.

H.6 Sustainable Facilities & Energy Conservation

H.6.1 University Wisconsin-Madison: Sustainable Facilities & Energy Conservation

“UW-Madison is committed to renovating and constructing buildings that aid in the success of its students and staff, and are sustainable for the years to come. In order to benchmark these practices, campus is pursuing a minimum of LEED Silver certification on most of its new and renovated facilities. In LEED certification, an effort is made to pursue points which have a strong return on investment. This initiative along with others, will gradually transform UW-Madison’s campus to meet the needs of development today, without compromising the needs of future generations.

“Projects on the UW-Madison campus that do not seek LEED certification are still highly sustainable. Even without LEED, we stick to our commitment of “Building Green.”

- Capital Planning & Development

The design team will work towards a design that will meet or exceed the Division of Facilities Development Sustainability Guidelines.

H.6.2 Energy Conservation

A preliminary Energy Use Index (EUI) goal of 140-160 kBtu/sf-yr, or 30% better than the requirements of ASHRAE 90.1-2007, for the planned UW Southeast Recreational Facility (UW SERF) project has been set by the Owners Representatives and the Design Team. This goal presumes a mix of typical and emerging design energy conservation strategies. Further definition of the energy goals will be possible when program and operating hour variables are better defined.

The following list provides the types of technologies we will study together to help achieve the goal.

HVAC Systems to Evaluate

- VAV with heat recovery
- Chilled beams with a Dedicated Outside Air System (DOAS) system in smaller spaces

- Variable Refrigerant Flow (VRF) system with a DOAS system in appropriate spaces
- Ground coupling, or utilizing chilled water return for heat rejection

Detailed Strategies that should be considered:

- Improved envelope and glazing characteristics
- Reduced infiltration
- Appropriate apertures for natural light control
- LED lighting systems
- Lighting controls: daylighting, occupancy and vacancy
- Occupancy and demand control of temperature and ventilation
- Heat recovery: sensible and total
- Displacement ventilation, natural ventilation and reduced intake air temperature
- Solar transpired collectors
- Solar preheat of service hot water
- Heat reclaim from waste hot water
- Timer or occupancy control of athletic and fitness equipment

Additional Pool Specific Strategies:

- Heat recovery on pool exhaust
- Chloramine capture system with and without heat recovery
- Solar hot water for pool heat (could also be applied to DHW)
- Hot gas heat recovery to supply air and pool heat (would require packaged DX type pool dehumidification units)

Energy Analysis Methodology

Comparative energy analysis will occur during Preliminary Design (Schematic Design and Design Development) phase. A comparative analysis of energy use and life cycle cost analysis of potential HVAC systems to meet building loads will be completed during schematic design. An integrated energy analysis of all components that affect or use energy in the proposed facility will be completed during design development

Energy Analysis of the potential HVAC options will include building orientation and operation, mechanical zoning, system type, use of central plant, and applicable controls. Each option will be evaluate for energy use, energy cost, CO2 contribution, first cost, and lifecycle cost analysis as required by DFD. The analysis will provide information for a HVAC system to be chosen for implementation in the project.

Energy Analysis of all aspects of the proposed facility will evaluate a wide range of energy conservation strategies for envelope, glazing, lighting, HVAC system, and equipment alternatives. Each strategy’s specific parameters and characteristics will be defined, and its modeled energy saving contribution and simple payback evaluated. From the evaluated strategies, several potential whole building energy alternatives solutions will be evaluated for both integrated building energy savings, achievement of the DFD requirements and cost effectiveness. From the completed analysis an energy Basis of Design will be developed to guide implementation of the selected energy saving strategies into the construction documents.

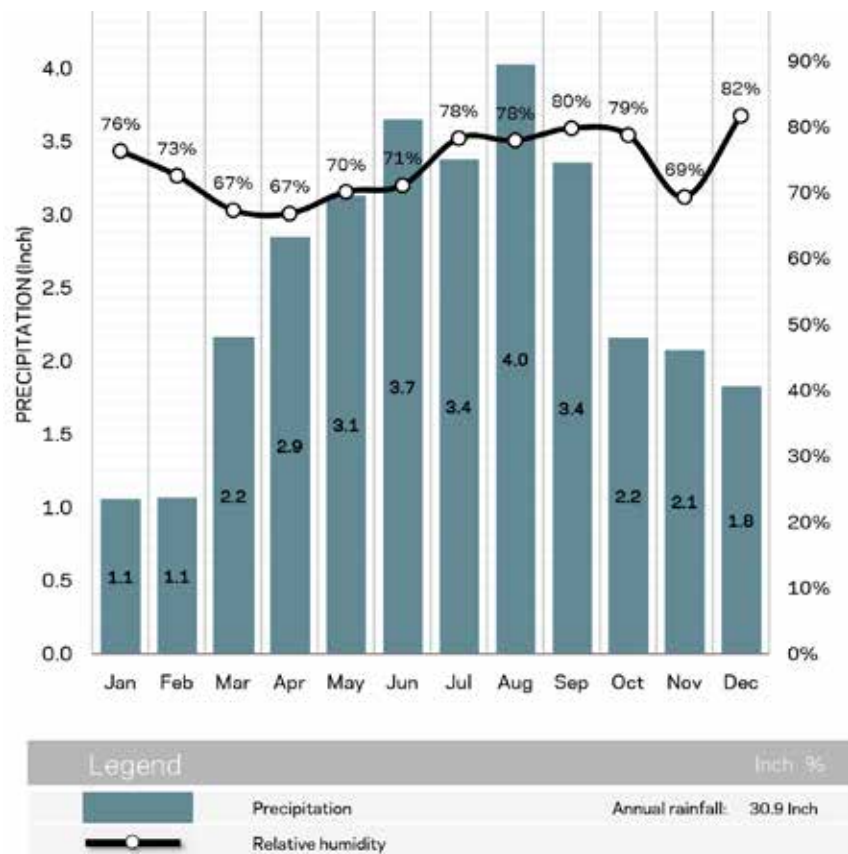
Further analysis will be completed with a review of the 90% complete construction documents for the inclusion of the Basis of Design energy saving strategies into the documents to be used for construction.

At the completion of the project, an “as built” energy model will be completed based upon the characteristics and efficiencies of the completed facility, for the purpose of demonstrating achieving the project and DFD energy goals for the project.

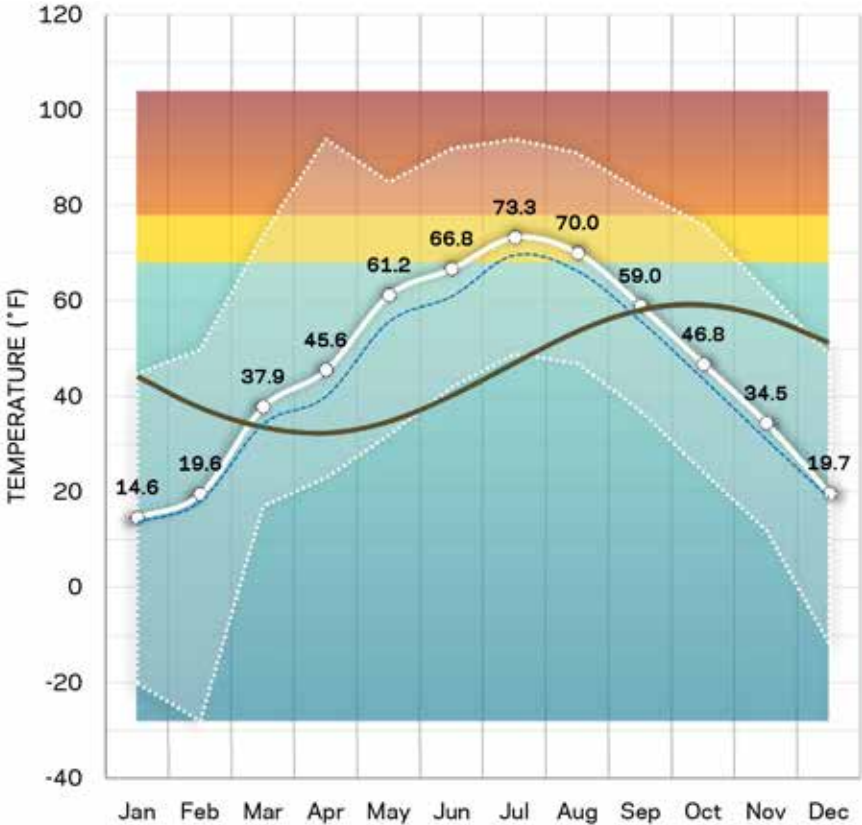
H.6.3 HOK Sustainable Analysis Report

The following report is a starting baseline of fundamental factors and architectural strategies that can be considered for the overall design of the facility

Precipitation and Relative Humidity



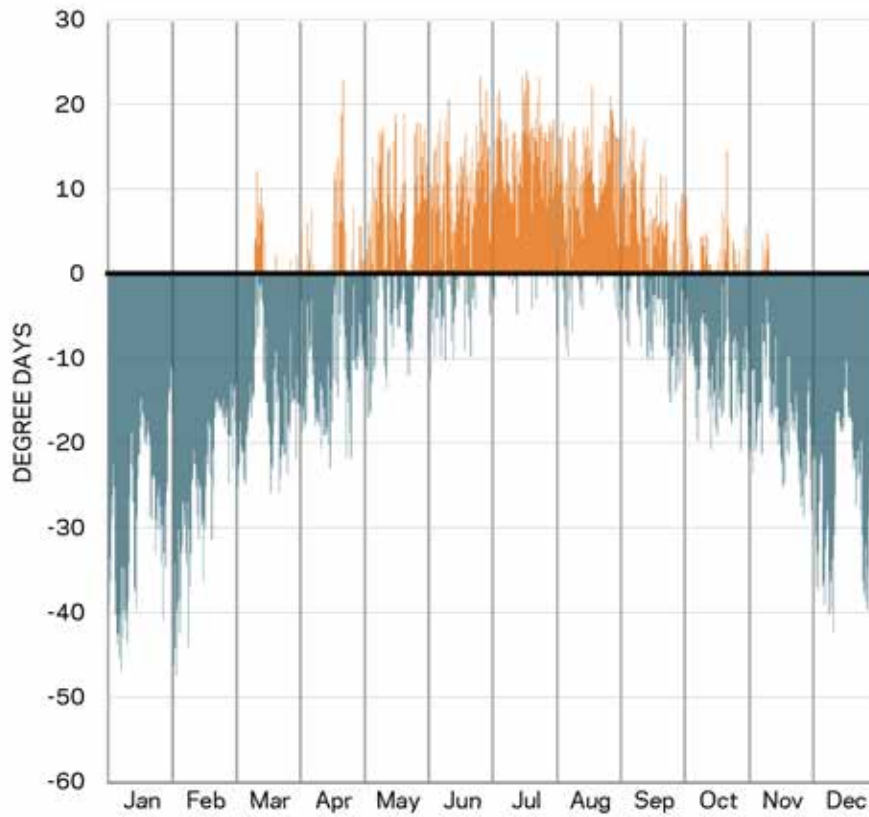
Dry Bulb Temperature - Madison, WI



Legend	
	Above Comfort
	Comfort Range
	Below Comfort
	Durinal shift
	Average Dry Bulb Temperature
	Ground Temperature
	Average Wet Bulb Temperature

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Degree Days - Madison, WI

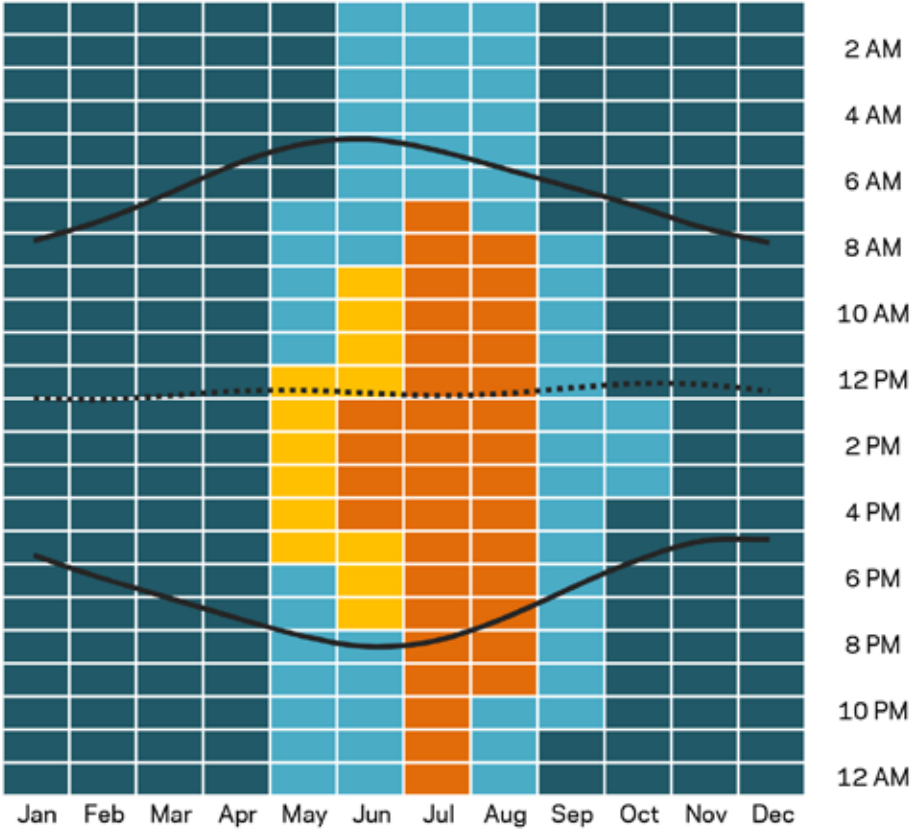
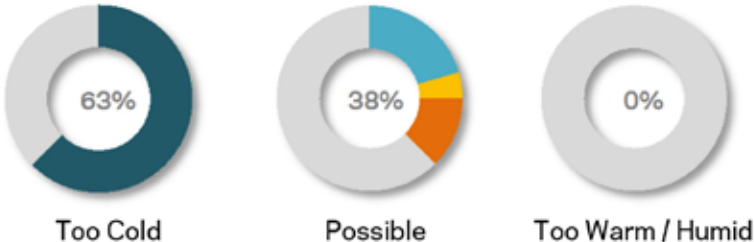


Legend	
	Cooling Degree Days above 50 °F (CDD50°F)
	Heating Degree Days below 65 °F (HDD65°F)

CDD 50°F
2770

HDD65°F
7627

Natural Ventilation Potential

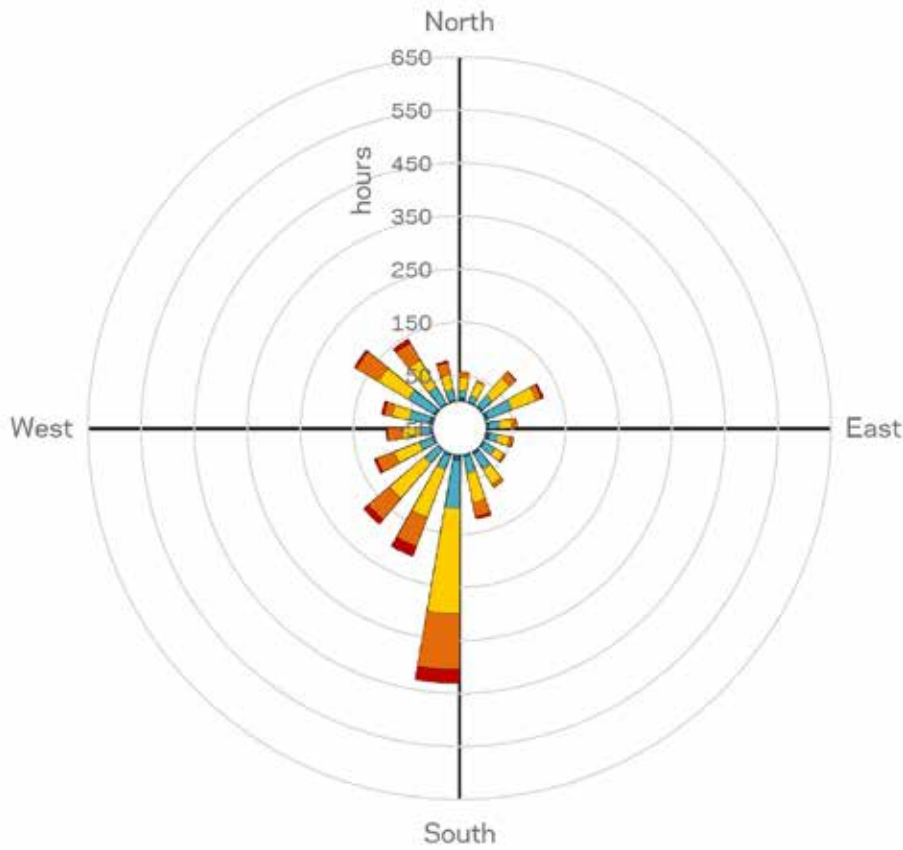


Legend		
Not likely	Too Cold	(Tdb < 55.4°F)
Possible	With Internal Gains	(55.4°F < Tdb < 68°F)
Possible	Ideal	(68°F < Tdb < 75.2°F 20% < Rh < 80% Twb < 64.4°F)
Possible	With Air Movement	(68°F < Tdb < 84.2°F 20% < Rh < 90% Twb < 73.4°F)
Not likely	Too Warm or Humid	(Tdb > 84.2°F or Rh > 90%)

Natural Ventilation Potential - Wind Rose

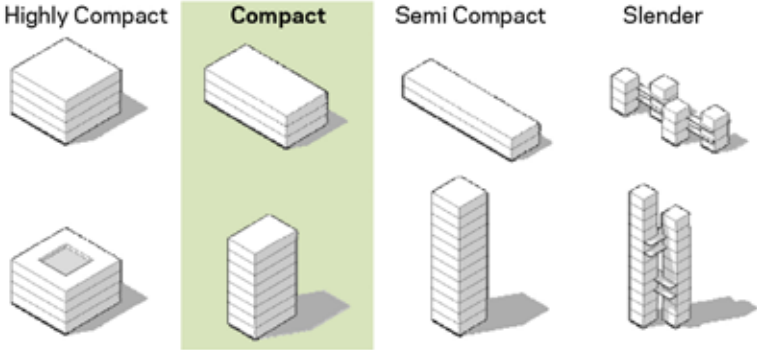
Wind temperature between **55-84 °F**

Annual NV potential time: **25%** (2208 out of 8760 hours)



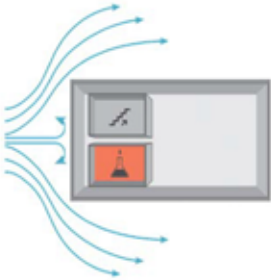
Legend		mph
< 3.6	Calm	
3.6 - 7.6	Light	
7.6 - 12.3	Gentle	
12.3 - 17.9	Moderate	
> 17.9	Strong	

Massing



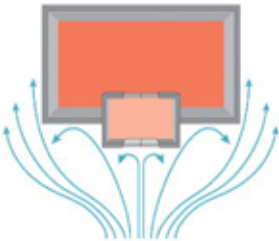
Aspect ratio of roughly 1 to 1.5 (height:width).
 Limited surface to volume ratio minimizes conductive losses while still allowing daylight & solar heat gain for colder climates.

Buffer Zone (Cold Winds)



Place low-occupancy and / or high internal gain zones near exterior surfaces exposed to prevailing cold winds to minimize heating load and avoid thermal discomfort. (e.g. corridor, utility, core, labs, gyms, kitchens, etc.)

Vestibules



Vestibules at building entrances reduce air infiltration which result in reduction of heating and ventilation loads in very cold climates .

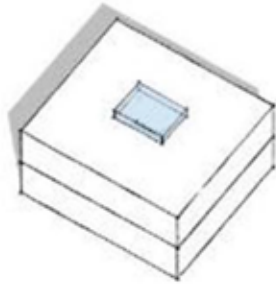
Solar Orientate Interior Zones



Maximize the placement of high occupancy space near exterior walls exposed to the maximum radiation angle to allow for passive space heating.

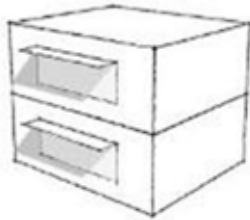
14L2T Southeast Recreation Facility Replacement
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Enclosed Central Atrium



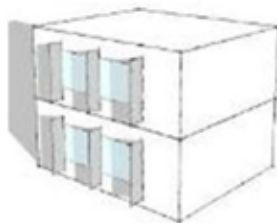
A central atrium allows for natural daylight to inner zones without increasing conductive losses through the envelope.

South Facade



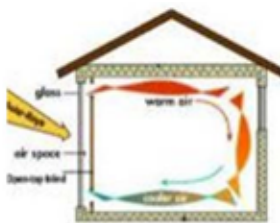
Narrow horizontal shades for sun facing exposures provide enough shade in summer while allowing solar heat to enter the building during the winter (limited shading).

East and West Facades



Consider external vertical fins for eastern and western exposures (partial shading).

Blind Curtain System



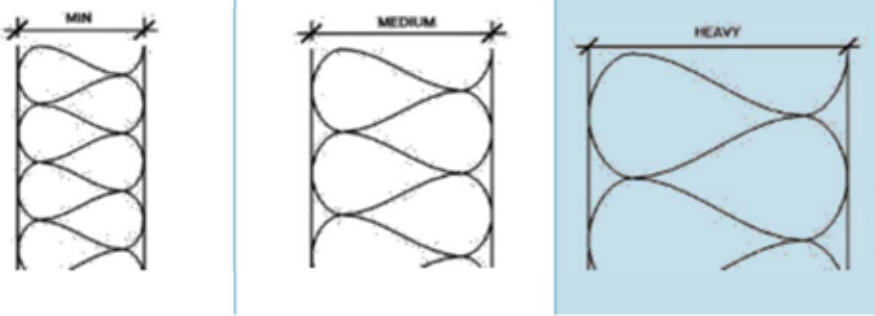
Open top internal shades may effectively block glare and daylight. Conduction, convection and radiation will usually convey a large portion of the heat to the interior of the space.

Horizontal Louvers



Consider internal shading devices to control glare while taking the advantage of solar heat gain.

Insulation Levels - Heavy



High Conductive losses are expected due to cold temperatures Heavily insulated envelopes may prove to have a short payback period (energy modeling is required for verification).

Solar Absorptive



Consider dark colors for the exterior surfaces to maximize solar heat absorption.

Glazing Properties

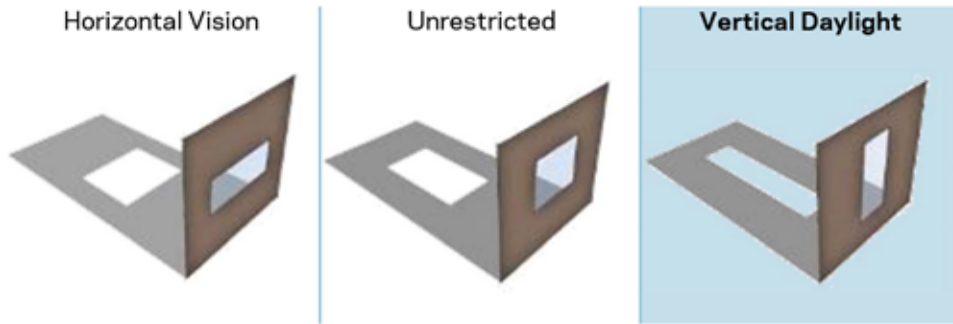
Glazing will also be analyzed for compliance with DFD Daylighting Standards



ASHRAE 90.1-2010 minimum requirement for U-factor is 0.45 and for SHGC is 0.4. Exceeding the code minimum U-Factor (efficient double or triple glazing) may have an acceptable payback (to be verified by an energy model)

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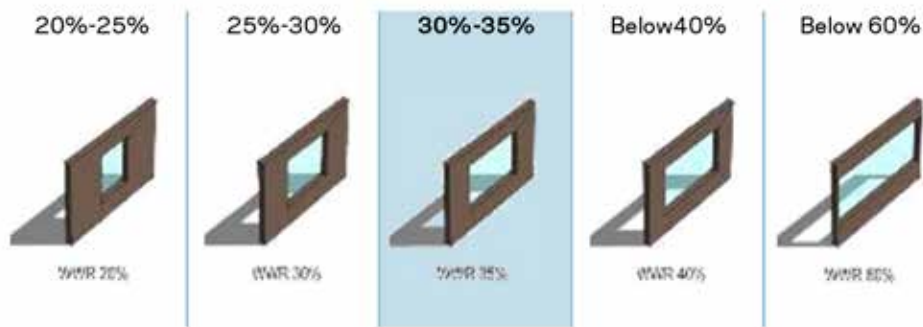
Glazing Aspect Ratio - Vertical Daylight



Consider a constant area for glazing. Vertical daylight glazing is recommended to promote the penetration of solar heat and light to the space more than horizontal vision glazing.

Window to Wall Ratio (WWR) - 30-35%

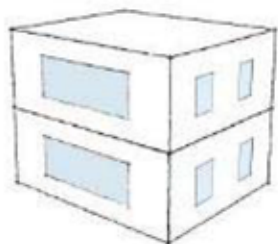
Ratios will be analyzed for compliance with DFD Daylighting Standards



Based on the climate, a WWR around 30% - 35% is recommended.

Specific WWR

Ratios will be analyzed for compliance with DFD Daylighting Standards



Percentage of WWR on the best orientation (167°) can be as high as 30%-40%. ;However, limit the WWR on the worst orientation (294.5° to north) and the direction of cold wind (340°) to around 10%-20%

Project
Project No.
Project Stage
Checklist Author

Southeast Recreational Facility (SERF) Replacement
14L2T
Predesign

Workshop + HOK

8-Apr

Applicable?	Requirements	Primary Responsibility	Remarks Note any: Reason if Unknown or Not Applicable, Any goals beyond Min. Req'ts., Other comments
1. Portfolio Management & Assessment of Need			
Yes	** Portfolio Management & Assessment of Need	A	
2. Program Development			
Yes	** Program Development	A	
3. Integrated Design			
Yes	** Integrated Design	D, DSF	
4. Sustainable Site Requirements			
Yes	SS W1/P1 * Construction Site Erosion & Sedimentation Control	D/C	Minimize erosion during construction
Yes	SS C1 Site Selection	A	No known sensitive site elements; not restricted site
?	SS C2 Development Density & Community Connectivity	A	Community area may qualify
No	SS C3 Brownfield Redevelopment	A	Not a brownfield
Yes	SS C4.1 Alternative Transportation Public Transportation Access	A	2 or more buses within 1/4 mile
Yes	SS C4.2 * Alternative Transportation Bicycle Storage & Changing Rooms	D	Project likely to exceed requirements
?	SS C4.3 * Alternative Transportation Low Emitting & Fuel Efficient Vehicles	D	5% of 35-40 stalls equates to 2 stalls for this credit
?	SS C4.4 Alternative Transportation Parking Capacity	A	Project may add parking; car pool for 5% occupants not likely
?	SS C5.1 Site Development, Protect or Restore Habitat	A/D	"Green Street" or vegetated roof may contribute
No	SS C5.2 Reduced Site Disturbance Development Footprint	A/D	Development footprint is increasing
Yes	SS C6.1 Permanent Stormwater Management (Discharge Rate & Vol - DNR 151)	D	This is a stated priority for the University
Yes	SS C6.2 * Permanent Stormwater Management (Quality Treatment - DNR 151)	D	This is a stated priority for the University
?	SS C7.1 Heat Island Effect: Non-Roof	D	Extent of shade or light-colored materials not yet known
	SS C7.2 LEED Credit Not Used		
?	SS C8 Light Pollution Reduction	D	Light levels to comply for an urban area
5. Water Efficiency Requirements			
	WE C1.1 Incorporated into WE C1.2		
Yes	WE C1.2 Water Efficient Landscaping No Potable Use or No Irrigation	D	Limit or eliminate use of potable water for landscape irrigation
	WE C2 LEED Credit Not Used		
Yes	WE C3.1 Water Use Reduction, 20% Reduction	D	Use at least 20% less water than calculated baseline
	WE C3.2 LEED Credit Not Used		
6. Energy & Atmosphere Requirements			
Yes	EA P1 * Commissioning	D, C	Level 2 Commissioning
Yes	EA P2 Minimum Energy Performance	D	Establish minimum energy efficiency for the building
Yes	EA P3 * CFC Reduction in HVAC&R Equipment	D	Reduce ozone depletion
Yes	EA C1 * Optimize Energy Performance for Projects > \$2 million	D	Energy goal is 30% better than ASHRAE 90.1-2007
?	EA C2 * Renewable Energy	D	Requires on-site renewable energy sources
	EA C3 Incorporated into EA P1		
	EA C4 LEED Credit Not Used		
Yes	EA C5 * Measurement & Verification	D, O	Provide for metering on major utilities plus select sub-metering
?	EA C6 Green Power	A, O	Requires a two-year renewable energy contract
DSF Requirement / LEED Credit Comparison		Primary Responsibility	
Same as LEED 2.1 or 2.2 Credit		A	Agency - Planning, Budget Analyst
* DSF variation of LEED 2.1 or 2.2 Credit		D	Architect/Engineer
** DSF only Standard		DSF	Division of State Facilities
		C	Contractor
LEED Credit Not Used, Incorporated into another Standard or not supported		O	Agency - Operation & Maintenance

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14L2T Southeast Recreational Facility (SERF) Replacement		42468	
Applicable?	Requirements	Primary Responsibility	Remarks Note any: Reason if Unknown or Not Applicable, Any goals beyond Min. Req'ts., Other comments
7. Materials & Resources Requirements			
Yes	MR P1 Storage & Collection of Recyclables	D	Provide an easily accessible area to separate, collect & store
No	MR C1.1 Building Reuse	A	Existing building will be deconstructed
	MR C1.2 Incorporated into MR C1.1		
	MR C1.3 LEED Credit Not Used		
Yes	MR C2.1 Construction Waste Management	C	Contractor to manage a Waste Management Plan
	MR C2.2 Incorporated into MR C2.1		
?	MR C3.1 Resource Reuse	D	Requires 10% (min.) of building materials
	MR C3.2 Incorporated into MR C3.1		
Yes	MR C4.1 Recycled Content	D	Requires 10% (min.) of building materials
	MR C4.2 Incorporated into MR C4.1		
?	MR C5.1 Local/Regional Materials	D	Requires 20% (min.) building materials be manufactured regionally
	MR C5.2 LEED Credit Not Used		
?	MR C6 Rapidly Renewable Materials	D	Requires 10% (min.) of building materials
?	MR C7 * Certified Wood	D	Certification tracking adds cost to the products
Yes	MR W1 ** Durable Buildings	D	Establish and design to a predicted service life for the building
8. Indoor Environmental Quality Requirements			
Yes	EQ P1 Minimum IAQ Performance	D	Meet minimum requirements of ASHRAE 62.1-2004
Yes	EQ P2 * Environmental Tobacco Smoke (ETS) Control	O	Zero exposure to environmental tobacco smoke
	EQ C1 LEED Credit Not Used		
	EQ C2 LEED Credit Not Used		
Yes	EQ C3.1 Construction IAQ Management Plan During Construction	C	Contractor managed plan during construction
?	EQ C3.2 Construction IAQ Management Plan Before Occupancy	C	May increase construction schedule
Yes	EQ C4.1 Low-Emitting Materials Adhesives & Sealants	D	Reduce the quantity of indoor air contaminants
Yes	EQ C4.2 Low-Emitting Materials Paints	D	Reduce the quantity of indoor air contaminants
Yes	EQ C4.3 Low-Emitting Materials Carpet	D	Reduce the quantity of indoor air contaminants
Yes	EQ C4.4 Low-Emitting Materials Composite Wood	D	Reduce the quantity of indoor air contaminants
Yes	EQ C5 Indoor Chemical & Pollutant Source Control	D	Avoid building occupants exposure to hazardous chemicals
	EQ C6.1 LEED Credit Not Used		
	EQ C6.2 LEED Credit Not Used		
	EQ C7.1 LEED Credit Not Used		
	EQ C7.2 LEED Credit Not Used		
Yes	EQ C8.1 * Daylight & Views	D	Comply with DFD Daylighting Standards
	EQ C8.2 LEED Credit Not Used		
9. Operation & Maintenance Requirements			
?	** Operation & Maintenance	O	
10. Purchasing of Furniture, Fixtures and Equipment Requirements			
?	** Purchasing of Furniture, Fixtures and Equipment	A	
11. Accountability, Verification, and Reporting Requirements			
?	AR 1 ** Accountability for Sustainability	DSF	
?	AR 2 ** Verification during Project Design	DSF	
?	AR 3 ** Verification during Project Construction	DSF	
?	AR 4 ** Verification following Construction	DSF	
?	AR 5 ** Reporting on Construction Results	DSF	
LEED Goals			
No	Seeking LEED Certification	A	
Yes	LEED EB (Agency Operations Equal to LEED Existing Building)	A	
DSF Requirement / LEED Credit Comparison		Primary Responsibility	
Same as LEED 2.1 or 2.2 Credit		A	Agency - Planning, Budget Analyst
* DSF variation of LEED 2.1 or 2.2 Credit		D	Architect/Engineer
** DSF only Standard		DSF	Division of State Facilities
		C	Contractor
LEED Credit Not Used, Incorporated into another Standard or not supported		O	Agency - Operation & Maintenance

H.7 Commissioning

Level 2 Commissioning is desired for this project. Selection of an independent third party Commissioning Provider (CxP) will be initiated by the DFD Project Manager during the Preliminary Design Phase. The Commissioning process and the responsibilities of the parties involved are as described in the DFD Policy and Procedure Manual for Architects/ Engineers, Section Two, Commissioning.

H.8 Hazardous Substances

No hazardous substances, other than normal building maintenance type substances, will be used in the new facility. Control Areas for hazardous substances, as defined by the Wisconsin Commercial Building Code, are not required for the new facility.

H.9 Information Technology

See Section I, Conceptual Planning Narratives for a detailed description of Information Technology systems.

H.10 Daycare

Daycare considerations are not required for this project.

H.11 Fixed Equipment

Reference Section L.1 for a complete list of spaces and fixed equipment

H.11 Fixed Equipment

Reference Section L.2 for a complete list of spaces and fixed equipment

**14L2T Southeast Recreation Facility Replacement
Program Statement**



SECTION I

CONCEPTUAL PLANNING NARRATIVES

I.1 Overall Design Concept

The Overall Design Concept does not live solely within the building; a successful SERF project merges the performance of the facility for its users and the integration of the building into the surrounding campus and community. Here is a snapshot of Site and Building design concepts to that will resonate through the project.

I.1.1 Site

The new SERF project location at the intersection of Dayton Street and the East Campus Mall demands a thoughtful solution at a most significant location. The project must respect and incorporate principles from the Campus Design Guidelines:

- A composition of complex Neighborhoods
- Buildings and landscapes that successfully balance Function, Aesthetics, and Sustainability
- Create a physical learning environment
- Exhibit richness, unity, and balance
- Set the stage for spaces that capture the campus energy
- Work within the utility footprint constrictions and explore relocation at the east

I.1.2 Building

- Understand the needs and demands of the Madison climate
- The Entire facility should be inspired by “Wellness”
- Create neighborhoods of “Inclusion”
- Strive for maximum “Multi-Functionality” and “Flexibility”
- An “Educational Environment” that promotes relationships

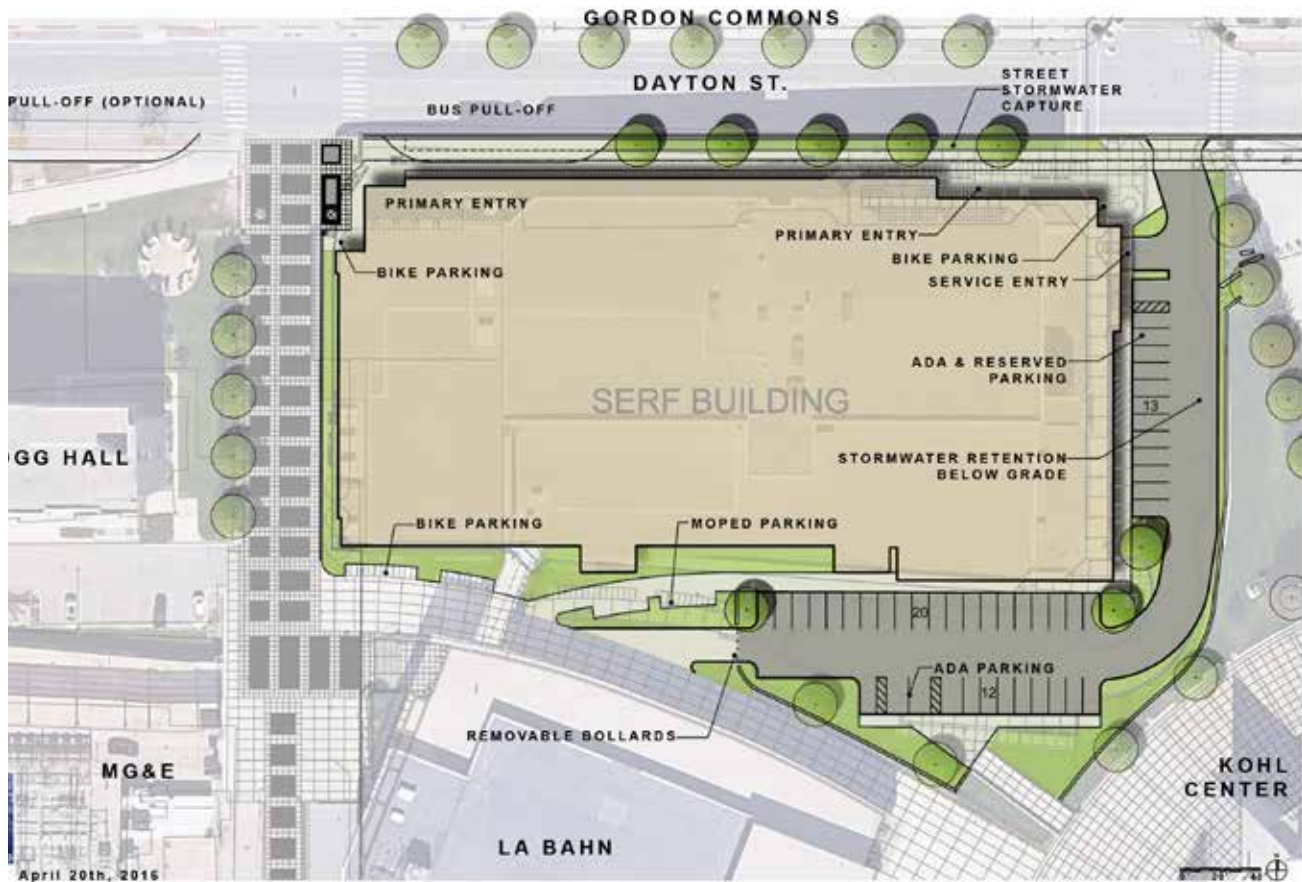
I.1.3 Overall Design Concepts

- A high energy “storefront” of activity along the entire Dayton Street façade
- Dynamic, interconnected, vertical space
- Efficient stacking and planning based upon the natatorium and “6-shooter” gymnasium layout
- Celebrate the NE and NW corners of the project site and their significant visibility
- Incorporate the design intentions of the Dayton Green Street initiative

I.2 Site Planning

The site design will provide all necessary circulation into and around the building, and it will advance the UW Madison Campus Master Plan's recommendation for "Green Street" improvements along Dayton Street. The site design will activate Dayton Street by providing pedestrian and bike amenities, ornamental plantings, and storm water management.

Storm water management will use bio-infiltration devices to treat runoff water from the site hardscape and street roadway by removing suspended solids and pollutants. Although the exact location of bio-retention devices is yet to be determined, the University will enter into a maintenance agreement with the City of Madison to maintain the plantings and functionality of the devices if occurring in the city right-of-way.



Site Plan Concept

Dayton Street has been identified as a "Green Street" as part of the larger Campus Master Plan and as part of this plan, particular attention will need to be directed towards the Dayton Street (north) face of the new SERF. The design of the north façade and streetscape will be informed by both the intent of the "Green Streets" plan and the needs of the Rec Sports program. The relationship of the building footprint to the property line and the site development that occurs between them will be iteratively explored in the design of the project. The Design Team will work with the various stakeholders to identify an effective approach to activate the street edge to the benefit of both the street experience and Rec Sports.

The following concept images illustrate early explorations in balancing desired street edge with building programmatic space needs.



Dayton Sidewalk Section Diagram - Concept A

Concept A reflects a more common street edge arrangement where the planted terrace is a buffer between the street and sidewalk. An advantage with this approach is the opportunity to integrate a drop-off area within the terrace as illustrated in Concept A1.

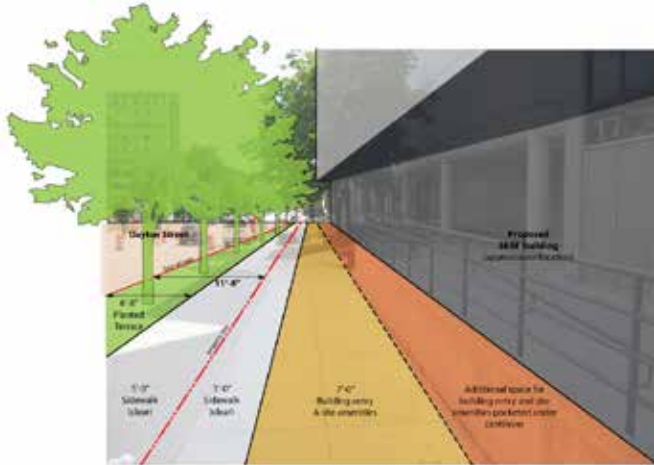


Dayton Street - Concept A1 - Aerial View



Dayton Street - Concept A2 - Aerial View

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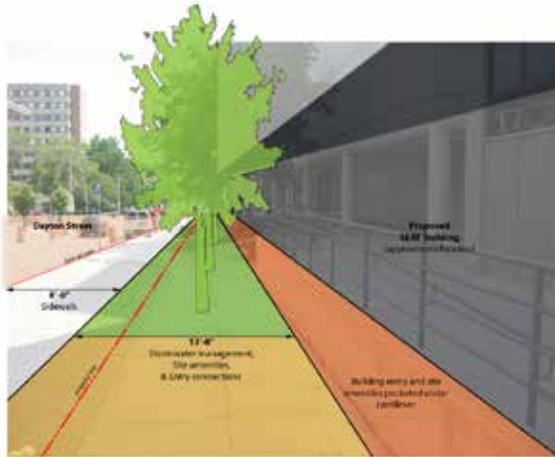


Concept B positions the sidewalk to be partially in the street right-of-way and partially on University property. An advantage with this approach is the opportunity to have planted terraces on both sides of the sidewalk.

Dayton Sidewalk Section Diagram - Concept B



Dayton Street - Concept B1 - Aerial View



Dayton Sidewalk Section Diagram - Concept C

Concept C reflects a more urban feel with the sidewalk adjacent to the street. An advantage with this approach is the opportunity to integrate the building with the planted terrace as illustrated in Concept C2.



Dayton Street - Concept C1 - Aerial View



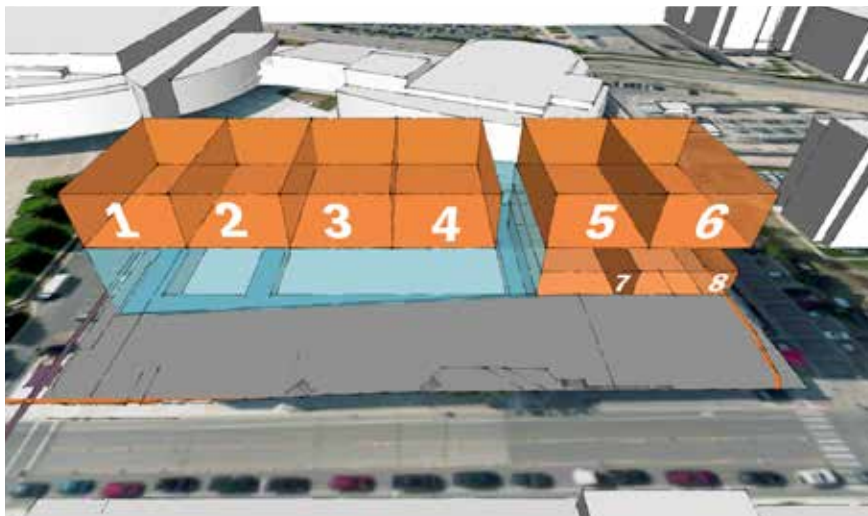
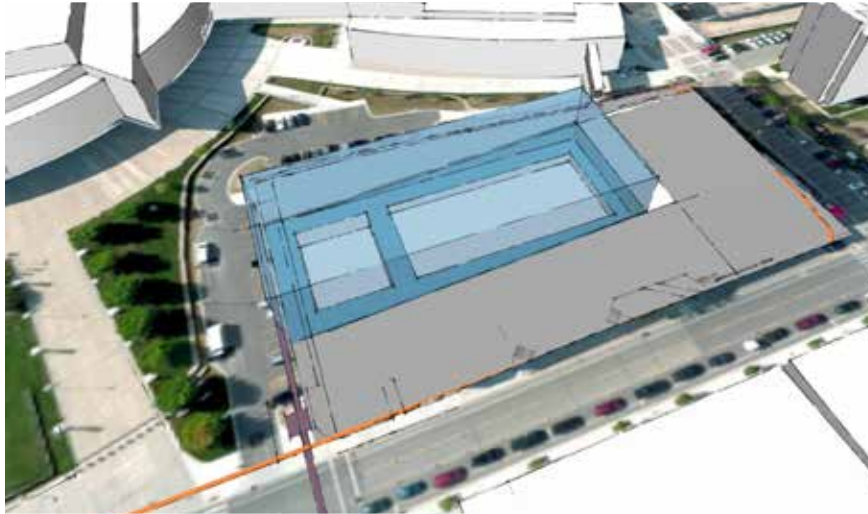
Dayton Street - Concept C2 - Aerial View

I.3 Architectural Planning

The full demolition of the existing SERF and construction of a new facility creates a blank canvas to work with, however the fixed size of the program, existing utilities, and property lines quickly establishes a limiting set of factors. Within these parameters, the amount of assignable program that Rec Sports needs to include into the facility will also be a challenge. Over 240,000 gross square feet of building will have to fit within roughly 70,000 square feet of site forcing a vertical stacked facility. Also, it needs to be take into account that the Natatorium needs to be a 3-story volume and each of the 8 basketball courts will be 2-story volume.

Natatorium

The primary piece of program that needs to fit onto the site will be the Natatorium. The 50-meter pool, diving well and surrounding deck area create an open and rigid plate at over 30,000 square feet. This space consumes nearly half of the ground level as well as the two levels above. The space needed to be positioned to align with the existing skywalk connection with La Bahn Arena where the Swimming and Diving locker rooms are located. Setting the Natatorium on the south edge of the building ensured this connection and also allowed this facility to neighbor the Kohl Center, La Bahn Area, and Nicholas-Johnson Pavilion establishing an Intercollegiate Athletics plaza feeding into each facility. This placement leaves the north edge of the property open and lets Rec Sports to showcase their spaces to the rest of campus.

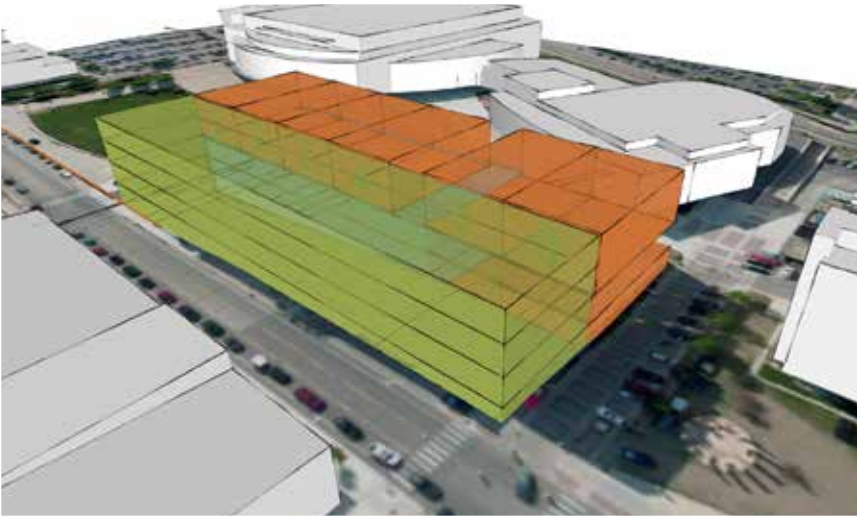


Gymnasiums

After placing the Natatorium, the 8 full-scale basketball courts need to be located. Immediately standard width of the Natatorium (109'-0") aligns well with the length of a recreational basketball court with runoff areas (104'-0"). This enabled courts 1-4 to easily reside over the Natatorium, but will also require a significant amount of long-span structure to support the gyms. The east-west dimensions of the site allowed for the continued marching of 2 additional courts. Courts 5 and 6 align with the other courts, but will be separated by recreation program and mechanical shafts. This will enable the two courts to be programmed independently of the 4-courts and also aid in reducing the sheer volume of a 6-court volume.

The final two courts would like to be stacked upon courts 5 and 6 but this would establish an occupied floor level beyond 74'-0" and establish the facility as a high-rise building. The impact of this designation would significantly increase the amount of egress stairs, establish great property setbacks, and a designated fire control room. The additional costs of these features would cause a reduction of the assignable square footage of recreational space.

Avoiding the high-rise designation pushed the last 2 courts below grade on the west edge of the building and align with the Natatorium. The separation of courts 7 & 8 enable the space to facilitate a different set of activities while the 6 upper level courts can be used for open recreation, intramural sports, and camps. Futsal is an ever popular activity on campus and these separate courts become an ideal location to gear the design the space around.



Fitness Areas

After the placement of the Natatorium and 8 gymnasiums, the rest of the assignable program can be inserted into the remaining footprint. The open volumes of space are to the south, leaving the north edge for the multiple layers of fitness and multi-purpose rooms. Pushing this program to the Dayton Street edge allows the primary driver of the facility, fitness and active bodies, to be showcased to the rest of the campus. Even though there is over 30,000 square feet of fitness, this space can be broken up and shaped to create a dynamic interior that informs the exterior mass.



Circulation

The final consideration in the planning of the new facility is the location of the vertical circulation cores. With four levels and a mezzanine, vertical circulation will not deviate as they slice through the floor plates. Four primary towers of circulation have been planned and set near the four corners of the site to ensure short travel distances to exits.

zantine, vertical circulation will not deviate as they slice through the floor plates. Four primary towers of circulation have been planned and set near the four corners of the site to ensure short travel distances to exits.

I.4 Structural Systems

I.4.1 Design Criteria

Codes and Standards

Design criteria for the structural analysis and design of this building will be based upon the following Codes and Standards:

Design Live Loads

- | | |
|--|------------|
| • Stairways, Corridors, and Lobbies | 100 PSF |
| • Bleachers (Fixed Seating) | 100 PSF |
| • Loading and Receiving Areas | 100 PSF |
| • Gym / Fitness | 100 PSF |
| • Offices | 100 PSF* |
| • Light Storage Areas | 125 PSF |
| • Mechanical Areas | 150 PSF** |
| • Flat roofs not designed as future floors | 25 PSF *** |
| • Vegetated Roof with 4" growth media substrate | 30 PSF |
| • Vegetated Roof with 6" growth media substrate | 50 PSF |
| • Vegetated Roof with 12" growth media substrate | 100 PSF |

(* Includes 10 PSF Partition Load)

(** But not less than Equipment Loads plus 25 psf)

(*** Plus Drifting Snow Load)

Lateral Loads for Wind

- | | |
|---------------------|----------|
| • Basic Wind Speed | 90 MPH |
| • Importance Factor | I = 1.00 |
| • Exposure | C |

Lateral Loads for Seismic Per IBC 2009

- | | |
|--|-------------------------------|
| • Spectral Response Coefficients | SDS = 0.068 g
SD1= 0.052 g |
| • Soil Site Class
(to be revised per geotechnical report) | C |
| • Seismic Use Group | I |
| • Seismic Design Category
(to be verified) | A |
| • Concrete Shear Walls | |

I.4.2 Foundation Systems

Overview: Based on the existing building construction the foundation is anticipated to be conventional shallow foundation in the form of spread footings and continuous wall footings. The foundation design to be verified with anticipated geotechnical report.

I.4.3 Basement Wall Construction

Wall Construction:

- Minimum concrete wall thickness = 12 inches.
- Equivalent fluid pressures at foundation walls: 55 PSF (to be revised per geotechnical report).
- Equivalent fluid pressures at foundation walls: 35 PSF (to be revised per geotechnical report).
- 4000 psi concrete.

I.4.4 Slab on Grade

Standard Slab on Grade in basement: 5 inch thick, 4000 psi concrete slab reinforced with welded wire fabric. Place on compacted granular fill. Special requirements will be determined from the geotechnical report.

- Polyethylene vapor barrier placed over compacted granular fill.

I.4.5 Structural Framing Systems

Overall Structural Concept

The SERF framing will be structural steel with concrete floor system. The floor will be framed with concrete topping on composite metal decks supported by steel beams, girders and trusses. The SERF will be framed as one structure with no expansion joints.

- Level 1, Pool Deck:
 - 5 inch thick, 4000 psi concrete slab with welded wire fabric. Place on compacted granular fill. Special requirements will be determined from the geotechnical report.
 - The pool structure is a concrete structure. The pool walls will be designed as retaining walls for when the pool is empty. Typically, the pool slab can be supported on grade for normal soil conditions. If groundwater is a concern and an underdrain system cannot be provided, groundwater can be designed for by either thickening the pool floor and walls to provide the necessary weight to resist the groundwater and/or the structure can be locked into the ground by extending the floor slab beyond the wall. A deep foundation may be needed throughout the pool structure to anchor the pool into the ground due to buoyancy forces due to the location of the water table. The location of the water table will be better understood once the geotechnical investigation is complete. Typically, hydrostatic relief valves are installed in the drains for additional groundwater precaution. Monitoring wells may also be needed if groundwater is present to verify the groundwater level prior to emptying the pool.
 - Corrosion management will be controlled by integrating the design of multiple systems including, steel surface preparation, architectural surface treatment, a tightly sealed pool volume envelope, and the mechanical systems. In general epoxy coating of the rebar will not be used except locally at the dive towers due to National Electrical Code grounding requirements.
- Level 1, Mezzanine – Main Entrance:
 - Composite metal deck on steel beams.
- Level 2 – Administration:
 - Composite metal deck on steel beams.
 - Over the lower basketball courts, 51 inch deep custom structural steel trusses will span east to west approximately 106 feet, spaced at 10 feet on center with 7 ½” concrete topping on metal deck.
- Level 3 – Basketball:
 - 11 to 12 foot deep custom structural steel trusses, supported on steel columns, and spanning north to south approximately 140 feet, spaced at 30 feet on center with 7 ½” concrete topping on metal deck. The trusses will need to be checked for vibration due to basketball activities. The space between the trusses is framed with 18 inch deep composite beam construction and concrete slab on composite metal deck with beams spaced at 10 feet on centers.
 - Over the diving area, 49 inch deep custom structural steel trusses will span east to west approximately 96 feet, spaced at 10 feet on center to maintain vertical clearances.
 - Over the administration area, 51 inch deep custom structural steel trusses will span east to west approximately 106 feet, spaced at 10 feet on center.
- Level 4 – Running Track:
 - Composite metal deck on steel beams.
- Mechanical Penthouse:
 - Composite metal deck on steel beams and long span joists.

- Roof:
 - 3-inch deep metal deck on deep long span open web joists spaced at 10 feet on centers.

Lateral Bracing Concept:

Concrete shear walls (Stairs and elevator cores) deliver lateral loads from diaphragms to the foundation system. The concrete topping slabs act as diaphragms to transmit lateral loads.

I.4.6 Skywalk Connection to the LaBahn Arena

Currently the skywalk from the LaBahn Arena is supported on a pier located about ten feet south of the existing SERF building. The skywalk structure cantilevers from the pier to reach to the existing SERF building. The skywalk connection to the new SERF building will be accomplished in a similar manner.

I.4.7 Future Expansion Effecting Structural

No vertical expansion is considered.

I.5 Environmental Graphics

Static Brand Integration for Interior and Exterior locations*

This could include but is not limited to:

- Swimming record board
- Design of signature score board
- Donor recognition
- Dimensional signage
- Wall murals
- Graphics on glass / privacy vinyl
- Custom millwork**
- Art program
- Exterior banners
- Exterior building graphics

NOTES:

*This does not include message schedules, fabrication or installation of interior life safety signage or fabrication/ installation of exterior signage

**It is understood that there may be overlap with the architectural finishes. This will be further developed through preliminary design.

Interactive Motion Media/Beacon Integration

This could include but is not limited to:

- Live data visualizations of facility activity/usage
- Live polling (daily interaction - wildly popular at Northwestern)
- Social media interactive cloud (Live Twitter/Instagram postings)
- Posting of events, current offerings, live cam views
- Beacon installation/placement at various outlets throughout the facility:
- Proximity locators: Every user of the facility can connect to data (via mobile device) related to equipment usage, dietary and other wellness information.

NOTES:

*It is understood that there may be overlap with the AV equipment budget. This will be further developed through preliminary design

I.6 Aquatic Systems

Description of Pools

50-Meter Competition Swimming Pool:

- The Competition Pool is 50 meters long by 25 yards wide and will provide for competition and training in 50 meter, 25 meter, and NCAA 25 yard distances. To accomplish multiple configurations with ideal spectator viewing the pool will be equipped with a movable bulkhead that is 6 feet wide and remains in the pool at all times. The pool tank length will be longer than 50 meters to accommodate the width of the bulkhead. Additional length for touchpad thickness will also be included.
- The pool will have eight lanes in the 50 meter direction and twenty in the 25 yard direction. The pool will have a minimum depth of 2.5 meters. To maximize the usage of this pool it will be equipped with an adjustable depth floor system (75' x 50') that will allow part of the pool to have any depth between zero and 2.5 meters. A trailing ramp will move with the floor system and provide transition to the fixed pool floor. The temperature of the pool will be between 79 and 81 degrees.
- The pool shall have a deck-level gutter profile with a raised parapet/headwall on the longitudinal ends. There will be 16 starting platforms provided which shall have adjustable foot plates, as well as backstroke platforms and handgrips. Starting blocks anchors shall be located at the west wall, the east wall, on the bulkhead, and along the south wall.
- Access to the pool will be provided by recessed treads/grab railings as well as a pool lift located near each end. This pool will include complete timing systems and scoreboard for hosting two simultaneous competitive meets.

50 METER COMPETITON POOL	
Surface Area:	12,800 square feet
Dimensions:	170 feet x 75 feet (includes bulkhead)
Water Temperature:	79 – 81 F
Water Depths:	2.5 meters throughout
Water Volume:	785,000 gallons
Turn Over Rate:	2,180 gal/min
Turn Over Time:	6 hours
Filtration Rate:	Regenerative Media
Backwash Rate:	TBD
Total Filtration Area:	TBD
Filter:	TBD
Heater:	TBD
Gutters:	Raised Parapet at ends and deck-level on sides.
Additional Features:	8 lanes of completion equipment including starting platforms, wave quelling lane lines, pace clocks, timing system, UV chloramine mitigation system

Diving Pool:

- The Diving Pool has dimensions of 75 feet by 56 feet with a depth of 5 meters. The temperature of the pool will be between 84 and 87 degrees. The pool will have two 1-meter springboards, two 3-meter springboards, and platforms of 1, 3, 5, 7.5, and 10 meter heights. An air sparger system will be provided below five of the plummets to allow for soft landings during training. The pool as well as the springboards and platforms are designed to meet the USA Diving, FINA and NCAA required dimensions. The pool floor will be a dark color to provide maximum visual contrast.

- The pool will have eight, 25 yard lanes to accommodate lap swimming and other programs. Access to the pool will be provided by exit stairs, recessed treads/grab railings as well as a pool lift. Pool will be equipped to include multiple video cameras, recorders, and monitors to allow divers to view replays.

DIVING POOL	
Surface Area:	4,200 square feet
Dimensions:	75 feet by 57 feet
Water Temperature:	84 - 87 F
Water Depths:	5 meters
Water Volume:	538,000 gallons
Turn Over Rate:	1,494 gal/min
Turn Over Time:	6 hours
Filtration Rate:	TBD
Backwash Rate:	TBD
Total Filtration Area:	TBD
Filter:	TBD
Heater:	TBD
Gutters:	Deck level
Additional Features:	UV chloramine mitigation system, water surface agitators, starting block anchors

Swim-In-Place Pool:

- The swim-in-place pool will be a manufactured product - Endless Pool Elite model. The pool will be elevated completely above the pool deck with access by stairs and/or a pool lift. It will have dimensions of 8 feet by 14 feet with a depth of 39 inches. It is designed to allow stationary swimming at speeds up to 51 seconds per 100 yards. It will be equipped with video camera and analysis tools as well as underwater mirror. The temperature of this pool will normally be between 84 and 87 degrees but can be elevated to 96 degrees when required as a diver warming pool.

Pool Tanks

- **Pool Structures:** The pool floors will be constructed of steel reinforced cast-in-place concrete. Walls and gutter will be prefabricated stainless steel/PVC (Myrtha) or steel reinforced concrete.
- **Gutter Profile:** The gutter profile for the Competition Swimming Pool and the Diving Pool is deck level with slightly sloped perpendicular grating. This provides continuous surface skimming on the entire perimeter of the pool. The gutter profile is angled so that the deck is 1.5 cm above the static water level of the pool. A raised concrete or prefabricated steel/PVC parapet is provided at the starting and turning ends of the competition swimming pool to support the starting blocks and touch pads.
- **Skimmers:** The swim-in-place pool shall employ skimmers with adjustable weirs.
- **Pool Finish - Tile:** Slip resistant tile shall be used horizontally and vertically and at the water line of the pool gutter. The tile shall also be used in both the Competition Pool and the Diving Pool for wall and floor lane markings. The color for the wall and floor marking shall be a contrasting color. For enhanced visibility a tile band at the nosing of all steps, ledges, and benches shall be a contrasting color to the pool finish.
- **Pool Finish – Myrtha PVC:** With this pool option the pool floor will be finished with a PVC membrane and the stainless steel walls will have a chemically bonded PVC finish.
- **Depth markings and warning signs:** Each pool will be required to have depth markings and warning signage. This will be provided in contrasting ceramic tile on the pool perimeter deck. “DEPTH VAR-IES” signs will be provided at all pool areas adjacent to the adjustable floor. Actual water depth will be indicated by a wall mounted gauge.
- **Underwater Pool Lighting:** LED underwater pool lights may be provided in the Competition Pool and Diving Pool.

Mechanical/Chemical Systems

Filtration: The Competition Swimming Pool and Diving Pool shall be designed using a Regenerative Media Filter to maximize water clarity and minimize water usage (backwash).

- A Regenerative Media (RM) filter reduces water consumption drastically by only needing to be cleaned every four to six weeks. This in turn reduces the chemical usage and heating demands since such a small amount of water is leaving the system. The RM filter is also capable of filtering smaller particulate matter from the water than a high rate sand system. By filtering smaller particulate matter, the water clarity is vastly improved. These are both accomplished by filter elements coated with filter media - either Perlite or diatomaceous earth (D.E.). These filter elements are coated with the filter media to separate particulate matter as it passes. At least once a day, the filter enters a bump cycle, in which all of the filter media and particulate matter are redistributed on the filter elements. Every one to two months these tanks are completely drained, filled, and drained again to clean the filter. New media is applied when the tank is refilled via a vacuum transfer system.
- The bump cycle is completely automated. The draining of the filter and refilling the media is a manual process assisted by the filter components.
- The RM filter has a significantly smaller footprint than traditional sand filters.

Recirculation System

- **Gutter:** This surface skimming system will be employed on the Competition Pool and Diving Pool in tandem with main drains and will be sized to accommodate 100% of the recirculation rate. The anticipated operation of the systems will be 80% of water required for circulation over the gutters and 20% through the main drains. The pool water will be supplied back to the pools using floor/wall inlet system.
- **Main Drain:** The Main Drains shall be designed to accommodate 100% of the flow from the pool. For the competition and diving pools this drain will be by gravity. All drains will be provided in duplicate to help prevent entrapment. Main drain sumps will be equipped with hydrostatic relief valves.
- **Inlets:** Filtered and chemically treated water will be returned to the pools via a system of wall and/or floor inlets.
- **Surge Tanks:** The water elevation of the Competition Pool and Diving Pool is constant as established by the rim of the gutter. The water displaced by swimmers by their volume and action must be stored somewhere other than the pool vessels. These “surge tanks” are sized to accommodate both active and static surge. These tanks are likely to be located below the floor of the pool mechanical room. The top of the tanks will be at deck level approximately the same as the static water level of the pool. Each tank will have a hatch for periodic access to the inside of the tank.
- **Piping:** All pressurized pool piping will be Schedule 80 PVC. All other piping will be Schedule 40 PVC.
- **Pumps:** The recirculation pumps are located in the pool mechanical room with adequate space for servicing. Pump Motors for the filtration systems will be provided with variable frequency drives to maximize efficiency. Pumps for all filtration systems will deliver water via schedule 80 PVC piping. Water will be heated and chemically treated as determined by an automatic water chemistry controller.

Heating System: The pools will be likely be heated with multiple sources to maximize efficiency.

Chemical Treatment Systems

- **Sanitizer:** There are multiple components needed for the sanitization of the pools. The use of Pelletized Chlorine (calcium hypochlorite) will be used as the primary sanitizer. This product will be stored in the Chlorine room and delivered to the pool system via erosion feeders. Alternatively, a liquid chlorine feed system may be utilized.
- **pH Buffer:** Chemical feeders for muriatic acid will be peristaltic type pumps. A double-walled plastic acid tank by will be provided. Chemical feed pumps will be furnished and connected to the filtered water return lines to the pool systems. A CO2 delivery system may be used in addition to or in lieu of

the muriatic acid feed system.

- **UV:** Each pool will be designed with a Medium Pressure Ultraviolet supplemental sanitizing system, which will sterilize the water, significantly reducing chloramine formation and mitigating common recreational water pathogens.
- **Chemical Controllers:** A programmable chemical automation system will be furnished for the pools for continuous monitoring of water chemistry and for automatic control of the chemical feeders, heater, UV system, and water level.

Deck Equipment: The natatorium will be equipped with appropriate deck equipment including lifeguard chairs, grab rails, exit rails, backstroke stanchion posts, crowd control stanchion posts, pool lifts.

Maintenance and Safety Equipment: The pools shall be provided with required maintenance and safety equipment including vacuum, cleaning tools, water test kits, spine board, rescue tubes, first aid kit, etc.

I.7 Plumbing Systems

General

The following summarizes the design criteria and requirements for the plumbing elements for the project.

Design Parameters

The following codes and guidelines will be followed.

- The Department of Safety and Professional Services, Industry Services Division
- Division of Facilities Development (DFD) Standards and Guidelines
- University of Wisconsin-Madison Recommendations and Campus Standards
- LEED water efficiency guidelines for fixtures

System Description

The plumbing design will include the following systems:

- A 6" combination water service (Designed by the Civil Consultant) will provide potable and fire suppression systems.
- 4" exterior foundation drain tile system will be installed at sub-grade levels.
- Interior sanitary and clear water drain waste and vent systems (Exterior laterals designed by the Civil Consultant)
- Interior roof conductors (No routing over pool areas)
- Domestic Potable cold, hot and hot water return water systems
- Storm pool deck drainage
- Pool equipment connections

Materials

Materials, fixtures and equipment will follow DFD design guide lines and peer review comments and will generally include:

- Corrugated polypropylene perforated drain tile piping
- PVC waste and clear water piping
- CPVC waste piping for high temperature discharges
- Type L copper and CPVC water piping
- Piping insulation
- Valves with stainless steel trim
- Low flow plumbing fixtures
- Triplex water softeners with brine recovery
- Clear water and sanitary duplex sumps and pumps
- Water Meter

- Duplex booster pump
- Centralized steam generated water heaters with local two stage hi/lo thermostatic mixing valves
- Hot water return with circulating pumps
- Corrosion resistant hanger materials in wet areas.

I.8 Fire Protection Systems

General

This following summarizes the design criteria and requirements for the fire protection elements for the project.

Design Parameters

The following codes and guidelines will be followed:

- The Department of Safety and Professional Services, Industry Services Division
- Division of Facilities Development (DFD) Standards, Guidelines and Peer Review
- University of Wisconsin -Madison Recommendations and Campus Standards
- National Fire Protection Association Standards 13, 14 and 20
- City of Madison Fire Department Review Comments

System Description

The fire suppression system will provide protection per the following design classifications as described per NFPA 13.

- | | |
|---------------------------|---------------------------|
| • General Offices | Light Hazard |
| • Classrooms | Light Hazard |
| • Recreation / Pool Areas | Light Hazard |
| • Mechanical Rooms | Ordinary Hazard – Group 1 |

The fire protection design will include the following systems.

- Double detector check valve to isolate plumbing potable water
- Due to the height of the building, fire and jockey pumps will increase the water pressure to supply a minimum of 100 psi to the roof automatic standpipes.
- Automatic standpipe system will be located in the stairs.
- A combination automatic standpipe/riser in one stair will provide sprinkler distribution to each floor or zone.
- Each floor will be zoned.

Materials

Materials will follow DFD design guide lines and peer review comments and will generally include:

- Schedule 10 and 40 black steel pipe and ductile iron fittings.
- Flexible sprinkler drops in accessible ceiling spaces
- Color coordinated concealed sprinkler heads
- Corrosion resistant hanger material in wet areas.

I.9 Heating, Ventilating and Air Conditioning Systems

I.9.1 HVAC Design Conditions

Outside

Summer: 87°F dry bulb, 75°F wet bulb

Winter: -15°F

Inside Space (Public Areas, classrooms, offices, meeting rooms, corridors, etc.)

Cooling Design: 76°F, 60% RH maximum

Heating Design: 68°F, No humidification

Inside Space (Recreation, fitness, locker, multi-purpose, etc.)

Cooling Design: 76°F, 60% RH maximum

Heating Design: 68°F, No humidification

Inside Space (Natatorium – pool, deck, and spectator areas)

Cooling Design & Heating Design will be based on the pool water temperature and discussions with Campus.

Relative Humidity in the space will be maintained between 50%-60%.

Inside Space (Electrical and Mechanical Rooms)

Cooling Design: No mechanical cooling or humidity control.

Heating Design: 60°F, no humidification

Inside Space (IT Spaces)

Cooling Design: 72°F, 55% RH maximum

Heating Design: 68°F, No humidification.

We will confirm these design criteria with the equipment types to be installed in the IT spaces and with campus and DFD design standards.

Exhaust Rate:

75 cfm/toilet fixture

2 cfm/sqft or 75 cfm for janitor closets

2 cfm/sqft for shower areas

0.5 cfm/sqft for locker rooms

0.5 cfm/sqft for Natatorium

- Low exhaust at the pool deck will be required to maximize the capture effectiveness of chloramines.

I.9.2 Sound Level Guidelines:

Indoors

HVAC related noise will conform to the 2011 ASHRAE Application Handbook, Chapter 48, Sound and Vibration Control, Table 1.

Private Offices	NC/RC30
Open Office	NC/RC40
Corridor/Lobby	NC/RC40
Conference Rooms	NC/RC30
Classrooms	NC/RC 30
Staff/Break Rooms	NC/RC40
Recreation/Gymnasiums	NC/RC45

*Room criteria per ASHRAE will be in the approximate range of this level.

Outdoors

All external HVAC Equipment will be selected or treatments will be added to meet the City of Madison Noise Ordinance.

I.9.3 Ventilation

Ventilation rates will be based on American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) Standard 62.1-2010. SPS 364 Table 364.0403 using 15 cfm/person will also be used to confirm ventilation rates. If the determined ventilation rate using ASHRAE 62.1 is less than the calculated rate using SPS 364, the ASHRAE 62.1 rate will be used as long as it meets SPS 364 rate based on 7.5 cfm/person, which is the Wisconsin code minimum requirement.

For large, high occupancy areas, occupancy level indexing strategies like CO2 reset and/or occupancy sensors shall be incorporated as an energy cost reduction during partial or unoccupied hours for these spaces.

I.9.4 Temperature Controls

All controls will be DDC with electric actuation. Controls will be tied into the campus Johnson Control System. DDC panels will be located throughout the building as required to provide adequate capacity.

I.9.5 Testing, Adjusting, Balancing

The HVAC systems will be tested, adjusted and balanced in accordance with NEBB or AABC standards and procedures and in accordance with DFD requirements.

I.9.6 Heating System

The building will use high pressure steam, generated by the campus physical plant. A high pressure steam main and pumped condensate main will be extended from a new steam pit located on the east side of the building. High pressure steam will be reduced to 10 psig within the northwest basement mechanical room with a parallel 1/3 – 2/3 pressure reducing valve arrangement. A safety relief valve set to 15 psig and drip pan elbow will be provided with the relief routed to the roof. A steam meter will be used to meter all steam and condensate usage for the building. A bypass will be provided around the condensate meter to allow for servicing. A base mounted or basin style condensate receiver will be installed in the mechanical room near the heat exchangers and PRV station to collect all condensate and return to the central plant. Duplex pumps will be installed for the condensate receiver. A condensate meter will be provided to measure the condensate discharged to the Campus loop.

Low pressure steam will be routed to duplex steam-to-water shell and tube heat exchangers to produce heating hot water. A 1/3 – 2/3 control valve arrangement will be used for to control the steam to the heat exchangers. Two float and thermostatic steam traps will be installed for handling the condensate from the heat exchanger. Each trap will be sized for 100% of the condensate from the heat exchanger.

The low pressure steam will also be extended to the domestic water heaters which will be provided by the plumbing contractor. All traps and controls for the domestic water system shall be provided with the water heaters.

The use of modular energy recovery chillers to supplement the campus chilled water system will be evaluated as an energy savings measure. The energy recovery chiller can be used for building cooling while rejecting heat to the building heating system to cover HVAC reheat load.

I.9.7 Heat Distribution

Heating water will be produced by steam-to-water shell and tube heat exchangers located in the basement mechanical room. Two base mounted heating water pumps with variable frequency drives will be used to distribute the heating water to all heating coils in the building. The heating water pumps shall each be sized for 100% of

the flow to provide a fully redundant pump. The variable frequency drives will be controlled by a differential pressure in the system piping.

If energy recovery chillers are utilized as discussed above a separate low temperature heating water system may be provided to serve the building's terminal air box heating coils. This will be evaluated through the design process.

A bladder type expansion tank, side stream filter with pot feeder and air separator will be installed as part of the heating water system. Makeup water will be provided to the heating water system by the domestic water system through a back flow preventer provided by the plumbing contractor to protect the domestic water system.

Air handling units will be heated with heating water that is continuously pumped in the winter months.

I.9.8 Cooling System

Chilled water, generated by the campus physical plant, will be used for building cooling. Chilled water will be routed from the Campus loop east of the project site to the building, entering in the basement mechanical room. The chilled water piping will be direct buried ductile iron piping. A BTU meter will be provided to record the chilled water usage for the building and to report through the campus Johnson Control System.

The use of energy recovery chillers to supplement the campus chilled water system will be evaluated as an energy savings measure. The energy recovery chiller can be used for building cooling while rejecting heat to the building heating system to cover HVAC reheat load.

I.9.9 Cooling Distribution

Chilled water will be routed from the basement mechanical room to the air handling units, fan coil units, and computer room units within the building.

Two base mounted heating water pumps with variable frequency drives will be used to distribute the chilled water to all cooling coils in the building. An automated bypass valve will be provided to bypass the chilled water pumps when adequate pressure is available from the Campus loop. The chilled water pumps shall each be sized for 100% of the flow to provide a fully redundant pump. The variable frequency drives will be controlled by a differential pressure in the system piping.

If chilled beams are utilized in the office suite as discussed under the Air Systems section a separate higher temperature chilled water loop with chilled water pumps will be provided to serve the chilled beams. This is required to prevent condensation from occurring at the chilled beams.

I.9.10 Air Systems

Air Handling Units

All air handlers will be provided with MERV 8 pre-filters and MERV 13 final filters. MERV 8 filters will be provided upstream of energy recovery wheels on the exhaust side. Economizer will be provided for all air handling units.

Natatorium

- Air handling units will be provided to heat, cool, and dehumidify the natatorium. The units will be variable volume and include energy recovery and specialized pool dehumidification capabilities. Variable volume units will allow different airflow rates during normal occupancy and swim competitions. The

quantity of air handling units will be determined during the design phase.

Level 1 Two Court Gymnasium

- One air handling unit will be provided to heat and cool the gymnasium. The unit will be variable volume.
- Demand controlled ventilation will be provided based on an occupancy schedule and CO2 levels.
- Energy recovery will be evaluated further as part of design process. Energy recovery is not required per code requirements, but will be evaluated as the design continues to determine if the system will payback in energy savings.
- Displacement ventilation will be evaluated for the gymnasium as part of the design process. Displacement ventilation has the ability to increase the energy efficiency of the system and improve the indoor air quality of the spaces.

Administrative Suite

- The HVAC system serving the Administrative Suite will be evaluated as the design process to determine the best system for this area. Systems that will be evaluated include VAV with reheat and Chilled Beams. The VAV with reheat system would include a dedicated variable volume air handler for the Administrative Suite. The Chilled Beam system would include a dedicated outside air system with heat recovery for the Administrative Suite.
- Occupancy sensors and CO2 sensors will be interlocked with terminal air units where feasible to reset outside air levels when spaces are at reduced occupancy levels.

Locker Rooms and Toilet Rooms

- Air handling equipment will be provided to heat, cool, and exhaust the locker/team rooms and toilet spaces. The air handling equipment will be variable volume 100 percent outside air units with terminal air boxes serving each zone. Terminal air boxes will be provided on both the supply and exhaust ductwork to precisely control the supply and exhaust airflow at each zone.
- Energy recovery will be provided as required per code and ASHRAE 90.1.
- Occupancy sensors will be interlocked with terminal air units to reset ventilation/exhaust levels when spaces are at reduced levels or unoccupied.

Fitness Areas

- Air handling equipment will be provided to heat, cool, and ventilate the fitness areas. These spaces would include the large open fitness areas as well as the various enclosed spaces such as multipurpose rooms and racquetball courts. The equipment will be variable volume with reheat.
- It is anticipated that multiple air handlers will be required for this system due to the size and locations of the spaces served and airflow requirements.
- Displacement ventilation will be evaluated for the fitness areas as part of the design process. Displacement ventilation has the ability to increase the energy efficiency of the system and improve the indoor air quality of the spaces.
- Energy recovery will be evaluated further as part of design process. Energy recovery is not required per code requirements, but will be evaluated as the design continues to determine if the system will payback in energy savings. Due to the energy goals of the project it is anticipated that energy recovery will be utilized.

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- Occupancy sensors and CO2 sensors will be interlocked with terminal air units where feasible to reset outside air levels when spaces are at reduced occupancy levels.

Level 3 Two Court Gymnasium

- One air handling unit will be provided to heat and cool the gymnasium. The unit will be variable volume.
- Demand controlled ventilation will be provided based on an occupancy schedule and CO2 levels.
- Energy recovery will be evaluated further as part of design process. Energy recovery is not required per code requirements, but will be evaluated as the design continues to determine if the system will payback in energy savings.
- Displacement ventilation will be evaluated for the gymnasium as part of the design process. Displacement ventilation has the ability to increase the energy efficiency of the system and improve the indoor air quality of the spaces.

Level 3 Four Court Gymnasium

- One air handling unit will be provided to heat and cool the gymnasium. The unit will be variable volume.
- Demand controlled ventilation will be provided based on an occupancy schedule and CO2 levels.
- Energy recovery will be evaluated further as part of design process. Energy recovery is not required per code requirements, but will be evaluated as the design continues to determine if the system will payback in energy savings.
- Displacement ventilation will be evaluated for the gymnasium as part of the design process. Displacement ventilation has the ability to increase the energy efficiency of the system and improve the indoor air quality of the spaces.

Mechanical Spaces and Stairwells

- Mechanical spaces, Stairwells, and other non-occupied utility spaces will be heating only and served with unit or cabinet heaters.

Space Zoning

Multipurpose rooms will all be provided with individual terminal air units. Occupancy sensors will be connected to the terminal air box to reduce or shut off air flow when the space is unoccupied. CO2 control will be provided when required per code or ASHRAE 90.1 for demand controlled ventilation.

Office spaces will have a single terminal air box serving multiple offices based on like exposure and space usage. Occupancy sensors may be tied into the terminal air control to reduce or shut off air flow when space is unoccupied.

Open fitness areas will be provided with multiple terminal air boxes to provide proper temperature control for the various spaces.

Space Destratification

Air stratification within the high volume areas will need to be mitigated. The reduced stratification will provide more consistent temperatures throughout the space and also result in reduced energy within the building. Destratification fans can be used to reduce stratification in the winter months and to help facility cooling in the summer months. Low return grilles can also be used to help mitigate air stratification, but it is less effective than destratification fans. It does not provide the cooling effect in the summer months that low velocity destratification fans provides.

I.10 Electrical Systems

I.10.1 Lighting

Lighting will be served at 277 volts primarily. 120 volts would only be used for limited applications when a 277 volt option is not available.

LED fixtures with a color temperature of 4000 K will be used for all general lighting.

Controls: Occupancy sensors will be used throughout. Multi-level manual wall switches will be provided where additional control of light level is desired. Digital time switches will be used in rooms where obstacles make occupancy sensors undesirable, such as mechanical rooms. Interior light sensors will be used where access to daylight can provide sufficient illumination.

Strength, Cardio and Fitness Areas – High-angle illuminance, 2x4 recessed volumetric luminaire.

Recreation / Gymnasiums – High bay luminaires with multi-level control.

Multi-Purpose Rooms – High bay luminaires with multi-level control.

Racquetball Courts – Impact resistant luminaires.

Locker Rooms and Restrooms - Utility and decorative lighting in these areas to be determined based on architectural design and use.

Administration and Office Areas – Multi-level 2x4 volumetric luminaires.

Natorium – Natatorium grade indirect, high bay, asymmetric with multi-level control for competition.

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Area Description	Luminaires	Controls	Light Levels
Lobby Public Areas	LED suspended decorative for ambient and LED up-lighting at the columns and structure for accent.	Centralized lighting control system.	10-20 footcandles
Lounge Spaces	LED suspended decorative for ambient and LED wall wash on vertical surfaces.	Centralized lighting control system.	10-20 footcandles
Natatorium Pool and Deck Areas	Natatorium grade luminaires for wet corrosive environments. Indirect high bay LEDs Underwater luminaires	Centralized lighting control system with multi-level switching for competition use.	100 footcandles @ Start, Finish, Turning Lines 75 footcandles @ Water 50 footcandles @ Deck
Natatorium Spectator Areas	Natatorium grade luminaires for wet corrosive environments.	Centralized lighting control system with multi-level control.	30 footcandles @ 2'-6" AFF
Recreational Gymnasiums	High bay LEDs	Centralized lighting control system with multi-level control.	80 footcandles @ 3' AFF
Fitness Rooms	2'x4' recessed with high angle illuminance distribution	Occupancy sensor with multi-level switching.	30 footcandles @ Floor
Personal Training Rooms	2'x4' recessed with high angle illuminance distribution	Occupancy sensor with multi-level switching.	30-50 footcandles
Training-First Aid Room	2'x4' recessed with high angle illuminance distribution	Occupancy sensor with manual switching.	50-100 footcandles @ 3' AFF
Racquetball Courts	Impact resistant	Occupancy sensor with manual switching.	75 footcandles @ 3' AFF
Strength Training and Free Weights Areas	2'x4' recessed with high angle illuminance distribution Indirect over benches	Occupancy sensor with multi-level switching.	30 footcandles @ Floor
Locker Rooms	2'x4' recessed with high angle illuminance distribution	Occupancy sensor with manual switching.	5-10 footcandles @ Floor 10-20 fc @ 3'-6" Showers 30 footcandles @ Vanity
Broadcast Rooms		Occupancy sensor with manual dimming to 0.1%.	20-40 footcandles @ 2'-6"

Area Description	Luminaires	Controls	Light Levels
Multipurpose Room	2'x4' recessed with high angle illuminance distribution	Stand-alone low voltage control system with dimming capability.	50 footcandles
Open Office	Linear suspended with 30% up and 70% down distribution. Task light in each cubicle.	Centralized lighting control system with daylighting controls.	30 – 50 footcandles
Private Office	2'x4' recessed with high angle illuminance distribution.	Occupancy sensor with multi-level switching.	50 footcandles
Small and Medium Conference/Meeting Rooms	2'x4' recessed with high angle illuminance distribution.	Occupancy sensor with multi-level switching.	50 footcandles
Large Conference/Meeting Rooms	Linear suspended with 40% up and 60% down distribution. LED downlights at perimeter.	Occupancy sensor with multi-level switching. Dimming for downlights.	50 footcandles
Classrooms	2'x4' recessed with high angle illuminance distribution.	Occupancy sensor with multi-level switching	30-50 footcandles
Staff Areas	2'x4' recessed with high angle illuminance distribution.	Occupancy sensor with multi-level switching.	50 footcandles
Restrooms	Linear recessed along the wet wall and downlights along the opposite wall.	Occupancy sensor with manual switch.	30 footcandles
Concessions Area	2'x4' recessed with high angle illuminance distribution.	Occupancy sensor with manual switch.	50 footcandles
Utility Spaces	2'x4' lensed troffer.	Occupancy sensor with manual switch.	30 footcandles
Electrical/Data Rooms	1'x4' suspended industrial.	Manual switches.	50 footcandles
Mechanical Rooms	1'x4' suspended industrial.	Local timer switch.	30 footcandles
Stairwells	Narrow aperture suspended from the landings.	Centralized lighting control system.	20 footcandles
Outdoor Roof Area	LED bollards and building lighting.	Centralized lighting control system, daylight sensors.	0.5-5 footcandles

I.10.2 Power

A new 15 KV switch lineup will be provided in the main electrical room. The lineup will consist of two non-fused loop switches and one fused feeder switch. This line-up will feed a 1500 KVA step down transformer with a secondary voltage of 480/277 volt, 3-phase, 4-wire, which will also be located in the main electrical room.

The main switchboard will be located in the main electrical room on the first floor and be rated for approximately 1600 amps at 480/277 volts.

Centrally located dry type step down transformers will be used for power distribution to 208/120 volt loads.

480/277 volt and 208/120 volt general power branch panels will be provided on each floor in each area for local distribution of power.

Electronic secondary metering will be incorporated on all major distribution switchboards.

Surge protection (SPD) for all main switchboards and distribution panels will be used.

General purpose and specific use receptacles will be provided based on the requirements of the Users and current version of the National Electrical Code.

In general, six receptacles shall be the maximum connected to any one-branch circuit. Due to layout constraints, not every circuit will be maximized to six devices. The maximum load on any one circuit shall not exceed 12 amps.

Miscellaneous equipment with a load greater than 3 amps should be connected to a dedicated circuit. Equipment less than 3 amps can be circuited with general-purpose receptacles but the connected load for the circuit shall not exceed 12 amps.

No more than two workstations should be served by any one branch circuit.

Receptacles will be placed around the perimeter of the rooms as required, with an estimated duplex outlet every 15'-0". Floor outlets will be utilized where required to support equipment provided and is anticipated in the cardio fitness areas.

I.10.3 Emergency Power

The emergency power system shall consist of a standby emergency generator rated at 480/277 volt, 3-phase, and 4-wire. The generator will be located interior to the building in a dedicated room.

All components of the emergency branch shall be fully selectively coordinated to comply with NEC requirements. This may be done with fusible branch panelboards.

The generator will be diesel fired with fill pipes located above grade external to the building.

Separate transfer switches shall be provided for emergency, legally required and optional standby branches. All transfer switches shall be closed transition.

The estimated generator size is 500 KW based on the following equipment connected to the generator:

- Exit and egress lighting
- Fire alarm
- Emergency voice/alarm communication systems
- Elevator cab lighting
- Fire pump, if required
- DDC Panels
- Heating water pumps
- Condensate return pumps
- Sewage ejector pumps
- Sump pumps
- Technology equipment and associated cooling
- Miscellaneous loads as required by the user groups

I.10.4 Lightning Protection

Lightning protection system will be required.

I.11 Telecommunication Systems

I.11.1 Fire Alarm

A complete addressable fire alarm system will be installed.

System initiation will consist of individually addressable analog smoke and heat detectors, as well as addressable manual pull stations.

Beam detectors will be provided in large areas, such as atriums or large gathering spaces.

A graphics annunciator will be located at the main fire alarm panel location or user's workstation. Additional remote LCD annunciators will be located at the main entrances and as required by the local fire department.

System notification will be ADA and NFPA compliant. Audible notification will be horn.

I.11.2 Security

Card access will be provided for all exterior doors, critical mechanical spaces, telecommunications rooms, any personnel record storage and select interior doors as directed by the User Agency. The UW Police Department and Facilities Planning & Management will also direct the placement of the electronic access control system devices. The electronic safety and security system will be tied into the existing University Andover Continuum platform.

An IP based CCTV video surveillance system including PoE based cameras, camera mounts, and licensing shall be provided to cover entrances to the building, all point of sale stations, common areas as directed by the User Agency at a later date. The cameras must work with the University Milestone XProtect platform. Both indoor and outdoor cameras are anticipated to be a part of this project.

I.11.3 Communication Systems

One new 10' x 12' telecommunications service entrance shall be provided to serve the voice, data, security,

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paging, clock, and audio/video and television needs of the building. Additional 8' x 10' telecommunication rooms shall be provided to serve each floor in the building, no data outlet can be more than 295 feet from its telecommunications room. If any data outlet is farther than 295 feet from the single telecommunications room that serves its floor another telecommunications room will be required for that floor. There will be a minimum of (4) 4 inch conduits routed between the building service entrance room and each telecommunications room for backbone cabling. Each telecommunication room will house a minimum of one 84" tall data rack that will hold data patch panels, electronic network hardware, a UPS and ground bar. Quantity of data jacks and network electronics will be determined during design and this will determine quantity of data racks to be installed within each Telecommunications room. A minimum of one dedicated rack in the building service entrance is required. Any copper grounding required will also be housed in the building service entrance room. All telecommunications equipment will be grounded and connected to the electrical service entrance.

As stated in the telecommunications site work information, single-mode fiber optic cabling will be installed from the new manhole to the building. There will be a minimum of 24 strand of single-mode optical fiber cabling between the entrance room and each new each remote telecommunications room. The University and the User Agency will determine later in the design if a redundant fiber route will be required between all telecommunications rooms and the building entrance room for the project.

New 25-pair category 3 UTP will be installed between the new telecommunications service entrance to each remote telecommunications room for any required fax and elevator services for each floor.

New .500 backbone coaxial cable will be installed between the new telecommunications service entrance to each remote telecommunications room as an extension of a service providers signal.

Horizontal cabling (station) will consist of category 6 UTP for data and RG-6/RG-11 coax for television. Horizontal UTP cabling will be home run from the work area to the serving telecom room and will terminate on rack-mounted modular patch panels. Horizontal coaxial cabling will be home run from the work area to the serving telecom room and will terminate on the wall. The University will be rolling out a VoIP platform for all new building being constructed after June 2016. Sufficient data and coax information outlets shall be provided throughout the facility (locker rooms, administration, gymnasiums, multi-purpose rooms, strength, cardio and fitness areas and the natatorium) defined by the User Agency. Pathways will be provided to allow horizontal distribution utilizing wire basket cable tray through-out the entire building. All television locations will receive one category 6 and one coaxial cable.

Broadcast television connections should be included from the natatorium and multi-purpose rooms. The project will include a route between this building and the existing Kohl Center's broadcast room. Any and all final requirements are yet to be determined for this project.

Ceiling mounted data outlets will be installed to support future wireless access points at User Agency directed locations. Density of future wireless access points is anticipated to be one per 10 students.

The project should include provisions for a separate wireless network for communications between staff members on premise. All details about this network are not currently available.

Paging system shall be provided to cover the entire facility with a desktop microphone located at the reception area.

A Public Safety two-way radio repeater system shall be provided to cover the entire facility that meets IFC requirements.

A cellular telephone repeater system shall be provided to cover the entire facility.

Wireless GPS clock system shall be provided throughout the facility to include clocks in User Agency directed locations, necessary transmitters and antennas.

Rough-in for presentation audio video systems shall be provided in all Classrooms, Multi-purpose rooms, the Gymnasium, and the Natatorium. Other rooms such as strength, cardio and fitness where audio video requirements are determined by the User Agency will also receive rough-ins for data, power and any video back boxes.

I.12 Audio-Visual Equipment Planning

I.12.1 Rec Center Areas

Public Spaces

The AV systems within the public spaces will include distributed sound systems, a paging system, and digital signage. Audio in the public spaces will be zoned so that paging and announcements can be made to specific areas and the volume of each zone can be controlled independently. Paging to these areas will originate in member services but pages can be directed to each individual zone or all zones. Digital signage (digital display marketing) monitors will be strategically distributed throughout the public areas.

Wish List: An option will be developed for some technology to showcase the entire facility. This could take the form of a video wall with cameras placed throughout the entire facility to show courts availability. Additionally, these cameras could be viewed online over the campus network so students could see court availability remotely.

Fitness Spaces

The three fitness spaces will each include a zone-able sound system with different source selection and independent volume control for each zone. The sound systems will play back audio from an owner furnished paid music service. The fire alarm will interface with these sound systems and will mute all audio in the event of a fire alarm. Paging to these areas will originate in member services but pages can be directed to each individual zone.

In addition to audio, these spaces will also include several TV monitors placed throughout to create ambience. Major areas will be equipped with room scheduling panels integrated into the owner's EMS scheduling system.

Large Group Multipurpose Classroom (Studio)

This 4000 – 4500 sq feet room will be designed for flexible setups. The space will function as both a classroom and a fitness room.

Two ceiling mounted video projectors will be provided on motorized projector lifts to protect them from activities where they could be damaged (projectiles, basketballs, etc). When not in use the projectors will recess into the ceiling. The projectors will display onto two ceiling recessed motorized projection screens placed to optimize viewing angles.

Audio and Video inputs will be located within the space to allow the user to plug in video sources such as laptops, virtual instructor hardware, P90X, or virtual rider, etc.

The space will be equipped with a high fidelity sound system appropriate for Zumba, aerobics, etc. An athletic grade wireless microphone system will be included. The fire alarm will interface with this system and will mute all audio in the event of a fire alarm.

The system will be controlled via a wall mounted touchpanel and the control system will be integrated into a

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building wide enterprise management system. A room scheduling panel will be placed at the entrance integrated into the owners' EMS scheduling system.

Medium Group Multipurpose Room (Studios)

A single ceiling mounted video projector will be provided on a motorized projector lift to protect it from activities where it could be damaged (projectiles, basketballs, etc). When not in use the projector will recess into the ceiling. The projector will display onto a ceiling recessed motorized projection screen placed to optimize viewing angles.

Audio and Video inputs will be located within the spaces to allow the user to plug in video sources such as laptops, virtual instructor hardware, P90X or virtual rider, etc.

The spaces will be equipped with a high fidelity sound system appropriate for Zumba, aerobics, etc. An athletic grade wireless microphone system will be included. The fire alarm will interface with this system and will mute the audio in the event of a fire alarm.

The system will be controlled via a wall mounted touchpanel and the control system will be integrated into a building wide enterprise management system. A room scheduling panel will be placed at the entrance integrated into the owners' EMS scheduling system.

Multi-court gymnasiums

Sound systems will be included in each of these spaces. The sound systems will be designed to provide even coverage throughout each space. (There will be no spectator zones and the systems will not subdivide by court.) The fire alarm will interface with these systems and will mute the audio in the event of a fire alarm.

Each space will include a hand-held wireless microphone system and a headset wireless microphone system for fitness instruction. Audio inputs (microphone jacks) will be provided at strategic locations within each space (such as the announce mic at the scorer's table).

A room scheduling panel will be placed at the entrance integrated into the owners' EMS scheduling system.

Sound and video for large events (commencement, large scale movie night, etc) will be accommodated with portable setups (not in project).

Locker Room

These spaces will include their own background music systems and will be connected to the building wide paging system.

Administrative Offices

A single conference room will be equipped with AV within the administrative offices space. The system will include video conferencing capabilities utilizing dual monitors to give the users the ability to host video or conference calls. A room scheduling panel will be placed at the entrance integrated into the owners' EMS scheduling system. TV's will be provided in the Director's Office, (5) administrative offices, in the group suite, and in the staff lounge.

I.12.2 Natatorium Areas

Broadcast Infrastructure

Infrastructure will be provided for broadcast from the Natatorium. This will include a place to park (truck dock) and pathways (pass-thrus and hooks) to get cabling to the pool for broadcast cameras and equipment. No actual

broadcast equipment or wiring will be included in the project. Thought will be given to the camera locations and junction boxes with a pipe mount will be provided in key locations for static camera locations.

Fiber optic cable will be provided to the control room in the Kohl Center for Streaming Video.

50M Pool and Diving Area

Stationary cameras will be provided on the diving area for axial, overhead, and side views (5-6 fixed cameras) that will feed a system capable of displaying a replay of the dive for review. A portable version of this system will also be provided for the dry training area. Additional connection for AV will be located in the Meet Management Room.

A sound system will be provided for the natatorium that will be capable of providing “event sound” and “daily sound”. Event sound will be focused on the elevated seating sections for the spectators. Daily sound (for lap swim) will be divided into 3 zones focused on the diving well, the middle section, and the shallow section. Each zone will be independently controlled for volume level and mute. The sound system within this space will integrate with the “Q-LAN” network in the other major athletic spaces on campus. The fire alarm will interface with this system and will mute the audio in the event of a fire alarm.

Audio sources will include a music source from an owner furnished paid music service, announce mics, and a wireless microphone systems for fitness.

The system will be controlled with a touchscreen located in the lifeguard room.

A video switcher will be provided to switch the stationary cameras. Audio and video will be sent to the adjacent gyms and multipurpose space as overflow. Audio and video will be sent to a large TV monitor located at the special event entrance. Video will be sent to the scoreboard.

The adjacent wet classroom will be equipped with a video monitor and sound system. This space will receive an audio feed from the natatorium sound system to that it can be used for hospitality or meet management.

SECTION J BUDGET

J.1 Budget Approach

Budgets for the two major programs for this building are being tracked independently and concurrently to assist the University manage funding sources for each major program. Construction Costs unique to each major program include:

Rec Center Costs

- Public Spaces
- Fitness Areas
- Recreational Court Space
- Rec Center Locker Rooms
- Administration
- Rec Center Building Support
- Rec Center Special and Movable Equipment Allowance

Natatorium Costs

- Water Surface – Pools
- Natatorium Floor – Deck Areas
- Spectator Areas
- Natatorium Building Support including Visiting Team Locker Rooms
- Natatorium Special and Movable Equipment Allowance

Shared Costs

Shared project costs are proportionally split based on the percentage each major program is contributing to the overall Total Construction Cost. Shared Costs include:

- Building Demolition
- Site Utilities
- Site Improvements
- Project Contingency
- Design and Management Fees

In addition to tracking each major component, the University will relocate utility mains to accommodate an expanding building footprint. Costs associated with relocating these utility mains is not included in this Budget.

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J.2 Budget Numbers

THE UNIVERSITY OF WISCONSIN SYSTEM MAJOR PROJECT BUDGET SUMMARY

PROJECT TITLE:	Southeast Recreational Facility (SERF) Replacement		Date Prepared :	04/08/16
LOCATION :	UW-Madison		Prepared By :	Workshop + HOK
			Revised By:	XXX
OPTION NO. :	Initial Pre-Design Budget		TOT PROJ COST EST:	87,541,000
NEW BUILDING AREA			Base Date:	01/2016
ASF New Const	170,145		Base Index	5059
GSF New Const	240,560	70.73% Efficiency	Projected Bid Date	01/2018
			Projected Bid Index	5059
REMODELING AREA			Escalation Factor:	1.06
GSF Remodeling	0			
GSF Total Bldg	0	0.00% Remodeling	Est. Occup. Date :	01/2020
	\$	417 /ASF: Construction Cost (building & site)		
	\$	295 /GSF: Construction Cost (building & site)		
	\$	515 /ASF: Total Project Cost		
	\$	364 /GSF: Total Project Cost		

	REC CENTER	NATATORIUM		TOTAL PROJECT
NEW CONSTRUCTION	45,552,850	17,211,600		62,764,450
REMODELING	0	0		0
CONSTRUCTION & REMODELING COSTS - DEMOLITION	984,550	415,450		1,400,000
CONSTRUCTION & REMODELING COSTS - REC CENTER	0			0
CONSTRUCTION & REMODELING COSTS - NATATORIUM		2,010,000		2,010,000
CONSTRUCTION & REMODELING COSTS - SITE	494,590	208,710		703,300
HAZMAT ABATEMENT	0	0		0
SUBTOTAL CONSTRUCTION COST	47,031,990	19,845,760		66,877,750
DESIGN CONTINGENCY	0	0	0.0%	0
SUBTOTAL UN-ESCALATED CONSTRUCTION COST	47,031,990	19,845,760		66,877,750
ESCALATION FACTOR			1.06	
TOTAL CONSTRUCTION COST	49,853,910	21,036,510	>>>>	\$ 70,890,420
A/E BASIC SERVICES	3,569,390	1,506,150		5,075,540
A/E ADDITIONAL SERVICES	757,220	346,860		1,104,080
PROJECT CONTINGENCY	4,486,850	1,893,290	9.0%	6,380,140
DFD MANAGEMENT FEE	2,173,630	917,190	4.0%	3,090,820
TOTAL FEES	10,987,090	4,663,490	>>>>	\$ 15,650,580
SPECIAL & MOVABLE EQUIPMENT	700,000	300,000	>>>>	\$ 1,000,000
TOTAL PROJECT BUDGET ESTIMATE	61,541,000	26,000,000	>>>>>>>>	\$ 87,541,000

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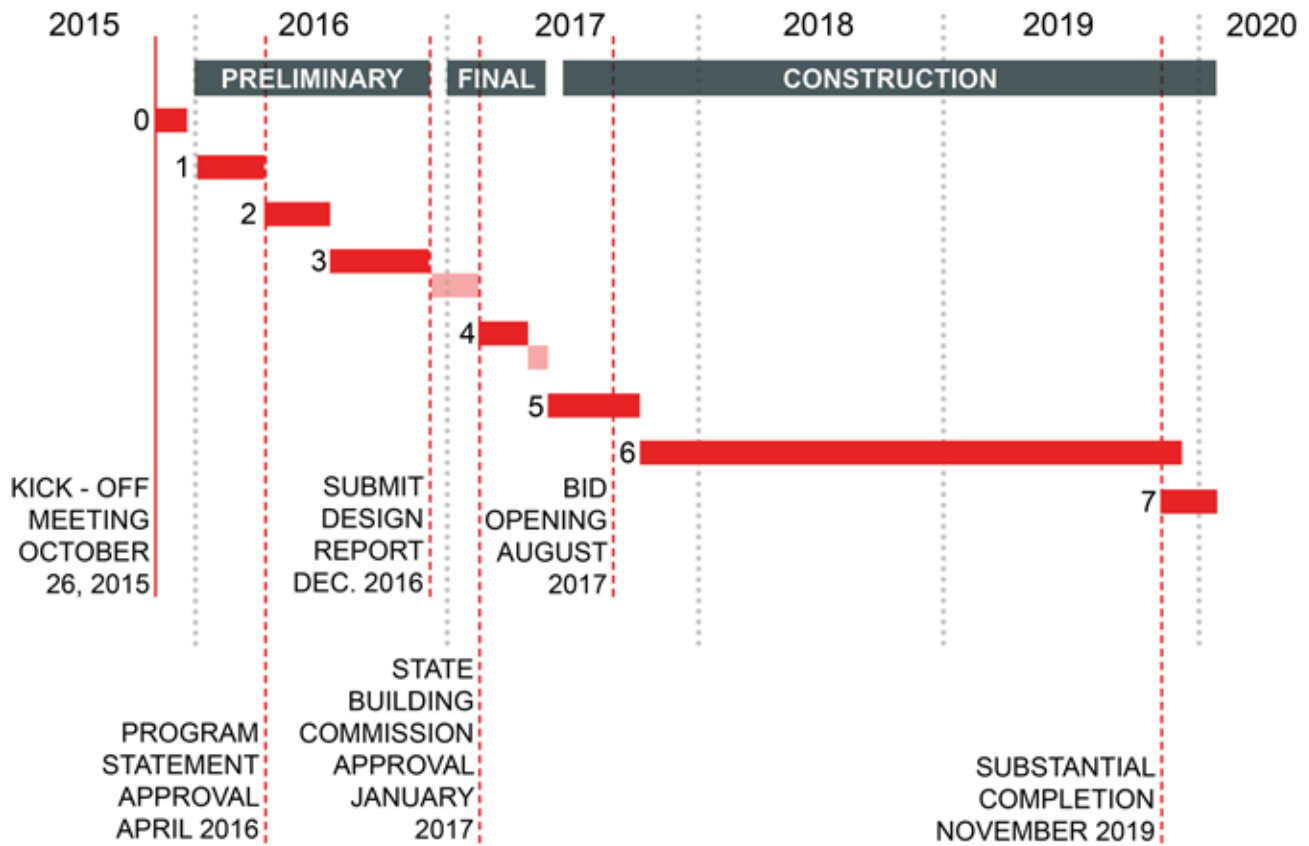
SECTION K SCHEDULE

K.1 Scheduling Concerns

The construction of the new SERF facility will require the relocation of existing utilities on the east side of the site. This relocation will likely need to occur prior to the start of construction for the new building in order to provide the area needed for an expanded building footprint to the east. Options for phased relocation of these utilities will be explored if they are thought to provide cost savings, impact the operations of adjacent facilities or inform the construction sequencing of the new building. Utility relocation will need to be coordinated to ensure continued and uninterrupted operations of the adjacent Kohl Center and LaBahn Arena.

The new SERF will be constructed in a single phase and the current facility will be taken offline entirely. Rec Sports is currently investigating options for relocation of programming currently housed in the SERF to other campus recreation facilities to meet the needs of students and staff during the construction of the new SERF.

K.2 Proposed Schedule



		PHASE DURATION	START	COMPLETION
1	Pre-Design Phase Programming & Concept Development	3.5 Months	January 2016	April 2016
2	Preliminary Design Phase Schematic Design	4.5 Months	April 2016	August 2016
3	Preliminary Design Phase Design Development	3.5 Months	August 2016	December 2016
	Preliminary Review Design Report/ State Building Commission Approval	2.5 Months	December 2016	February 2017
4	Final Design Phase	4.0 Months	January 2017	May 2017
	Final Review	1.0 Months	May 2017	June 2017
5	Bidding Phase	4.0 Months	June 2017	October 2017
6	Construction Phase	25.0 Months	October 2017	October 2019
7	Post-Construction Contract Closeout	3.0 Months	October 2019	January 2020

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SECTION L FIXED AND MOVABLE EQUIPMENT

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost	
A. BUILDING & SITE FURNISHINGS								
1. Public Spaces								
A1.01	Environmental Graphics & Signage	Graphics Consul.	General Contract	1	Isum	\$ -	\$ -	Budget and scope to be confirmed during SD phase
A1.02	Wayfinding & Regulatory Signage/Graphics	Architect	General Contract	1	Isum	\$ -	\$ -	Budget and scope to be confirmed during SD phase
A1.03	Artwork - Including Digital Art	TBD	FF&E	1	Isum	\$ -	\$ -	confirm with University and Rec Sports
A1.04	Exterior Building Signage	Architect	General Contract	2	each	\$ -	\$ -	confirm requirements with University
A1.05	Building Plaques / Cornerstone	Architect	General Contract	1	Isum	\$ -	\$ -	confirm requirements with University
A1.06	Entry Lobby Video Display / Directory Boards	AV Consultant	FF&E - AV	2	each	\$ -	\$ -	Budget and scope to be confirmed during SD phase
A1.07	Information Kiosks (freestanding / movable)	Rec Sports	FF&E	1	Isum	\$ -	\$ -	Budget and scope to be confirmed during SD phase
A1.08	Entry Lobby Access-Control Equipment							Lounge furniture for (2) entry lobbies
	a. Turnstiles	Architect	General Contract	1	Isum	\$ -	\$ -	Budget and scope to be confirmed during SD phase
A1.09	Entry Lounge Furnishings	Architect	FF&E			\$ -	\$ -	Distributed lounge furnishings in public areas
A1.10	Outdoor Terrace Furnishings							
	a. Outdoor Deck Areas	Architect	FF&E	1	each	\$ -	\$ -	
A1.11	Window Treatments (multi-story)	Architect	General Contract	1	Isum	\$ -	\$ -	Allowance for motor-operated shades (mecho-shades, etc.)
	SUBTOTAL:					\$ -	\$ -	
2. Administrative Areas								
A2.01	Reception / Waiting Furniture	Architect	FF&E	1	Isum	\$ -	\$ -	Includes reception desk chair and waiting lounge furniture
A2.02	Director's Office Furniture	Architect	FF&E	1	Isum	\$ -	\$ -	Includes desk, credenza, meeting table, chairs, etc.
A2.03	Associate Directors' Office Furniture	Architect	FF&E	5	Isum	\$ -	\$ -	Includes desk, credenza, chairs, file storage, etc.
A2.04	Open Office Area Workstations	Architect	FF&E	2	Isum	\$ -	\$ -	Includes modular work stations for staff and student workers
A2.05	Breakout Work Area Furniture	Architect	FF&E	1	Isum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A2.06	Group Office Suite Furniture	Architect	FF&E	1	Isum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A2.07	Workroom Furniture and Equipment	Architect	FF&E	1	Isum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A2.08	Professional Staff Kitchen	Architect	FF&E	1	Isum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A2.09	Student Staff Breakroom Furniture	Architect	FF&E	1	Isum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A2.10	Conference Room	Architect	FF&E	1	Isum	\$ -	\$ -	Table and chairs accommodate 12-16 people
A2.11	Dry Erase Whiteboards	Architect	FF&E	1	Isum	\$ -	\$ -	Distributed (classrooms, conference rooms, etc.)
A2.12	Office Window Treatments	Architect	FF&E	1	sqft	\$ -	\$ -	Allowance for manual blinds, curtains, and/or drapes
	SUBTOTAL:					\$ -	\$ -	
3. Recreation Areas								
A3.01	Loose Tables							
	a. Classroom Tables - Rectangle, folding	Rec Sports	FF&E	0	each	\$ -	\$ -	Includes portable tables for special event operations, etc.
A3.02	Table Carts							
	a. 6-foot	Rec Sports	FF&E	0	each	\$ -	\$ -	
	b. 8-foot	Rec Sports	FF&E	0	each	\$ -	\$ -	
A3.03	Loose Chairs							
	a. Classroom Chairs - portable / stackable	Rec Sports	FF&E	0	each	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A3.04	Chair Carts/Racks							
	a. Classroom Chair Storage Carts	Rec Sports	FF&E	0	each	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A3.05	Weight Room Cleaning Stands	Architect	General Contract	0	each	\$ -	\$ -	Built-in millwork; distributed throughout facility per Interiors
A3.06	Backpack Lockers / Cubbies	Architect	General Contract	0	each	\$ -	\$ -	Built-in millwork; distributed throughout facility per Interiors
A3.07	Equipment Storage Room Racks	Rec Sports	FF&E	0	Isum	\$ -	\$ -	Storage needs to be confirmed during Preliminary Design
A3.08	Locker Rooms:							
	a. Level 1 Locker Room Lockers (Natatorium)	Architect	General Contract	0	Isum	\$ -	\$ -	Provide as built-in millwork with interiors package
	b. Level 1 Locker Room Benches	Architect	General Contract	0	Isum	\$ -	\$ -	Provide as built-in millwork with interiors package
	c. Level 1 Unisex Locker Room Lockers/Bench							Bench style and quantity to be confirmed during SD phase
	d. Level 3 Locker Room Lockers (Gymnasium)	Architect	General Contract	0	Isum	\$ -	\$ -	Provide as built-in millwork with interiors package
	e. Level 3 Locker Room Benches	Architect	General Contract	0	Isum	\$ -	\$ -	Provide as built-in millwork with interiors package
	f. Level 3 Unisex Locker Room Lockers/Bench							Bench style and quantity to be confirmed during SD phase
	g. Locker Room Lounge Furnishings (??)	Architect	FF&E	0	Isum	\$ -	\$ -	Furniture needs to be confirmed during Preliminary Design
A3.09	Dry Erase Whiteboards	Architect	FF&E	0	each	\$ -	\$ -	Distributed (classrooms, conference rooms, etc.)
A3.10	Window Treatments	Architect	General Contract	0	sqft	\$ -	\$ -	Allowance for blinds and operable window shades
	SUBTOTAL:					\$ -	\$ -	

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Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost	
4. Miscellaneous Areas								
A4.01	Equipment Repair Room Furniture	Architect	General Contract	1	lsum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
A4.03	Parking Meters (if required)	UW Parking	University	0	each	\$ -	\$ -	Confirm scope requirements with Campus (FP&M)
A4.04	Parking Control Equipment (if required)	UW Parking	University	0	each	\$ -	\$ -	Confirm scope requirements with Campus (FP&M)
A4.05	Exterior Bike Racks & Skateboard Racks	Landscape	General Contract	0	each	\$ -	\$ -	Scope to be confirmed with University during SD phase
A4.06	Outdoor Site Benches	Landscape	General Contract	0	each	\$ -	\$ -	Scope to be confirmed with University during SD phase
A4.07	Outdoor Trash Receptacles	Landscape	FF&E	0	each	\$ -	\$ -	Scope to be confirmed with University during SD phase
	SUBTOTAL:	Architect				\$ -	\$ -	
	TOTAL - BUILDING & SITE FURNISHINGS:					\$ -	\$ -	

B. BUILDING & SITE MAINTENANCE								
1. Building Support - Maintenance Equipment							Confirm items this section with University	
B1.01	Forklift	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.02	Scissor Lift	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.03	Man Lift	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.04	General Storage Room Cabinets	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.05	Pallet Trucks	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.06	Flatbed Carts	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.07	Mobile Tool Carts	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.08	Protective Coverings for Gym Wood Floors	Rec Sports	FF&E	0	ls	\$ -	\$ -	Scope to be confirmed with University during SD phase
B1.09	Storage Room Work Benches	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.10	Rolling Tool Box with Chest	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.11	Hand Truck	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.12	Furniture Dolly	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.13	Workshop Tools	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B1.14	Ladders	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
	SUBTOTAL:					\$ -	\$ -	
2. Building Support - Custodial Equipment							Confirm items this section with University	
B2.01	Walk Behind Floor Scrubber	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.02	Floor Burnisher	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.03	All Surface Cleaner	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.04	Custodial Shelving	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.05	Industrial Storage Cabinets	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.06	Vacuum Cleaners	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.07	Wide Area Vacuum	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.08	Janitorial Carts	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.09	Tilt Trucks	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.10	Recycling Tilt Trucks	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.11	Recycling Can w/ Dolly	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
B2.12	Trash Can w/ Dolly	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
	SUBTOTAL:					\$ -	\$ -	
	TOTAL - BUILDING & SITE MAINTENANCE:					\$ -	\$ -	

C. BUILDING OPERATIONS								
C1.01	Vending Machines	Rec Sports	University	0	each	\$ -	\$ -	TBD by Building Operator
C1.02	Laundry Equipment - Washers	Architect	General Contract	0	each	\$ -	\$ -	(2) commercial washers requested by Rec Sports
C1.03	Laundry Equipment - Dryers	Architect	General Contract	0	each	\$ -	\$ -	(2) commercial washers requested by Rec Sports
C1.04	Ice Machines	Rec Sports	FF&E	0	each	\$ -	\$ -	Confirm locations, quantity and size with User
C1.05	Employee Time Clocks	Rec Sports	FF&E	0	each	\$ -	\$ -	Confirm quantities and locations with Rec Sports
C1.06	Copying Machines	Rec Sports	University	0	each	\$ -	\$ -	TBD by Building Operator
C1.07	Fax Machines	Rec Sports	University	0	each	\$ -	\$ -	TBD by Building Operator
C1.08	Office Supplies	Rec Sports	University	0	each	\$ -	\$ -	TBD by Building Operator
C1.09	Recessed Entrance Mats	Architect	General Contract	0	each	\$ -	\$ -	Confirm locations per final design plans
C1.10	Roll-Up Entrance Mats	Rec Sports	FF&E	0	each	\$ -	\$ -	Confirm locations per final design plans
C1.11	Floor Runners	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
C1.12	Medical/First Aid Equipment	Rec Sports	FF&E	0	lsum	\$ -	\$ -	TBD by Building Operator
C1.13	Automatic External Defibrulators (AED)	Rec Sports	FF&E	0	lsum	\$ -	\$ -	TBD by Building Operator
C1.14	Fire Extinguishers and Cabinets	Architect	General Contract	0	each	\$ -	\$ -	Distributed; quantity and locations per Code
C1.15	Radios	Rec Sports	FF&E	0	each	\$ -	\$ -	TBD by Building Operator
C1.16	Employee Lockers	Rec Sports	FF&E	0	each	\$ -	\$ -	Confirm type, manufacturer and locations with Rec Sports
	SUBTOTAL:					\$ -	\$ -	
	TOTAL - BUILDING OPERATIONS:					\$ -	\$ -	

Fixed and Moveable Equipment

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost
D. SPORTS & RECREATION PROGRAM EQUIPMENT							
1. Open Fitness Areas - Cardio / Strength / Weights							
D1.01	Cardio Equipment (per/station)						<i>per Rec Sports and selected Equipment Vendor</i>
	a. Treadmills	Rec Sports	FF&E	0	each \$ -	\$ -	
	b. Total Body Arc Trainers	Rec Sports	FF&E	0	each \$ -	\$ -	
	c. Lower Body Arc Trainers	Rec Sports	FF&E	0	each \$ -	\$ -	
	d. Recumbant Bikes	Rec Sports	FF&E	0	each \$ -	\$ -	
	e. Upright Bikes	Rec Sports	FF&E	0	each \$ -	\$ -	
	f. Rowers	Rec Sports	FF&E	0	each \$ -	\$ -	
	g. Steppers	Rec Sports	FF&E	0	each \$ -	\$ -	
	e. StepMills	Rec Sports	FF&E	0	each \$ -	\$ -	
D1.02	Strength Circuit Trainers						<i>per Rec Sports and selected Equipment Vendor</i>
	a. Leg Press	Rec Sports	FF&E	0	each \$ -	\$ -	
	b. Leg Extension	Rec Sports	FF&E	0	each \$ -	\$ -	
	c. Sealed Leg Curl	Rec Sports	FF&E	0	each \$ -	\$ -	
	d. Calf	Rec Sports	FF&E	0	each \$ -	\$ -	
	e. Prone Leg Curl	Rec Sports	FF&E	0	each \$ -	\$ -	
	f. Glute	Rec Sports	FF&E	0	each \$ -	\$ -	
	g. Hip Ab/Ad	Rec Sports	FF&E	0	each \$ -	\$ -	
	h. Chest Press	Rec Sports	FF&E	0	each \$ -	\$ -	
	i. Incline Press	Rec Sports	FF&E	0	each \$ -	\$ -	
	j. Overhead Press	Rec Sports	FF&E	0	each \$ -	\$ -	
	k. Fly/Rear Delt	Rec Sports	FF&E	0	each \$ -	\$ -	
	l. Lateral Raise	Rec Sports	FF&E	0	each \$ -	\$ -	
	m. Row	Rec Sports	FF&E	0	each \$ -	\$ -	
	n. Pulldown	Rec Sports	FF&E	0	each \$ -	\$ -	
	o. Incline Pull	Rec Sports	FF&E	0	each \$ -	\$ -	
	p. Torso Rotation	Rec Sports	FF&E	0	each \$ -	\$ -	
	q. Ab Crunch	Rec Sports	FF&E	0	each \$ -	\$ -	
	r. Back Extension	Rec Sports	FF&E	0	each \$ -	\$ -	
	s. Arm Extension	Rec Sports	FF&E	0	each \$ -	\$ -	
	t. Arm Curl	Rec Sports	FF&E	0	each \$ -	\$ -	
D1.03	Free Weights + Plate Loaded						<i>per Rec Sports and selected Equipment Vendor</i>
	a. Twin Tier Dumbbell Racks	Rec Sports	FF&E	0	each \$ -	\$ -	
	b. Smith Machines	Rec Sports	FF&E	0	each \$ -	\$ -	
	c. BIG IRON Power Cages	Rec Sports	FF&E	0	each \$ -	\$ -	
	d. Olympic Benches	Rec Sports	FF&E	0	each \$ -	\$ -	
	e. Olympic Incline Benches	Rec Sports	FF&E	0	each \$ -	\$ -	
	f. Olympic Decline Bench	Rec Sports	FF&E	0	each \$ -	\$ -	
	g. Squat Press	Rec Sports	FF&E	0	each \$ -	\$ -	
	h. Leg Press	Rec Sports	FF&E	0	each \$ -	\$ -	
	i. Hack Squat	Rec Sports	FF&E	0	each \$ -	\$ -	
	j. Seated Calf	Rec Sports	FF&E	0	each \$ -	\$ -	
	k. Leg Extension or Kneeling Leg	Rec Sports	FF&E	0	each \$ -	\$ -	
	l. Diverging Pulldown	Rec Sports	FF&E	0	each \$ -	\$ -	
	m. T-Bar Row	Rec Sports	FF&E	0	each \$ -	\$ -	
	n. Converging Incline	Rec Sports	FF&E	0	each \$ -	\$ -	
	o. Converging Chest	Rec Sports	FF&E	0	each \$ -	\$ -	
	p. Converging Overhead	Rec Sports	FF&E	0	each \$ -	\$ -	
D1.04	Functional Training + Jungle Gyms						<i>per Rec Sports and selected Equipment Vendor</i>
	a. Jungle Gym Cable Crossovers	Rec Sports	FF&E	0	each \$ -	\$ -	
	b. BRAVO Lift	Rec Sports	FF&E	0	each \$ -	\$ -	
	c. BRAVO Push	Rec Sports	FF&E	0	each \$ -	\$ -	
	d. BRAVO Pull	Rec Sports	FF&E	0	each \$ -	\$ -	
	e. BRAVO Functional Trainer	Rec Sports	FF&E	0	each \$ -	\$ -	
D1.05	Equipment Maintenance Tools	Rec Sports	FF&E	0	lsum \$ -	\$ -	
D1.06	Carts & Racks	Rec Sports	FF&E	0	lsum \$ -	\$ -	

**14L2T Southeast Recreation Facility Replacement
Program Statement**

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost
D1.07	Functional Training Area:						<i>per Rec Sports</i>
	a. Keiser Triple Trainer	Rec Sports	FF&E	0	each	\$ - \$ -	
	b. Keiser Six Pack	Rec Sports	FF&E	0	each	\$ - \$ -	
	c. Keiser Power Displays	Rec Sports	FF&E	0	each	\$ - \$ -	
	d. Keiser Power Rack	Rec Sports	FF&E	0	each	\$ - \$ -	
	e. Keiser Air Compressor	Rec Sports	FF&E	0	each	\$ - \$ -	
	f. Keiser Power Rack Platform	Rec Sports	FF&E	0	each	\$ - \$ -	
	g. York Technique Boxes	Rec Sports	FF&E	0	each	\$ - \$ -	
	h. UCS Lifting Platform	Rec Sports	FF&E	0	each	\$ - \$ -	
	i. Black Solid Rubber Bumper Plates	Rec Sports	FF&E	0	each	\$ - \$ -	
	j. Dumbbells	Rec Sports	FF&E	0	each	\$ - \$ -	
	k. Texas Power Bar	Rec Sports	FF&E	0	each	\$ - \$ -	
	l. Power Plate Pro 5	Rec Sports	FF&E	0	each	\$ - \$ -	
	m. Shuttle MVP Pro	Rec Sports	FF&E	0	each	\$ - \$ -	
	n. Medicine Balls	Rec Sports	FF&E	0	each	\$ - \$ -	
	o. Kettlebells	Rec Sports	FF&E	0	each	\$ - \$ -	
	p. 8kg, 12kg, 16kg, 20kg, 24kg, 28kg, 32kg	Rec Sports	FF&E	0	each	\$ - \$ -	
	q. Foam Rollers	Rec Sports	FF&E	0	each	\$ - \$ -	
	r. Plyo-safe G2 Plybox Set	Rec Sports	FF&E	0	each	\$ - \$ -	
	s. Reebok Core Boards	Rec Sports	FF&E	0	each	\$ - \$ -	
	t. Rocker & Wobble Boards w/ stand	Rec Sports	FF&E	0	each	\$ - \$ -	
	u. 10lb Uninvest Weighted Vests	Rec Sports	FF&E	0	each	\$ - \$ -	
	v. 20lb Uninvest Weighted Vests	Rec Sports	FF&E	0	each	\$ - \$ -	
	w. Training Ropes w/ holds & anchors	Rec Sports	FF&E	0	each	\$ - \$ -	
	SUBTOTAL:					\$ -	
2. Multi-Purpose Exercise Rooms							
D2.01	Spinning Bikes	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.02	Step Platforms	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.03	Yoga Blocks	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.04	Yoga Straps	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.05	Stability Balls	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.06	Small Yoga Fit Balls	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.07	Body Pump Bars and Weights	Rec Sports	FF&E	0	set	\$ - \$ -	<i>per Rec Sports</i>
D2.08	Aerobic Dumbbells w/ Storage Racks	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.09	GTS Machines	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.10	BOSU Balance Trainers w/ Storage Racks	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.11	TRX Suspension Trainers	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D2.12	Support System for TRX Trainers	Architect	General Contract	0	each	\$ - \$ -	<i>System supported and braced by overhead structure</i>
D2.13	Wall Padding and/or Mirrors	Architect	General Contract	0	each	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
	SUBTOTAL:					\$ -	
3. Personal Training Areas							
D3.01	Select Fitness Equipment						<i>per Rec Sports</i>
	a. Treadmills	Rec Sports	FF&E	0	each	\$ - \$ -	
	b. Body Composition Scale	Rec Sports	FF&E	0	each	\$ - \$ -	
	c. Flexibility Test Unit	Rec Sports	FF&E	0	each	\$ - \$ -	
	d. Just Jump System	Rec Sports	FF&E	0	each	\$ - \$ -	
	e. Wall-mounted Vertical Jump	Rec Sports	FF&E	0	each	\$ - \$ -	
	f. Heart Rate Monitors	Rec Sports	FF&E	0	each	\$ - \$ -	
	g. Stretching Tables	Rec Sports	FF&E	0	each	\$ - \$ -	
D3.02	Consultation Room Furnishings						
	a. Office Furniture	Rec Sports	FF&E	0	each	\$ - \$ -	<i>per Rec Sports</i>
D3.03	Assessment Room Furnishings						
	a. Training/Treatment Tables	Architect	FF&E	0	each	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
	b. Trainer's Stools/Chairs	Architect	FF&E	0	each	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
	c. Pedestal Storage Cabinet	Architect	FF&E	0	each	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
	d. Book Cases and Displays	Architect	FF&E	0	each	\$ - \$ -	<i>Confirm Wellness resource display needs with Rec Sports</i>
	e. Lounge Furniture (??)	Architect	FF&E	0	each	\$ - \$ -	<i>Furniture needs to be confirmed during Preliminary Design</i>
	SUBTOTAL:					\$ -	
4. Recreational Court Areas							
D4.01	Ceiling-Mounted Basketball Goals						
	a. 2-Court Gymnasium - Lower Level	Architect	General Contract	4	each	\$ - \$ -	<i>Motor-Operated Retractable Goals; 2 goals x 2 courts</i>
	b. 2-Court Gymnasium - Upper Level	Architect	General Contract	4	each	\$ - \$ -	<i>Motor-Operated Retractable Goals; 2 goals x 2 courts</i>
	c. 4-Court Gymnasium - Upper Level	Architect	General Contract	8	each	\$ - \$ -	<i>Motor-Operated Retractable Goals; 2 goals x 4 courts</i>
D4.02	Wall Hung Basketball Goals	Architect	General Contract	0	each	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>

Fixed and Moveable Equipment

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost	
D4.03	Portable Basketball Goals	Rec Sports	FF&E	0	each	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
D4.04	Volleyball Stanchions/Nets							
	a. 2-Court Gymnasium - Lower Level	Architect	General Contract	2	each	\$ -	\$ -	Overhead or Recessed anchor system-confirm w/ RecSports
	b. 2-Court Gymnasium - Upper Level	Architect	General Contract	2	each	\$ -	\$ -	Overhead or Recessed anchor system-confirm w/ RecSports
	c. 4-Court Gymnasium - Upper Level	Architect	General Contract	4	each	\$ -	\$ -	Overhead or Recessed anchor system-confirm w/ RecSports
D4.05	Badminton Stanchions/Nets							
	a. 2-Court Gymnasium - Lower Level	Rec Sports	FF&E	2	each	\$ -	\$ -	Portable system
	b. 2-Court Gymnasium - Upper Level	Rec Sports	FF&E	2	each	\$ -	\$ -	Portable system
	c. 4-Court Gymnasium - Upper Level	Rec Sports	FF&E	4	each	\$ -	\$ -	Portable system
D4.06	Spectator Seating	NIC	General Contract	0	lsum	\$ -	\$ -	Not part of the current Program
D4.07	Gym Divider Curtains at Basketball Courts	Architect	General Contract	5	each	\$ -	\$ -	Assumes (1) @ each two-court gym + (3) @ four-court gym
D4.08	Wall Padding	Architect	General Contract	0	sqft	\$ -	\$ -	Scope to be confirmed with during Preliminary Design
	SUBTOTAL:					\$ -	\$ -	
5. Miscellaneous Rooms/Areas								
D5.01	Stretching Areas:							per Rec Sports
	a. Slant Boards	Rec Sports	FF&E	0	lsum	\$ -	\$ -	
	b. True-Stretch Stations	Rec Sports	FF&E	0	each	\$ -	\$ -	
	c. Back System Threes	Rec Sports	FF&E	0	each	\$ -	\$ -	
	d. Floor Mats	Rec Sports	FF&E	0	each	\$ -	\$ -	
D5.02	Gaming Areas:							per Rec Sports
	a. Table Tennis / Ping Pong Tables	Rec Sports	FF&E	0	each	\$ -	\$ -	
	b. Foosball Tables	Rec Sports	FF&E	0	each	\$ -	\$ -	
	c. Pool Tables	Rec Sports	FF&E	0	each	\$ -	\$ -	
	d. Air Hockey	Rec Sports	FF&E	0	each	\$ -	\$ -	
	SUBTOTAL:					\$ -	\$ -	
6. Recreation "One-Stop-Shop" Area								
D6.01	Equipment Check Desk Furniture							per Rec Sports
	a. Operation Staff Desk Chairs	Rec Sports	FF&E	0	each	\$ -	\$ -	
D6.02	Equipment Check Equipment							per Rec Sports
	a. Basketballs	Rec Sports	FF&E	0	each	\$ -	\$ -	
	b. Futsal Balls	Rec Sports	FF&E	0	each	\$ -	\$ -	
	c. Indoor Volleyballs	Rec Sports	FF&E	0	each	\$ -	\$ -	
	d. Ball Hoppers	Rec Sports	FF&E	0	each	\$ -	\$ -	
	e. Jump Ropes (Set of 6)	Rec Sports	FF&E	0	each	\$ -	\$ -	
	f. Weighted Jump Ropes	Rec Sports	FF&E	0	each	\$ -	\$ -	
	g. Raquetball Racquets	Rec Sports	FF&E	0	each	\$ -	\$ -	
	h. Badminton Racquets	Rec Sports	FF&E	0	each	\$ -	\$ -	
	i. Tennis Racquets	Rec Sports	FF&E	0	each	\$ -	\$ -	
	j. Table Tennis Paddles	Rec Sports	FF&E	0	each	\$ -	\$ -	
	k. Weight Belts	Rec Sports	FF&E	0	each	\$ -	\$ -	
	l. Dip Belts	Rec Sports	FF&E	0	each	\$ -	\$ -	
	m. Ball Pump	Rec Sports	FF&E	0	each	\$ -	\$ -	
	n. Locks	Rec Sports	FF&E	0	each	\$ -	\$ -	
	o. Jump Rope Rack	Rec Sports	FF&E	0	each	\$ -	\$ -	
	p. Weight Belt Rack	Rec Sports	FF&E	0	each	\$ -	\$ -	
	q. Ball Rack (wall mount)	Rec Sports	FF&E	0	each	\$ -	\$ -	
	r. Storage Racks	Rec Sports	FF&E	0	each	\$ -	\$ -	
D6.03	Membership Services Furniture							per Rec Sports
	a. Operations Chairs	Architect	FF&E	0	each	\$ -	\$ -	
D6.04	Welcome Desk Equipment							per Rec Sports
	a. TBD	Architect	FF&E	0	each	\$ -	\$ -	
D6.05	Equipment Storage Room							per Rec Sports
	a. TBD	Rec Sports	FF&E	0	each	\$ -	\$ -	
	SUBTOTAL:					\$ -	\$ -	
	TOTAL - Sports & Recreation Program Equipment					\$ -	\$ -	

14L2T Southeast Recreation Facility Replacement
Program Statement

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost
E. NATATORIUM							
1. Competition Pool / Diving Well							
1.01	Deck Equipment						<i>Equipment list per Pool Consultant</i>
	a. ADA Access Lifts	Pool Consultant	General Contract	3	each	\$ - \$ -	
	a. Grab Rails	Pool Consultant	General Contract	0	each	\$ - \$ -	
	b. Lifeguard Stands	Pool Consultant	General Contract	0	each	\$ - \$ -	
	c. Stair Rails	Pool Consultant	General Contract	0	each	\$ - \$ -	
	d. Stanchion Posts & Anchors	Pool Consultant	General Contract	0	each	\$ - \$ -	
	e. Lane Rope Anchors	Pool Consultant	General Contract	0	each	\$ - \$ -	
	f. Lane Dividers - 50M	Pool Consultant	General Contract	0	each	\$ - \$ -	
	g. Lane Dividers - 25Y	Pool Consultant	General Contract	0	each	\$ - \$ -	
	h. Floating Course - Water Polo	Pool Consultant	General Contract	0	each	\$ - \$ -	
	i. Lane Rope Storage Reels	Pool Consultant	General Contract	0	each	\$ - \$ -	
	j. Backstroke Stanchion Posts	Pool Consultant	General Contract	0	each	\$ - \$ -	
	k. Backstroke Flags, 100 Ft. Role	Pool Consultant	General Contract	0	each	\$ - \$ -	
	l. Recall Rope	Pool Consultant	General Contract	0	each	\$ - \$ -	
1.02	Competition Equipment						<i>Equipment list per Pool Consultant</i>
	a. Starting Platforms	Pool Consultant	General Contract	0	each	\$ - \$ -	
	b. Water Polo Goals	Pool Consultant	General Contract	0	each	\$ - \$ -	
	c. Springboards - 1 M	Pool Consultant	General Contract	2	each	\$ - \$ -	
	c. Springboards - 3	Pool Consultant	General Contract	2	each	\$ - \$ -	
	d. Short Stands	Pool Consultant	General Contract	0	each	\$ - \$ -	
	e. Sparger System	Pool Consultant	General Contract	0	each	\$ - \$ -	
1.03	Timing Equipment						<i>Equipment list per Pool Consultant</i>
	a. Deck Plates	Pool Consultant	General Contract	0	each	\$ - \$ -	
	b. Wall Plates	Pool Consultant	General Contract	0	each	\$ - \$ -	
	c. Starting System	Pool Consultant	General Contract	0	each	\$ - \$ -	
	d. Underwater Recall System	Pool Consultant	General Contract	0	each	\$ - \$ -	
	e. Timing System	Pool Consultant	General Contract	0	each	\$ - \$ -	
	f. Touch Pads	Pool Consultant	General Contract	0	each	\$ - \$ -	
	g. Touch Pad Caddy	Pool Consultant	General Contract	0	each	\$ - \$ -	
	h. Scoreboard / Video Scoreboard	Pool Consultant	General Contract	0	each	\$ - \$ -	
	i. Relay Judging Platforms	Pool Consultant	General Contract	0	each	\$ - \$ -	
	j. Pace Clocks	Pool Consultant	General Contract	0	each	\$ - \$ -	
1.04	Safety Equipment						<i>Equipment list per Pool Consultant</i>
	a. Reach Poles / Life Hook	Pool Consultant	General Contract	0	each	\$ - \$ -	
	b. Shepard's Hooks	Pool Consultant	General Contract	0	each	\$ - \$ -	
	c. Back Boards	Pool Consultant	General Contract	0	each	\$ - \$ -	
	d. Rescue Tubes	Pool Consultant	General Contract	0	each	\$ - \$ -	
	e. Throw Rings	Pool Consultant	General Contract	0	each	\$ - \$ -	
1.05	Maintenance Equipment						<i>Equipment list per Pool Consultant</i>
	a. Robotic Vacuum Cleaner	Pool Consultant	General Contract	0	each	\$ - \$ -	
	b. Manual Vacuum Cleaner	Pool Consultant	General Contract	0	each	\$ - \$ -	
	c. Water Test Kit	Pool Consultant	General Contract	0	each	\$ - \$ -	
	d. First Aid Kit	Pool Consultant	General Contract	0	each	\$ - \$ -	
	SUBTOTAL:					\$ -	
2. Natatorium Support Spaces							
2.01	Wet Classroom						
	a. Movable Tables	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Athletics during SD phase</i>
	b. Movable Chairs	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Athletics during SD phase</i>
2.02	Visiting Team Locker Room						
	a. Lockers	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Athletics during SD phase</i>
	b. Benches	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Athletics during SD phase</i>
2.03	Life Guard Staff Room						
	a. Life Guard Office Furniture	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
2.04	Athletic Training / First Aid Room						
	a. Training Room Furniture	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Athletics during SD phase</i>
2.05	Athletic Touchdown Office						
	a. Touchdown Office Furniture	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Athletics during SD phase</i>
2.06	Assistant Director of Aquatics Office						
	a. Office Furniture	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
2.07	Meet Management Room						
	a. Meet Management Furniture	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
2.08	Broadcast Room						
	a. Broadcast Room Furniture	Architect	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
	b. Broadcast Equipment Racks	AV Consultant	FF&E	0	Isum	\$ - \$ -	<i>Scope to be confirmed with Rec Sports during SD phase</i>
	SUBTOTAL:					\$ -	

Fixed and Moveable Equipment

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost	
3. Spectator Seating Spaces								
3.01	Multi Purpose Room							
	a. Multi Purpose Room Furniture	Architect	FF&E	0	lsum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
	b. Multi Purpose Room Training Equipment	Architect	FF&E	0	lsum	\$ -	\$ -	Scope to be confirmed with Athletics during SD phase
3.02	Multi Purpose Storage							
	a. Storage Racks	Architect	FF&E	0	lsum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
3.03	Dry Land Training Area Equipment							
	a. Trampoline	UW Athletics	FF&E	2	each	\$ -	\$ -	Minimum of 18' feet to a preferred 21 feet of floor to pulley overhead clearance. Trampoline dimensions 10' x 15' x 2.
	b. Dry Boards	UW Athletics	FF&E	2	each	\$ -	\$ -	A minimum of 18' to a preferred 21' overhead clearance, with pulleys placed 2.5'-3.0' ahead of the board. Rope angles at 35 degrees to insure freedom of motion. Landing Portable pit for dry board is 12x6' 32 for 1 meter level dry board x2. Average width of the pit is 8'-10'. Dry board Frame 28 inches wide 42 inches high full length with diving board 16 feet x 2
	c. Pulley System	UW Athletics	FF&E	2	each	\$ -	\$ -	One for the trampoline and one for the dry board
	d. Block Station	UW Athletics	FF&E	2	each	\$ -	\$ -	Crash Mat 6'x12'; 12 in x 2; Hard surface block 2'x6'x2
	e. Punch Floor	UW Athletics	FF&E	2	each	\$ -	\$ -	One Roll 6'x 30' ideal size; Mat dimension for stretching area 6x12 feet x 2.
3.04	Concessions / Kitchen							
	a. Food Service Equipment	Architect	FF&E	0	lsum	\$ -	\$ -	Scope to be confirmed with Rec Sports during SD phase
	SUBTOTAL:						\$ -	
	TOTAL - NATATORIUM:						\$ -	

F. TECHNOLOGY								
1. Server Room								
F1.01	Rack	University IT	FF&E	0	each	\$ -	\$ -	per Rec Sports
F1.02	Console Switch	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F1.03	Network Switch	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F1.04	Uninterruptible Power Source	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F1.05	Server	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F1.06	Storage Area Network	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F1.07	Virtual Software	Rec Sports	Rec Sports	0	each	\$ -	\$ -	per Rec Sports
	SUBTOTAL:						\$ -	
2. Professional Staff								
F2.01	CPU	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F2.02	Monitors	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F2.03	Monitor Stands	University IT	University	0	each	\$ -	\$ -	per Rec Sports
F2.04	Marketing Software	Rec Sports	Rec Sports	0	each	\$ -	\$ -	per Rec Sports
	SUBTOTAL:						\$ -	
3. Operations								
F3.01	Operations Access Control							per Rec Sports
	a. CPU	University IT	University	0	each	\$ -	\$ -	
	b. Monitors	University IT	University	0	each	\$ -	\$ -	
	c. Card Swipe	University IT	University	0	each	\$ -	\$ -	
	d. Barcode Scanner	University IT	University	0	each	\$ -	\$ -	
	e. RFID	University IT	University	0	each	\$ -	\$ -	
F3.02	Operations Sales							per Rec Sports
	a. CPU	University IT	University	0	each	\$ -	\$ -	
	b. Monitors	University IT	University	0	each	\$ -	\$ -	
	c. Card Swipe	University IT	University	0	each	\$ -	\$ -	
	d. Barcode Scanner	University IT	University	0	each	\$ -	\$ -	
	e. RFID	University IT	University	0	each	\$ -	\$ -	
	f. TigerCash Machine	University IT	University	0	each	\$ -	\$ -	
	g. Receipt Printer	University	University	0	each	\$ -	\$ -	
	h. Cash Drawer	University	University	0	each	\$ -	\$ -	
	j. Biometric Handscanner	University	University	0	each	\$ -	\$ -	
F3.03	Operations Supervisor							per Rec Sports
	a. CPU	University IT	University	0	each	\$ -	\$ -	
	b. Monitors	University IT	University	0	each	\$ -	\$ -	
F3.04	Biometric Access Control							per Rec Sports
	a. CPU	University IT	University	0	each	\$ -	\$ -	
	b. Monitors	University IT	University	0	each	\$ -	\$ -	
	c. Biometric Handscanners	University	University	0	each	\$ -	\$ -	
	d. Relay Board	University	University	0	each	\$ -	\$ -	
	SUBTOTAL:						\$ -	
	TOTAL - TECHNOLOGY:						\$ -	

**14L2T Southeast Recreation Facility Replacement
Program Statement**



Fixed and Moveable Equipment

Item	Description	Design/Spec Responsibility	Cost Responsibility	Program Quantity	Estimated Unit Cost	Budget Total	Comments / Vendor Resource / Basis of Cost	
G. SPECIAL SYSTEMS & SECURITY, AUDIO VISUAL, DATA TECHNOLOGY, ETC.								
G1.01	Security Cameras / Monitors	University	General Contract	0	each	\$ -	\$ -	
G1.02	Security System, Electric Latches, etc.	Elec. Consultant	General Contract	0	each	\$ -	\$ -	
G1.03	Electronic Door Contacts / Card Access	University	General Contract	0	Isum	\$ -	\$ -	<i>Card swipe or other control mech. per Hardware Sched.</i>
G1.04	Intercom/House Sound/Paging System	AV Consultant	General Contract	0	Isum	\$ -	\$ -	
G1.05	Facility Telephone System	University	University	0	Isum	\$ -	\$ -	
G1.06	Public Telephones (emergency)	University	University	0	Isum	\$ -	\$ -	
G1.07	Facility TV's (distributed flat-screen's)	AV Consultant	FF&E	0	Isum	\$ -	\$ -	
G1.08	Scoreboards at Gyms / Courts	Architect	General Contract	0	each	\$ -	\$ -	
G1.09	Scoreboards at Natatorium	Pool Consultant	General Contract	0	each	\$ -	\$ -	
G1.10	Clock / Timing System at Indoor Pool	AV Consultant	FF&E	0	Isum	\$ -	\$ -	
G1.11	Distributed Sound - Public Spaces	AV Consultant	General Contract	1	Isum	\$ -	\$ -	<i>Budget for Program Statement \$60,000 per consultant</i>
G1.14	Distributed Sound System - Fitness Spaces (3)	AV Consultant	General Contract	1	Isum	\$ -	\$ -	<i>Budget for Program Statement \$60,000 per consultant</i>
G1.15	Distributed Sound System - Large Multipurpose	AV Consultant	General Contract	1	Isum	\$ -	\$ -	<i>Budget for Program Statement \$70,000 per consultant</i>
G1.16	Distributed Sound System - Medium Multipurpose	AV Consultant	General Contract	4	Isum	\$ -	\$ -	<i>Budget for Program Statement \$280,000 per consultant</i>
G1.17	Distributed Sound System - Multi Court Gyms (3)	AV Consultant	General Contract	3	Isum	\$ -	\$ -	<i>Budget for Program Statement \$225,000 per consultant</i>
G1.18	Locker Room Paging and BGM	AV Consultant	General Contract	1	Isum	\$ -	\$ -	<i>Budget for Program Statement \$36,674 per consultant</i>
G1.19	Admin Office Conference Room AV	AV Consultant	General Contract	1	Isum	\$ -	\$ -	<i>Budget for Program Statement \$20,000 per consultant</i>
G1.20	Pool Audio Visual - AV Equipment	AV Consultant	General Contract	0	Isum	\$ -	\$ -	<i>Budget for Program Statement \$100,000 per consultant</i>
	SUBTOTAL:					\$ -		
	TOTAL - SPECIAL SYSTEMS:					\$ -		
	PROJECT TOTAL:					\$ -		

**14L2T Southeast Recreation Facility Replacement
Program Statement**



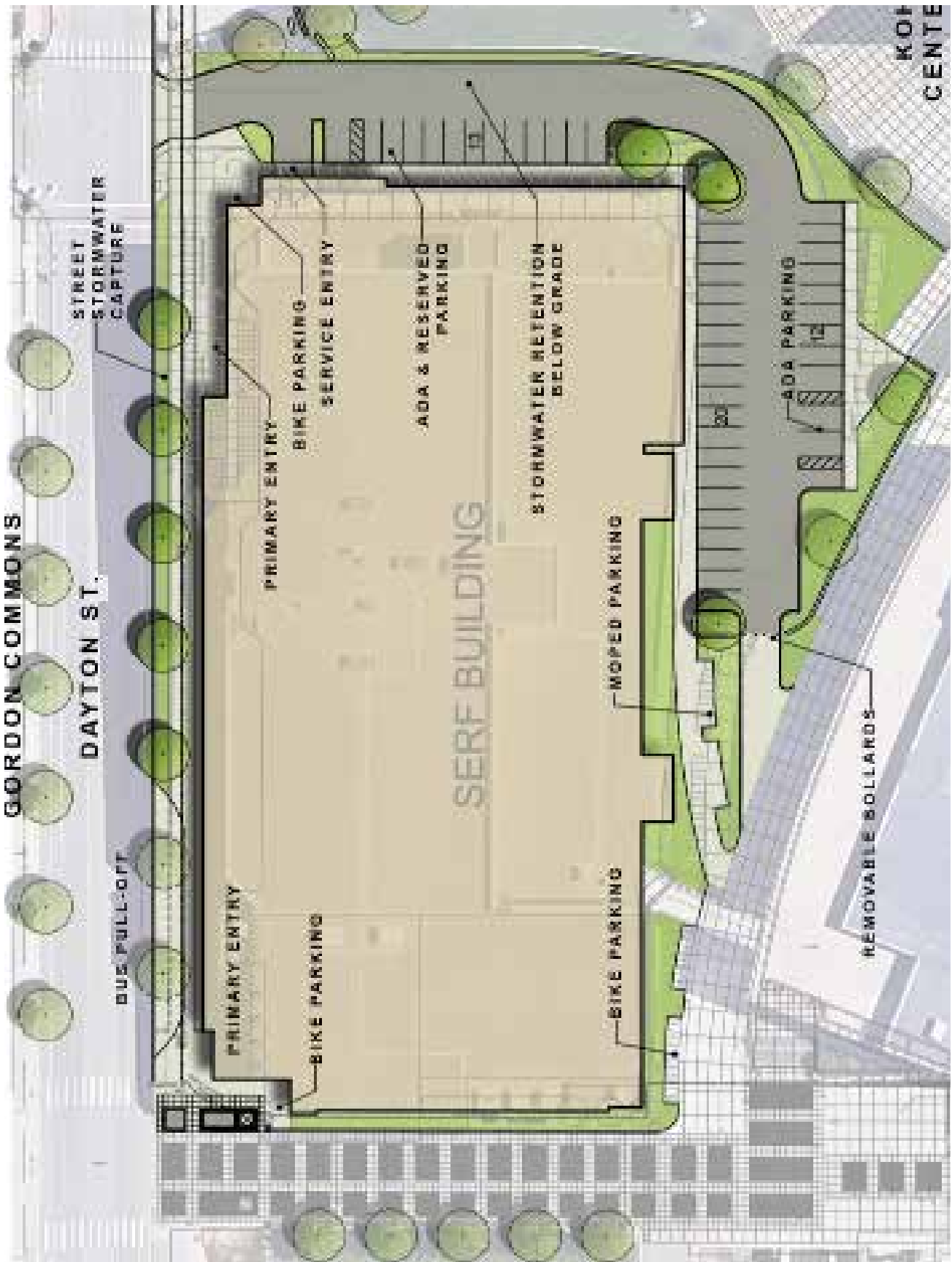
SECTION M CONCEPTUAL DRAWINGS



14L2T Southeast Recreation Facility Replacement
Program Statement



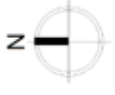
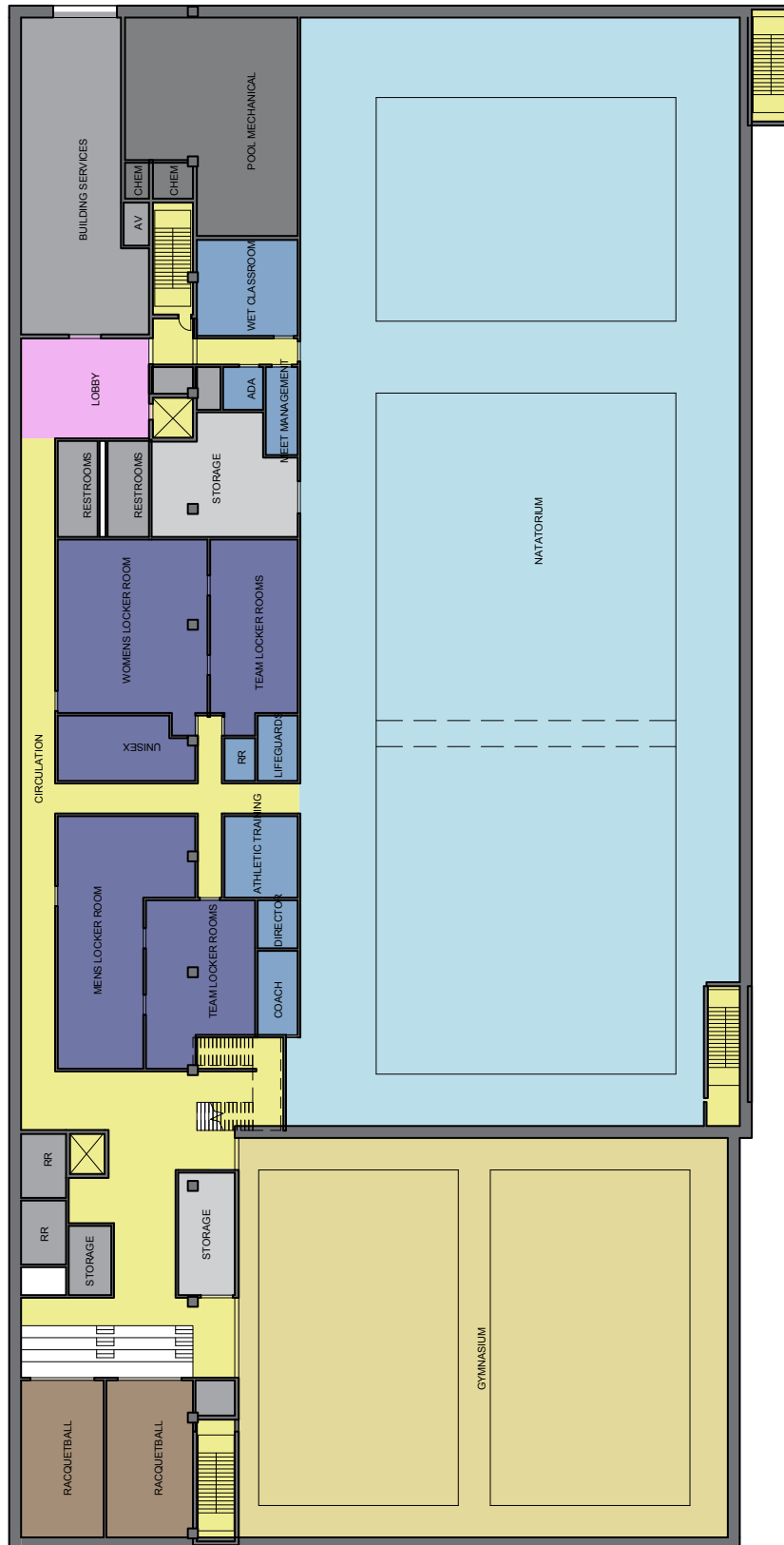
M.1 Conceptual Site Plan



14L2T Southeast Recreation Facility Replacement
Program Statement



M.2 Conceptual Plans



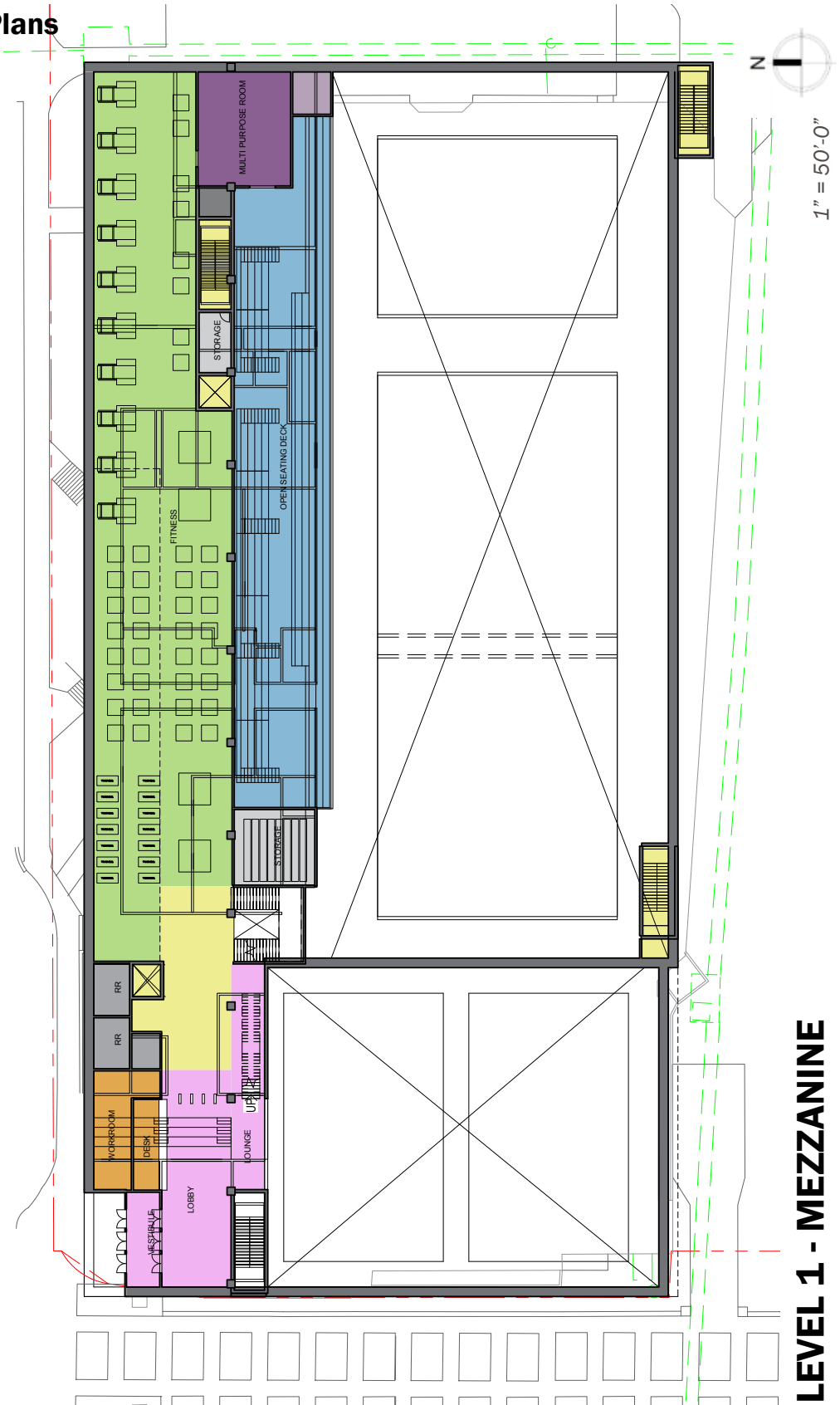
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LEVEL 1

14L2T Southeast Recreation Facility Replacement
Program Statement



M.2 Conceptual Plans

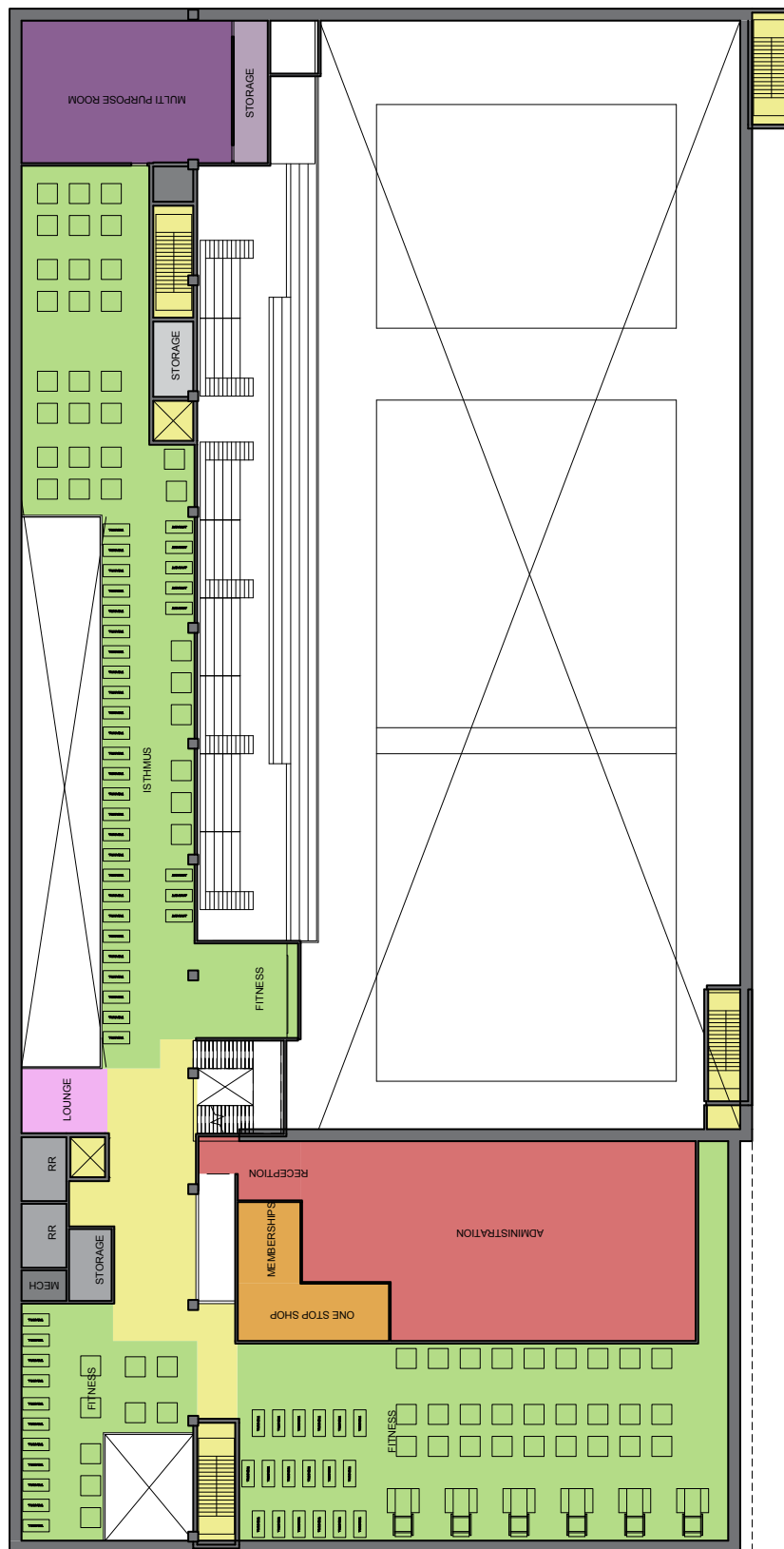


LEVEL 1 - MEZZANINE

14L2T Southeast Recreation Facility Replacement
Program Statement



M.2 Conceptual Plans



LEVEL 2

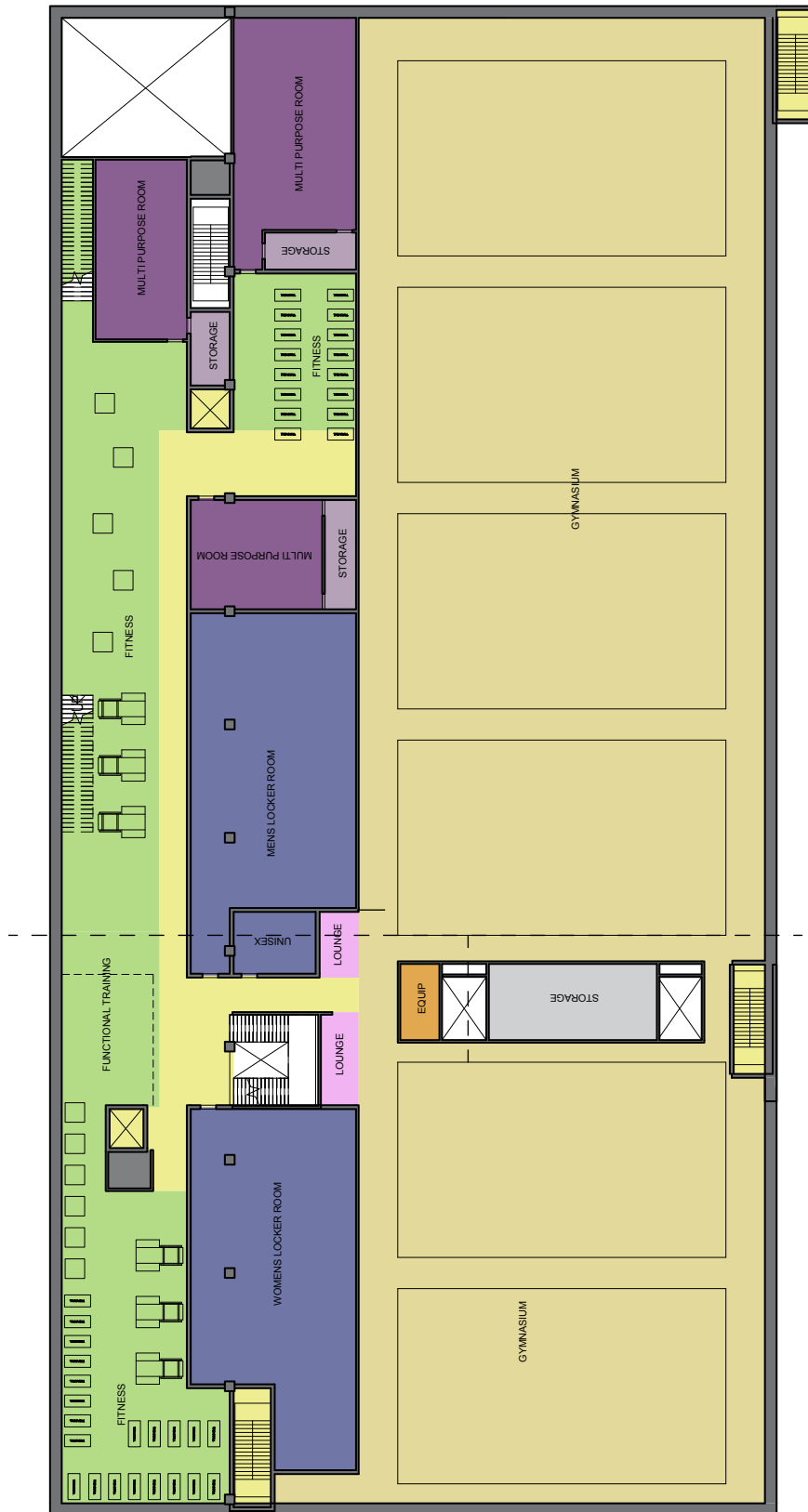
14L2T Southeast Recreation Facility Replacement
Program Statement



M.2 Conceptual Plans



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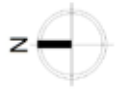
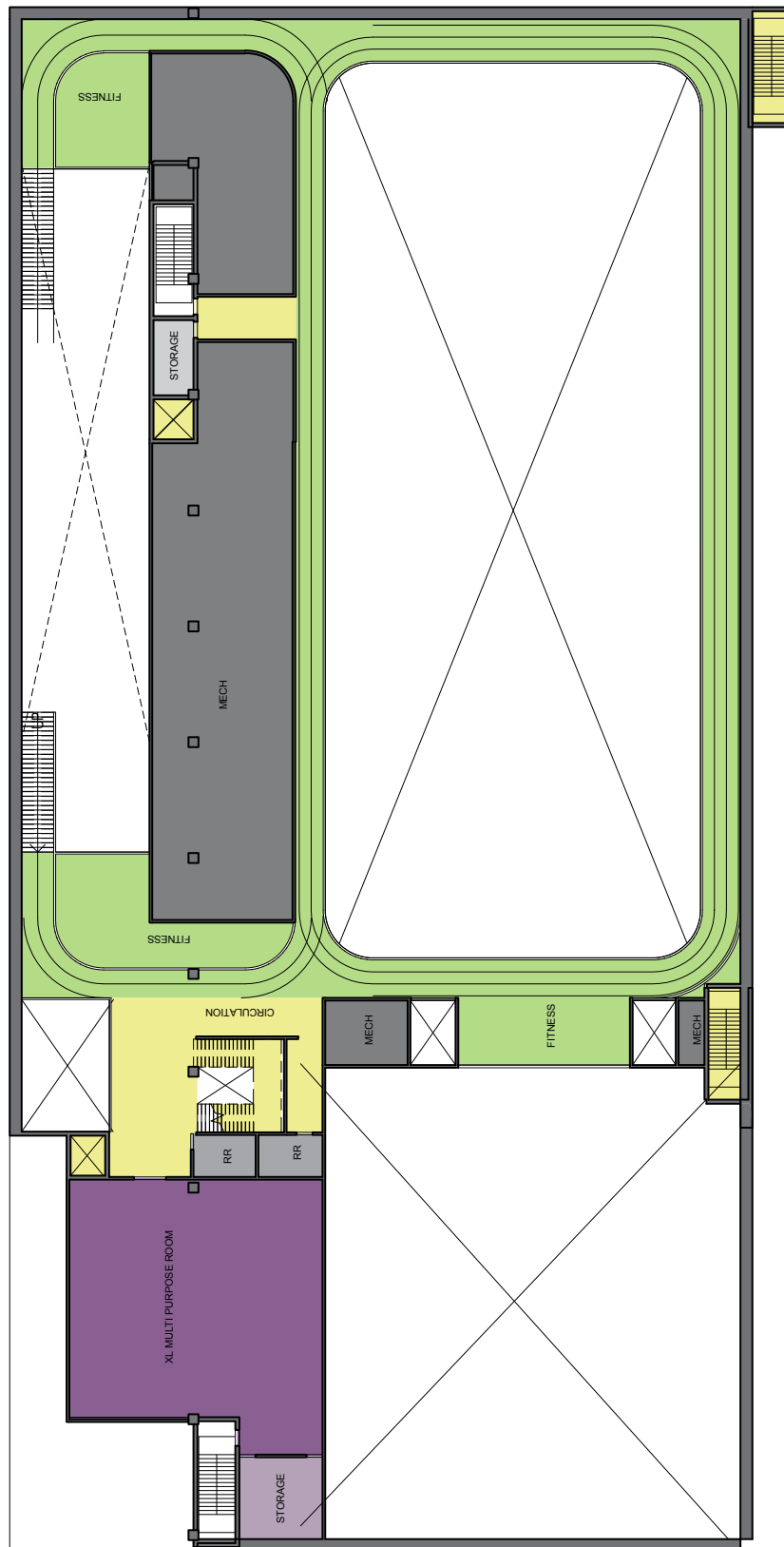


LEVEL 3

**14L2T Southeast Recreation Facility Replacement
Program Statement**



M.2 Conceptual Plans



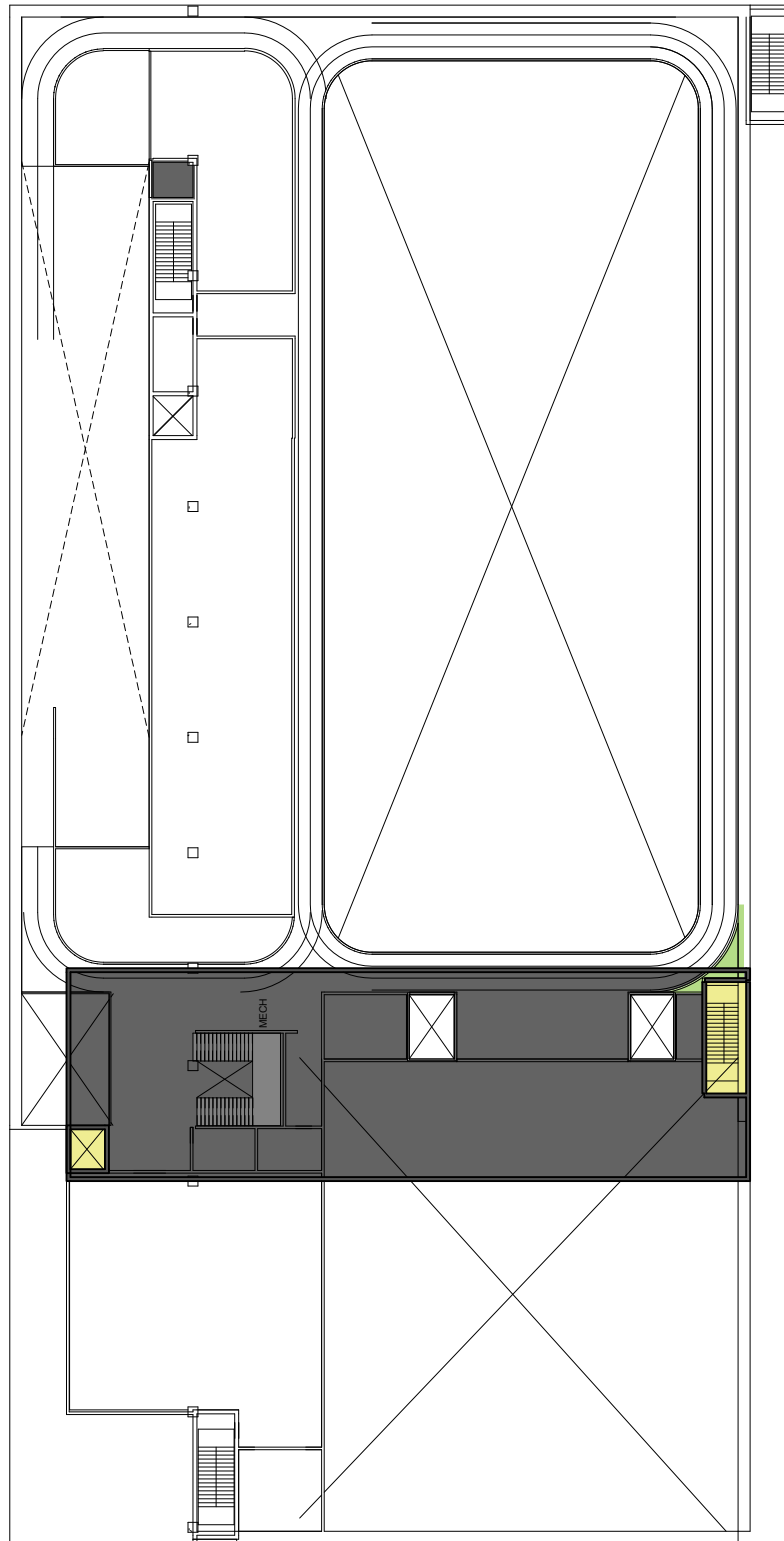
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LEVEL 4

**14L2T Southeast Recreation Facility Replacement
Program Statement**



M.2 Conceptual Plans



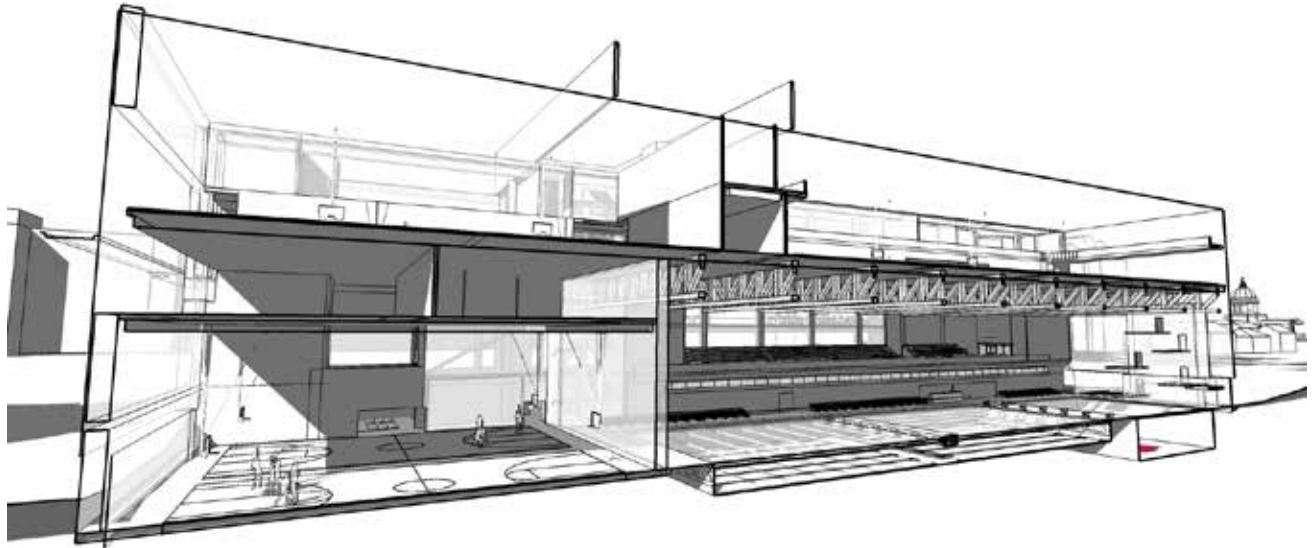
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MECHANICAL PENTHOUSE

14L2T Southeast Recreation Facility Replacement
Program Statement

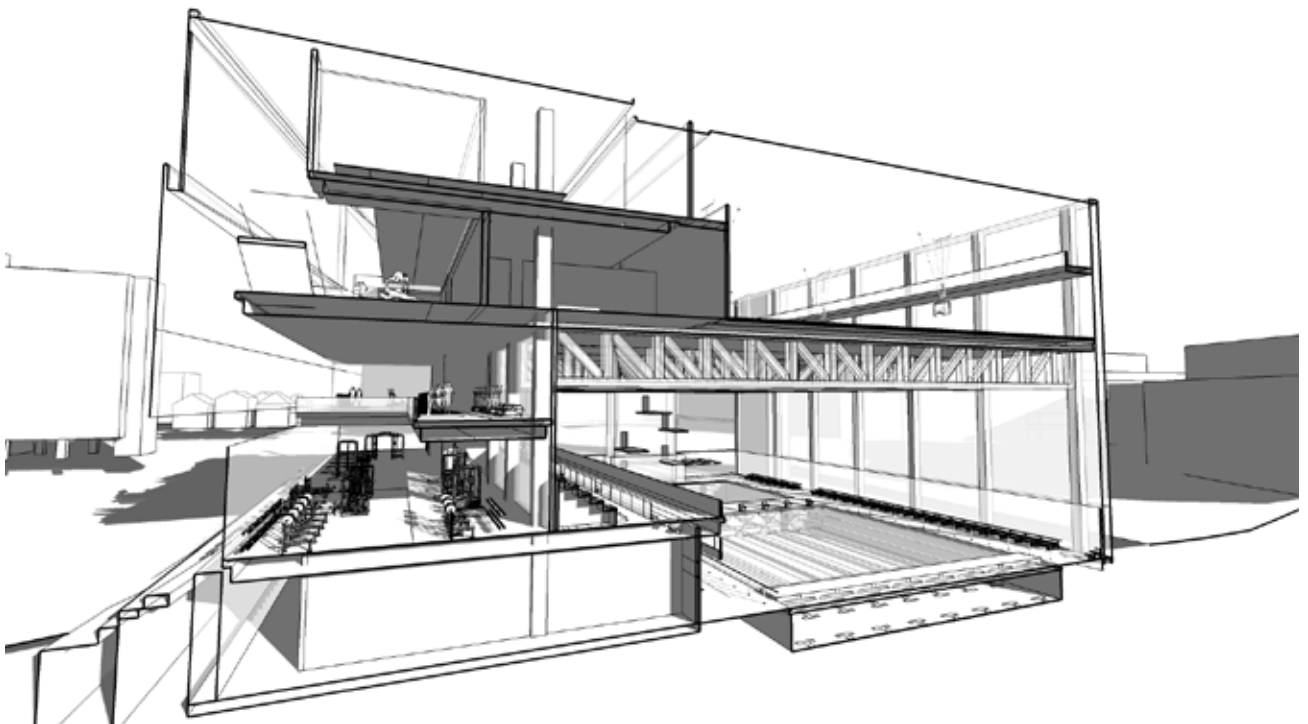
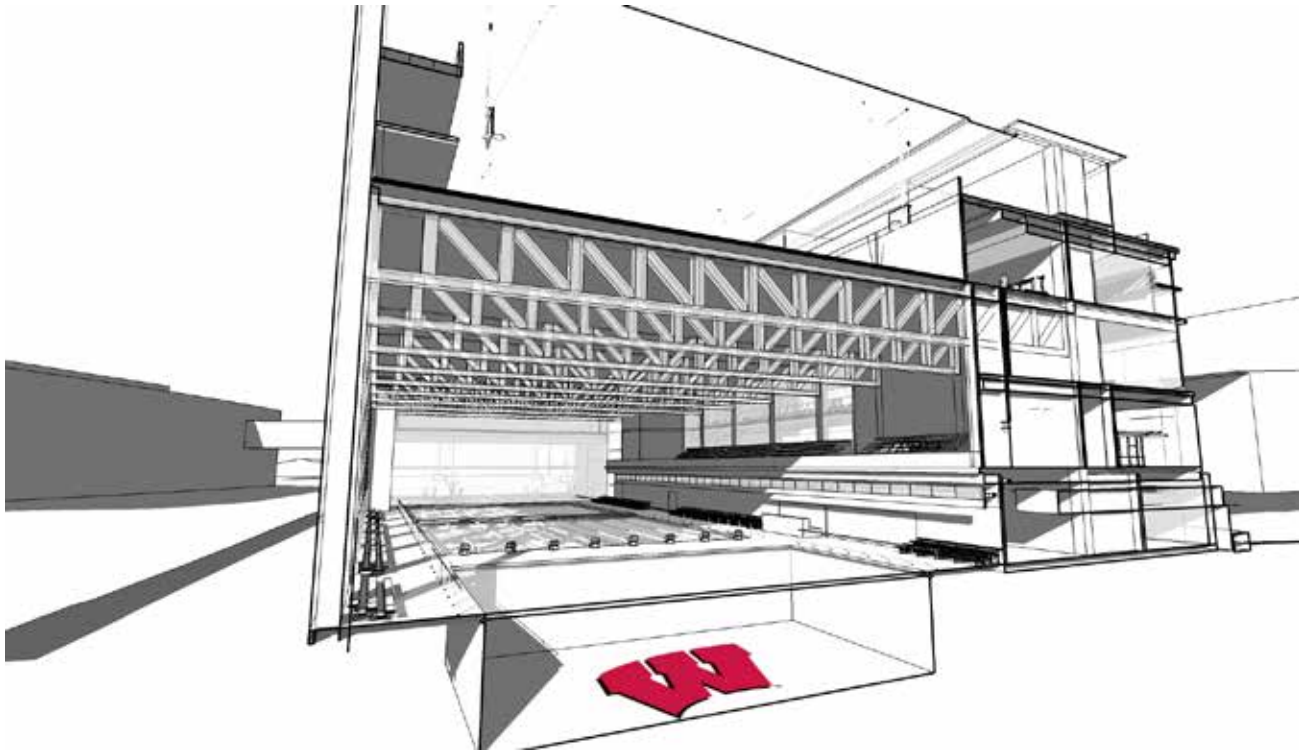


M.3 Building Sections



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Program Statement

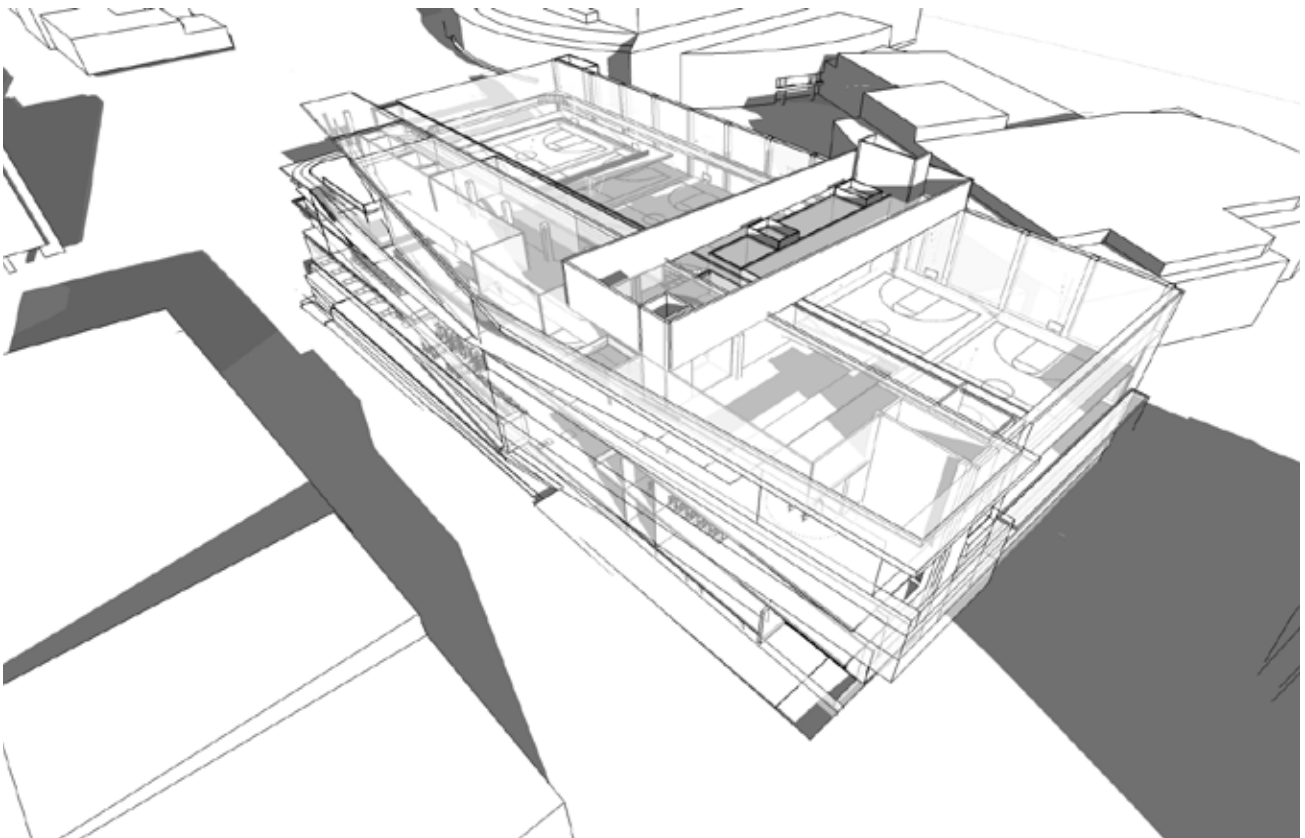
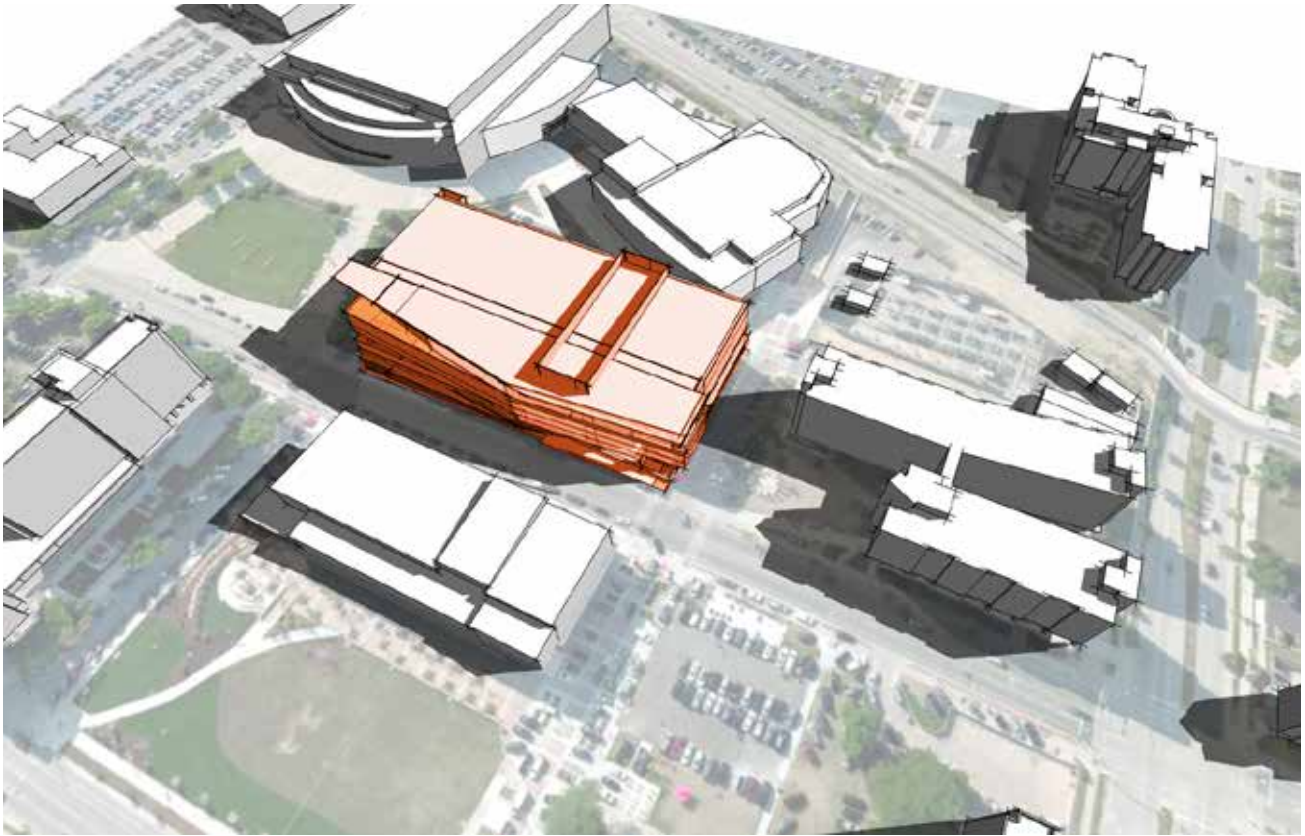




M.2 Building Sections



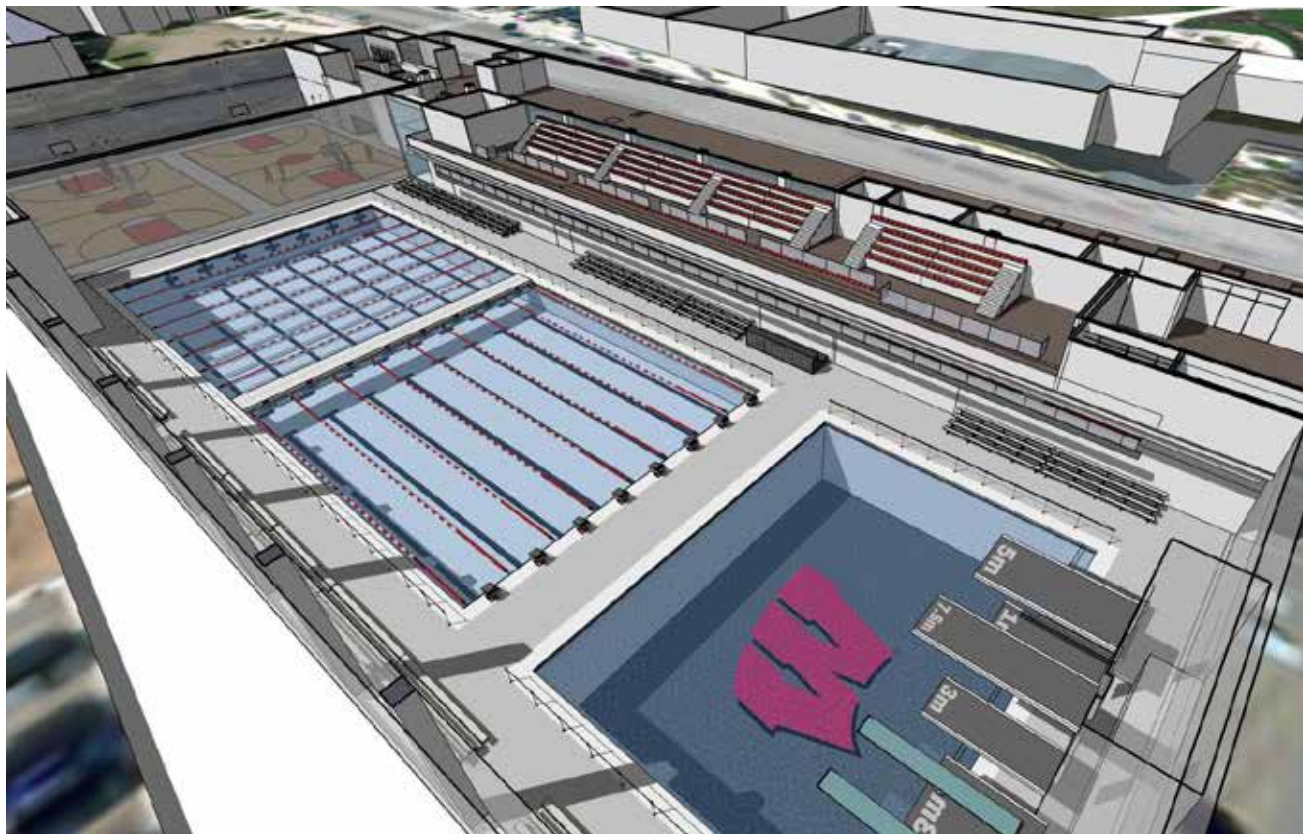
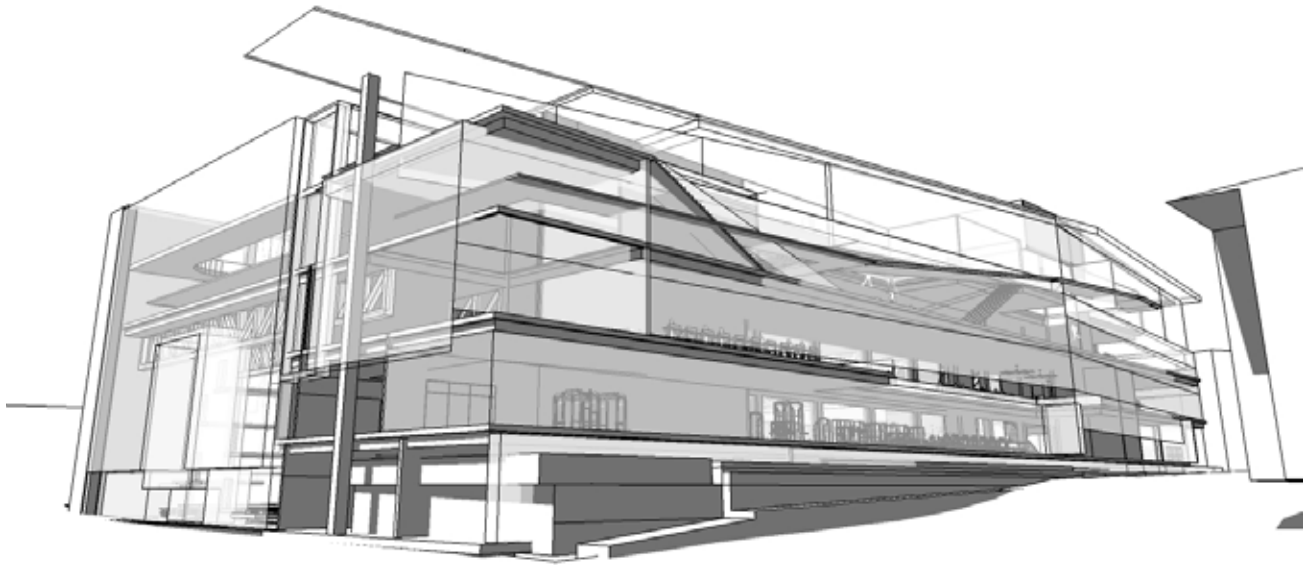
M.3 Building Perspectives



M.3 Building Perspectives



M.3 Building Perspectives



**14L2T Southeast Recreation Facility Replacement
Program Statement**



