

VIRGINIA KEY BEACH PARK MUSEUM

Draft Functional Program

June 2006

VIRGINIA KEY BEACH PARK MUSEUM

Functional Program

June 2006

Table of Contents

1. Introduction.....	1
1.1 Vision Statement	1
1.2 Organization of this Report.....	2
2. Site and Building Requirements	3
2.1 Site Context.....	3
2.2 Museum Site	8
2.3 Planning Requirements	9
3. Functional Area Descriptions.....	11
3.1 Site, Approach and Parking.....	11
3.2 Outdoor Built Areas	12
3.3 Arrival and Assembly.....	12
3.4 Visitor Services and Amenities	13
3.5 Galleries, Theatre and Resource Center	15
3.6 Public Programs	16
3.7 Collections and Exhibition Support.....	17
3.8 Administration and Staff Amenities.....	18
3.9 Operations.....	19
4. Space Requirements	21
4.1 Space Analysis Tools	21
4.2 Space Program.....	25
4.3 Building Block Diagrams.....	40
5. Access, Adjacency and Circulation Diagrams.....	43
6. Building Systems and Standards.....	47
6.1 Systems and Standards by Topic Heading.....	47
7. Room Data Sheets	77
7.1 Room Data SheetsTable of Contents.....	77

1. Introduction

This **Functional Program** is the next component of the planning process, following on the Facility Strategy, which acts as a front end for this Report. This Draft Report considers the site and building designated for the Virginia Key Beach Park Museum, recommends a zoned space program, provides a diagram indicating access, adjacency and circulation within the proposed building, indicates a preliminary massing of the building program, and indicates requisite systems and standards for the operation of the building on this site. It also provides more detailed criteria for the Virginia Key Beach Park Museum, including standards for building systems, and refined Space Program and adjacency diagram, plus room data sheets which describe each of the program room spaces in detail.

1.1 Vision Statement

The vision for Virginia Key Beach is that the entire Park will become a site museum that will commemorate and explain the site's historic significance reflecting both the natural and cultural aspects of the VKB Park. This will be achieved through a combination of "Outdoor Museum", "Commemorative Landscape", and a VKB Park Museum structure.

Visiting Virginia Key Beach Park will be a unique experience that includes leisure and amusement activities (the beach, picnic areas, carousel and hedge theatre), an ecological park, and a new building to serve as a central museum facility.

The goal of this project is to create a destination that will involve its audiences in developing public programs and exhibitions geared to highlight the following features and themes:

- An understanding of the natural history of the barrier island, including its evolution and development, related to the human history of the site
- An understanding of the possible early occupants of the site (native Americans, African Americans fleeing to the Bahamas, pirates, rum runners, etc)
- An understanding of African American history at Virginia Key (1920s and 1930s, WWII, the "Wade-In" and the establishment of the park)
- The context of Miami's last "natural jewel": Virginia Key's role in the urban context
- African American experience in Miami-Dade County, and the struggle for civil rights
- An understanding of the daily world of Miami-Dade County's African American community during the park's period of significance (including family life, entertainment and cultural expression, church and civic life, and segregation)
- An awareness of Miami's African-Caribbean culture: the place of nature in African cultures, the uses and significance of plants, links to the Caribbean, festivals and celebrations
- Highlighting black contributions to Miami-Dade County History (the first Miamians, founders of Coconut Grove, Lemon City, Overtown, civil rights figures, etc)

An overall strategy for interpreting the Park is to revive the entire site as a "meeting place" and the Museum Building should embody that idea with a connection to the landscape.

The Museum Building will provide a lobby gathering place with a shop and visitor amenities; permanent and changing exhibitions, orientation theatre, restaurant, special events space, interactive education areas for school and other tour groups, and behind the scenes program support and work areas for staff.

1.2 Organization of this Report

The Functional Program consists of the following Chapters:

- Chapter 1: Introduction, which reviews the history and organization of the study.
- Chapter 2: Site and Building Requirements, which reviews conclusions and recommendations from the Facility Strategy which affect building planning.
- Chapter 3: Functional Area Requirements
- Chapter 4: Space Requirements
- Chapter 5: Access, Adjacency and Circulation Diagrams
- Chapter 6: Building Systems and Standards
- Chapter 7: Room Data Sheets

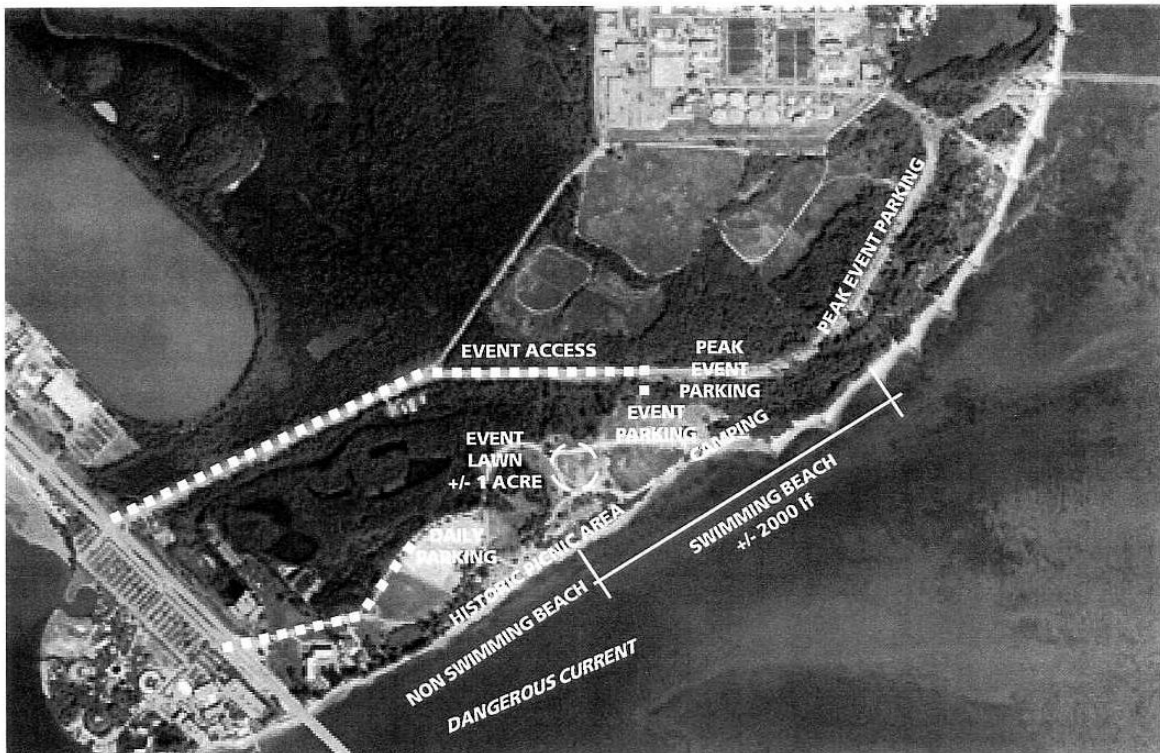
2. Site and Building Requirements

2.1 Site Context

The park was established in August 1945 in response to the demand for a beach open to African Americans, that had culminated with the “wade-in” protest staged by Judge Lawson Thomas and others in May of that year. The park functioned until its transfer to Miami in 1982, when it was finally closed.

In June 1999, a group of citizens called the **Virginia Key Beach Park Civil Rights Task Force** was established as a result of broad community opposition to plans for private development of the beach park site. Later that year, the Miami City Commission established the **Virginia Key Beach Park Trust** to oversee the development of the historic Park property. The Trust has been working diligently to restore and preserve this historical treasure.

In August 2002, the site was placed on the National Register of Historic Places and was recognized with a State of Florida Historical Marker.



Park Use Areas and Access

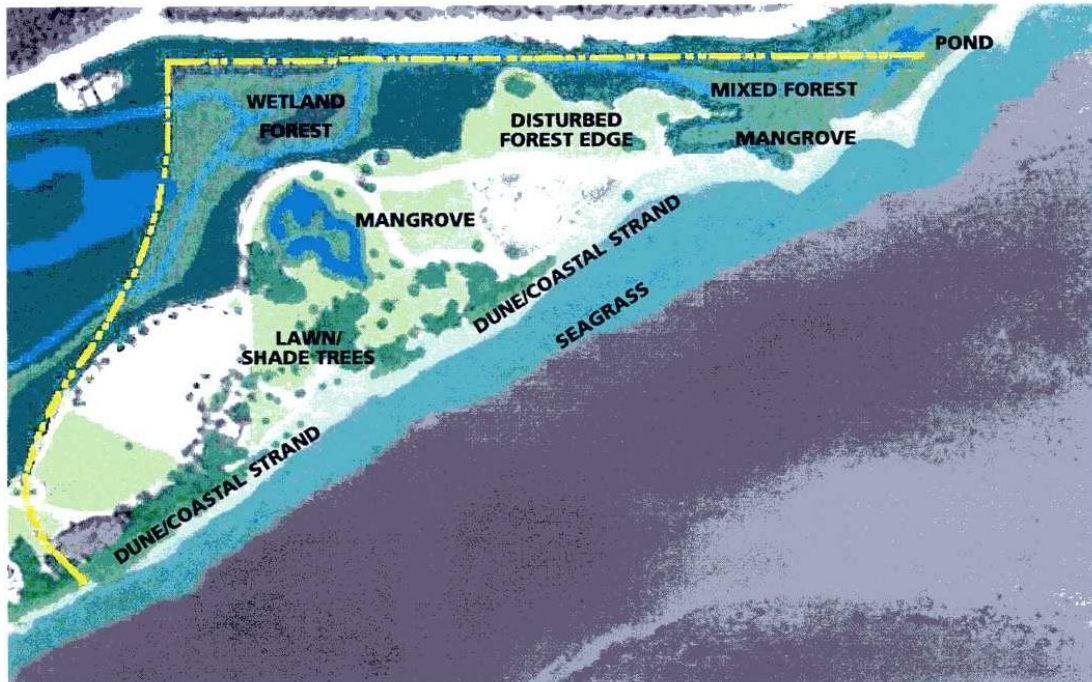
Virginia Key is part of a chain of barrier islands that, along with Biscayne Key and Miami Beach, form Biscayne Bay. Due to the currents eroding away the shoreline, this is the only island that has maintained its natural character, as it was unsuitable for development. As such, it provides a natural habitat for a number of endangered species, as well as a very diverse variety of birds, animals, and other amphibian and aquatic life.



Landscape and Topography

The topography of the park is relatively simple, with slight slopes leading towards the dunes at the perimeter edges. There are a number of man-made water bodies constructed in the 1960s for controlling the mosquito population – and there is a man-made lake in the center of the park, constructed in 1958, which was surrounded by the mini-train ride. Remnants of mangrove trees indicate a previous abundance of mangroves, which have deteriorated due to the receding shore edges and erosion.

A number of very important soft landscape features existed and thrived during the park's glory days: these include lawns and clusters of shade trees, as well as a palm grove and coconut grove which added to the high quality of the park's recreational setting. Currently, the park's vegetation is over-run by invasive exotic vegetation – though a number of rare plant specimens are still present in some areas. The main distinctive vegetative areas include shore seagrass, dune vegetation, coastal tree line, a wetland forest (located around the mosquito control ponds, and identified as a separate micro-climate by a 1999 DERM Environmentally Endangered Lands survey), and a mixed forest found at the eastern end of the site (comprised of native and exotic plants, at the level of the parking lot). Currently, the Army Corps of Engineers is conducting a regenerative landscape plan.



Existing Vegetation

With heavy vegetation acting as a solid backdrop, there are no significant vantage views from the park: no developments are visible, leaving the focus on nature and the ocean. Several locations offer views of the shoreline and the “manicured” landscaping of the park. An important vantage point is the park's entrance – and the chosen location for the VKB Park Museum: it will be the first building to become visible when approaching the park, and it will also be the last visible structure when departing from the site.

Hard Landscape and Structures

The park's development, since its opening in 1945, has been sporadic. At its inauguration, the only amenities present were a number of scattered picnic tables and some army buildings used as park offices; access was made by boat. By 1947, a new causeway linked the island to the mainland: built as an exchange of 900 acres of land on Key Biscayne, this new bridge allowed residents of Miami Dade County to enjoy the beauty of Key Biscayne. By 1949, a paved road linked the park to the causeway, and unpaved parking for 1,200 vehicles was facilitated – along with the construction of some cabanas and a new wood-frame house for the park superintendent. Following the hurricane of 1950, a new paved entrance drive leading to a paved parking lot for 660 vehicles was created, and further amenities were constructed – including more changing cabanas, rental cabins, a park office with first aid station, a concessions building, a bath house.

Remaining structures, surviving from the Park's glory days, include:

- Dance floor – concrete slab only, no contextual surroundings
- Carousel structure
- Bathroom / Restroom building
- Picnic Pavilion
- Miniature train tunnel
- Other restrooms and smaller picnic pavilions
- Concession Stand

Remaining ruins of previous structures include:

- Park office – foundation slab only
- Cabanas – foundation slab only
- Miniature train station – foundation slab only

All other structures have been demolished or lost.

Park “Carrying Capacity”

The VKB Park Master plan (Nov.2003) identifies a capacity of 2,400 people per day, based on the parking lot capacity of 660 vehicles with 3-4 passengers each. The maximum annual attendance was established at around 300,000 people.

The limited beach and swimming area (currently under re-evaluation by the Army Corps of Engineers, following their regenerative planting and shoreline stabilization programs) allowed for 2,000 linear feet of beach property, which at an average density of 240 sf/person indicates the potential of approximately 500 people using the beach at any given time. Additionally, another 412 people are estimated to be able to use the picnic areas at peak capacity, and up to 60 people can be accommodated on the 15 camping sites. This raises the total peak daily capacity to 1,112 people maximum.

The one-acre performance lawn can accommodate up to 12,445 people according to the same report, with a maximum parking area available for up to 2,000 cars in the parking lot and the overflow lawn areas. The total peak parking demand for an event would be 3,560 cars.

Park Reconstruction Goals

The VKB Park design charette identified the following four major goals:

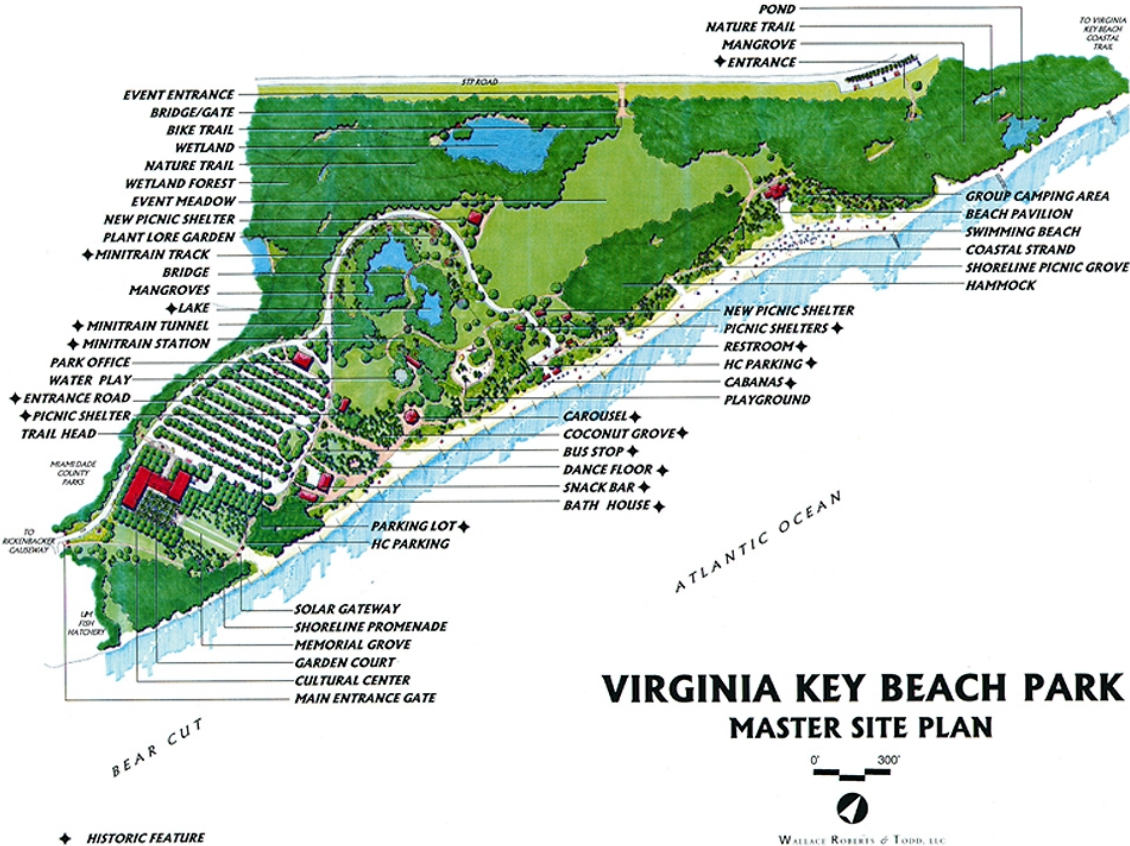
- Preserve and interpret the park's historic and natural features
- Document and commemorate Miami-Dade County's Black Heritage
- Provide recreational and educational opportunities
- Provide programs and services that overcome barriers to recreational and educational opportunities of county residents

Draft Functional Program

Some of the elements that will be highlighted in the retrofit design will include a number of commemorative landscape features such as:

- Inscribed stone garden court terrace with date palms and interactive fountain
- “Solar Gateway”
- Memorial Walkway with inscriptions
- Memorial Coconut Grove with markers and monuments
- Recreation/reinterpretation of Park Office in original location, as an interpretive display
- Bath House interpretive display
- Replacement of Carousel horses
- Carousel interpretive text and historic photographs
- Installation of juke box at Dance Pavilion, with era music from 1920-1960
- Restore and enhance miniature train features (train, tracks, tunnel, and station)
- Replace metal cabanas and install interpretive signage
- Parking lot interpretive signage and historic photographs; classic car display
- Shoreline interpretive features and signage
- Natural History interpretive signage
- State historic marker installation

Additionally, a list of site-specific improvements have been identified. These include – but are not limited to – paving and grading, drainage, planting evaluation and regeneration programs, recreational feature improvements to the trail system, beach improvements, picnic and camping facilities, a children’s amusement area, and a new Event Meadow integrated into the landscape of the site. In parallel with these, new water and sewer services will be provided, and new electrical connections will be made to service the new and improved uses of the park (which will include telephone, internet, and security systems).

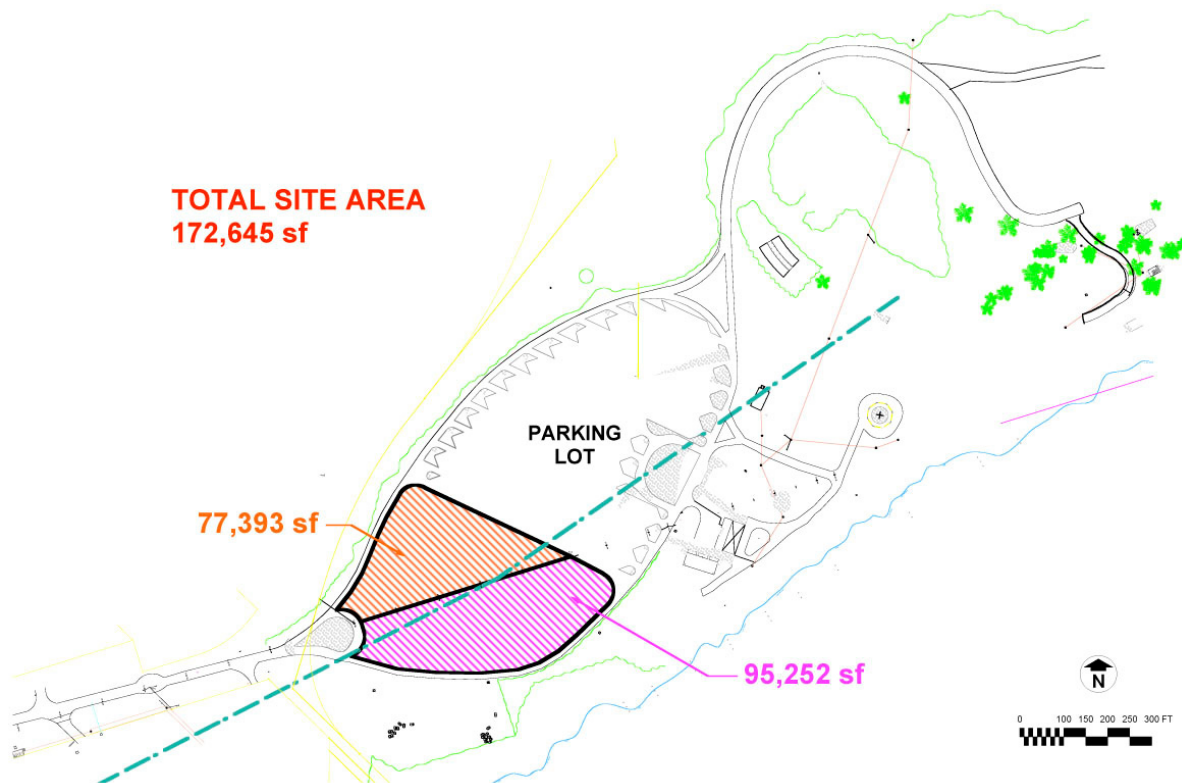


2.2 Museum Site

The Virginia Key Beach Park Master Site Plan (previous page) identifies the extent of the Park and the site selected for the Museum Building (labelled as the Cultural Center on the VKB Master Site Plan). The roughly triangular site is defined by the park road to the north and the south, and by the existing historic parking lot to the east. The **Coastal Construction Control Line (CCCL)** bisects the site parallel to the beach. The total area of the irregularly shaped site for the Museum Building is approximately 172,640 square feet – with approximately 77,390 square feet lying north of the CCCL and approximately 95,250 square feet south of the CCCL.

The 82.5 acre property is located at 3861 Rickenbacker Causeway. Because virtually the entire site is protected as either a natural resource or historic resource, potential locations for new construction and site improvements are severely limited. Any site improvements must take into account impacts to resources and avoid, minimize and mitigate these impacts.

The site chosen for the museum places the future building in a prominent position in relation to site access as well as to the rest of the property. Surrounded by vibrant vegetation as if in a park setting of its own, this building will be the first point of contact for the visitors when arriving to the site, and it will also serve as their last visual marker upon departure.

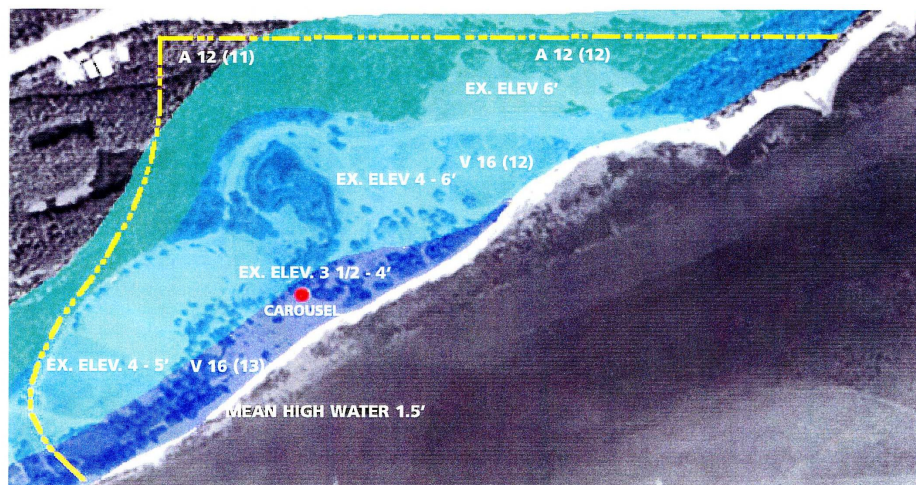
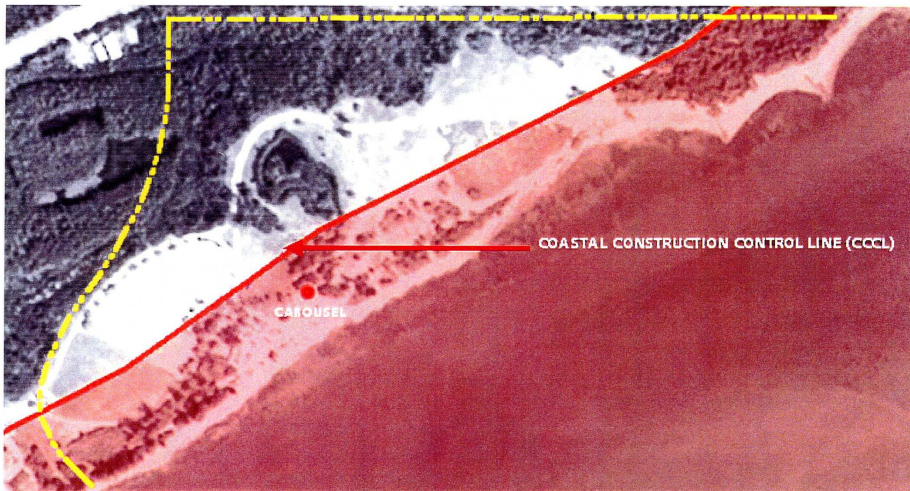


2.3 Planning Requirements

Certain planning principles and assumptions affecting the Museum building project were determined in the Virginia Key Beach Park Master Plan, dated November 2003. These are confirmed here, and made relevant to the facility plan.

2.3.1 Building Code Requirements

All construction at Virginia Key Beach Park must meet standards imposed by the site's significant flood hazard. Engineering and building requirements to meet Federal Emergency Management Administration requirements are regulated and permitted through both the City of Miami Building Department and, for construction seaward of the **Coastal Construction Control Line**, through the Florida Department of Environmental Protection. The majority of the Virginia Key Beach Park site falls within "V" flood hazard zones. **V zones require all construction to be on pilings, with the lowest structural member of the structure to be a minimum of 12 feet above the mean high water elevation of the site (1.5'), and to include "breakaway" construction at ground level to permit flood waters to flow through the pilings.** A limited area along the northern boundary is within an "A" zone, which requires all habitable spaces to be elevated 12 feet above mean high water, but which permits construction to be on fill rather than on pilings (please refer to diagrams below).



2.3.2 Planning and Zoning

Design of all improvements at Virginia Key Beach Park is subject to review by the City of Miami Planning Board (City Commission) and as a waterfront site requires a Class II Special Permit. In addition, improvements are subject to review by the Miami-Dade County Waterfront Development Committee, the City of Miami Parks Advisory Board, and the Waterfront Advisory Board. Current zoning of the site is "Parks & Recreation" either by designation or by interpretation for the area annexed to the city but left un-zoned, which is subject to the most restrictive adjacent zoning designation. Permitted uses within this designation include: public parks, clinics and day care centers, police facilities, marine and marina facilities, educational facilities, cultural facilities, museums, art galleries, exhibition spaces, social & entertainment services, restaurants, cafes, retail and entertainment facilities. The proposed Museum is therefore a conforming use.

2.3.3 Historic Preservation Requirements

In order to protect the status of Virginia Key Beach Park as a National Register of Historic Places site, all improvements to the Park must adhere to the Secretary of the Interior's Standards for the Treatment of Historic Properties and Guidelines for the Treatment of Cultural Landscapes. Improvements, additions and adaptive reuse of park facilities must not adversely impact the listed historic resources or impair the integrity of the Character Defining Features of the landscape.

2.3.4 Limited building sites for new construction

Because virtually the entire site is protected as either a natural resource or historic resource, potential locations for new construction and site improvements are severely limited. Any site improvements must take into account impacts to resources and avoid, minimize and mitigate these impacts.

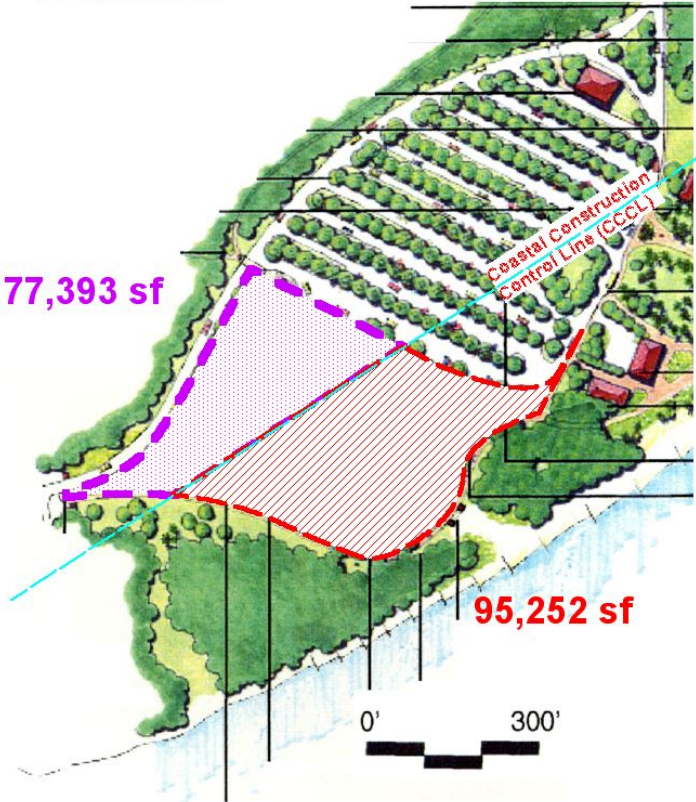
3. Functional Area Descriptions

Description of the building space in terms of functional areas allows us to focus on broad aspects of space use, which involve combinations of space used for particular activities – for example, both public and non-public space used to support the exhibition program. The Functional Area Descriptions provided here are consistent with the collection analysis, interpretative strategy and public program plan provided in the phase A1 Concept Development report.

3.1 Site, Approach and Parking

The VKBPM will sit prominently at the entry to the park, and will serve as the visitors' first point of contact upon arrival, as well as their last visible structure upon departure. The building will lie to the west of the large parking lot, surrounded by lush landscape. The road leading past the building will be wide enough to accommodate emergency and fire rescue vehicles, as well as garbage and delivery trucks to service the building on a regular basis.

TOTAL SITE AREA
172,645 sf



Vehicle drop-off and pick-up: Visitors will drive past the building and return on foot; no immediate car drop-off or pick-up will be available at the building's edge. Group and bus drop-off will also occur in the parking lot. As the building is to be elevated on pillars of a minimum 13.5 ft high, shade and rain protection will be offered primarily by the building's suspended footprint. The distance between the drop-off location and the museum building should not be more than 300 ft. Disabled access and drop-off will have to be provided in immediate adjacency to the building, for both public transit and private vehicles.

Recommendations: It is recommended that VKBPM should provide additional covered shade and shelter means at the designated passenger pick-up and drop-off lay-by lane at the edge of the parking lot nearest to the building.

Services: the building services will be accessed from a side lane that will have to be masked by soft and hard landscape material, with access to the loading area and the service elevator and an adjustable platform under the building at grade level. Two loading areas should be provided, one reserved for collections and exhibitions, the other for non-collection materials, which will include food deliveries and garbage disposal.

3.2 Outdoor Built Areas

Although the entire Park is conceptualized as a museum, the Museum building will provide interpretation of the VKB themes through indoor exhibits and other amenities. The Museum building will complement its natural setting in the Park and incorporate as many “outdoor” qualities as possible, such as outdoor exhibits adjacent to it, a rooftop viewing area, and a patio or outdoor program space available for rental. The new facility may incorporate offices for VKB Trust staff and volunteers. It will provide state-of-art support for exhibitions, multimedia, collections and visitor services.

As discussed above, the VKBPM facility will have to be built on piles that raise the main built area 12 feet above the 1.5 ft high water mark; any facilities located at the ground plane must be of a “breakaway” design and will be subject to flooding and outright destruction in case of heavy tropical storms. Thus, the building will be raised above a covered outdoor area which can provide the supporting structure and important public and service access and egress points, but which will have little built structure. Casual shady seating areas with hardscape and landscape features, can be designed to blend with the building and surroundings. Features of the outdoor built space must include:

- Vertical Circulation Core with freight and passenger elevators, fire stairs and telecommunication vertical conduit, built in conjunction with main structural building supports. Depending on the architecture, vertical circulation could even be accomplished by a ramp, along which there might be outdoor exhibits enticing visitors to approach the entrance.
- Public entry plaza or “outdoor lobby”, which could offer information and ticketing booths as well as sheltered assembly space, providing entry for visitors to the Museum via the Vertical Circulation Core.
- Screened Loading Bay and Dock under cover, linking to the Freight Elevator in the Vertical Circulation Core.
- Screened area for garbage bins, recycling, etc. accessible by truck, and from the building via the Vertical Circulation Core.

3.3 Arrival and Assembly

Arrival is a key part of the visitor experience, and the first part of the arrival experience within the Museum building is the lobby. The lobby serves as the entry point to the Museum, the assembly space for families, couples and groups, and the ticketing and orientation hub of the Museum. Easy visual and physical access from the lobby to the key amenities and experiences is critical, since it forms the base level of visitor orientation. The well-oriented visitor will tend to get more out of the museum experience, to be more satisfied with their experience, and be more likely to return. The Museum lobby also anticipates the experience found in the galleries and other spaces.

Assumption: VKBPM wishes to facilitate visitors of all ages and backgrounds to feel engaged and empowered from the moment they enter the museum lobby space. A feeling of welcome, invitation and participation, and of continued engagement with the outdoor environment and the site, are essential.

Recommendations: It is recommended that VKBPM should have an outdoor entry lobby space as described above, and an indoor entry lobby space that is spacious and inviting, and provides the immediate access to visitor services and to the interpretive experience, with direct entry to the Freedom Theater as the beginning point of the experience. The admissions counter and location of un-ticketed services such as washrooms, cloakroom and audio-guides should be immediately visible to the visitor on entering. The lobby space should allow enough space for ease of assembly and queuing, especially for school groups who should have a special lobby alcove for viewing an orientation video. The lively feeling of the lobby will be enhanced by activities that spill into the lobby space, such as casual café seating, and movable retail components.

3.4 Visitor Services and Amenities

As museums intensify their commitment to creating a total experience for visitors, the number and quality of amenities as well as visitor expectations for these services have increased. No longer do minimal clean restrooms, drinking fountains, vending machines, and a gift stand suffice. Some of the minimum amenities offered by museums, and that VKBPM should offer, are:

- Centralized and friendly ticketing, information and membership services
- Enough public washrooms and elevators in more than one location
- Unisex diaper changing stations or family restrooms
- Secure coat check or lockers
- Handicapped access to all public spaces
- Retail – Museum Shop
- Food Services
- Revenue Generation (Event) facilities

These services and amenities have to be planned to meet the needs of a public who may also be going to the beach, immediately before or after entering the Museum.

Ticketing and Information Services

There are two options for ticketing and information services that may be offered:

- One is to use the outdoor plaza space under the building as an informal outdoor lobby where visitors can buy tickets and access information before entering the building. Tickets could be checked before visitors get on the elevators to the main public floors of the Museum.
- The second option is to retain the indoor Lobby space as the main ticketing point, in addition to its function as the point for accessing all building amenities and experiences. This would mean that many visitors would not make the decision whether or not to buy a ticket and visit the Museum until actually inside the building. This is a distinct advantage, since it encourages uncertain visitors to enter the building, to inspect the stock for sale in the Shop, and to get used to the Museum environment before deciding to buy a ticket.

Recommendation: It is recommended that VKBPM offer centralized information and ticketing services either in the outdoor plaza, or in the main lobby, as described above, and extended through the museum's website and information resources. Situating them in the lobby is preferable, since it allows visitors to enter the Museum and sample the Shop's goods before making the decision to purchase a ticket. Orientation and way finding signage supplemented by brochures should extend from the lobby, throughout the museum space. Washrooms, checkroom or lockers, will be designed for both handicapped and others, using international symbol accessibility for visitors of all abilities and languages. Family and handicapped washrooms will be located close to activity areas as well as at the main lobby. Design should be sensitive to the fact that many visitors will have come from or be going to the beach.

Retail

A major revenue generator for some museums, the Museum Shop extends the museum experience by providing materials for purchase that allow the visitor to "take the museum home" with them as they leave. Thus the shop's stock should be different from that of other nearby retail outlets, with dedicated VKB items and an over-all high quality of design and presentation.

Recommendation: The Museum Shop will open directly from the main lobby, and may be one key means of attracting visitors into the building. For this reason, ticketing in the Main Lobby rather than outdoors is advisable, so that most of the Lobby, and the Museum Shop, can be a "no-pay" zone. VKBPM will seek to offer the level of retail that will enhance the museum experience, with a balance of merchandise including low cost items for schoolchildren, and higher priced gift items – as well as a balance between natural history, ecology and science items and art, craft and cultural materials. Stockroom and office space (private cash/floor manager's office with a safe) should be directly adjacent to the sales floor. One sales point should be able to supervise the entire sales area, ticketing and entry to or exit from the Lobby.

Food Services

Experience has shown that the museum restaurant or café is a service to visitors rather than a producer of significant revenue. Almost every museum does need to provide at least a minimum level of snack and food services, at a level of quality and variety that reflects the quality of the museum experience; the availability of food and beverages helps to extend the length of stay as well as visitor comfort.

Assumption: It is assumed that since there will be a range of food services offered throughout the Park, VKBPM will offer food services that complement but do not compete with other vendors, that enhance visitor comfort, and that reflect the Museum's mission and values. At present we understand that the Trust is considering the desirability of combining a fine-dining restaurant with its catering capabilities for rentals.

Recommendation: The VKBPM may host a fine-dining restaurant with appropriate kitchen facilities that will be concessioned out to an appropriate operator who will also undertake most of the catered events hosted at the Museum. Since the level of success of such a venture has not yet been studied, it is recommended that the restaurant seating area be as flexible as possible, perhaps combined with rental space for events and especially an outdoor partially covered terrace for additional seating and outdoor cooking. Ideally, this would be at rooftop level, to achieve a view and to avoid a location subject to flooding. To provide minimum services to visitors who do not arrive at lunch or dinner time, part of the Museum Shop could be a coffee/snack bar or kiosk manned from the sales desk, offering hot and cold beverages, pastries and snacks, with casual seating in the Lobby space.

Revenue Generating Events

Assumption: VKBPM will also host rental events to generate income:

- Meetings and conferences – bringing groups into the Museum for meetings helps to familiarize their members with the Museum.
- Museum events, including openings, receptions and fundraising parties, intended to provide publicity and fundraising opportunities;
- Private parties, including children’s and adult birthdays, weddings, anniversaries, church groups, etc.
- Corporate hospitality, renting space for parties, conferences or meetings.

Some of these events will involve Museum staff and input (as for themed birthday parties), others will involve outside service providers such as wedding planners, caterers, florists, and convention conveners.

Recommendations: It is recommended that VKBPM should have the capacity to host rental events on various levels, from renting a Board Room with buffet meal or meeting room with coffee and muffins, to a children’s birthday party with special entertainment, to a full catered opening or private party. It is recommended that rather than have event space opening from the Museum’s lobby, meeting and event facilities should be clustered with the Restaurant and catering space described above, for the maximum flexibility in hosting different types and sizes of events. Given the Miami Beach climate, outdoor terrace space with sun/rain protection can be utilized to extend indoor built space and expand restaurant operations if desired, so that a rooftop location is best. The restaurant/catering kitchen, outdoor cooking and catering setup facilities would serve both restaurant and event requirements.

3.5 Galleries, Theatre and Resource Center

Exhibitions are a core interpretive program, which present the major themes and main messages that the museum wishes to convey to the public. Many of the museum’s activities – the research, documentation and multiple perspectives of the meaning of topics being presented – converge in the very public forum of the exhibition. Exhibitions are the primary content of the visitor experience, and one of the compelling reasons that people are motivated to visit museums. Exhibitions are also an exemplary way for museums to reach a large number of people with many different frameworks for learning.

At VKBPM, the Museum’s exhibitions are intended to amplify themes found throughout the Park, interpreting natural history and social-cultural history themes using artefacts, specimens and state-of-the-art exhibition techniques in controlled environments, both for preservation and for effective presentation. The Museum will be a “must see” aspect of the total Park experience, and as an indoor experience will offer contrast and relief to the outdoor recreational experience. Thus, the space devoted to exhibits must be sizeable enough to do justice to the visitor experience, and should be designed and fabricated to a level of quality and technology that will attract visitation and win the praise and appreciation of the Park’s visitors.

Assumption: Galleries must provide environmental controls, finishes and security to acceptable museum standards, but must also provide the greatest possible access to artefacts, specimens and other exhibits in innovative formats.

Recommendation: It is recommended that there should be the following interpretive areas:

- The **Freedom Theater** will open the exhibit experience within the Museum with an exciting multimedia show approximately 10 minutes in length. The show will use a variety of media techniques including soundscapes, lighting effects and video to communicate to visitors, and will have a small performance stage with a projection room, green room and changing rooms. The Theater will seat 60 (2 school classes at one time) and will be usable as a small performance venue (Jazz quartet), cinema or Lecture Room in the evening hours.
- A **Permanent Gallery** totalling at least 8,000 sf of flexible black-box space for galleries that integrate natural and cultural history, a Discovery Box learning area, a mini-theater and the Hands-on Lab (see the latest version of the Exhibition Concept for detailed descriptions of these spaces).
- A **Temporary Exhibition Gallery** of 3000 sf should be usable as one space, or divisible into two smaller galleries.
- The **Resource Center**, adjunct to the gallery spaces, will have public access computers with both on-line access and pre-programmed information sources on the VKBPM and its collections. Part of the Resource Center will be an Oral History Lab used as a meeting space for interviews, recording or listening to oral histories, with print media and multimedia support areas.
- **Outdoor Exhibits** will be dispersed throughout the Park, some related to the natural features, flora and fauna of the VKBP, and others interpreting historic locations and structures such as the Carousel, Dance Floor, Cabanas, etc.

3.6 Public Programs

Public Programs and Special Events

A museum's public programs communicate and usually represent the core of the institution's mission and vision. Public programs – receptions, openings, exhibitions, tours, classes, camps, and special events – also usually drive attendance, providing reasons and motivation to visit a particular institution's physical site.

Special events are an excellent opportunity to create programs that draw a wider audience than day-to-day operations. They should take advantage of the unique aspects of a site. Special events can establish relationships within a community and strategic partnerships or collaborations. Some special events can become substantial revenue generators, although most museums would cite increased awareness for the organization as the primary benefit. Community occasions such as the Jamaican Festival are examples that are already happening on the VKB site.

Seasonal events draw large numbers of visitors – even residents who do not otherwise visit the site; attendance figures support the theory that performances, festivals, hands-on activities, children's camps and sleepovers, rides, and demonstrations are programs that visitors want to experience, and for which they are willing to pay.

Assumption: It is assumed that VKBPM will have an active program of regular public programs, education programs and special events, to further the Museum's aims. Space for public programs, however, should be multifunctional, and should take into account the availability of other Program spaces throughout the Park designed to meet the needs of diverse activities and events.

Partnership Programs

Assumption: VKBPM has the inherent opportunity to partner with other organizations. It is not yet clear what space implications such partnerships might have for VKBPM.

Recommendation: It is recommended that partnership opportunities continue to be actively explored, with discussions targeting shared or dedicated space requirements (if any) at an early date. The multipurpose, flexible character of the proposed VKBPM public programs space is intended to facilitate partnership opportunities without adding additional, dedicated space.

Recommendation: It is recommended that to meet the needs of diverse programs with audiences of varying ages and group sizes, public programming space needs to be as flexible and multi-use as possible. The following spaces are involved:

- **Main Lobby:** As noted above, the Main Lobby needs to facilitate a multiplicity of functions such as information, orientation, assembly and ticketing, and to provide access for participants to program areas at all building levels.
- The **Reception/Rental space** would provide the main event space used for a variety of needs, such as openings, receptions, private parties, and events. It is suggested that a modest amount of indoor built space be supplemented by an extensive outdoor event terrace shared with the Restaurant, for maximum flexibility in hosting different sizes and types of events.
- **Board/Conference Room:** In addition, there should be a large meeting space, which can function as a Lecture or Board Room seating up to 50. Both the Reception/Rental space and the Board/Conference Rooms should act as break-out areas for conferences and workshops.
- **Activity Classroom:** closely related to the galleries should be a large Activity Classroom which would act as the main teaching space, where kids, teens and adults can get creative and messy, with classes, hands-on projects and special programs such as birthday parties, camps, sleepovers, demonstrations, etc.
- **Support space:** The public program space will need to be supported by a range of support space, including a Kitchen, Catering Setup area, AV Storage, and Chair and Table storage. The Education programs in the Activity Room and Galleries requires an Education Prep room with storage for supplies, worktables and sinks.

3.7 Collections and Exhibition Support

Collections Support

Collections and their associated information form an essential backbone for the visitor experience, supporting the authenticity of exhibits and research. VKBPM expects to concentrate on borrowed collections selected for specific exhibition purposes, but as time goes by may be offered collections with broader-based applications (research, hands-on programs, visible storage) and donations from the community at large. The projected scope of collecting will affect space requirements for storing permanent and loan collections, but the collection analysis in the phase A1 report suggested an emphasis on borrowing primarily display collections only at the outset, and avoiding competition with other collecting institutions in the VKBPM areas of interest.

In addition to artifacts and specimens, VKBPM will accumulate information, requiring development of database resources, including digitized images, audio files such as oral histories, and artifact and specimen records, requiring technical staff and multimedia facilities support. Information on collections and research will flow through the Resource Center and be available to curators and interpreters, and the visitor and at-home audience, through the web. Thus, a high school student writing a paper will be able to visit the Museum and utilize the Resource Center, but will also be able to download images and information from the virtual collections of the Resource Center from home.

Assumption: It is assumed that VKBPM will require minimal space to museum collection standards of environmental control, finishes, storage systems and security to store loan and permanent collections, as well as adequate space for initial collections care and development of information resources. Unused space may be directed to other programmatic goals such as research, education, or display. As collections grow, further space may be required in an off-site location.

Recommendation: It is recommended that VKBPM provide a basic minimum of collection storage space for different types of objects, collections care space shared with exhibition support, and space planned for multimedia suites and media storage to support the Resource Center. Any unused collection storage space should be designed as modular space that can temporarily be used for exhibit staging, special projects, program storage or education. Given the building type, it is recommended that collection storage space should *not* be designed for high-density compactor shelving, so as to limit floor loading requirements.

Exhibition Support

Managing an exhibition program requires back of house facilities for receiving shipments, unpacking crates, temporary exhibition storage, and safe movement of exhibition materials to and from the galleries. In addition, many museums have exhibit workshops for fabricating exhibits in-house; these can include design studios, carpentry shops, graphics production, and paint spray booths. However, providing in-house exhibition production can be costly in space and staff resources. Many small to medium sized museums have nearly all their exhibits designed and built off-site by contractors, and retain only minimal on-site “touch-up” workshops. The latter is proposed for VKBPM.

Assumption: It is assumed that VKBPM will require museum-quality facilities for receiving and installing exhibits (shared with Collection Support), but will not build its own exhibits, and will carry out only limited repainting and touch-up work associated with installation and deinstallation activities on-site.

Recommendation: It is recommended that VKBPM should have full exhibition receiving facilities (which can be shared with Collections), including a covered loading dock and receiving facilities for packing and unpacking, condition reporting, storage of exhibits and crates, and a freight elevator from ground level to all gallery levels. VKBPM does not require a full suite of exhibition production workshops, but a modest design studio, graphics shop, and touch-up shop facilities staffed by one full-time Preparator will be needed.

3.8 Administration and Staff Amenities

Administrative space including offices, reception and waiting room, photocopy rooms etc. take up only a small proportion of museum space but are essential to effective functioning. Good workspace affects not only staff morale, but the image of the Museum in the eyes of those who do business with the Museum; it reflects the Museum’s professionalism and prospects for success.

Both staff and volunteers also need adequate staff amenity space for preparation for the beginning or end of the work day or shift such as ability to shower and change, storage of personal belongings, and space for breaks and lunches. Municipal Codes may now demand that the Museum like any job site or public building have an industrial first aid room that can support Emergency Response Teams.

Assumption: It is assumed that VKBPM will continue to refine staffing needs for the new Museum and this will impact administrative space requirements, and staff amenities required for staff convenience and work effectiveness. It will be important to determine to what extent staff facilities in the Museum will support Park-wide activities such as interpretation and groundskeeping, and whether administration offices are maintained at other Park locations, as is currently being considered.

Recommendation: It is recommended that VKBPM include a full suite of administrative space including offices, project workrooms, file and supply storage and reception areas. Staff and volunteer amenities such as break room, kitchenette, staff washrooms, changing rooms and lockers, and industrial first aid room may need to serve Park staff as well as Museum staff. For the purposes of this Facility Strategy, the current Staffing Plan has been used as a basis for estimating office and amenity requirements.

3.9 Operations

As with any facility catering to the public, with multiple functions including food and retail services alongside museum galleries and collections areas, museums require a full complement of operational support space. Operations space includes housekeeping, maintenance and groundskeeping, security and building systems, AV, Program, Food Services and Retail support (discussed above), and garbage removal. Each of these services requires its own specialized space, which may be small in size but is absolutely essential to operations. Museums require completely separated circulation routes and spaces for collections and exhibitions on the one hand, and food service, garbage removal, mechanical services, and general deliveries on the other. This means two separate loading docks, elevators, and circulation corridors.

Assumption: It is assumed that VKBPM will operate with a full range of operational service requirements, including janitorial and maintenance, garbage removal, security and building systems, telecommunications and AV support, scaled to the level of VKBPM activities. Shared operations space with the Park should be considered as planning progresses. In particular, groundskeeping staff and equipment storage is assumed to be outside the Museum building.

Recommendation: It is recommended that VKBPM should continue to work towards integrating overall building services with the Park, while still allowing for museum professional standards of security control, loading access, housekeeping, and environmental controls. A separate Staff/Service elevator from the Ground Plane to all building levels will be needed to service administrative and operational areas, and mechanical rooms located above grade. Separate Operations Loading Dock and Shipping/Receiving areas should be provided.

4. Space Requirements

4.1 Space Analysis Tools

4.1.1 Zoning

This Chapter includes the Space Program Table, which outlines and describes the required spaces for this facility. The spaces are organized in zones, and are defined according to whether the space accommodates collections or not, and whether the space normally is open to the public, or not. These two factors are decisive in determining cost and engineering considerations. Although the VKB Park Museum will not have a permanent collection, this zoning is relevant because the exhibition galleries must be able to provide appropriate conditions for objects borrowed from collections elsewhere.

- **Zone A: Public Non-Collection Zone:** requires high levels of finish to meet public expectations
- **Zone B: Public Collection Zone:** requires museum-standard environmental controls in order to be able to borrow and display design objects from collections elsewhere, as well as the high levels of finish for the public, and is therefore the most expensive space to renovate
- **Zone C: Non-Public Collection Zone:** requires museum-standard environmental controls, but not the public levels of finish
- **Zone D: Non-Public Non-Collection Zone:** requires neither the public levels of finish nor the museum standard of environmental controls.

Zones	Public	Non-Public
Non-Collections	A. Public Non-Collections	D. Non-Public Non-Collections
Collections	B. Public Collections	C. Non-Public Collections

Since outdoor space is important at VKBPM, we have added a fifth zone to accommodate it:

- **Zone O: Outdoor Areas:** provides a preliminary listing of outdoor areas that may need to be considered in conjunction with the Museum space.

This zoned space planning forms the foundation for this Facility Strategy.

Zone A
Public Non-Collections
 Visitor Services and Amenities, Public Program Space

Public Non-Collection spaces include the lobbies, public retail and food services, washrooms, meeting and events space, performance space, and a range of education facilities. Both indoor and outdoor spaces require unobtrusive and flexible security systems to accommodate the variable hours that these spaces are open to the public and ensure the safety of the building as a whole and its occupants, including visitors, staff and performers, and collections.

This zone is typically the visitor's first experience of the building, and the public spaces help to orient the visitors to their performance, café, education and exhibition activities. In this zone visitors are present, but normally exhibitions are not. Lobby, shop, café and restrooms are the kind of spaces in this zone. Because it is open to the public, this zone requires a high level of finish on all surfaces – however, since it does not normally hold collections-related exhibition elements, environmental controls do not need to be to museum standards. However, areas that are assembly spaces – such as the multi-purpose function and event spaces and education rooms - will need specialized environmental conditions with technical requirements for AV presentation, data and power, plumbing, etc.

Typical **Zone A Functional Areas** include:

- Lobby/Visitor Amenities
- Meetings/Hospitality
- Education Areas
- Food Services
- Retail

Zone B
Public Collections
 Including Permanent and Temporary Exhibition Galleries

This Zone includes all designated gallery spaces, including both permanent collection and temporary exhibition galleries. This is the zone where visitors encounter the collections, as well as any artifacts or specimens borrowed from other organizations or institutions. This is the most costly part of the building, since this zone requires both high levels of finish to meet public expectations, and environmental controls and security for collections-related exhibition elements.

These galleries need good floor and ceiling loading, nailable permanent walls plus movable walls, power/communications grids and state-of-the-art lighting with no (or very tightly controlled and filtered) natural light. Finishes may vary from high quality art gallery surfaces to “black box” or neutral backgrounds. These spaces require high levels of environmental control for the care of the collections and the comfort of the visitor, and technical fire and security systems for the protection of the collections (which will also be supported by human security).

Typical **Zone B Functional Areas** include:

- Permanent Exhibition Galleries (including Hands-on areas)
- Temporary Exhibition Galleries

Zone C

Non-Public Collections

Including Exhibition Storage, Handling and Management Areas
(Very Limited or No Public Access)

The space in this Zone includes the essential “behind the scenes” requirements for exhibition handling and security, including shipping and receiving, temporary exhibition storage, exhibition equipment storage, and exhibition management workrooms. Collection objects on loan may be stored or worked on in this zone, but the public is not normally present. All the support areas for the temporary exhibition program – from the shipping-receiving area inward – are part of this zone.

Environmental controls and security need be to museum standards for permanent collections and borrowed collection-related exhibition elements, but the level of finish can be to a functional level only, and need not meet public expectations. Doorway, corridor and room size, ceiling height and floor loading are demanding, but finishes need only be adequate for staff and for protection of collections.

The **Zone C Functional Areas** would normally include:

- Exhibition Storage
- Registration/Exhibitions Management
- Exhibit Care and Preparation
- Exhibit Handling

Zone D

Non-Public Non-Collections

Including Administration, Operations, and Support Space
(Restricted Public Access and No Exhibitions Present)

This Zone describes all staff and volunteer workspaces including: offices, communication centers, staff lounge and meeting rooms, restaurant/catering kitchen, storage areas for programs, shop stock and special events storage, and security and maintenance areas. Support areas in this Zone are often located adjacent to the spaces they serve in other Zones: for example, the retail office and stock storage space may be physically located next to the shop.

This zone is broken down into two further sub-sections: Zone D1 Administrative Areas such as offices, administrative support and meeting rooms, and staff facilities, and Zone D2 representing other support areas, non-exhibition storage, building systems and maintenance areas, and security.

Zone D is frequently the lowest cost part of the building, since it requires neither a high level of environmental controls and security, nor the level of finish necessary to meet public expectations.

The **Zone D Functional Areas** include:

- Offices
- Meeting Space
- Staff Amenities (including staff kitchens and washrooms)
- Non-Exhibition Storage
- Workrooms/Control Rooms
- Food Services Support
- Retail Support
- Protective Services/Delivery/Trash including non-exhibition Loading Dock and Staff Entrance
- Theatre/AV Support

4.1.2 Grossing Factor

Three types of spaces cannot be projected as part of net square feet at this stage of planning, and so are accommodated by multiplying net sq. ft. by a grossing factor. They are:

- **Vertical and horizontal circulation:** stairwells, elevators and corridors that depend on the architectural design, but will account for an additional 10-15% of space.
- **Thickness of walls:** the precise extent of these depends on architectural design, but accounts for approximately 10% additional space that must be paid for.
- **Mechanical/electrical space:** The size, location and technical requirements for the mechanical and electrical spaces will be identified by the architectural and engineering team during the design process, in phase C of the project. This will include identifying and sizing distribution systems, ducting and shafts, return and supply air, and intake and exhaust systems, the chillers, boilers and other technical equipment spaces. Functional requirements for these are provided in the Building Systems and Standards later in this chapter, but the space allocations will account for another 10-15% of space, depending on design.

A grossing allocation has therefore been made in the summary at the end of the four-zone space program that follows, projecting a total 40% greater than the net sq. ft. in Zones A-D to accommodate these three grossing factors.

Zoning analysis is a valuable tool because cost per square foot varies directly for the different zones. For instance, Zone A and Zone B will often have a higher (and more costly) level of architectural finish, because these are the public spaces. Alternatively, Zone B and Zone C require climate control in keeping with the sensitivity of the collection-related exhibition elements.

The Zoning Analysis, which can help in highlighting areas where shifts or reductions may be desirable, allows comparison with a normative breakdown of space for exhibiting institutions. It has been found that most museums and galleries have approximately 40% of their space invested in gallery or interpretive space (Zone B). Approximately 20% of normative space is visitor space (Zone A), 20% exhibition support (Zone C), and 20% Administrative and Operations (Zone D). The summary at the end of the following space program shows that VKBPM is close to these norms, except that its non-public collection zone C is significantly lower than the norm due to the decision to limit collecting primarily to display items only, in order not to duplicate other institutions collecting in these areas.

4.2 Space Program

Below is a summary of the program spaces for the VKB Park Museum building. The following pages contain a detailed Space Program that identifies space requirements, summarizes totals for each zone, and adds the 40% grossing factor to indicate the need for a Museum building of 33,656 gross sq. ft.

TOTAL SPACE SUMMARY	Recommended Program NSF	% of Total Program
Zone A	7,725	22%
Zone B	14,600	41%
Zone C	4,850	13%
Zone D	8,755	24%
Total NSF	35,930	100%
Total Gross Net Square Feet	14,372	
Grossing Factor as a %	0.40	
Total Gross Square Feet	50,302	

VIRGINIA KEY BEACH PARK MUSEUM FINAL SPACE PROGRAM

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE O	Outdoor Space					
O1.1	Event Lawn			Historic location		
O1.2	Dance Pavilion			Historic location		
O1.3	Carroussel			Historic location		
O1.4	Outdoor Exhibits			Location TBD	Extension of indoor interpretation to the outdoors	Plinths, panels, power and lighting, walkways etc TBD
O1.5	Historic Garden			Museum	Extension of indoor interpretation to the outdoors	Specialized garden design to blend with the architecture
O1.6	Outdoor vending/ Concessions			Location TBD		Technical requirments TBD
O1.7	Parking			Museum	Minimum 450 cars	Hard surface, outdoor lighting, sun/rain shelter, signage
O1.8	Handicapped Parking			Museum	Requirment TBD	Safe loading/unloading is a priority. Covered waiting area with benches. Hard surface, outdoor lighting, signage.
O1.9	School Bus Drop-off/ Parking			Dropoff close to the Main Entrance, bus parking may be at a distance	Parking for up to 12 buses (flexible use of up to half of this space for general parking?)	Safe loading/unloading is a priority. Covered waiting area with benches. Hard surface, outdoor lighting, signage.
O1.10	Main Museum Entrance Car Drop-off			Museum Main Entrance	Up to 4 cars at one time, with handicapped accessibility for at least 2 cars	Drive-through for 4 cars at one time, with ADA pedestrian access to covered waiting area from the main entrance; benches, hard surface, outdoor lighting, signage.
O1.11	Outdoor Amphitheater			Event Lawn		Technical requirements TBD
O1.12	Outdoor or Rooftop Event Terrace			Interconnecting with A1.12, the Reception/Rentals Space; Kitchens; Washrooms	3000-4000 sf of partially covered outdoor event space with outdoor cooking and dining capacity, portable dance floor and stage, etc.	Power supply for outdoor cooking, lighting, Audio systems, etc. Water supply for cooking and cleanup.
	Sub-Total	0				

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE A	Public Non-Collection Space					
A1.1	Vestibule	100	90	Museum main entrance	Allows for 1 public entrance @ 90 sf	Doors must be at least 10 ft apart so first set can close before second set open
A1.2	Tour Station/ Audiotour Rental	25	0	Included in A1.9 Lobby; Ticketing/Information Counter	Rental point for audio guides, starting point for guided tours; Included in A1.9 Lobby	Storage, charging station, rental counter, in lobby space
A1.3	Ticketing/Information Counter	50	0	Included in A1.9 Lobby; visible on entry	Admissions/info counter seating up to 4 staff/ volunteers; Included in A1.9 Lobby	Counter with computerized ticket sales, info, brochures etc., security screens
A1.4	Stroller/wheelchair storage	50	25	Main Lobby/Orientation	Closed storage for courtesy items	Open floor space
A1.5	Public Washrooms, Men's & Women's	800	720	Main Lobby and public areas on each floor; Restaurant	On each floor with public access, each with one handicapped stall	Standard washroom equipment, capacity to Code; to include ADA-compliant space and baby-changing station
A1.6	Handicapped/ Family Washroom	100	0	Included in A1.5 Public Washrooms	Handicapped washroom with both child and adult care capability; included in A1.5 Public Washrooms	Handicapped washroom equipment and child and adult changing facilities to Code
A1.7	Public Lockers	100	0	Included in A1.9 Lobby	Self-serve coin operated lockers in non-ticketed area. Included in A1.9 Lobby. Mobile coat racks	Coin-operated lockers; coat racks
A1.8	First Aid/Sickroom	75	45	Main Lobby	Rest and first-aid space for visitors also used by ER teams in emergency	Counter w/ sink, supply cabinets, cot
A1.9	Main Lobby/School Orientation	2,000	1,350	Freedom Theater; Activity Room; Reception/Rentals space; through access to the Galleries; access to Washrooms, First Aid, Backpack Storage	Combined assembly and ticketing space of 1350 sf	Electronic display boards or video monitors or computerized information stations TBD; coin lockers & coat racks; audio tour rental
A1.11	Board/Conference Room	600	450	Executive Offices, Reception	Space available for staff and Board meetings and rentals, with flexible conference room setup and excellent presentation facilities	Network connectivity, presentation facilities, blackout capability. Also for staff meetings.

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE A Public Non-Collection Space						
A1.12	Reception/Rental Space	1,000	900	Restaurant Kitchen, Catering Setup, Washrooms	Multipurpose space for indoor events, supplemented by interconnecting outdoor (rooftop or terrace) space O1.12 for larger events accommodating up to 300 people when this partially covered terrace of 3-4,000 sq. ft. is in use.	900 nsf @ 10 nsf/person reception format = 90 person capacity 900 nsf @ 15 nsf/person lecture format = 60 person capacity 900 nsf @ 20 nsf/person dining format = 45 person capacity
A1.14	Activity Room	1,000	900	Main Lobby/Orientation; Resource Center	Can be subdivided into 2 areas for meetings; normally able to accommodate 1 class of 30 children, or Artist in Residence use	Sturdy washable surfaces, pinnable surfaces, low sinks, built-in storage. Includes Artist-in-Residence Studio
A1.16	Backpack Storage	75	45	Main Lobby/ Orientation for easy access on arrival, lunchtime and departure	Lockable bin storage to accommodate up to 30 school children's backpacks etc in marked, lockable bins or rolling carts.	Rolling bins or other storage system for children's coats, backpacks, lunches
A1.18	Restaurant	1,000	900	Reception/Rental space; Rooftop/Outdoor Terrace; Restaurant Kitchen; Catering setup; Washrooms	Fine Dining Restaurant with about 12 tables (12 x 4 = 48 covers) indoors. It is suggested that flexible Restaurant/ Rental space should be considered. Outdoor seating on the rooftop terrace O1.12 will increase capacity. Both rental and restaurant space to be supported by shared Kitchen/Catering space D3.13.	900 nsf @ 20 nsf/person dining format = 45 person capacity 900 nsf @ 25 nsf/person fine dining format = 36 person capacity Both indoor and outdoor cooking facilities TBD. Power, water supply, garbage removal required
A1.19	Museum Shop	750	675	Main Lobby. Visible on entry and exiting	Main retail sales space accessible from Main Lobby. Includes A1.17 coffee kiosk or service counter.	Fixed sales points and display fixtures TBD. See Zone D for D3.15 Retail Stockroom. Includes coffee kiosk
A1.20	Public Elevator	0	0	Main Lobby. Space and cost included in grossing factor.	Public passenger elevators To be confirmed	
Total Zone A		7,725	6,100			

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE B	Public Collection Space					
B1.1	Freedom Theater	1,500	900	Main Lobby, Galleries, Projection Booth.	New state-of-the-art Multimedia lecture/film facility with small-scale performance capability, with up to 60 seats. A programmed multimedia presentation of 10 minute length would be shown as a daily feature, with the Theater being used for films, lectures and events late afternoon/evenings.	Fixed raked seating, fixed stage, projection booth, large format screen, surround sound, specialized presentation technology TBD. Network connectivity.
B1.2	Permanent Exhibitions	8,000	4,500	Main Lobby	Exhibit components include social cultural, Hands-on Natural History Lab, Cove Storyzone, Discovery Box learning area, information mini-theater/video	Flexible black box gallery space with 18-20 ft clear ceiling height. Network connectivity. Hands-on Lab requires lab benches and stools, demo area, microscope & magnifiers, storage for materials and specimens.
B1.4	Temporary Exhibition Gallery	3,000	2,700	Main Lobby, Permanent Exhibitions	Flexible changing exhibition gallery space that can potentially double as a community gallery/event space.	Flexible black box gallery space with 14-16 ft clear ceiling height. Environmental controls to ASHRAE Class AA standards for loan exhibitions. Network connectivity.
B1.6	Resource Centre	1,500	900	Activity Room, Galleries	Information resource area with varied information sources including books, periodicals, on-line access, video viewing, teacher resource area with shelving for CD's, videos, hands-on kits, curriculum materials.	Reference/help counter, printer/scanner facilities, reading area, reference and resources stacks, up to 6 on-line computer stations. Network connectivity. Includes Teachers' Resource
B1.7	Oral History Lab	300	270	Resource Center	Meeting/interview room used for small staff and community meetings as well as for recording oral histories with individuals or small groups (ie families, Church groups, etc.)	Soft lounge seat grouping plus meeting table and chairs for up to 8. Built-in wall cabinets to hold recording equipment, video monitor, white board, etc. Network connectivity.
Total Zone B		14,300	9,270			

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE C Non-Public Collection Space						
C1.1	Collection Storage, Objects	500	315	Collections Storage, Collections Workroom	General object storage. May be compacted in future. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft	Climate control. Network connectivity. Open shelving or cabinets for small items.
C1.3	Collection Storage, Paintings	500	180	Collections Storage, Collections Workroom	Framed oils, acrylics, watercolours, etc. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft; 180 sq. ft. for painting racks	Climate control. Network connectivity. Pull-out painting racks, preferably double-loaded on each side of central access area.
C1.4	Collection Storage, Textiles	500	180	Collections Storage, Collections Workroom	Costume and textile collection TBD - clean storage can be used also for archival collections. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft; 180 sq. ft for textiles or archives	Climate control. Network connectivity. Rolls for larger items, drawers for smaller, folded items; padded hangers for costume
C1.5	Archival Storage, Paper, Photographs/Film	250	180	Collections Storage, Collections Workroom	Clean storage with limited refrigerator storage for film. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft; part of C1.4 may also be archive	Climate control. Network connectivity. Open shelving, print cabinets. Refrigerator storage as needed for film, photo materials.
C1.6	Collection Storage, Natural History	250	180	Separate room adjacent to Collections Workroom	Clean storage with limited refrigerator storage for specimens	Climate control. Network connectivity. Open shelving or specimen cabinets.
C1.7	Education Collection Storage	250	135	Education Prep	Clean storage with limited refrigerator storage for specimens	Climate control. Network connectivity. Open shelving or specimen cabinets.
Subtotal Collections Storage:		2,250	1,170			

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE C	Non-Public Collection Space					
C1.9	Registration/ Photo Files	200	135	Collection Storage, Collections Workroom	Registration Record area for hard copy and computerized collections record files and file access.	Network connectivity.
C1.11	Collections Workroom/ Photo Studio / Research	600	450	Collection Storage, Collection Supplies, Clean Installation Shop	Space for collections processing, including accessioning, condition reporting, cataloguing, photography, digitization, numbering, etc.	Climate control. Network connectivity. Includes curatorial research room.
C1.12	Collections Supplies	100	45	Collections Workroom, Collection Storage, Transit Storage/Packing	Clean collections supplies storage.	
C1.14	Clean Installation Shop	400	270	Collections Workroom, Collection Storage, Transit Storage/Packing	Exhibit layout and staging with artifacts present; workspace and computer workstation shared by 2 preparators	Climate control. Network connectivity. Sinks. Allowance for 2 preparators.
C1.15	Collections Loading Dock	0	0	Collections Shipping/Receiving, Moving Equipment, Security Booth	Minimum 1400 sf covered exterior space, minimum 14 ft height under cover, to handle one tractor-trailer loading or unloading under cover; depending on approach and level change, more may be required.	Hydraulic lift, overhead doors, hoist.
C1.16	Collections Shipping/Receiving/Packing	400	400	Collections Loading Dock, Transit Storage/Packing, Moving Equipment, Security Booth	Receiving area forming buffer to outside air, supervised by Security, may also be used to pack and acclimatize shipments	Climate control, overhead doors.
C1.17	Transit Storage	400	360	Collections Shipping/Receiving, Moving Equipment, Crate Storage	Storage for incoming/ outgoing exhibits (1 tractor-trailer load)	Climate control.
C1.18	Isolation/Fumigation	100	45	Collections Shipping/Receiving, Transit Storage/ Packing	Small area for segregated storage and inert gas treatment	Climate control.
C1.19	Crate Storage	400	300	Collections Shipping/Receiving, Transit Storage/ Packing	Separate areas for VKBM and Lender's crates	Climate control.
C1.20	Collections Freight Elevator	0	0	Collections Shipping/Receiving, Transit Storage/ Packing	335 sf at each building level included in grossing; cost also in grossing	Climate control.
C1.21	Collections Staging/Elevator Lobbies	0	0	Through access to Galleries, Collection Storage, Shipping/ Receiving	Minimum 200 sf at each Art Freight Elevator/ gallery service entry included in grossing circulation areas	Climate control.
Total Zone C		4,850	3,175			

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE D	Non-Public Non-Collection Space					
OFFICE AREAS						
D1.1	Executive Director	200	135	Centralized administrative areas, Boardroom	Private Office	Network connectivity.
D1.2	Assistant to the Executive Director	100	60	Centralized administrative areas, Boardroom	Area in front of Director's office	Network connectivity.
D1.3	Director of Collections and Interpretation	120	75	Centralized administrative areas or Collections areas	Private Office	Network connectivity.
D1.4	Collections and Interpretation Specialist – Cultural & Social History	100	55	Centralized administrative areas or Collections areas	Combined with D1.5 to make one 110 sq ft office	Network connectivity.
D1.5	Collections and Interpretation Specialist - Ecology/Natural History	100	55	Centralized administrative areas or Collections areas	Combined with D1.4 to make one 110 sq ft office	Network connectivity.
D1.6	Information Technology/ Media/ Projection Specialist	100	60	Centralized administrative area; D3-8 Projection Booth	In Landscape Office	Network connectivity.
D1.7	Registrar	100	75	Centralized administrative areas or Collections areas	Private Office	Network connectivity.
D1.8	Exhibition Manager	100	60	Centralized administrative areas or Collections areas	In Landscape Office	Network connectivity.
D1.10	Director of Education and Public Programs	120	75	Centralized administrative areas	Private Office	Network connectivity.
D1.11	Education Program Coordinators - School Groups (2)	120	80	Centralized administrative areas	Combine D1.11, D1.12 and D1.13 into one 240 sq. ft. office	Network connectivity.

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE D	Non-Public Non-Collection Space					
OFFICE AREAS						
D1.12	Education Program Coordinator – Adult and Multi-Cultural Programs (2)	100	80	Centralized administrative areas	Combine D1.11, D1.12 and D1.13 into one 240 sq. ft. office	Network connectivity.
D1.13	Education Program Coordinator/Park Naturalist – Ecology and Natural History Programs (2)	100	80	Centralized administrative areas	Combine D1.11, D1.12 and D1.13 into one 240 sq. ft. office	Network connectivity.
D1.14	Booking Clerk and Education Clerical Support	60	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.15	Visitor Services Manager	100	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.16	Special Events/Rentals (2)	120	80	Centralized administrative areas	Shared Office	Network connectivity.
D1.17	Volunteer Coordinator	100	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.18	Retail Shop Manager	100	60	Gift Shop sales floor, no public access	Private Office	Network connectivity.
D1.20	Food Service Coordinator: contracting food service as required	100	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.25	Chief of Security (contracting other security staff)	100	60	Centralized administrative areas	Private Office	Network connectivity.
D1.26	Finance Coordinator	120	75	Centralized administrative areas	Private Office	Network connectivity.

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE D	Non-Public Non-Collection Space					
OFFICE AREAS						
D1.27	Human Relations Officer	100	75	Centralized administrative areas	Private Office	Network connectivity.
D1.28	Administrative Assistant	60	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.29	Receptionist	60	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.30	Marketing and Media Director	120	75	Centralized administrative areas	Private Office	Network connectivity.
D1.31	Membership Secretary	60	55	Centralized administrative areas	In Landscape Office	Network connectivity.
D1.32	Development Coordinator	100	60	Centralized administrative areas	Private Office	Network connectivity.
Subtotal Offices:		2,660	1,760			
OFFICE SUPPORT AREAS						
D1.33	Reception/Waiting	300	180	Centralized with offices & A1.11	Serves Offices & Boardroom A1.11	Network connectivity.
D1.36	IT Server Room	100	90	Centralized with offices	Computer Server Room and storage	Network connectivity.
D1.37	Mailroom/ Photocopy/ Document production	175	135	Centralized with offices	Support for admin activities	Network connectivity, printers, scanners, copiers, postage meter, work counters with paper storage below.
D1.38	Office Supplies	50	45	Combine D1.38, D1.39, D1.40	Lockable storage for office supplies	
D1.39	Central Files	75	55	Combine D1.38, D1.39, D1.40 in one 145 sq. ft. space	Lockable storage for admin, HR and Finance files	File Cabinets
D1.40	Curatorial Files	50	45	Combine D1.38, D1.39, D1.40 in one 145 sq. ft. space OR add to Registration/Photo Files, depending on office location	Lockable storage for exhibit and collection files	File Cabinets
Subtotal Office Support:		750	550			

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE D	Non-Public Non-Collection Space					
OFFICE WORKERS' AREAS						
D2.4	Board/Exec. Director Pantry/ Storage	75	50	Executive Offices, Boardroom, Reception		Plumbing, stove and fridge, microwave, etc.
D2.6	Staff First Aid Emergency	100	45	Workshops, Loading Docks, Staff Entrance	Industrial first aid room to Code	Plumbing, eyewash station
D2.7	Staff Washrooms/ Changing/Lockers (Male & Female)	200	135	Staff Entrance	Includes toilets, showers, lockers, changing area; 1 male, 1 female	Plumbing, access to Code, full-size lockers
D2.8	Volunteer Room/Day Lockers	100	50	Staff Entrance	Locker Room for site and museum volunteers	Coat closet, token-return lockers, mirror, etc.
D2.9	Staff/Volunteer Lounge	300	180	Offices	Lunchroom for staff and volunteers	Comfortable lounge seating and table
D2.10	Staff Kitchenette	75	45	Staff Lounge	Coffee/tea preparation, warming facilities, refrigeration	Plumbing, stove and fridge, microwave, etc.
D2.11	Staff/Volunteer Washrooms (Male & Female)	150	135	On each floor level with offices or workspace	Includes toilets, handwash, vanity; 75 F, 60 M	Plumbing, access to Code
	Subtotal Office Workers' Areas:	1,000	640			

WORKSHOPS & STORAGE						
D3.1	General Storage	300	180	Maintenance areas	Storage for maintenance supplies and equipment	Open floor area
D3.2	Resource Center Book & Periodicals Storage	75	45	Resource Center B1.6, Registration and Collections Workroom	Resource Center support space	Standard library racking
D3.3	Resource Center Workroom	150	125	Resource Center B1.6, Registration and Collections Workroom	Resource Center support space	worktables, built-in counter, computer workstation

Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE D	Non-Public Non-Collection Space					
WORKSHOPS & STORAGE						
D3.4	Website/Digitizing Lab	150	125	Resource Center B1.6, Registration and Collections	Resource Center support space	Digitizing workstation, multimedia suite TBD
D3.5	AV Storage	100	90	Projection Booth D3.8	Storage for AV carts, portable equipment for events, etc.	Open floor area, limited racking
D3.7	Dressing Room	250	135	Freedom Theater B1.1	Performers and speakers dressing room	Clothes racks, makeup bench, wall mirror, folding screen; serves as Green Room
D3.8	Projection/Audio Booth	100	70	Freedom Theater B1.1 or adjacent lobby no public access	Multimedia and 35 mm projection support for the Freedom Theater	Network connectivity. Projection requirements TBD
D3.10	Special Event Furniture Storage	200	150	Accessible to Lobby, Rental space	Storage for chairs, tables, podium, risers etc.	Open floor area
D3.11	Education Prep Room	200	135	Activity Classroom A1.14, access to galleries	Prep area for education program materials with built-in storage	Network connectivity. Utility sink. Worktables, built-in storage.
D3.12	Kitchen Food Storage	100	50	Restaurant A1.18, Kitchen D3.13	Includes cold room	Refrigeration facilities, dry goods storage, prep counter and sinks.
D3.13	Kitchen, Catering/Restaurant	250	225	Restaurant A1.18, Kitchen Food Storage D3.12	With food storage totals 275, the correct 30% of seating area (900 sq. ft.)	Restaurant equipment TBD Restaurant consultant. Dumbwaiter service TBD.
D3.14	Catering Set up Area	200	135	Restaurant A1.18, Reception/Rental space	Set up and plating area for catered events.	TBD Restaurant consultant.
D3.15	Retail Stockroom	300	180	Museum Shop	Receiving, inventory, pricing, storage & distribution for retail stock	Network connectivity.
D3.22	Lighting/Electrical Workroom	50	45	Through access to Galleries	Storage and testing for lighting components	Electrical testing board

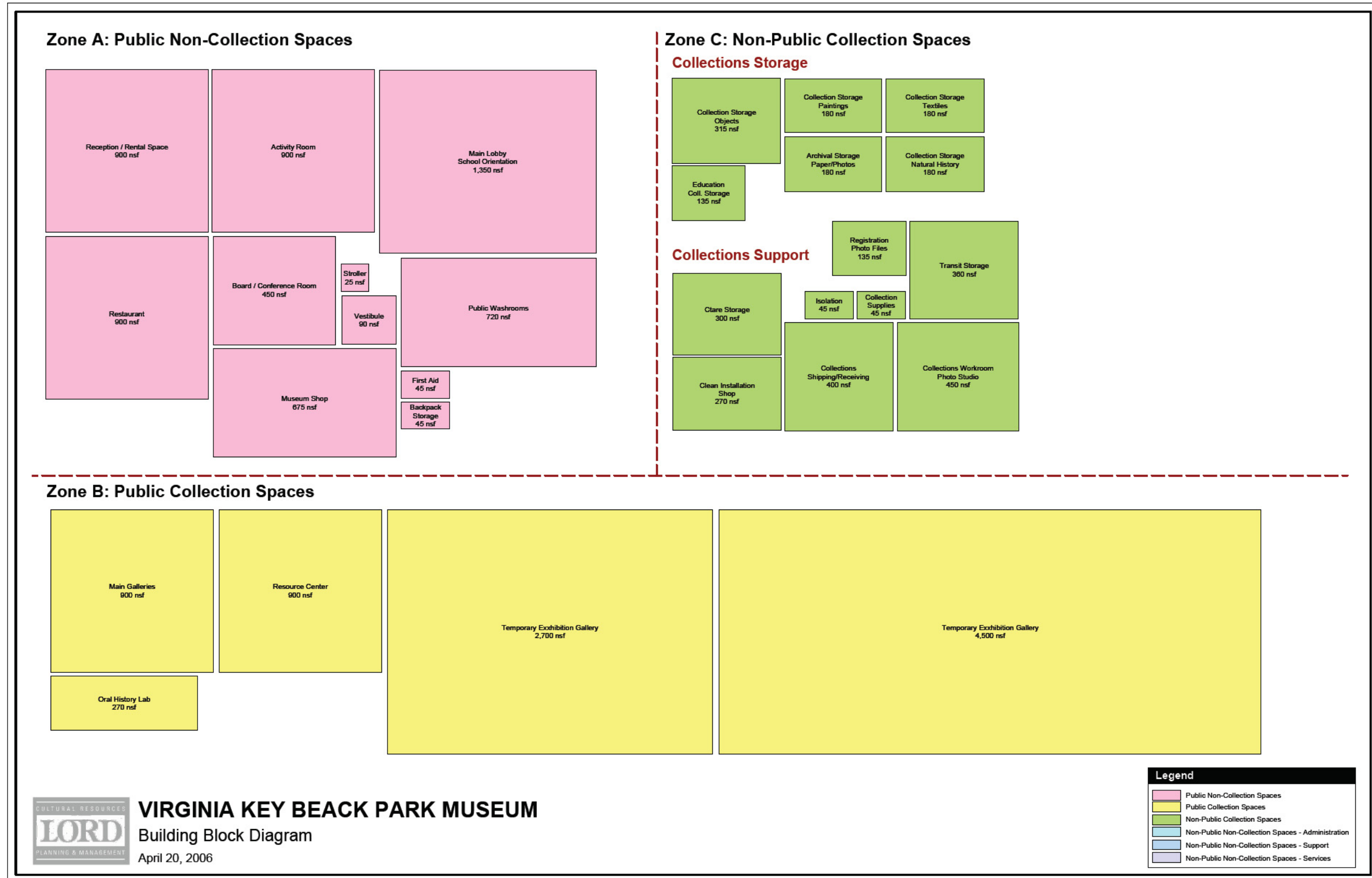
Zone O	Outdoor Space
Zone A	Public Non-Collections
Zone B	Public Collections
Zone C	Non-Public Collections
Zone D	Non-Public Non-Collections

ZONE	Space Name	April '05 Program NSF	March '06 Program NSF	Critical Adjacencies	Functional Comments	Technical Comments
ZONE D	Non-Public Non-Collection Space					
WORKSHOPS & STORAGE						
D3.24	Moving Equipment	75	50	Loading Dock	Parking for fork lift, dollies, hand trucks	Open floor area
D3.25	Exhibit Case/Prop Storage	200	180	Through access to Galleries	Storage for Exhibit furniture and props not in use.	Open floor area
D3.27	Security Control Room & toilet	100	90	Secure, away from entrances; adjacent D1.25 Security Office	Main Control Room for security systems	Network connectivity. Secure phone line; toilet within security perimeter.
D3.28	Security Booth/Package Control	50	45	Loading Dock C1.15/Staff Entrance D3.29	Enclosed control booth manned when shipments are being received	Network connectivity. Secure phone line. Key boxes.
D3.29	Staff Entrance	50	45	Ideally 1 location only, at Security Booth D3.28.	Waiting area with check-in counter to Security Booth.	Pass-through window to Security, exterior man door with panic bar
D3.30	Non-Art Shipping/Receiving	150	125	Non-Art Loading Dock D3.31, Package Control and Security D3.28	Receiving and temporary storage for deliveries, garbage removal route	Lockable storage cages, receiving station, overhead doors to Loading Dock
D3.32	Garbage Bins	0	0	Non-Art Loading Dock D3.31	Exterior, enclosed dumpster area. Accessible to garbage trucks.	Cold water hose bib for cleanup
D3.33	Facilities Maintenance Control Room	50	45	Mechanical Rooms	BMS computer system and Telecom control room; computer workstation for Facilities Manager	Network connectivity. Office for Facilities Manager
D3.34	Operations Maintenance/ Electrical Workshop	150	125	Non-Art Shipping/ Receiving D3-30, General Storage D3.1	Set up and maintenance workbench and open area	Workbench with power outlets, utility lighting, tool storage
D3.35	Janitorial - Central Storage	150	100	Non-Art Shipping/ Receiving D3-30, General Storage D3.1	Storage for floor washers, polishers, bulk housekeeping supplies	Slop sinks, floor drains, utility racking.
D3.36	Janitor's Closets	100	50	Restaurant, Washrooms, Lobby	2 x 25 sf. Janitorial carts and supplies for quick cleanup	Slop sinks, floor drains in each.
	Subtotal Workshops & Storage:	3,500	2,545			
	Total Zone D	7,910	5,495			

	Grossing Factor	March '06 Program NSF
Premium Cost for raised building		14,920
Building Grossing	10.50%	2524.2
Mechanical & Electrical	12.50%	3005
Service Areas	2.00%	480.8
Circulation	15.00%	3606
Total		24,536

TOTAL SPACE SUMMARY	Recommended Program NSF	March '06 Program NSF
Zone A	7,725	6,100
Zone B	14,300	9,270
Zone C	4,850	3,175
Zone D	7,910	5,495
Total NSF	34,785	24,040
Total Gross Net Square Feet	13,914	9,616
Grossing Factor as a %	0.40	0.40
Total Gross Square Feet	48,699	33,656

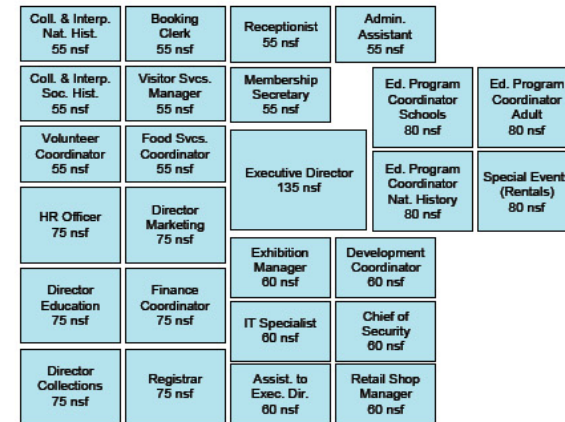
4.3 Building Block Diagrams



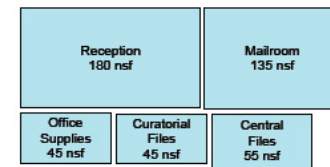
VIRGINIA KEY BEACH PARK MUSEUM
 Building Block Diagram
 April 20, 2006

Zone D1: Non-Public Non-Collection Spaces

Office Space

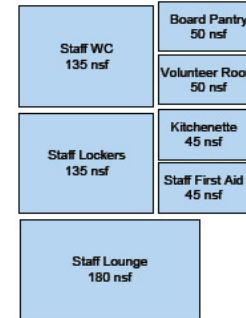


Office Support Areas



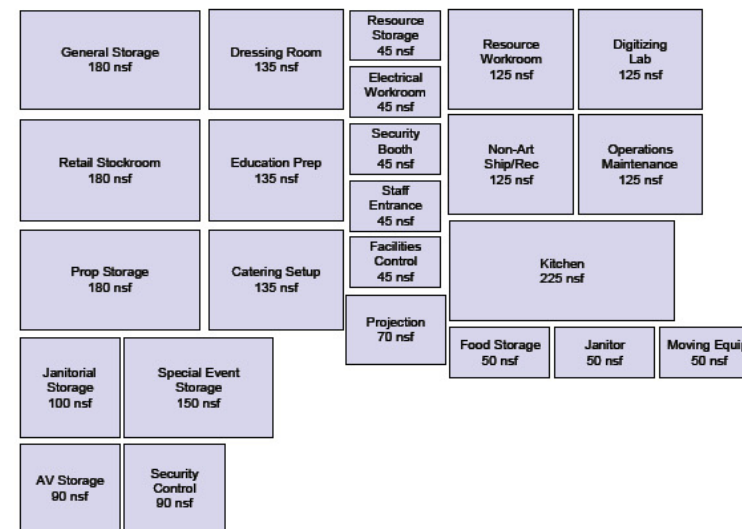
Zone D2: Non-Public Non-Collection Spaces

Office Workers' Areas

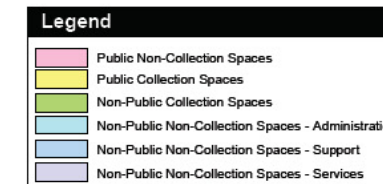


Zone D3: Non-Public Non-Collection Spaces

Workshops & Storage



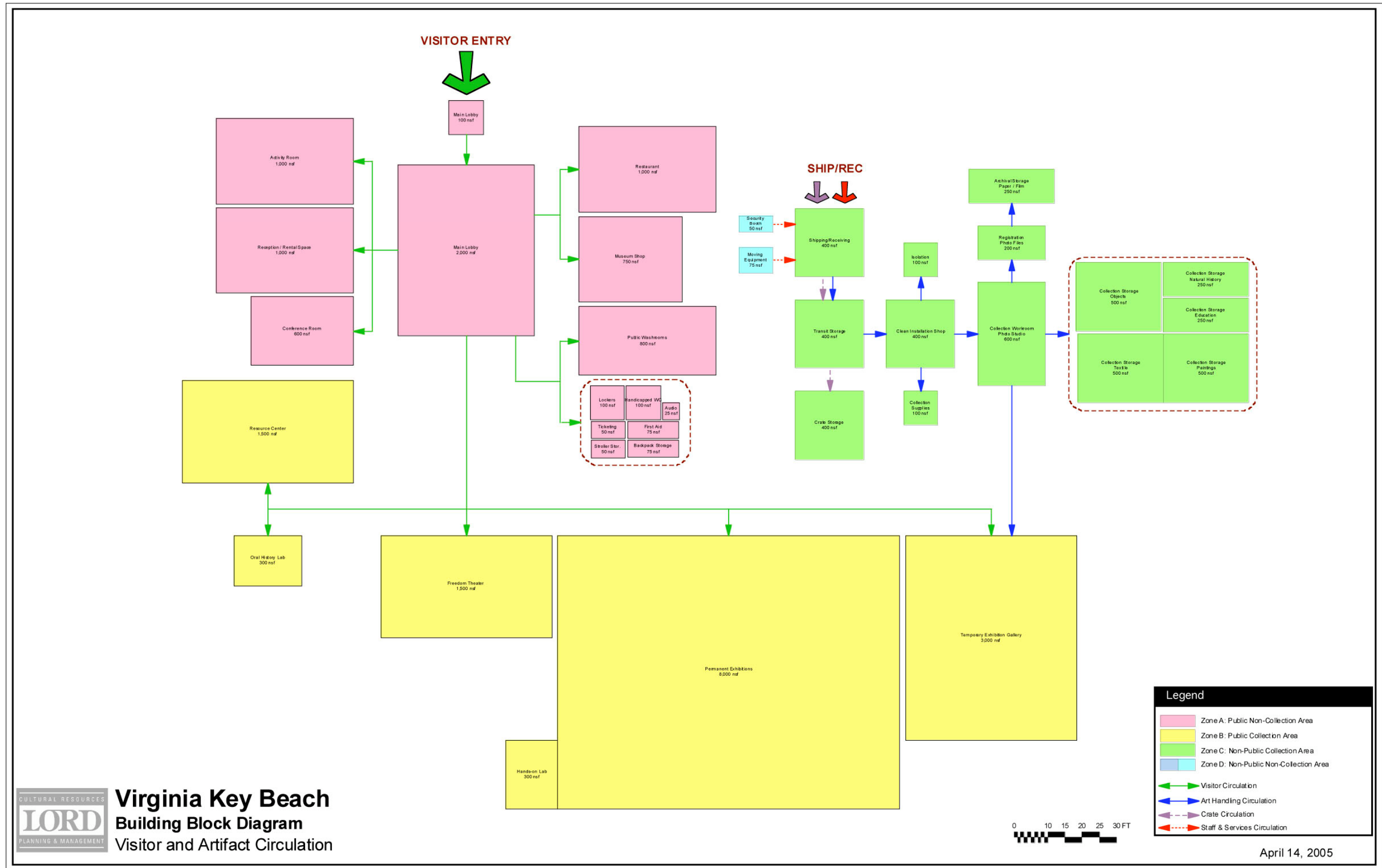
VIRGINIA KEY BEACH PARK MUSEUM
Building Block Diagram
April 20, 2006



5. Access, Adjacency and Circulation Diagrams

The following diagrams visually describe the circulation patterns and critical adjacencies of the spaces outlined in the Space Program. Although these diagrams are not representative of a building floor plan, attention must be given to these critical adjacencies for purposes of proper functionality of the areas, and adherence to the Systems and Standards (please refer to Chapter 6 of this report).

The massing diagram provided represents a suggested stacking means and proposed vertical circulation pattern for the future building. The arrangement differentiates between public zones and back-of-house areas, separated by the common vertical circulation “core” linking to grade level access. The drawing has no particular scale or orientation, as it is not meant to serve as an actual section of the building, but rather to represent the stacking of the spaces listed in the Space Program.



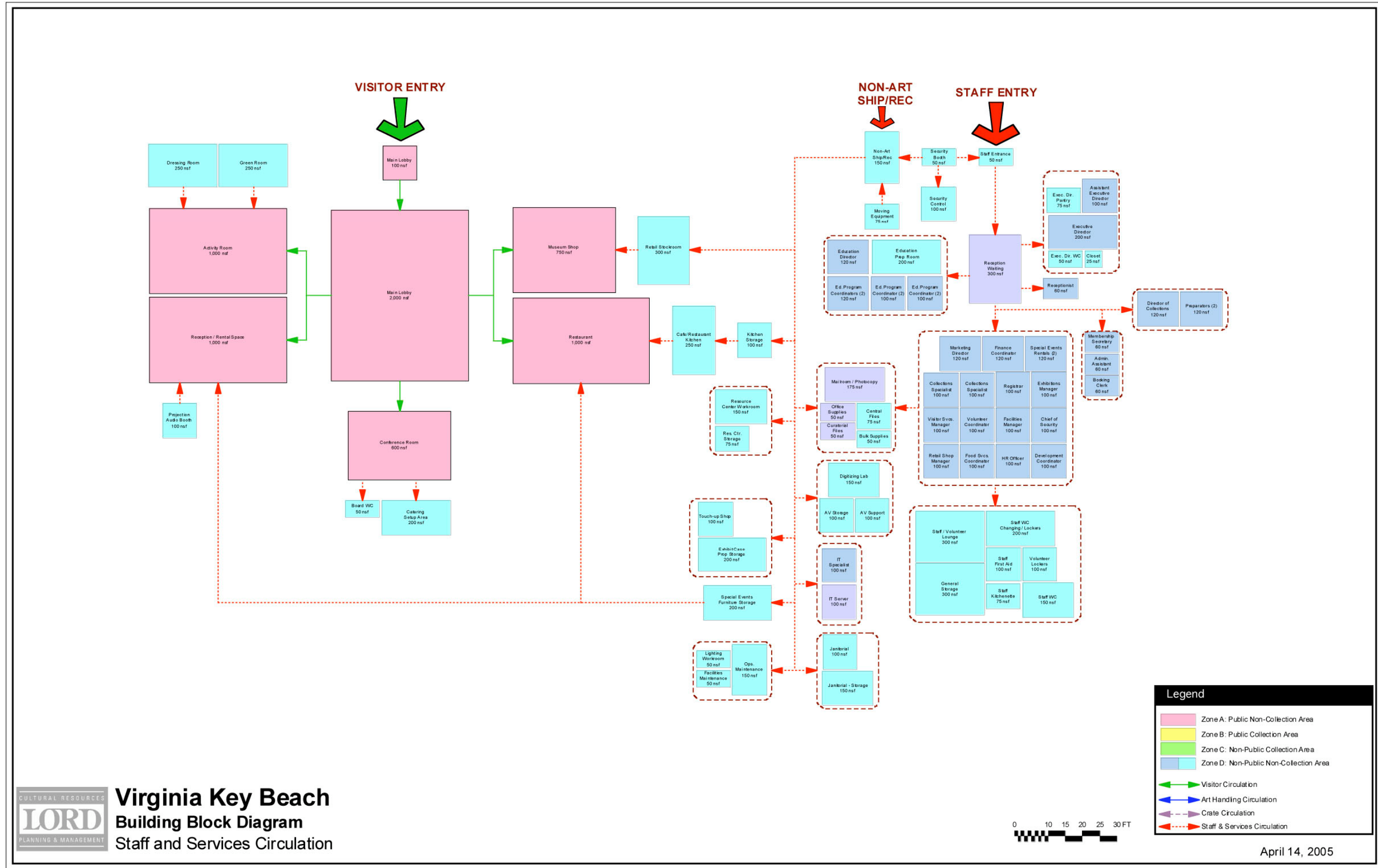
Virginia Key Beach
 Building Block Diagram
 Visitor and Artifact Circulation

Legend

- Zone A: Public Non-Collection Area
- Zone B: Public Collection Area
- Zone C: Non-Public Collection Area
- Zone D: Non-Public Non-Collection Area
- Visitor Circulation
- Art Handling Circulation
- Crate Circulation
- Staff & Services Circulation



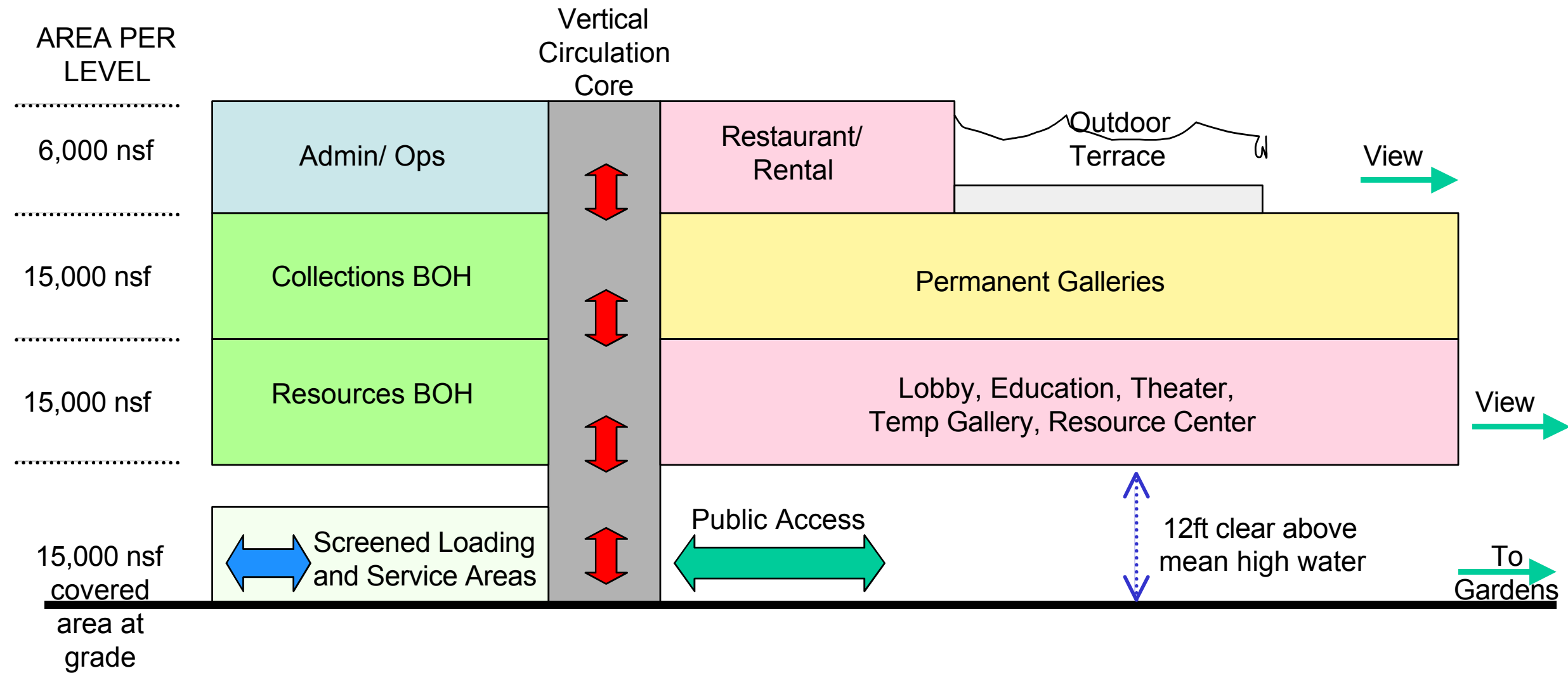
April 14, 2005



CULTURAL RESOURCES
LORD
PLANNING & MANAGEMENT

Virginia Key Beach
Building Block Diagram
Staff and Services Circulation

VKB PRELIMINARY MASSING



VERTICAL SECTION
(not to scale)

6. Building Systems and Standards

This section of the report specifies Systems and Standards or design criteria for building systems, required for all areas of the VKB Park Museum, or for particular zones as indicated. It includes a summary of environmental requirements to facilitate loans of design objects from museums or private collections, discussion of the application of standards to environmental control decisions, and considerations in developing a “green” facility, organized in the following sub-sections:

- Building Systems and Standards
- Summary of Environmental Requirements
- Making Sense of Climate Recommendations
- Considerations in Developing a “Green” Facility

The Systems and Standards are a collection of requirements to which a building may be designed. They are not the specifications to which the building will be constructed. In general, numbers presented are nominal numbers to provide guidance for what will be required, understanding that under construction conditions, measurements may vary slightly. For example, the voltage may be given as 110V, but this would also cover 115V, 120V, or even 130V. 220V covers 208V to 240V. Gypsum wallboard and plywood may be given a thickness measurement of 16mm, but this means that it is nominally 16mm, not that it is precisely 16.0mm. 16mm wallboard will have an actual thickness somewhere in the range of 15 to 17mm. The nominal 16mm designation is used to differentiate the thickness required from nominally 13mm or nominally 19mm thick materials. In this document, all measures are to be taken as nominal measures for the purposes of building planning.

The following Systems and Standards topics are arranged alphabetically for easy reference.

6.1 Systems and Standards by Topic Heading

Access:

General Principles:

- All Public Non-Collection areas should be accessible while all Collection areas are closed.
- Non-Public areas must be capable of being excluded from visitors.
- Staff access to office and work areas must be possible without opening galleries or Public areas.
- The Board Room is to be accessible by both staff and the public.

Mechanical, electrical, elevator and telecommunications rooms should be accessible by service personnel without them having to pass through any Collection spaces. No pipes containing liquids other than sprinkler piping can be run through Collection spaces, and pipes above or beside Collection spaces should be avoided if possible.

Assumption: Collection access doorways, corridors and Freight Elevators must be able to accommodate a 2D artifact maximum cube size of 1 foot wide x 10 feet long x 8 feet high, and a 3D maximum cube size of 10 feet long x 9 feet high x 6 feet wide. Larger items could be displayed under the building, since the building is required to be built on pilings, with habitable spaces elevated 12 feet above the 1.5 ft. mean high water.

The enclosure around the pilings has to be designed to allow flood waters to flow among the pilings, indicating a need for breakaway construction at that level. The requirement for breakaway construction will need to be studied to determine how to provide elevator access to ground level, both for the movement of collection objects, and the movement of people. ADA-compliant barrier-free access must be provided.

Recommendation: The minimum size of door openings through which collection objects will move shall be 6 feet wide x 9 feet high. The minimum clear height under the building should be 14'-6", so that trucks can make deliveries to the freight elevator.

Ramp gradients in Collection zones should be no more than 1:30. Ramp gradients in non-collection zones should be no more than 1:12. If a ramp were provided for public access from ground level, it would have to be at 1:12.

Acoustics:

In general, noise levels should neither be so low that visitors feel inhibited, nor so high as to be disturbing. Design noise criteria rating (NC) should be NC 25 in the spaces such as auditoriums and board rooms, NC 30 in exhibition, research, meeting rooms, conference and seminar rooms, classrooms, and executive areas, NC 35 in other public areas, offices and work areas, and NC 40 in non-public workshop areas. For amplified speech in audio-visual presentations or other presentations anywhere in the building (including a public address system throughout public areas), articulation-loss-of-consonants should not exceed 15%.

Noise Transmission from the elevators, washrooms, workshops, mechanical rooms, et cetera will require sound attenuation. Acoustic buffering and control materials may be required in spaces such as auditoriums, board rooms, meeting rooms, education rooms, galleries, et cetera. The appropriate STC (Sound Transmission Criteria) number for adjacent spaces must be determined by the architects based on adjacent occupancies.

Air Circulation:

CO₂ (carbon dioxide) sensor controlled outside air dampers in all air handling units; where necessary, the dampers are also to respond to a static pressure sensor to take account of varying exhaust loads (for example, kitchen exhaust, et cetera) so as to maintain a neutral-to-positive air pressure in the building (~0.004 in. of water).

Exhaust cupboards/hoods/arms are to be located in areas requiring fume extraction, but the exhaust fans are to be remotely mounted so that the exhaust ducts are under negative pressure within the building and noise is minimized. The use of duct silencers will be required.

Only a minimum quantity of fresh air (exceed/balance exhaust loads) is to be provided during unoccupied hours. If CO₂ sensors are not provided, then an outdoor air supply rate during occupied hours that produces 0.2 ACH based on the volume of the space may be appropriate. The minimum ventilation rate (the number of times per hour that the room air volume is circulated through an air handling unit [AHU], with one-fifth of the air volume being exhausted and replaced by outdoor air each hour) in Public Collection areas should be between 4 and 8 air changes per hour. It is unlikely that any of the VKBM spaces will require the 8 to 12 air changes per hour that are necessary in many other museums in order to be able to provide strict RH and temperature control. It may be possible to use an air change (circulation) rate of 4 to 5 air changes per hour in minimally occupied spaces such as Non-Public Collection areas. The air changes per hour rate in Non-Collection areas should be to best engineering practice.

As will be seen in the 'Summary of Environmental Conditions' section, the climate control equipment proposed to be provided for Collection spaces will be capable of attaining and maintaining conditions a range of environmental conditions, since the same environmental control equipment will need to be provided no matter what 'museum' conditions are chosen to be maintained. The conditions maintained will depend only upon the requirements programmed into the climate control computer, conditions that can be easily changed by simply altering computer set points.

Air Conditioning: Centralized humidity (RH) and temperature control systems are organized into three type zones according to room function, primarily determined by the presence or absence of collections:

1. Fresh Air/Heat Only:

Service spaces in the Non-Public Non-Collection Zone and the Public/Non-Collection Zone, such as the Restrooms, general storage areas, and equipment rooms.

2. Normal Air Conditioning (to Human Comfort levels):

Includes non-artifact corridors and passenger elevators, most Public Non-Collection Zone spaces and staff work spaces in the Non-Public Non-Collection Zone. Conditioned to normal office (human comfort 70 - 75° F) standards during Public/Staff opening hours only. Night temperature setback can be used if it does not negatively impact climate stability in collection areas or allow condensation to occur on glazed surfaces.

Climate control in this zone is to be provided by a ducted air handling system that incorporates heating, cooling, humidification utilizing cold jacket steam manifold humidifier distributors fed by a clean steam generator, possibly operating on reverse osmosis (RO) water, air filtration to > 90% efficiency according to the efficiency test portion of ASHRAE Standard 52.1 - 1992, Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter, and activated carbon gaseous pollutant filters, combined with CO₂ sensor operated fresh air dampers to control the amount of make-up air provided.

Humidity is to be provided during the heating season to maintain a minimum of 40 ± 5% RH.

The winter design temperatures of greater than 45° F for 99% of the hours from December through February and greater than 48° F for 97.5% of the winter months means freezing conditions are not experienced and therefore building deterioration due to freezing of interior humidity condensed in exterior walls or the roof should not be experienced. However, any condensation could result in the growth of mold. Condensation could occur on cooled interior surfaces if warm humid outside air is allowed to infiltrate the building during the warmer months of the year or if the building insulation and glazing are not designed to maintain the suggested winter RH level of 40% in non-collection spaces.

3. Collection Control Standard:

Includes all galleries and collection work and storage areas, all collection movement corridors and elevators, and any other "Collection" spaces. Full climate control provided by a ducted air handling system that incorporates heating, cooling, controlled dehumidification with reheat, humidification utilizing cold jacket steam manifold humidifier distributors fed by a clean steam generator, possibly operating on reverse osmosis (RO) water, air filtration to > 90% efficiency, and activated carbon gaseous pollutant filters, combined with CO2 sensor operated fresh air dampers to control the amount of make-up air provided.

The temperature set point and fluctuation shall be $72 \pm 1^\circ\text{F}$, possibly being raised to 75° during the summer, and lowered to 68° F during the winter. The temperature span is tight since this prevents people from feeling too hot or too cool as the heating/cooling equipment cycles and since it is easier to maintain stable/controlled RH conditions if the temperature is stable and not another variable in the control strategy.

Spaces that contain paper-based collections may be specified to maintain lower temperature and/or RH conditions than those listed above. It will need to be determined if it is feasible to attain and maintain 40% RH during the summer at a temperature as low as 65°F , or lower.

Most HVAC equipment in collection areas should be operated in a proportional control manner instead of following an on-off control sequence.

Standby equipment or redundancy is required to 60 - 75% capacity per piece, rather than 100% capacity redundancy per piece (for example, boilers, chillers, pumps, humidifiers, cooling towers, et cetera), for a total capacity of 120 - 150%, since smaller equipment will run more efficiently more of the time since it will more closely match the average load.

The fans are to operate 24-hours per day to provide air circulation (minimum of 4 - 8 air changes per hour) within the Collection spaces.

Return air should be taken from low level (baseboard) slots within Collection spaces, with high level supply.

Control sensors for the BMS system are to be wall mounted at artifact height within Collection areas.

The Relative Humidity (RH) set point and standard fluctuation for Collection areas is to be $50 \pm 5\%$ RH (45 - 55% hourly/daily/weekly/monthly/yearly). However, if it is determined in the future that such tight RH control is not necessary, then the BMS system can be adjusted to provide conditions of $50 \pm 10\%$ RH (40 - 60% hourly/daily/weekly/monthly/yearly). Exactly the same equipment is required, only the operating parameters of the equipment are changed. The decision to set Collection zone controls at the tighter standard does not imply additional capital costs.

Constant volume reheat type Air Handling Units (AHU's) are the type of AHU that should be used in Collection areas. The AHU's should be equipped with variable speed drives so that actual space loads can be closely matched and so that unoccupied air circulation rates can be lowered to save energy. Given the hot and humid climate of Miami, make-up air should be pre-conditioned before being distributed to the various zone AHU's to remove excess humidity, heat, and particulate and gaseous pollutants. To lower operating costs, it might be possible to put the make-up air and the exhaust air through a heat recovery wheel prior to the preconditioning AHU to pre-cool the make-up air at little cost. Given the harsh operating conditions that will be faced by the preconditioning AHU, namely the large volume of condensate that will need to be produced and the maritime (salty) air, consideration should be given to using copper fin/copper tube cooling coils. Any equipment or building materials chosen for use on this project need to be chosen for their resistance to corrosion and weathering in a harsh environment.

If at all possible, mechanical and electrical rooms containing heavy equipment should be located at the lowest level of the building. More precisely, the floor level of these rooms containing liquids should be located below the floor level of the rest of the lowest level of the building if collection spaces are present at this level. In the case of the VKBM, the building code requires the building to be constructed on pilings, with the lowest structural member to be a minimum of 12 feet above the 1.5 ft. mean high water elevation. The mechanical and electrical rooms will have to be elevated above this height, but the floor in these rooms should be lower than for surrounding rooms. The mechanical room should be designed to contain the volume of water contained within the heating and cooling systems, in case of catastrophic failure combined with the blocking of the floor drains within the mechanical room.

Air Filtration: Particulate filtration to > 90% efficiency according to the efficiency test portion of ASHRAE Standard 52.1 - 1992, *Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter* is to be provided. The air of Miami contains a fairly heavy load (step 5 of 7) of 10 to 13 $\mu\text{g}/\text{m}^3$ of fine particles of 2.5 micron diameter or smaller.

For gaseous pollutants, there is only one safe pollutant level, which is zero. However, since it is not feasible to set a level of zero, achievable levels for various pollutants are included in the "Summary of Environmental Requirements".

External air intake and exhaust grilles are to be physically separated by a distance sufficient to prevent exhaust air from the HVAC system from being re-circulated. The external air intake grilles are also to be physically separated from boiler flues, fume exhaust systems, kitchen exhausts, washroom exhausts, et cetera, to prevent fumes from being drawn into the building. Tall exhaust stacks should be utilized to ensure fumes are effectively diluted and carried away from the building. Intake and exhaust locations are to take into consideration prevailing winds and site conditions. In particular, air intakes are to be located away from locations where the exhaust from vehicles will be drawn into the building, especially from vehicles at the loading area, and away from any location where outdoor cooking (barbecuing) may be occurring.

The provision of activated carbon filters located in the mixed air stream of the air handling equipment is an appropriate recommendation, no matter what the exterior gaseous pollutants and their levels. Even if it is decided not to install activated carbon filters initially, the air handling units (AHU's) should be designed to have the medium efficiency filters replaced by activated carbon impregnated pleated media filters in the future, and the fans should be chosen to take into account any consequent increase in static pressure. The fan motor may need changing to a higher horsepower (hp) unit. Activated carbon filters should also be provided in AHU's serving Non-Collection areas since once gaseous pollutants enter the building, they could travel to Collection areas and react with the collections.

The use of high voltage electronic (electrostatic) type air filters is to be avoided because of the danger of ozone generation, which can damage collections.

The mixed air stream should be filtered by a 30% efficient pre-filter, followed by an 85% efficient medium filter, followed by an activated carbon filter bed, followed by a 90% efficient final filter to catch carbon particles.

Air and Vapor Permeability: The spray-on, sheet, and/or panel type materials intended to provide the principal resistance to air leakage should have an air leakage characteristic not greater than 0.02 L/(s·m²) [0.00007 ft³/(s·ft²) or 0.11 in³/(s·ft²)] measured at an air pressure difference of 75 Pa [0.01 lb/in² or 1.6 lb/ft²]. The total assembly should have an air leakage characteristic of not greater than 0.1 L/(s·m²) [0.0003 ft³/(s·ft²) or 0.57 in³/(s·ft²)] measured at an air pressure difference of 75 Pa.

The air barrier system shall be continuous across construction, control and expansion joints, across junctions between different building assemblies and around penetrations through the building assembly.

The water vapor permeance of the building assembly should be a maximum of 15 ng/(Pa · s · m²) [0.08 perms or less wet-cup]. Building fabric air leakage can be responsible for up to 40% of heating and cooling costs. Air leakage could be a major contributor to mold problems given the high exterior RH and temperatures in Miami.

Alarms:

Fire Alarms: Addressable ionization, photoelectric, projected beam photoelectric smoke detectors or VESDA™ (Very Early-warning Smoke Detection Apparatus) system monitored 24-hours per day, 365 days per year, and connected to an emergency power supply with the capacity to provide monitoring for 24-hours and still have power to operate the alarms for five minutes; heat detectors (addressable) to be provided only where smoke detectors may be susceptible to false alarms; addressable pull stations are required.

Intrusion Alarms: Verified (dual technology) passive infrared motion detectors or DAVID (Digitally Analyzed Video Intrusion Detection) in most spaces, with magnetic switches and glass breakage detectors on perimeter openings and specific internal doors.

Panic Alarms: Panic alarms, both portable and hardwired, are to be provided at specific locations such as the retail sales counter, the ticket counter, and the security desk, carried by security personnel on their rounds, and monitored on- and off-site.

Water Alarms: As per Code, water flow in a sprinkler system will annunciate at the Fire Alarm Panel. In addition, water detectors (tape, standing water, and sump float types) monitored by the BMS system are to be provided in sensitive collection areas.

Emergency Power to Alarms: All alarms should be connected to an emergency power supply with the capacity to provide monitoring for 24-hours and still have power to operate the alarms for five minutes.

Alarm Monitoring: Fire and security systems are to be monitored off-site at all times if one or fewer security guards are to be present in the building, with direct (not through switchboard) telephone connections to the off-site monitoring service, with a maximum 5 minute police and fire service response time.

Approach: Non-dusting surface leading to mud (sand) collectors and walk-off mats provided at all building entrances.

Audio: Audio System (music plus voice-over, special effects, et cetera), separate from the Public Address System, to meet the needs of customized exhibits and programs, with separate distribution to each gallery and to selected public spaces, with centralized equipment storage, set-up and work area. Override control of the Audio System will be tied into the Public Address System in the Security Control Room.

Building Automation: In order to provide a “smart” building, a Heating, Ventilation and Air-Conditioning (HVAC) Control Room equipped with a computer based Direct Digital Control (DDC) BMS (Building Management System) is required for electric control and monitoring of building environmental systems (indoor and outdoor lighting, temperature control, humidity control, air circulation, air filtration, and flood monitoring) with electronic sensors. The BMS computer will be set up to control, monitor, alarm, and print reports and preventive maintenance work sheets when necessary, and store temperature and RH readings from each Collection area at half-hourly intervals, store all the readings for a minimum of 31 days, and be able to export the information numerically and graphically.

Proportional control of climate control equipment is to be provided, not “on-off” control, with wall mounted sensors.

The electronic sensor humidistats will need to be of a low drift factor, high repeatability, and high accuracy design.

There will be a single-screen slave terminal for the BMS in the Security Control Room. Similarly, all fire and security systems should be centralized on separate control computers in the Security Control Room, but with the fire systems displayed in the HVAC Control Room as well.

Ceilings: Although exhibition design may result in other recommendations, from the viewpoint of illumination and the visitor experience, the gallery ceilings should be white (or possibly light blue) in color since white will reflect light throughout the space, making the space seem more brightly lit and since it will not influence the color of the reflected light in the room, and therefore the color of the objects in the room. White paint also absorbs ultraviolet (UV) radiation, an advantage if the ceiling is being used to provide indirect fluorescent light throughout the exhibition space or if daylight will be present.

Suspension capability of gallery ceiling beams is TBD by the structural engineers. It is not planned to suspend objects from the ceiling at this time, therefore a design suspension weight cannot be estimated, but this may be reconsidered when the exhibition design concept is seen.

Circulation Routes: Incoming collections flow must be without steps, and preferably without ramps or turns, from the artifact loading area through artifact shipping/receiving to the various Collection spaces, without sharing any of this circulation route with the public or with food supplies or garbage.

A separate circulation route should be provided for office and back-of-house operational, exhibit construction, and retail supplies.

Food and garbage service between spaces such as non-artifact loading area and the various food preparation and consumption areas must not follow or cross Collection circulation routes or cross Collection spaces and should be restricted as much as possible to non-public hours.

The back-of-house retail support spaces are to be accessible to the Public retail area, but not accessible to the public.

Covered Artifact Loading Area: The following requirements are for an external, fully or partially covered, direct back in, loading /unloading area. If the site allows, the loading area should also be accessible to the side-loading doors of a semi-trailer truck so equipped - the truck would be parallel to the face of the loading area. The loading area is to be able to accommodate one semi-trailer truck of the maximum length allowed in Florida. The minimum clear ceiling height over the truck will be 14½ feet, which should be the height of the pilings under the first floor.

The loading area will open directly onto the freight elevator, which is to be equipped with 6' wide by 9' high doors. A Non-Public stair is to lead from the loading area directly to a security booth on an upper floor.

If allowed in this flood-prone location, a hydraulic platform (scissors or elevating dock) lift 10 feet long x 8 feet wide should be set into the grade in the loading dock area in front of the freight elevator to allow the movement of objects vertically from truck height to building floor height, and vice versa. The scissors lift size requirement needs to be confirmed, as does the weight requirement. The platform width chosen depends upon how many people are considered necessary to ride on the dock to stabilize crates and objects and the diagonal measurement required.

If allowed, this elevating dock should be equipped with:

- a smooth, slip-resistant floor instead of a chequer-plate steel floor to prevent vibration in carts;
- controls on a flexible power cord which will reach the end of the elevating dock furthest from the freight elevator doors;
- hydraulic pump and piping located so as to be protected from accidental damage and to protect artifacts from an oil leak, whether the oil is under pressure and therefore spraying out, or if it is just dripping out;
- the hydraulic pump should be located on the first floor, above flood level;
- key or card interlocks to prevent unauthorized use;
- a loading flap to bridge between truck and lift.

The loading area pavement must allow the trailer box floors of parked trucks to be level.

All items must be moved between the truck and Shipping/Receiving and vice versa immediately –they can not be left sitting in the loading area due to security and climate concerns.

The Non-Public stairs to the security booth will need to end in a ‘trap’ area, with a door at the top of the stairs ending in a small vestibule area with a second locked door to prevent access to the remainder of the building. The Non-Public stairs allow small packages to be delivered without using the freight elevator, and they allow security screening of the delivery personnel and the shipment prior to opening the freight elevator. The door at the top of the stairs should be provided with a six-pin tumbler deadbolt lock or vertically firing panic hardware, a security light, a buzzer, a magnetic switch, an electric strike and a closed-circuit television camera for surveillance purposes. Since it is very likely that the doors will open out, the hinge pins will need to be of a non-removable design, for security purposes. These metal-skinned doors should be insulated, weather-stripped, thermally broken, galvanized and internally reinforced. The metal door frames should be galvanized and reinforced.

Because of the need for a breakaway wall design at this level, it is not envisaged that the loading area will be enclosed or fitted with doors. It may be screened from view, but in any case would not be secure because of the breakaway design requirement.

Bollards should be provided to protect the building in locations where a truck could contact it, if it is considered necessary to protect the pilings. They should be provided to protect the hydraulic lift and the freight elevator. They should be made of 8 inch diameter steel pipe filled with concrete, and should stick 5 feet out of the ground. A useful safety feature would be to provide wheel chocks on a 10 foot length of chain fastened to the building or bollard near the scissors lift.

HID lighting should be provided in the loading area, the light output being a minimum of approximately 500 lux at three feet above the ground.

Depending upon how enclosed the loading bay is, it may be necessary to provide an exhaust system to remove vehicle contaminants from this space. Exhaust fans may be needed to “de-pressurize” this space to prevent exhaust fumes and vehicle odors from entering the remainder of the building. The exhaust/relief air from Collection areas of the building could be dumped into this Loading Bay, thereby reducing the exhaust fan operating requirements for this space.

Doors and Metal Grilles: All regularly used public and staff entrances should be of a vestibule design, or revolving doors can be used if separate handicapped access is provided via a vestibule entrance. Vestibules/revolving doors are energy efficient devices that help to maintain a stable climate within a museum, help to prevent the ingress of pests and dust, and provide additional security.

Exterior doors are to be weather-stripped, insulated, thermally broken, reinforced metal, secured with either 6-pin biaxial deadbolt locks with a minimum 1 inch throw, or by electrically interlocked, concealed, vertically firing panic hardware, and monitored by recessed magnetic switches, and glass breakage detectors if appropriate. All outward opening doors require non-removable pin (NRP) hinges.

Fire doors with panic bars to code are required on all emergency stairways and building exits. Emergency exit doors need to be insulated, thermally broken, weather-stripped, reinforced, heavy duty galvanized hollow metal doors with no exterior hardware except in specific cases.

All exterior door frames are to be caulked and exterior doors weather-stripped on all four edges to lessen the quantity of unfiltered air entering the building and to help protect against pest infestations.

Fire rated doors as per code except for collection storage rooms, where the doors and the fire dampers should relate to the museum minimum standard of a two-hour fire rating of the walls, roof and floor that should surround these areas.

Viewing windows should be installed in all doors through which the collection moves. The windows should be approximately 3 inches wide by 18 inches tall, with the bottom of the window located approximately 4½ feet above the floor.

CCTV cameras must be provided in the artifact loading area to be able to view the freight elevator doors and the door to and the top of the Non-Public stairs.

Assumption: The largest truck opening is approximately 8 feet wide by 11½ feet high. Since none of the objects envisaged for display are particularly large, it is assumed that 6 foot wide by 9 foot high door openings will be sufficient, unless a wider opening is necessary in some locations to allow sufficient maneuvering room, that corridors will be a minimum of 7 feet wide by 11 feet high clear, and that galleries and storage rooms will have a clear height of 12 feet.

Elevators: Elevators will be required because a number of building stories will be provided, and since the building will be on exposed piles, with the lowest inhabited level at least 15 feet above the surrounding ground level to allow truck access under the inhabited level. At least one elevator will need to provide access to any Mechanical Penthouse areas for the movement of supplies such as air filters and chemicals and for replacement parts such as fan motors.

Freight Elevator: Requirements for a Freight Elevator that will transport artifacts:

- Doors may need to open on both ends or sides
- Artifact freight elevators located within spaces having Collections Control Zone RH and Temperature with the non-artifact freight elevator located in non-collection spaces.
- Lift shaft dimensions: up to 11 feet x 13 feet
- Motor room: 10 feet x 13 feet
- Internal car size: up to 10' x 8' x 10' high
- Door opening size: either 8' x 10' or 10' x 10'
- Pit depth: 5 feet

- Overhead clearance: 16 feet
- Capacity: 4,000 pounds or more depending upon the weight of the moving equipment and the artifacts
- Lockable doors
- A smooth floor so as to avoid inducing vibrations in carts
- Power operated doors
- Key or card interlocks to prevent unauthorized use.

Passenger Elevators: A prototype specification for two Passenger Elevator, one for the public, the second for staff and for servicing the restaurant kitchen:

- Doors may need to open on both sides or ends
- Located within spaces having Normal Heating and Air Conditioning during open hours
- Lift shaft dimensions: 10 feet x 12 feet
- Motor room: 10 feet x 13 feet
- Internal car size: 6½ feet x 10 feet x 8 feet high
- Door opening: 5 feet x 7 feet
- Pit depth: 5 feet
- Overhead Clearance: 16 feet
- Capacity (Loading): 2,200 pounds (15 persons)
- Doors: Lockable

Emergency Power: Emergency battery, uninterruptible power supply (UPS), or standby generator are required to maintain emergency lighting, fire detection and alarm systems, sprinkler and fire hoserack pumps, fireman's elevators, security and surveillance systems, the environmental monitoring function of the DDC system, and air circulation fans in collection areas for at least 24 hours, and for the safe shutdown of computer systems.

Emergency power sufficient to maintain at least one HVAC system at a time in Collection areas would be desirable. Co-generation could be considered.

In collection storage vaults, standby generator powered lighting and power circuits are required to allow monitoring of the collection, the use of portable climate control equipment, the safe removal of artifacts, the wrapping of artifacts, et cetera, during an emergency - a portable generator (guaranteed access rental?) could be used to power these circuits if a sufficiently large standby generator for the building is not provided.

An assessment of the historical frequency and duration of power outages (average and longest) should be undertaken to be able to make an informed decision on the emergency power generation requirement.

Detailed emergency power requirements will need to be determined during future design stages.

Exhaust Systems: Special exhaust systems are required in at least the following spaces:

- Restaurant Kitchen
- Kitchen/Catering
- Kitchenettes
- Clean Installation Shop (Preparator's Workroom)
- Paint Storage

- Security Control Room - low noise level necessary, therefore roof mounted remote fans are required - same requirement for any room where the fans run for extended periods of time in an occupied space
- Auditorium Projection Room
- Isolation Room
- Artifact Loading Area
- Building Maintenance Workroom
- In addition, there will generally be a Code requirement for air to be exhausted from spaces such as the Restrooms; Photocopy rooms; Staff Changing lockers & showers; Janitor's Closets; elevator mechanical rooms; et cetera.

All exhaust systems are to be equipped with low leakage backdraft dampers and/or variable speed drives so that small amounts of air can be exhausted continuously to prevent condensation within or on the ducts. The ducts are to be insulated in the vicinity of exterior penetrations to reduce the possibility of condensation occurring. Remote fans mounted external to the building are to be utilized to ensure that the exhaust ducts are under negative pressure within the building and to remove a source of noise from inhabited spaces. The exhaust systems are to be equipped with silencers so that the noise within exhausted spaces is not objectionable to staff that work in the spaces. Explosion-proof fans and motors are to be used where necessary, as are chemical resistant fans and ducts. In rooms with large and varying exhaust loads, variable supply volumes are to be interlocked with the exhaust systems. Tall exhaust stacks should be utilized to ensure fumes are effectively diluted and carried away from the building.

Exterior Lighting: Automatic day/night off/on illumination with High Intensity Discharge (HID) lamps over all back and side entrances/exits. Landscaping and facade lighting is to be provided and co-ordinated with outdoor CCTV camera locations and fields of view, as is lighting and CCTV surveillance of the piling area.

Fenestration: It is possible to provide daylight from above in exhibition areas, with special attention to specific design requirements, such as restricting the size of the light-admitting aperture. See the "Windows" section for a discussion of the design issues.

No daylight is permitted in collection storage areas.

Sidelighting windows are to be avoided in gallery spaces.

If windows are to be provided in collection work spaces, then a laminated lite will be required within the double glazed window unit, with the laminated sheet being constructed using glass laminated with a 0.06" thick interlayer to limit UV levels to a maximum of 10 μ W/lumen and fritted to limit maximum light levels. The double glazed unit will need to incorporate an air space of 1/2 inch, and should include a hard low 'E' coating and an inert gas fill (>R-2). The frames need to be thermally broken and insulated. Laminated glass provides additional security from the actions of people and hurricanes since it is more difficult to break and remains as a sheet even when broken, and it reduces noise transfer, allowing greater control over the interior sound environment.

Fire Compartmentation: Fire compartmentation should serve two purposes, it should limit the spread of fire and it should reduce the concentration of values. The fire resistance time of the compartments should be based on life safety and value concentration considerations, and take into consideration the fire detection and suppression equipment being provided. For example, the recommended practice for museum storage areas is to provide a fire resistant structure (floors, walls, ceilings, doors, HVAC fire dampers, et cetera) with a 2 hour rating when the compartment size does not exceed 5,000 sf and the space is equipped with a smoke detection system and protected by a wet-pipe sprinkler system. If a suppression system is not provided, the size of the compartments should be reduced to less than 5,000 sf, the fire resistance of each artifact storage compartment should be increased to 4 hours, and the fire detection system maintained.

Fire Detectors: See Alarms

Fire Extinguishers: Portable CO2 extinguishers with a minimum charge of 7 pounds of extinguishant for Class B (flammable liquids and grease) and Class C (electrical) fires and pressurized water extinguishers with a minimum of 2½ gallons of water for Class A (wood, paper, textiles, ordinary combustibles) fires are recommended.

Fire Rating: All finishes are to be fire resistant, with low smoke and flame spread numbers.

Code fire rating requirement for life safety for structures is to be provided throughout the VKBM, however, the museum fire requirement for structures is for a minimum 2-hour rating for collection storage areas.

Flooding: Because Virginia Key Beach is a low barrier reef island, there is a serious danger of flooding. The requirements to meet this danger as outlined in the *Virginia Key Beach Park Master Plan* have already been noted above, among the Principles and Assumptions of this Facility Strategy.

All Collection spaces will need to be located above the projected flood level, but consideration should be given to placing collection spaces as high as possible in the building. A concern that will need to be addressed is the requirement for “breakaway” construction at ground level and how the requirement for elevators can be met, since the elevator shafts cannot breakaway.

The elevator shaft pits must be fitted with a sump pit and pump.

No Collection spaces shall have water tanks, water-cooled chiller plant, boilers, or restrooms, et cetera above or beside them. No liquid-containing pipes, for example heating supply or return, chilled water supply or return, humidification steam or condensate, domestic hot, cold or recirculation water, drain, waste, vent piping, or rain water leaders, et cetera, other than sprinkler piping can be run through Collection spaces, and pipes above or beside Collection spaces should be avoided if possible.

Collection spaces should be equipped with moisture sensors monitored by the BMS computer.

Liquid-containing pipes should be run in corridors, located to maintain the required clear ceiling height.

Floors: Load capacity may be to Code in Non-Collection zones, but should ideally be at least 150 lb/sf in Collection zones.

As noted earlier, compactor storage systems are not recommended, since the compactor floor loading requirement may be as high as 225 lb/sf, too high for this building.

Besides meeting the floor loading requirement, the floors must also be stiff so that vibrations from internal or external forces, such as from people walking, equipment being rolled, or traffic, or from operating equipment such as fans, are not transmitted into objects, vitrines, storage equipment, or walls.

Floors may be stone, terrazzo, wood, bamboo, or carpet in Public areas. Wood (hardwood, softwood, end-grain blocks), bamboo, cork, carpet, or concrete may be required in the Galleries.

Gallery floors are to be drillable and patchable.

“Reception grade” carpet may be required in some public areas. Low-loop, tight weave commercial quality carpet could be used in some public areas and offices, with ceramic tile in washrooms and painted concrete or linoleum sheet in utility areas and Collection storage, movement and work areas. Wool carpet should be avoided because it sheds, creating a dust problem, and since it can harbor insects. Floor covering of the lobby especially should be planned with awareness that some visitors will be coming from the beach, bringing sand into the building.

Even floor surfaces are required in Collection areas to reduce vibration in carts or dollies rolling across the surface.

Seal or paint all concrete surfaces to prevent dusting. Add a hardening agent to concrete floors.

Handicapped Access: ADA compliant barrier-free access is required to all areas; ramps or elevators as required; washrooms to Code.

Height: 9 foot minimum door clearance, 12 foot minimum clear ceiling height in both Public and Non-Public Collection zones (track lights would be above the 12 foot clear plane) except the freight elevator clear height is 10 feet and the corridor clear height is 11 feet; Non-Collection zones may have 8 foot clearance.

In Zone B and C Collection areas, particularly galleries, space for air diffusion (4 feet) and ductwork (2 feet) above 8 feet of exhibition or storage equipment plus the floor structure (3 feet) results in an ideal minimum floor to floor requirement of 17 feet for Collection areas.

Housekeeping: Provide a built-in vacuum system vented to outside and away from building air intakes or use HEPA filtered vacuum cleaners for building housekeeping since the vacuum cleaner should either remove dust from the building or capture finer dust than the HVAC air filters.

For Wood and Machine Shop functions creating large quantities of dust, provide a dust capture system, preferably located outside the building. Ensure building and/or exterior humidity levels will not cause the system to plug.

Humidification/Dehumidification: Use steam-to-steam humidifiers, electric element stainless steel humidifiers, regular humidifiers fed steam from a steam-to-steam heat exchanger, or a clean steam generator to achieve the RH set points indicated under “Air Conditioning”.

Determine if the humidification water needs any treatment beyond particulate filtration. Some humidifiers are designed to operate with softened water, the softened water reducing humidifier maintenance requirements. Some institutions use Reverse Osmosis treated water in their steam humidifiers to ensure no carryover of chemicals with the steam.

It is not acceptable to use water treatment (boiler) chemicals in the water used to produce the humidification steam, therefore use either steam-to-steam humidifiers or heat exchangers so that the boiler steam can be treated but used within a closed loop whereas no chemicals are used in the open loop side of the humidifier/heat exchanger, or use a clean steam generator, a boiler designed to operate in an open loop system without the need for chemical treatment of the supply water.

Humidistatic control of the cooling system is to provide controlled dehumidification capability when associated with reheat equipment. Hot gas by-pass or a double bundle heat recovery chiller may be possible for use as the main source of reheat energy, thereby lowering operating costs.

The HVAC system should be Building Management System (BMS) computer controlled with Direct Digital Control (DDC) operators and electronic sensors.

Insulation: Best available technology for airtight, energy efficient, close humidity control building operation. Insulation levels should be chosen for the provision of environmental stability instead of for cost efficiency, and should provide climate stability in Collection areas for at least forty-eight hours in the event of a loss of mechanical climate control systems.

Recommended insulation values for engineering study are walls R-17 (RSI 3.0 / U 0.06), roof R-26 (RSI 5.6 / U 0.04), and floors over unconditioned space R-27 (RSI 4.7 / U 0.04).

The building fabric is to provide sufficient thermal buffering and control of moisture passage to ensure that building fabric deterioration, condensation, mold growth, et cetera will not be problematic. The insulation should not absorb moisture nor support biological growth.

Exterior doors require insulation and weather-stripping.

The building requires an airtight exterior to prevent dust, gaseous pollutants and pests from entering Collection and Non-Collection spaces and to prevent excessive amounts of interior and exterior humidity from entering the wall and roof structures.

Secondary walls will be necessary in gallery spaces to provide a repeatedly nailable wall; to hide sprinkler risers, electrical conduit, electrical panels, electric switches and dimmers; to form low level return ducts, et cetera.

A "room-within-a-room" design is recommended for gallery and storage areas, which means placing Non-Collection rooms around the perimeter of the building, with Collection rooms located such that they do not have any exterior walls, floor, or ceiling. If a gallery has an exterior wall, the stand-off secondary wall will need to be ventilated top and bottom so that both sides of the hanging face of the stand-off wall are at room conditions and not cooler and therefore more humid than room conditions in winter, or hotter, and therefore drier than room conditions in summer.

Exterior insulation should be provided so that the insulation is continuous and wraps the building completely without any breaks and so that the building structure can act as a heat and moisture buffer. A high thermal mass (concrete) wall should be inside the insulation since it will help to dampen temperature and RH fluctuations. A rain screen principle facade should protect the insulation. ***The building exterior needs to be designed to withstand hurricanes and wave action.***

Intercom: See Public Address System. The building telephone exchange will connect offices and other work stations.

IT Technology: At least the following separate IT systems are required:

- Administration, Membership and Bookkeeping
- Tickets, Bookings, and Retail Sales System
- Fire Systems (phone line access to monitoring station or Fire Department - requires 24-hour monitoring)
- Security Systems (phone line access to monitoring station or Police Department - requires 24-hour monitoring)
- BMS Computer (requires 24-hour monitoring)
- Collections Cataloguing and Management System
- Gallery and Theater control systems with multimedia capability (networked to Collection and Visual Image Databases)
- Library/archival database
- Exhibit lighting control.

Kitchen:

Specialized design services will be need to be utilized to layout the kitchen. Rough-in of the space will need to take into consideration the water supply and disposal requirements; electrical requirements for equipment such as freezers and refrigerators, dishwashers, exhaust fans, countertop equipment such as toasters, microwaves, and mixers; lighting; and whether to use gas or electricity for cooking and hot water; exhaust ducts and associated fire suppression systems.

Lighting: Three-circuit track lighting is to be provided in the Galleries, most particularly in the traveling/temporary exhibition galley, with two circuits on dimmers, and one undimmed as a power source. Length of track per dimmer and dimmer locations are TBD during the detailed gallery design process and the track location is to be determined by room height/exhibition displays/room shape according to the 30-degree-from-vertical lighting rule for walls, including temporary/portable wall locations. If the tracks get too close to the walls, 2D objects and signage will be lit with raking light, which shows every out-of-plane distortion and which can cast shadows from the frames onto the objects. If the tracks get too far from the walls, the viewers will be casting their own shadow on the object they are trying to study.

In addition, a twelve foot ceiling grid of junction boxes is to be provided in the temporary exhibition gallery. These junction boxes will provide power for:

- exhibit equipment and cases
- emergency lighting
- work lights
- security lighting
- emergency power
- security CCTV cameras.

One set of junction boxes will contain coaxial cable to allow the repositioning of Security Cameras, and wiring allowing motion detectors to be repositioned. This grid should be mirrored in a floor grid that also provides junction boxes at 12 foot intervals.

In the Permanent Galleries, if a three-circuit track lighting system is not provided, then the same twelve foot grid of junction boxes will be required, but with the addition of at least four 15 amp circuits for display lighting (one circuit per \approx 45 square feet of ceiling), be it lengths of track or individual lighting fixtures.

Tubular quartz, capsylite PAR, or “R” lamps, used in wall-washer type fixtures, are preferable in most gallery applications. If smaller fixtures are desired, then MR16 type fully enclosed low voltage tungsten halogen lamps could be used. Fixture accessories can be used to produce special effects.

Ambient gallery and public area lighting for general illumination and gallery working light could be provided by indirect fluorescent fixtures, with those in galleries on dimmers. If combination indirect fluorescent/track lighting tubes are provided, they will need to be suspended three feet below the ceiling. The ceiling height may need to be increased to accommodate this apparent lowering of the ceiling plane.

Lighting in storage areas must be integrated with the layout of storage units in each space; for example, lights must not be run directly over the closed position of picture racking. Suspended indirect fixtures to reflect light off the ceiling are preferred to direct lighting. Motion detectors equipped with timers are to be used to control the storage lighting systems and could be used to control the Gallery lights so that objects are only illuminated when visitors are present.

Fluorescent lamps are to have a Color Rendering Index (CRI) of > 85 Ra (Rendering average), 75 Rw (rendering worst), a color temperature matching other light sources, and a lamp/fixture combination having an ultraviolet (UV) component of < 10 microWatts per lumen ($\mu\text{W}/\text{lumen}$). Incandescent lamps are to be UV filtered to the same level. Enclosed fluorescent fixtures may incorporate Opal, Clear Acrylic, or Clear Prismatic Polycarbonate diffusers that should be tested with the selected lamps to determine the UV emission level. The UV level can be further reduced, if necessary, by the addition of UV filter sleeves over the lamps or lay-in overlay panels. Plastic parabolic louvre diffusers, even though not fully enclosed, do reduce UV levels. Fluorescent lamps and ballasts have improved significantly over the last couple of decades and are available in many different sizes and shapes. Tests of new fluorescent lamps and fixtures should be undertaken at this time to determine which will be appropriate for use in the new facility.

Light levels on objects must be adjustable to meet the following standards:

- Maximum 50 lux (≈ 5 foot-candles) on works on paper, fur, textiles, etcetera (specially sensitive objects) or limit exposure to 120,000 lux-hours per annum (11,150 foot-candle-hours per annum).
- Maximum 200 lux (≈ 19 foot-candles) on painted surfaces (sensitive objects) or limit exposure to 500,000 lux-hours per annum (46,470 foot-candle-hours per annum).
- Maximum 300 lux (≈ 28 foot-candles) on inorganic materials such as unpainted metal (insensitive objects) with no annual exposure limit.

To put the above numbers in perspective, offices are generally lit at 500 lux (~ 46 foot-candles), therefore the lighting on the objects could be considered task lighting, with the ambient light in the space being down to 1/6th the task lighting. More detailed lighting requirements will need to be determined during future design stages.

In some areas of the building, using annual illumination exposure may be an appropriate light damage control strategy, whereas in other areas, such as the temporary exhibition galleries, a tightly maintained single value of illuminance may be necessary in order to meet loan conditions, for example. Two problems with annual illumination exposure are: 1) what to do if the yearly exposure limit is exceeded, and 2) what range of illuminance is acceptable.

Concerning point 1, it would be necessary to have an ongoing monitoring procedure with objects replaced on a regular basis as they reach their annual exposure limit or the cumulative light exposure number would be used to determine how long the object would have to stay in storage before going on exhibit again. The cumulative light exposure number would have to become part of the object history record. Light damage is cumulative, therefore the lower the exposure, the longer the works will take to show deterioration. It is strongly recommended that the maximum annual target illumination exposure limit be as low as is feasible.

Assuming the galleries are lit eight hours per day, 363 days per year, with a maximum illumination of 200 lux, the annual total exposure limit could be as high as 580,800 lux hours. The average illumination will have to be less than the 200 lux maximum to allow for security lighting, cleaning lighting if it occurs outside public hours, installation lighting if it occurs outside public hours, evening openings, et cetera. In addition, it is assumed that all daylight is excluded from the space outside of opening hours.

Point 2 above asked what will be the range of illumination on the objects. 200 lux has been determined as the level required to see sensitive objects properly, so the illumination level should not be allowed to drop below this level. If 200 lux is the maximum that the objects can be subject to in order to remain within the maximum annual exposure limit, then the light level can not be allowed to fluctuate above 200 lux.

It appears the light level on the objects has to remain constant, therefore the objects should be lit only with electric light, and daylight used to provide variation in the ambient light within the space, but not on the objects displayed. If a daylight system directly or indirectly lights the objects, then a 'lumen logging' system will be necessary to monitor the annual illumination exposure because of the fluctuating light levels. To stay within the annual exposure limit, daylight would need to be totally excluded from the exhibit spaces except during public hours.

Lightning Protection: Horizontal roof conductor, vertical down conductors and earth electrodes as per appropriate code and on the advice of the electrical engineer.

Pest Control: All construction is to be checked for pest infestations before occupancy and fumigated if necessary. An ongoing program of pest monitoring is recommended (Integrated Pest Management - IPM). An isolation area with equipment using freezing and/or inert gases is recommended for control of collection pest infestations.

Plumbing: No pipes are allowed in collection areas except sprinkler pipes. Collection work spaces may have specific plumbing requirements, such as the need for sediment traps and a supply of reverse osmosis water.

Mechanical equipment is not to be located within, above, or beside collection spaces. As per one of the **2003 ASHRAE Applications Handbook** "Chapter 21 Museums, Libraries, and Archives" recommendations, heating, cooling and reheat coils, and humidifier distributors, are to be restricted to mechanical rooms.

Public Washrooms are to be accessible from circulation spaces on each floor and not located above and, if at all possible, not beside, Collection spaces.

Staff Washrooms, Changing rooms, Kitchenettes, Restaurant Kitchen and other plumbing containing spaces such as Janitor's Closets are not to be located above, and if at all possible not beside, Collection spaces.

Power: An emergency generator will be required to maintain emergency lighting, fire detection and alarm, and security and surveillance systems for 24 hours, air circulation, PA system, sprinkler and hose reel pumps, and elevators for use by firemen, plus any other services required by code or to protect the collections.

Recessed power outlets are to be provided in the gallery walls at baseboard level, and three compartment power and communications (audio-visual, computer, and fibre optic) trenches provided in the gallery floors, for example on a 12 x 12 foot grid; floor outlets are to be covered by a sealed plate. In addition to the floor trench, or instead of the trench, and depending upon column spacings, power panels could be located on the columns in display areas, with cables run within the display equipment.

Readily adaptable power, computer and communications systems are to be provided in the curatorial areas, all public assembly spaces, and the offices.

Control over power fluctuations or dedicated lines are to be provided, with all 120 volt circuits controlled to prevent brownouts and power surges.

A sound system with separate distribution to each Gallery and to selected Public Spaces will be required.

Three-circuit light track, with one circuit undimmed as a power source, the other two circuits on dimmers for direct lighting, is to be provided in galleries, or power boxes on a twelve foot grid spacing could be used to power lighting and exhibit systems.

Public Address System: The PA system is to be provided throughout Public and Non-Public areas, for normal and emergency announcements. It should be zoned for selective use. It will override and be separate from the audio (music) systems in Public areas. It will be controlled from the Security Control Room and interfaced with the telephone system.

Ramps: Ramp gradients should be no more than 1:30 and preferably 1:50 wherever artifacts are to be moved. Maximum ramp slope for wheelchairs is 1:12.

Security Levels: The four building zones A-D in the space program all contain spaces with varying security requirements. One requirement is to control public access to Non-Public areas of the building such as technical areas; a second is to control the building perimeter. The third requirement is to closely guard access to spaces where valuable and vulnerable collections and exhibit components are received, stored, prepared or exhibited. A full Security Manual for the VKBM should be prepared once the architectural design work is substantially complete. At least five security levels may be identified, with Level V as the lowest and Level I as the highest:

Level V: Site level of security, intended to monitor approach and access to the site and the total building complex. 24-hour grounds monitoring would integrate with building perimeter monitoring to provide complete coverage of building approaches, facades, roofs, and entrances.

Level IV: Outer level of building security, intended for the protection of Public spaces. During open hours, this will consist of CCTV or DAVID scanning of exits and galleries; monitoring and ticketing in the foyer and the presence of staff and security personnel in the galleries, shop and food areas. Low security areas include supplies storage, janitor's closets, and some staff areas. Level IV provides complete perimeter protection during closed hours and partial perimeter protection at all times (i.e. emergency exit monitoring, roof top monitoring, approach monitoring, loading area monitoring), supplemented by specialized alarm systems for vulnerable and/or valuable exhibits or objects. Specific exhibit security requirements are to be determined and provided by the VKBM to the security consultant, once exhibitions are designed and artifacts selected.

Level III: Middle level of security, applied to areas where vulnerable materials should not be left unprotected. This level would control public access to Non-Public areas. Active motion detectors and alarms would be provided throughout spaces that would generally also be CCTV monitored, and equipped with high-security locks combined with card access on internal doors.

Level II: Second highest level of security, reserved for the collections spaces where vulnerable materials are stored or otherwise left unsupervised. Provides 24-hour protection that can only be deactivated remotely by a second person on instruction by an authorized person. The card reader would be used to inform the security person that access to a collection storage area is required. The security person would determine via the CCTV system that the person and the card match and that any other persons going in at the same time (tailgaters) are recorded prior to releasing the electric door strike. The security person should be able to speak with the card holder via an intercom system. The card would be required to exit the area without setting off an alarm. After working hours, the personnel doors would be secured with a six-pin biaxial 1 inch throw deadbolt.

Level I: Highest level of security, reserved for the Vault areas where vulnerable materials are stored or otherwise left unsupervised. Level I requires the same requirements as for Level II plus enhanced physical construction - reinforced walls, floor, ceiling and door in fire and security vault specifications. The requirement for a Level I space needs to be determined.

Security Recommendations:

- Fire and security systems are to be monitored 24 hours per day, 365 days per year, on and off site. The on site security personnel (24 hour coverage) are to monitor the staff entrance, the loading bay, and respond to requests for collection storage access. Exterior CCTV cameras will be monitored, as will cameras at the collection storage areas, throughout the galleries, and elsewhere throughout the institution. Continuous digital recording of all camera outputs will be undertaken for later review.
- All elevators are to be keyed off at night.
- Provide a card reader door lock system in back-of-house areas.
- Provide a security intercom/doorbell system.
- Museum locks should be high quality, high security deadbolt locks, combined with electric strikes. A key press should be provided, as well as a secure storage location for the recorders and the security storage medium.
- The security rooms should be on a separate HVAC system.
- The ongoing upgrading of security equipment will be necessary to maintain adequate protection. Consideration should be given to having an outside security consultant provide input and/ or review of the building plans.

Shipping/Receiving: Two separate facilities are required:

Artifact Shipping/Receiving Area: Connected to the Covered Artifact Loading Area (see that entry above) via the hydraulic platform lift and the freight elevator for collection and exhibits shipping and receiving. It might be possible to purge the artifact loading area with Collection HVAC exhaust air.

The Artifact Shipping/Receiving area should be controlled to collection environmental conditions. Loaded crates may sit here for days at a time waiting to be shipped or unpacked, therefore the climate in this space has to be collection quality. The crates should be stored in the Artifact Shipping/Receiving for a minimum of twenty-four hours before they are opened, in order to allow their contents time to acclimatize to the conditions within the museum. Empty crates should be stored in collection environmental conditions while the exhibition is up; if not, they should be moved into this space, opened, and left for at least twenty-four hours in a collection standard environment before they are packed.

The Artifact Shipping/Receiving area needs to be large enough to accept all the crates from one semi-trailer truck.

The layout of the Artifact Shipping/Receiving area needs to be carefully considered so that 'dead' space for stacking the crates is created while at the same time circulation space is kept free from blockages.

Non-Artifact Receiving Area: This space is required for receiving food, exhibit supplies, office supplies, gift shop supplies, and other deliveries not intended for exhibition, and for garbage disposal, recycling storage, and chemical disposal storage. Staff bicycle racks could be located in this area. This area and its loading bay must be completely separate from the Collection Shipping/Receiving Area.

Sprinklers: A wet-pipe sprinkler system should be installed throughout the building, including the galleries, and be monitored by the fire annunciator panel. The pipe material should either be copper, thermoplastic, or galvanized steel pipe, cleaned to potable or boiler water standards to remove protection oils. Black steel pipe is not recommended for use because of the ongoing concern with corrosion. The corrosion products may be impossible to remove from some objects if they are wetted by this rusty water.

Collection areas should be located on separate risers equipped with supervised shutoff valves so that the system can be made non-functional if required by lenders and if allowed by local fire officials.

All sections of the wet-pipe sprinkler system should be capable of being flushed directly into a drain.

Pipe joints are to resist leakage therefore welded or screwed joints are preferable to bolted joints. Welded pipe fittings (large and small diameter pipe) or screwed fittings (small diameter pipe) should be used, not clamped fittings. The welded joints will need to be tested, possibly X-rayed, to ensure the weld is perfect.

Consideration could be given to using a high pressure pumped mist/fog sprinkler system in appropriate locations and utilizing stainless steel small diameter pipe, if allowed by Code. These systems introduce less water into the space.

Advantages of mist systems appear to include:

- significantly reduced water usage
- significantly reduced weight compared with regular sprinkler systems
- cools the fire space protecting people (and collections) from heat damage
- prevents re-ignition because of the cooling effect
- absorbs smoke, thereby limiting smoke damage.

For more information on mist systems, see the International Water Mist Association website at www.iwma.net. For information on one manufacturer, see the Marioff Hi-Fog website at www.hi-fog.com.

To reduce the quantity of water introduced into the building while utilizing a wet-pipe sprinkler system, consideration should be given to using a "Flow Control Valve". A wet-pipe system would be installed, with water present in all pipes. Either the smoke detection system, or a separate heat detection system, would be tied to the Flow Control Valve. In a fire situation, the heat needs to build up enough to melt the sprinkler head plugs while at the same time, the smoke or heat detection system is triggered by the fire, the detection system signalling the normally closed Flow Control Valve to open. If a sprinkler head releases before the FC Valve opens, either accidentally or during a fire situation, only the water in the pipes would be available to trickle out until the FC Valve opens. Once the FC Valve opens, the water will run for a fixed minimum amount of time. If the fire detection system has reset during the fixed water run time, the FC Valve will close at the end of the run time. If the detection system has not reset, the water will continue to run until the fire detection system does reset. If after resetting the fire detection system detects re-ignition of the fire, the detection system will reopen the FC Valve, allowing water to flow again.

Non-Collection spaces will be protected by the same sprinkler system design since water introduced into a Non-Collection space could easily wind up in a Collection area.

A specialized exhaust hood suppression system will be required within the Kitchen.

Sprinkler Heads: Quick response upright or dry pendant sprinkler heads should be used in all areas, with the temperature rating of the head matched to the climate characteristics of the space. Supervised pipe runs should be used in hidden locations. Protect heads susceptible to mechanical damage with cages.

Surveillance: Closed Circuit Television (CCTV) with color Charge Coupled Device (CCD) cameras at all building exits (facing exiting person), at points of access to Non-Public areas (entering and exiting), outdoors, galleries, collection vaults, and selected other locations; with low light capability (< 5 lux); inclusion of DAVID technology (Digitally Analyzed Video Intrusion Detection) should be considered; constant monitoring during open hours. All video signals are to be continuously recorded digitally. CCTV or DAVID cameras will be provided throughout the exhibition areas for after hours surveillance and for backup to the guards during open hours.

Telephones: A telecommunications computer will control all staff phones. A separate security telephone is to be provided, along with a minimum of 2 pay phone booths. Switchboard control transfer to the Security Control Room after hours is to be possible. The ability to call long distance is to be controlled.

Vestibules: To provide greater control over the internal environment in the building, to lower operating costs, and to limit infiltration of particulate and gaseous pollutants and insect and animal pests, vestibule (airlock) entrances are needed at all entrances in regular use. The distance between the sets of doors should be at least 10 feet so that when only one person is entering, the exterior door will have time to close before the interior door is opened, and vice versa when exiting.

The use of revolving doors may be considered only where handicapped access can be provided separately through vestibules.

Walls: A materials list must be generated by the design team and presented to the client for vetting to ensure all materials to be used on this project meet preventive conservation criteria, for example for prevention of off-gassing chemicals having deleterious effects on museum collections.

Collection spaces, such as storerooms, Shipping/Receiving, Freight Elevator shaft and corridors should be sealed or painted concrete; offices and Public Non-Collection spaces may be painted drywall. Service areas should be finished for utility and ease of cleaning.

Gallery walls that need to be repeatedly nailable should be composed of painted 5/8" fire rated gypsum wallboard over 5/8" or 3/4" fire retardant treated plywood on studs, separate from the exterior structural wall construction and capable of supporting 440 pounds per hanger. The stud space could be enlarged in order to provide room for HVAC ducts, electrical wiring, sprinkler risers, circuit breaker panels, and electrical outlets. The return air openings for the HVAC system should be located at the bottom of the nailable wall in the toe space. Some nailable gallery walls may be located at least three feet from the structural wall to allow access to the length of this wall to allow the installation of video monitors, et cetera.

Gallery walls are to be seamless, with no trim, and with devices (security sensors, CCTV cameras, exit signs, fire alarm strobes and sounders) grouped together over doorways or in the corners of the room as appropriate.

If a gallery has an exterior wall, and if the stand-off secondary wall is not used as a low level air return system, then the secondary wall will need to be ventilated top and bottom so that both sides of the hanging face of the stand-off wall are at room conditions and not cooler and therefore more humid than room conditions, or hotter and drier than room conditions.

Concrete and plaster surfaces are to be sealed or painted to prevent dusting, even in concealed locations, for example, above suspended ceilings if these are installed.

Windows: As a general exhibition principle, the materials exhibited in a gallery should be more important than an architectural feature such as a window, or the view through a window. If a window is placed in a gallery in the field of view, it -- rather than the exhibit or artifact -- will be the brightest object in the field of view. The visitor's eyes will be attracted to the window because of the "phototropic effect", which is the automatic attraction of eyes to the brightest object in the field of view. With the eyes being zapped by the high light levels of the windows, the adaptation to the low light levels of the galleries (50 to 300 lux or 5 to 28 FC, averaging 200 lux or 19 FC) will continually be lost, which will result in complaints from the visitors that the galleries are dark and dingy. Windows are also sources of glare, which is another way of stating phototropic effect/loss of adaptation. It will be very difficult to view objects that are displayed beside a window because of the difference in light levels in normal daylight conditions.

The proposed purpose of a window, namely to admit daylight or to have a view, is usually lost if blinds or louvers are provided to control light levels to the required levels, generally a surface brightness the equivalent of 200 lux or 19 FC. Limited views to outdoors should only be provided on the circulation path to the galleries, not in the galleries themselves or while moving from gallery to gallery since it is very important to allow time for the visitor's eyes to become adapted to low light levels, and to maintain this adaptation once gained. Adaptation to low light levels takes minutes in older visitors, but is lost in seconds, and takes minutes to regain. The circulation path to the galleries should start the adaptation process.

Windows will also create veiling reflections on vitrines and glazed objects. Veiling reflections make it very difficult to view artifacts, and are another source of frustration to visitors. Blinds or louvers may not solve the veiling reflection problem, and they often cause a condensation problem during the winter.

If tinted glass is used in the window, it would have to be very dark in order to restrict the light levels on bright sunny days to levels low enough to prevent eye adaptation problems, therefore making even a bright sunny day appear dark and dreary. A day that is dark and dreary will be more so when viewed through very dark glazing, and a day that is known to be bright and sunny will be disappointing through such glazing.

On top of all the lighting concerns raised by the introduction of windows into the gallery spaces are the loss of wall space and display flexibility caused by the inclusion of windows. **For all these reasons windows are not recommended for the galleries.**

If windows are to be provided in the galleries, they should be located very high in the space and be very small in area (i.e. clerestory ribbon windows), and be equipped with either a translucent white visible light and UV absorbing laminating interlayer or a clear UV absorbing interlayer and a fritted surface coating to reduce visible light levels.

The provision of daylight via roof monitors equipped with vertical glass would be a more acceptable way to provide contact with the outside weather and time of day and to provide variability in the ambient light levels within the galleries.

6.2 Summary of Environmental Requirements

Temperature Design Data for Miami Beach, Florida	
Winter Design Temperatures: 99% = 45° F, 97.5% = 48° F
Summer 1% Design Temperatures: Dry = 90° F, Wet Coincident 77° F, RH equivalent ~ 55%, which condenses when cooled to 72° F
Summer 2½% Design Temperatures: Dry = 89° F, Wet = 77° F, RH equivalent ~ 56%, which condenses when cooled to 72° F
Summer 5% Design Temperatures: Dry = 88° F, Wet = 77° F, RH equivalent ~ 61%, which condenses when cooled to 72° F
Wet-Bulb Design Temperatures: 1% = 79° F, 2.5% = 79° F, 5% = 78° F
Summer Mean Daily Range: 10° F, which means the nighttime temperature is often in the high 70's, with a RH in the 80's.

The environmental requirements to be maintained in Collection areas so that the VKBPM may be able to accept traveling exhibitions or borrow objects from other institutions are as follows:

Relative Humidity and Temperature

Collection Control – Galleries, Vaults, Storerooms, all collection work areas, and collection movement corridors and the spaces into which artifact freight elevators open. Full climate control. The RH set point and standard fluctuation shall be $50 \pm 3\%$ RH (47 - 53%) at the humidity sensor, with a maximum fluctuation in the room of $\pm 5\%$ (45 - 55%). The temperature set point and fluctuation shall be $72^\circ \pm 1^\circ$ F at the temperature sensor. Standby equipment or redundancy is required to 60 - 75% capacity per piece, total capacity of 120 - 150%. The fans are to operate 24-hours per day to provide air circulation within the collection spaces. The mechanical engineers are to determine by computer simulation the most economical temperature(s) at which to maintain these areas while maintaining stable RH levels. The RH fluctuation range shall be adjustable up to $\pm 10\%$ RH. The RH set point should be adjustable between 45 and 55% RH over the year.

Normal Air Conditioning to human comfort levels is to be provided in all Public Non-Collection spaces and Non-Public Non-Collection work spaces, plus associated corridors and elevators. The temperature set point of 72° F could be higher/lower for energy conservation and climate stability reasons. It may be possible to use night setback of the temperature in most of these areas. Normal Air Conditioning 24 hours a day will be required in the Security Control Center and the IT Server Room.

Air Cleanliness: > 90% efficiency particulate filtration according to the efficiency test portion of ASHRAE Standard 52.1 - 1992, Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter. Gaseous filtration utilizing activated carbon filters to reduce pollutant levels to:

SO ₂	< 1 $\mu\text{g}/\text{m}^3$ (0.4 ppb)
NO ₂ , HNO ₃	< 5 $\mu\text{g}/\text{m}^3$ (2.0 ppb)
O ₃	< 2 $\mu\text{g}/\text{m}^3$ (1.0 ppb)

The filter bank should consist of:

- 30% efficient prefilter
- 85% efficient medium filter or activated carbon filter
- 90% efficient final filter to capture activated carbon dust.

Collections Light Levels:

- 50 lux (5 foot-candles) for specially sensitive artifacts - limit exposure to 120,000 lux-hours per annum (11,150 foot-candle-hours per annum). Examples include paper, textiles, feathers, dyed leather, felt pen ink, etcetera.
- 200 lux (19 foot-candles) for sensitive artifacts - limit exposure to 500,000 lux-hours per annum (46,470 foot-candle-hours per annum). Examples include all other organic materials, paints, wood, etc.
- 300 lux (28 foot-candles) for insensitive artifacts, which includes most stone, glass, ceramics, unpainted metal, etcetera.
- 200 lux (19 foot-candles) at 3 feet AFF in collection storage areas.
- 5 lux (0.5 foot-candles) at 3 feet AFF for security lighting in CCTV monitored areas (investigate the use of red filters to improve low light level vision).
- Maximum of 10 $\mu\text{Watts}/\text{lumen}$ of UV light at the lux levels proposed above.
- Correlated Color Temperature (CCT) of fluorescent and other discharge lamps is to be appropriate to other light sources in the space and for the light levels being provided.

- Color Rendering Index (CRI) of fluorescent and other discharge lamps to be a minimum of Ra (rendering average) of 85, R_w (rendering worst) of 75.
- Infrared heating - avoid direct sunlight exposure and control daylight and electric light readings to the lux levels proposed above.

6.3 Making Sense of Climate Recommendations

In 1964, R.D. Buck proposed “A Specification for Museum Air-Conditioning” that recommended a general museum humidity level of 55 ±10% RH. During the 1970’s, the set point RH recommendation changed to either 50 or 55%, and the fluctuation range was reduced to ±5% RH as control equipment improved. The further reduction of the fluctuation range during the 1980’s to ±2% or ±3% RH was also equipment driven. By specifying a tight fluctuation band, it was assured that an electronic Direct Digital Control (DDC) system with high quality humidistat sensors would be provided, thereby ensuring the system would have a greater possibility of actually providing a stable ±5% RH environment. Many museum buildings now have a DDC system, usually as part of a computer system that may be called an Energy Management Control System (EMCS), Building Management System (BMS) or Building Automation System (BAS). Changing the environment within the museum can now be as simple as reprogramming the set points and fluctuation range on the computer.

In recent years there has been a movement on both sides of the Atlantic to relax the environmental standards to be attained and maintained within collection spaces in temperate climates. The objectives of the relaxed standards are reduced energy consumption and costs and to protect the building fabric from deterioration, while also continuing to protect the museum collections as determined by research conducted on various materials. Materials research has been interpreted by a technical committee convened by ASHRAE to suggest that somewhat broader ranges of temperature and RH fluctuation may be acceptable for most objects:

“Somewhere between fluctuations of about ±10% RH, ±18° F and ±20% RH, ±35° F, the risk of fracture or deformation does climb from insignificant to significant for a mixed historic collection. Beyond this range, risk climbs even more quickly for increasingly large fluctuations. It is the range of ±20% RH to ±40% RH that has yielded the common observations of cracked cabinetry and paintings.” **1999 ASHRAE Applications Handbook**, p. 20.3

However, the risks involved must be assessed for each class of material, in each climate situation. Time is an important factor in assessing if damage may be caused by humidity fluctuations. If the fluctuations are rapid compared with the response time of the object, the object will not have a chance to respond to the fluctuation therefore no harm will be done. If the change is slow enough (seasonal), stress relaxation will occur thereby reducing the force acting on the object. The guidance provided by ASHRAE is that fluctuations under an hour in duration will not affect most art works and that “a four month seasonal ramp of ±20% RH (e.g. from 50% RH to 30% RH) should cause less stress in most art works than a one week fluctuation of ±10% RH”.

The standards for museums published in the 1999 ASHRAE Applications Handbook as a result of this research summarise the maximum fluctuations proposed for collection spaces as five classes of control (AA, A, B, C and D), and present the risks and benefits associated with maintaining any particular class of control. The RH set point for all classes of control is 50% or the annual average RH in areas like the tropics or cold climate regions where the average annual conditions have been markedly different. The classes relevant to museum collections are AA, A and B:

- For loan exhibitions, temporary or traveling, the highest standard – AA – will be required by most Loan Agreements. Class AA requirements should be met by institutions requiring AA standards in their Loan Agreements in their permanent collection display and storage spaces.
- The difference between AA and A standards for permanent collection display is that the lower standard permits two larger RH fluctuation choices, either with or without seasonal set point adjustments. Seasonal temperature set point adjustments are also permitted, but since they are well outside the range of human comfort, they will be applicable in very few circumstances.
- The B standard is relevant primarily to seasonal historic sites in the temperate zone that need to avoid damage to the historic building fabric and may introduce not merely seasonal variations, but also a winter temperature setback aimed at maintaining RH while reducing temperature to a minimum consistent with that RH level.

The Table that follows adapts these 1999 ASHRAE standards for classes AA, A and B to the needs of exhibitions:

RH/TEMPERATURE SET POINTS FOR MUSEUM EXHIBITION GALLERIES

(Adapted from 1999 ASHRAE Applications Handbook)

Exhibition Type	Class	Relative Humidity Set Point	Temperature
Loan Exhibitions	AA	50% +/- 5%, or as specified in Loan Agreement	70° F +/- 4° F (21° C +/- 2.2° C)
Permanent Collection Display	AA	50% +/- 5%	70° F +/- 4° F (21° C +/- 2.2° C)
Permanent Collection Display: Seasonal change	A	50% or annual average +/- 5%, with seasonal change +/- 10%	Set point between 59 and 77° F +/- 4° F with seasonal +9°/-18° F. (Set point between 15 and 25° C +/- 2.2° C with seasonal + 5°/-10° C)
Permanent Collection Display: No seasonal change	A	50% or annual average +/- 10%, no seasonal change	Set point between 59 and 77° F +/- 4° F with seasonal +9°/-18° F. (Set point between 15 and 25° C +/- 2.2° C with seasonal + 5°/-10° C)
Permanent Collection Display: with winter setback (for seasonal historic sites in temperate zones)	B	50% or annual average +/- 10%, with seasonal change +/- 10%	Set point between 59 and 77° F +/- 9° F with seasonal + 18° F, up to 86° F max, - X° F as needed to maintain RH control. (Set point between 15 and 25° C +/- 5° C with seasonal + 5°/-10° C), - X° C as needed to maintain RH control.)

As the foregoing Table indicates, ASHRAE's classes AA, A and B are the three that are generally applicable to most museum collection environments, and all three require the same types of equipment to be provided. In a building with active control, the equipment would generally consist of air handling units equipped with heating, cooling, humidification, controlled dehumidification with reheat, particulate air filtration, gaseous air filtration, and an accurate and stable control system.

Capital costs will not vary significantly between providing ASHRAE's class AA, A or B environmental conditions, since only the size of the equipment might change, not the quantity. However, there is an advantage to acquiring AA-size equipment -- as long as the building is capable of containing an AA environment year-round without deteriorating -- since the other two classes of these environmental conditions can then be maintained, simply through the programming of the electronic energy management control system. Thus if the museum has equipment capable of AA standards it should be possible to switch between classes at any time -- as AA may be required for borrowed temporary exhibitions -- even if the museum chooses to operate at A or B standards at other times, for reasons of cost and energy savings. Operating costs will vary between the classes, with AA being the most expensive and B the least expensive of those with precision control. A mechanical engineer could undertake computer simulations to project the operating costs for the various environmental options.

The Class AA short fluctuations plus space gradients are $\pm 5\%$ RH, $\pm 4^\circ$ F about the set points, the requirements that have been the norm for a number of decades, especially for loaned exhibitions or objects. The RH range over the year, and for any shorter time period, would be from 45 to 55% around a 50% RH set point. The fluctuations at the humidistat would have to be less than $\pm 5\%$ RH to take account of moisture gradients in the space, moisture gradients that are primarily the result of temperature gradients. To minimize temperature gradients, the temperature fluctuations at the thermostat/thermal sensor will need to be on the order of $\pm 1^\circ$ F (0.5° C) and the RH fluctuations at the humidistat/humidity sensor $\pm 3\%$ RH.

There are two Class A RH fluctuation choices, either with or without seasonal set point adjustments. With a plus 10%/minus 10% RH seasonal (spring/fall) set point ramping regime where the set point is adjusted up or down 5% per month, three months would be spent at the 40% RH set point and three at the 60% set point. The fluctuation about this changing set point is restricted to $\pm 5\%$ RH, resulting in a yearly RH range of 35 to 65% (40 - 5% to 60 + 5%). The second Class A choice would be a fixed set point with $\pm 10\%$ RH fluctuations allowed, resulting in a yearly/monthly/weekly/ daily/hourly RH range of 40 to 60%. The Class B RH requirements are a plus 10%/minus 10% seasonally adjusted set point with $\pm 10\%$ RH fluctuations allowed. The yearly RH range would be 30 to 70% (40 - 10% to 60 + 10%). The Class C RH requirement is to remain between 25 and 75% RH year-round with no control over short term fluctuations. The Class D RH requirement is to remain below 75% RH.

To obtain most traveling exhibitions or to borrow objects, it is necessary to maintain a Class AA climate. In practise, climate requirements have not changed except for the climate maintained in collection areas that are only used for an institution's own collection, and even these changed climate requirements have not changed the equipment required to produce the desired climate reliably. If borrowed collections are brought into the institution, it is often impossible to provide two different climates, it being easier to maintain Class AA environments in all collection areas instead of trying to maintain a Class AA environment in some spaces, with A or B spaces intermixed.

6.4 Considerations in Developing a "Green" VKBPM

Green issues encompass such items as energy efficiency and reducing atmospheric harm [energy use, renewable energy, monitoring, commissioning, CFC reduction], water efficiency [landscaping, wastewater treatment, water use reduction], site sustainability [selection, access, design, erosion and sediment control], materials and resources [recyclables collection and storage, building reuse, using recycled materials in construction, using local materials], indoor environmental quality [ventilation, CO₂ monitoring, thermal comfort, daylight access, systems controllability, tobacco smoke control, off-gassing], and design innovation [occupant education, lifecycle analysis, using a LEED accredited professional].

The Leadership in Energy and Environmental Design (LEED™) Green Building Rating System is an assessment program that quantifies whether a design meets defined sustainability criteria. A total of 69 points are available. Receiving 52 or more points receives a LEED Platinum rating, 39 - 51 LEED Gold, 33 - 38 LEED Silver, and a building receiving 26 - 32 points is LEED certified.

Guidance will be required from the VKBM Trust on the desired degree of “green” to be incorporated into the new building.

Museums are generally an energy inefficient building type because of the need to control Relative Humidity (RH) and temperature levels to quite tight tolerances 24-hours per day, 365 days per year whereas other building types generally only have to control temperature to less strict tolerances for many fewer hours per year. In addition, the general reliance on electric light instead of daylight, and on incandescent type lamps instead of discharge or light emitting diode (LED) lamps means the electrical and heat load is high. The VKBM could be designed to be as energy efficient a museum as possible, but as a museum it does need to meet museum levels of RH and temperature control and ‘display’ lighting. A LEED silver rating is realistically attainable; higher levels would be more problematic for a museum.

Greater energy efficiency may be achieved by incorporating multiple types of chillers, such as a high efficiency standard chiller for the most economic production of chilled water, combined with a double bundle heat recovery chiller for the provision of ‘free’ reheat energy for RH control, combined with a reversible cycle chiller (heat pump) for heat production in the winter and additional cooling capacity during the summer. Air exhausted from the building via the HVAC system (not via exhaust systems from kitchens, restrooms, et cetera) could be put through a heat recovery wheel to capture sensible and latent heat for the tempering of the outdoor air being brought into the building. A dedicated HVAC unit in the outdoor air duct could further temper this make-up air before being distributed to HVAC units serving specific spaces throughout the institution thereby lessening the load on each of these units allowing them to be more efficiently sized.

It may be possible to use the air being exhausted from the building via the Collections HVAC system to purge the artifact loading area, thereby lessening the need to run exhaust fans in this space.

The quantity of outdoor air being brought into the building should be adjusted according to the number of people in the space instead of purging the space with a fixed amount of outdoor air all the time. The number of people can be indirectly determined through the use of carbon dioxide (CO₂) sensors.

The provision of an economizer (‘free cooling’) function is generally counter productive in a museum situation because the money saved in cooling costs may be lost because of the increased load on the particulate and gaseous filters and the humidifiers.

The provision of airlock type entrances of either the vestibule style or revolving door style is energy efficient and can help to prevent the entry of dust, gaseous pollutants, and pests into the building.

Grey water reuse would entail collecting lavatory, but not laboratory, sink water, humidifier drain water, water cooler drain water, cooling coil condensate, et cetera and using it for flushing toilets and urinals or for watering landscaping.

With the high reliance on electricity in the institution to provide cooling, air movement, lighting, and vertical movement, and since a significant portion of this load is present 24 hours per day, it may be possible to use co-generation. Co-generation would involve providing an electrical generator to produce electricity for the operation of chillers and other electrical equipment and the heat generated by the generator engine would be used for controlling RH by providing reheat energy and for winter heating.

Buildings have a finite life, with known time spans for each material used after which replacement will be necessary. The recyclability of each material could be used as criteria in making the original material choice. For example, linseed oil based linoleum would score higher in the recyclability category than vinyl based sheet or tile flooring.

Some building materials are considered more “green” than others because they are ‘natural’ and/or ecologically friendly. One example would be wool carpet instead of petrochemical based carpet. The problem with using wool carpet in a museum is its ongoing production of dust as it wears and that it can be a source of food for pests. Another green item would be the use of bamboo flooring instead of hardwood flooring because of the quick regeneration of bamboo, a grass, compared with a deciduous tree.

Mechanical engineers will need to be hired to review the feasibility of each of the above recommendations/combination of recommendations for their impact on operating costs.

7. Room Data Sheets

7.1 Table of Contents

A1.1	Vestibule.....	80
A1.2	Tour Station/ Audiotour Rental	84
A1.3	Ticketing/Information Counter	88
A1.4	Stroller/wheelchair storage	92
A1.5	Public Washrooms, Men's & Women's	96
A1.6	Handicapped/ Family Washroom	100
A1.7	Public Lockers	104
A1.8	First Aid/Sickroom	108
A1.9	Main Lobby/School Orientation	112
A1.11	Board/Conference Room.....	116
A1.12	Reception/Rental Space.....	120
A1.14	Activity Room	124
A1.16	Backpack Storage	128
A1.18	Restaurant.....	132
A1.19	Museum Shop	136
A1.20	Public Elevator	140
B1.1	Freedom Theater.....	144
B1.2	Permanent Exhibitions.....	148
B1.4	Temporary Exhibition Gallery	152
B1.6	Resource Centre	156
B1.7	Oral History Lab	160
C1.1	Collection Storage, Objects	164
C1.3	Collection Storage, Paintings	168
C1.4	Collection Storage, Textiles.....	172
C1.5	Archival Storage, Paper, Photographs/Film.....	176
C1.6	Collection Storage, Natural History	180
C1.7	Education Collection Storage	184
C1.9	Registration/ Photo Files	188
C1.11	Collections Workroom/ Photo Studio / Research.....	192
C1.12	Collections Supplies	196
C1.14	Clean Installation Shop.....	200
C1.15	Collections Loading Dock.....	204
C1.16	Collections Shipping/Receiving/Packing.....	208
C1.17	Transit Storage	212
C1.18	Isolation/Fumigation	216
C1.19	Crate Storage	220

C1.20	Collections Freight Elevator	224
C1.21	Collections Staging/Elevator Lobbies	228
D1.1	Executive Director	232
D1.2	Assistant to the Executive Director	236
D1.3	Director of Collections and Interpretation	240
D1.4	Collections and Interpretation Specialist – Cultural & Social History	244
D1.5	Collections and Interpretation Specialist - Ecology/Natural History	248
D1.6	Information Technology/ Media/ Projection Specialist	252
D1.7	Registrar	256
D1.8	Exhibition Manager	260
D1.10	Director of Education and Public Programs	264
D1.11	Education Program Coordinators - School Groups (2)	268
D1.12	Education Program Coordinator – Adult and Multi-Cultural Programs (2)	272
D1.13	Education Program Coordinator/Park Naturalist – Ecology and Natural History Programs (2)	276
D1.14	Booking Clerk and Education Clerical Support	280
D1.15	Visitor Services Manager	284
D1.16	Special Events/Rentals (2)	288
D1.17	Volunteer Coordinator	292
D1.18	Retail Shop Manager	296
D1.20	Food Service Coordinator: contracting food service as required	300
D1.25	Chief of Security (contracting other security staff)	304
D1.26	Finance Coordinator	308
D1.27	Human Relations Officer	312
D1.28	Administrative Assistant	316
D1.29	Receptionist	320
D1.30	Marketing and Media Director	324
D1.31	Membership Secretary	328
D1.32	Development Coordinator	332
D1.33	Reception/Waiting	336
D1.36	IT Server Room	340
D1.37	Mailroom/ Photocopy/ Document production	344
D1.38	Office Supplies	348
D1.39	Central Files	352
D1.40	Curatorial Files	356
D2.4	Board/Exec. Director Pantry/ Storage	360
D2.6	Staff First Aid Emergency	364
D2.7	Staff Washrooms/ Changing/Lockers (Male & Female)	368
D2.8	Volunteer Room/Day Lockers	372
D2.9	Staff/Volunteer Lounge	376
D2.10	Staff Kitchenette	380
D2.11	Staff/Volunteer Washrooms (Male & Female)	384
D3.1	General Storage	388
D3.2	Resource Center Book & Periodicals Storage	392
D3.3	Resource Center Workroom	396
D3.4	Website/Digitizing Lab	400
D3.5	AV Storage	404
D3.7	Dressing Room	408
D3.8	Projection/Audio Booth	412
D3.10	Special Event Furniture Storage	416
D3.11	Education Prep Room	420
D3.12	Kitchen Food Storage	424

D3.13 Kitchen, Catering/Restaurant428
D3.14 Catering Set up Area432
D3.15 Retail Stockroom436
D3.22 Lighting/Electrical Workroom440
D3.24 Moving Equipment.....444
D3.25 Exhibit Case/Prop Storage448
D3.27 Security Control Room & toilet452
D3.28 Security Booth/Package Control.....456
D3.29 Staff Entrance.....460
D3.30 Non-Art Shipping/Receiving464
D3.32 Garbage Bins468
D3.33 Facilities Maintenance Control Room.....472
D3.34 Operations Maintenance/ Electrical Workshop.....476
D3.35 Janitorial - Central Storage.....480
D3.36 Janitor's Closets484

Room Number A1.1

Space Name Vestibule

IDENTIFICATION

Program Area Circulation
March 06 Program NSF 90
Floor Level: 1F

OPERATIONAL

Functional Comments Allows for 1 public entrance @ 90 sf

Usual Period of Use: Extended
Collections Present: No
Occupancy: Maximum 10 at one time
Occupancy Unit Area, Net Sq Ft: 9

Critical Adjacencies Museum main entrance

Secondary Adjacency: NA

Separations: Food Delivery/ Garbage Disposal, Restrooms, Janitorial

Primary Access: From Outdoors and Interior Lobby

ADA Access: ADA access required

Restrictions: NA

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	Yes, double-glazing required; exterior laminated; heat rejection tint.
Doors:	Exterior glazed double public access doors with door closers and panic hardware, or revolving doors, to Vestibules. Glazed double glass doors or turnstiles to interior spaces. Solid wooden or hollow metal single doors to Public Washrooms and Storage Area
Vibration:	None permitted
Privacy/Blackout:	No
Acoustical:	NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Sealed concrete or terrazzo; grating in floor for knock-off surface for mud.
Walls:	Vestibule interior: painted drywall, or extension of exterior wall finish
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive to outdoors, negative to indoors

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage: Yes, grating in floor

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience power outlets located in adjacent interior space

Power - outlets: Duplex

Power - 3 phase:

Power - special: ISO / Production outlets / disconnects

LIGHTING:

Lighting - level: Daylight 1000 lux maximum; Artificial 500 lux maximum.

Lighting - source: Fluorescent / Daylight

Lighting - dimmable: No

Lighting - control: Photocell

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 5000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	No
Intercom:	Yes, to Security, with buzzer
Public address:	FOH, emergency only
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	No
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Glass breakage detectors.
Security Hardware:	Deadbolts; Door switches; Panic hardware; NRP hinges; buzzer; Cash Safe.
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	A1.2
Space Name	Tour Station/ Audiotour Rental

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		0
Floor Level:	1F	

OPERATIONAL

Functional Comments Rental point for audio guides, starting point for guided tours; Included in A1.9 Lobby

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:	Maximum 2 at peak times	
Occupancy Unit Area, Net Sq Ft:		20

Critical Adjacencies Ticketing/Information Counter

Secondary Adjacency: FOH areas

Separations: Washrooms, Café, Concessions, Food Prep, Galleries, Performance Spaces

Primary Access: Public: from lobby / Staff: from offices, also Box office work room

ADA Access: ADA access to at least 1 window for staff and public

Restrictions: Public access at public side of ticket windows only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or better

Ceiling Height: Minimum 8 ft clear height below ducting and other services

Insulation: Best available technology.

Fenestration: No

Doors: Single - solid core or reinforced sheet metal

Vibration: N/A

Privacy/Blackout: Yes - windows must have lockable security shutters for closed periods

Acoustical: NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Exterior to match/complement lobby finishes; interior office standard

Walls: Exterior to match/complement lobby finishes; interior office standard

Ceiling: Exterior to match/complement lobby finishes; interior office standard

Fire Rating: To Code or better

TECHNICAL

MECHANICAL:

Room Control: Part of Lobby space

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air: Yes
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power to computerized ticketing workstations, phone, charging stations.

Power - outlets: Multiple quad boxes

Power - 3 phase:

Power - special: Ticketing and phones on UPS

LIGHTING:

Lighting - level: Up to 500 lux (50 FC) from all sources

Lighting - source: Coordinated with Lobby lighting: Fluorescent / Task lights/ Daylight

Lighting - dimmable: No

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 5000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes - multiple lines at Counter.
Intercom: Yes
Public address: FOH
Computers: Yes, networked to the Membership, Development, and Finance Systems.
TV/Video: Yes
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes, networked to the Membership, Development, and Finance Systems.
Communications - other: TBD

SECURITY/SAFETY:
Security Level: LEVEL II - Box Office
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras outside space scan users entering and exiting.

Security Hardware: Lockable workstations and storage drawers etc, panic buttons.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	A1.3
Space Name	Ticketing/Information Counter

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		0
Floor Level:	1F	

OPERATIONAL

Functional Comments Admissions/info counter seating up to 4 staff/ volunteers; Included in A1.9 Lobby

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:	Maximum 4 at peak times	
Occupancy Unit Area, Net Sq Ft:		20

Critical Adjacencies Tour Station

Secondary Adjacency: FOH areas

Separations: Washrooms, Café, Concessions, Food Prep, Galleries, Performance Spaces

Primary Access: Public: from lobby / Staff: from offices, also Box office work room

ADA Access: ADA access to at least 1 window for staff and public

Restrictions: Public access at public side of ticket windows only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or better

Ceiling Height: Minimum 8 ft clear height below ducting and other services

Insulation: Best available technology.

Fenestration: 2 partially glazed ticket windows, single-glazed safety glass

Doors: Single - solid core or reinforced sheet metal

Vibration: N/A

Privacy/Blackout: Yes - windows must have lockable security shutters for closed periods

Acoustical: NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Exterior to match/complement lobby finishes; interior office standard

Walls: Exterior to match/complement lobby finishes; interior office standard

Ceiling: Exterior to match/complement lobby finishes; interior office standard

Fire Rating: To Code or better

TECHNICAL

MECHANICAL:

Room Control: Yes, Centralized BMS plus Room Thermostat

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power to computerized ticketing workstations, phone, task lighting at each station.

Power - outlets: Multiple quad boxes

Power - 3 phase:

Power - special: Ticketing and phones on UPS

LIGHTING:

Lighting - level: Up to 500 lux (50 FC) from all sources

Lighting - source: Coordinated with Lobby lighting: Fluorescent / Task lights/ Daylight

Lighting - dimmable: No

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 5000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes - multiple lines at Counter.
Intercom: Yes
Public address: FOH
Computers: Yes, networked to the Membership, Development, and Finance Systems.
TV/Video: Yes
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes, networked to the Membership, Development, and Finance Systems.
Communications - other: TBD

SECURITY/SAFETY:
Security Level: LEVEL II - Box Office
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras outside space scan users entering and exiting.

Security Hardware: Lockable workstations and storage drawers etc, panic buttons.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes: Electronic surveillance plus Box Office Staff, Security Officers as needed. Cash is present but not left unsupervised.

Room Number A1.4

Space Name Stroller/wheelchair storage

IDENTIFICATION

Program Area BOH
March 06 Program NSF 25
Floor Level: 1F

OPERATIONAL

Functional Comments Closed storage for courtesy items

Usual Period of Use: Extended
Collections Present: No
Occupancy: NA
Occupancy Unit Area, Net Sq Ft: 25

Critical Adjacencies Main Lobby/Orientation

Secondary Adjacency: FOH areas

Separations: Public areas, Galleries, Collections

Primary Access: BOH circulation
ADA Access: N/A
Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double solid core metal doors

Vibration: None permitted

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete

Walls: Hardened and sealed or painted concrete preferred

Ceiling: Painted drywall or acoustic tile

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust:

Fresh Air: Yes
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: Up to 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number A1.5

Space Name Public Washrooms, Men's & Women's

IDENTIFICATION

Program Area FOH

March 06 Program NSF 720

Floor Level: 1F

OPERATIONAL

Functional Comments On each floor with public access, each with one handicapped stall

Usual Period of Use: Extended

Collections Present: No

Occupancy: 16

Occupancy Unit Area, Net Sq Ft: 45

Critical Adjacencies Main Lobby and public areas on each floor; Restaurant

Secondary Adjacency: Janitor's Closet

Separations: Visual separation from Lobby; Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: From public areas

ADA Access: ADA access required

Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	No
Doors:	Single hollow metal doors, with door closers, with privacy screens or vestibules at entries.
Vibration:	None permitted
Privacy/Blackout:	Privacy in Toilet cubicles.
Acoustical:	NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Ceramic tile with coved corners
Walls:	Painted drywall or ceramic tile.
Ceiling:	Painted drywall or ceramic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	Yes, to operate continuously during public hours.

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Hot and cold water service to Public Washroom fixtures and faucets.
Plumbing - fixtures:	Sinks, toilets and urinals
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	In adjacent corridor
Plumbing - drainage:	Floor drain with backflow preventor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience power outlets and supply to hot air dryer etc
Power - outlets:	Duplex
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Up to 500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	FOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	No
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Cameras scan outside space
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number A1.6
Space Name Handicapped/ Family Washroom

IDENTIFICATION

Program Area FOH
March 06 Program NSF 0
Floor Level: 1F

OPERATIONAL

Functional Comments Handicapped washroom with both child and adult care capability; included in A1.5 Public Washrooms

Usual Period of Use: Extended
Collections Present: No
Occupancy: N/A
Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Main Lobby and public areas on each floor; Restaurant

Secondary Adjacency: Janitor's Closet

Separations: Visual separation from Lobby; Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: From public areas
ADA Access: ADA access required
Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	No
Doors:	Single hollow metal doors, with door closers, with privacy screens or vestibules at entries.
Vibration:	None permitted
Privacy/Blackout:	Privacy in Toilet cubicles.
Acoustical:	NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Ceramic tile with coved corners
Walls:	Painted drywall or ceramic tile.
Ceiling:	Painted drywall or ceramic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	No
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	Yes, to operate continuously during public hours.

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Hot and cold water service to Public Washroom fixtures and faucets.
Plumbing - fixtures:	Sinks, toilets and urinals
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	In adjacent corridor
Plumbing - drainage:	Floor drain with backflow preventor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience power outlets and supply to hot air dryer etc
Power - outlets:	Duplex
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Up to 500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	FOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	No
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Cameras scan outside space
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology.

Fenestration: None

Doors: No

Vibration: None permitted

Privacy/Blackout: No

Acoustical: NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Linoleum sheet.

Walls: Painted drywall.

Ceiling: Painted drywall.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience power outlets at baseboard level

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: Up to 500 lux (50 FC) from all sources

Lighting - source: Fluorescent/incandescent if near lobby

Lighting - dimmable: No

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes, staff position
Public address: FOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio:
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Lobby only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	A1.8
Space Name	First Aid/Sickroom

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		45
Floor Level:	1F	

OPERATIONAL

Functional Comments Rest and first-aid space for visitors also used by ER teams in emergency

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:		2
Occupancy Unit Area, Net Sq Ft:		22

Critical Adjacencies Main Lobby

Secondary Adjacency: Janitor's Closet

Separations: Visual separation from Lobby; Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: From Lobby

ADA Access: ADA access required

Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology.

Fenestration: None

Doors: Single hollow metal doors, with door closers, with privacy screens or vestibules at entries.

Vibration: None permitted

Privacy/Blackout: No

Acoustical: NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Linoleum sheet.

Walls: Painted drywall.

Ceiling: Painted drywall.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air:	Yes
Room Pressure:	Positive
Plumbing General:	Hot and cold water service to sink
Plumbing - fixtures:	Sink, Eyewash station
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Yes, sink drain and floor drain with backflow preventers
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Outlets both at baseboard and above counter
Power - outlets:	Duplex / Quad
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Up to 500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.
Lighting - other:	Task light at counter
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	Yes
Intercom:	Yes
Public address:	FOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	No
Communications - Data:	Yes
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Cameras scan outside space
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number A1.9

Space Name Main Lobby/School Orientation

IDENTIFICATION

Program Area FOH

March 06 Program NSF 1350

Floor Level: 1F

OPERATIONAL

Functional Comments Combined assembly and ticketing space of 1350 sf

Usual Period of Use: Extended

Collections Present: No

Occupancy: 150

Occupancy Unit Area, Net Sq Ft: 9

Critical Adjacencies Freedom Theater; Activity Room; Reception/Rentals space; through access to the Galleries; access to Washrooms, First Aid, Backpack Storage

Secondary Adjacency: BOH areas

Separations: Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: Public: Outdoors, Galleries, Performance Spaces; Staff from BOH

ADA Access: ADA access required

Restrictions: Ticketed and non-ticketed areas require restrictions

Access/Adjacency Comments: Auditorium sound and light locks (SLL) required

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 12 ft (16 ft preferred) clear height below ducting and other services. TBD Architect.
Insulation:	Best available technology.
Fenestration:	Yes, double-glazing required; exterior laminated; heat rejection tint.
Doors:	Exterior glazed double public access doors, or revolving doors, to Vestibules. Glazed double public access doors to galleries. Solid double wooden public access doors to Theater. Door closers and panic hardware on all public access doors. Solid wooden or
Vibration:	None permitted
Privacy/Blackout:	No
Acoustical:	NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Durable but attractive and sound-absorbing surface.
Walls:	Painted drywall or finish TBD Architect
Ceiling:	Painted drywall or finish TBD Architect
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air:	Yes
Room Pressure:	Positive to outdoors, negative to interior spaces.
Plumbing General:	No
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	In adjacent corridor
Plumbing - drainage:	No
Plumbing - special:	Vending machines TBD
Other:	
ELECTRICAL:	
Power General:	Recessed baseboard power outlets and channel for communications at 12 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	ISO / Production outlets and disconnects; Vending machines in alcove area.
LIGHTING:	
Lighting - level:	Daylight 1000 lux maximum; Artificial 500 lux maximum.
Lighting - source:	From varied sources: daylight, indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch. Task Lighting: at counters.
Lighting - dimmable:	Yes
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:

Intercom:

Public address: FOH

Computers: Yes, public access terminals

TV/Video: Yes

Slide/Film Projection: Yes

Audio: Yes, with microphone system.

Communications - show relay: Yes

Communications - CCTV: Yes

Communications - Data: Yes

Communications - other: TBD

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security

Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Glass breakage detectors.

Security Hardware: Deadbolts; Door switches; Panic hardware; NRP hinges; intercom/buzzer.

Sprinkler System: Yes

Smoke Detectors: Yes

Heat Detectors: No

Extinguishers: Yes

General Notes:

Room Number	A1.11
Space Name	Board/Conference Room

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		450
Floor Level:	3F	

OPERATIONAL

Functional Comments Space available for staff and Board meetings and rentals, with flexible conference room setup and excellent presentation facilities

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:		20
Occupancy Unit Area, Net Sq Ft:		22.5

Critical Adjacencies Executive Offices, Reception, Board Kitchenette

Secondary Adjacency: BOH areas

Separations: Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: From Lobby

ADA Access: ADA access required

Restrictions: By invitation, or booked/ticketed programs; may be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft, preferably 10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Double-glazing required if windows are present.
Doors:	Glazed double public access doors with door closers and panic hardware, at each public entrance/exit. Solid wooden or hollow metal double doors to any adjacent service areas such as chair and table storage. Fire doors to Code.
Vibration:	None permitted
Privacy/Blackout:	Yes, window coverings.
Acoustical:	NC 30; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Carpet, modified for sound reduction.
Walls:	Painted drywall, modified for sound reduction.
Ceiling:	Painted drywall, modified for sound reduction.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Recessed baseboard power outlets and channel for communications at 12 ft intervals

Power - outlets: Multiple quad boxes
Power - 3 phase: Yes
Power - special: ISO / Production outlets / disconnects
LIGHTING:
Lighting - level: Up to 500 lux (50 FC) from all sources

Lighting - source: From varied sources: daylight, indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch.

Lighting - dimmable: Yes
Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom:
Public address: FOH
Computers: Yes
TV/Video: Yes
Slide/Film Projection: Yes
Audio: Yes, with microphone system.
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: Tie lines, Clock

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Glass breakage detectors.

Security Hardware:

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number A1.12**Space Name** Reception/Rental Space**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 900**Floor Level:** 3F**OPERATIONAL****Functional Comments** Multipurpose space for indoor events, supplemented by interconnecting outdoor (rooftop or terrace) space O1.12 for larger events accommodating up to 300 people when this partially covered terrace of 3-4,000 sq. ft. is in use.**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** 36 dining -60 standing**Occupancy Unit Area, Net Sq Ft:** 25 - 15**Critical Adjacencies** Restaurant, Restaurant Kitchen, Catering Setup, Washrooms**Secondary Adjacency:** BOH areas**Separations:** Collections, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** From Lobby**ADA Access:** ADA access required**Restrictions:** By invitation, or booked/ticketed programs; may be open when galleries or offices are closed.**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Minimum 125 lbs/sf to allow for occasional sculpture and installation art

Ceiling Height:	Minimum 8 ft, preferably 10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Double-glazing required if windows are present.
Doors:	Glazed double public access doors with door closers and panic hardware, at each public entrance/exit. Solid wooden or hollow metal double doors to any adjacent service areas such as chair and table storage. Fire doors to Code.
Vibration:	None permitted
Privacy/Blackout:	Yes, window coverings.
Acoustical:	NC 30; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Carpet, modified for sound reduction.
Walls:	Painted drywall, modified for sound reduction.
Ceiling:	Painted drywall, modified for sound reduction.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Recessed baseboard power outlets and channel for communications at 12 ft intervals

Power - outlets: Multiple quad boxes
Power - 3 phase: Yes
Power - special: ISO / Production outlets / disconnects

LIGHTING:

Lighting - level: Daylight 1000 lux maximum; Artificial 500 lux maximum.

Lighting - source: From varied sources: daylight, indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch.

Lighting - dimmable: Yes
Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom:
Public address: FOH
Computers:
TV/Video: Yes
Slide/Film Projection: Yes
Audio: Yes, with microphone system.
Communications - show relay: Yes

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance:

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number A1.14
Space Name Activity Room

IDENTIFICATION

Program Area BOH
March 06 Program NSF 900
Floor Level: 1F

OPERATIONAL

Functional Comments Can be subdivided into 2 areas for meetings; normally able to accommodate 1 class of 30 children, or Artist in Residence use

Usual Period of Use: Extended
Collections Present: No
Occupancy: 30
Occupancy Unit Area, Net Sq Ft: 30

Critical Adjacencies Main Lobby/Orientation; Resource Center, Galleries

Secondary Adjacency: BOH areas

Separations: Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: FOH / BOH Circulation
ADA Access: ADA access required
Restrictions: By invitation, or booked/ticketed programs; may be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood or hollow metal doors with door closers. Double hollow-core metal doors to service areas.
Vibration:	None permitted
Privacy/Blackout:	Yes, window coverings.
Acoustical:	NC 30; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum sheet
Walls:	Pinnable, washable wall. Walls designed to display children's work. Possibly fire-rated partially glazed walls.
Ceiling:	Painted drywall, modified for sound reduction.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	Hot and cold water service and drainage to cleanup counter sinks.
Plumbing - fixtures:	Double over-size stainless steel cleanup sinks
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	In adjacent corridor
Plumbing - drainage:	Floor drain with backflow preventer in cleanup area.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Recessed baseboard power outlets and channel for communications at 12 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	30A
Power - special:	
LIGHTING:	
Lighting - level:	Daylight 1000 lux maximum; Artificial 500 lux maximum.
Lighting - source:	Incandescent, spaced direct overhead lamps
Lighting - dimmable:	Yes
Lighting - control:	Centralized/ room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.
Lighting - other:	Gallery quality lighting TBD
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes
Public address: FOH, emergency only
Computers: Yes
TV/Video: Yes
Slide/Film Projection: Yes
Audio: Yes
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Glass breakage detectors.

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	A1.16
Space Name	Backpack Storage

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		45
Floor Level:	1F	

OPERATIONAL

Functional Comments Lockable bin storage to accommodate up to 30 school children's backpacks etc in marked, lockable bins or rolling carts.

Usual Period of Use:		
Collections Present:	No	
Occupancy:	NA	
Occupancy Unit Area, Net Sq Ft:		45

Critical Adjacencies Main Lobby/ Orientation for easy access on arrival, lunchtime and departure

Secondary Adjacency: FOH areas

Separations: Public (FOH) Areas

Primary Access: Staff from Schools Orientation

ADA Access: ADA access required

Restrictions: Group visitors

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Single solid core wood or hollow metal doors with door closers.

Vibration: None permitted

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete, or Linoleum sheet flooring

Walls: Painted concrete, or drywall with protective wainscot.

Ceiling: Painted concrete, or drywall or acoustic tile.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: No

Humidity Control: No

Exhaust:

Fresh Air: Yes
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom:
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number A1.18**Space Name** Restaurant**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 900**Floor Level:** 3F**OPERATIONAL****Functional Comments** Fine Dining Restaurant with about 12 tables (12 x 4 = 48 covers) indoors. It is suggested that flexible Restaurant/ Rental space should be considered. Outdoor seating on the rooftop terrace O1.12 will increase capacity. Both rental and restaurant space to be supported by shared Kitchen/Catering space D3.13.**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** 45**Occupancy Unit Area, Net Sq Ft:** 20**Critical Adjacencies** Reception/Rental space; Rooftop/Outdoor Terrace; Restaurant Kitchen; Catering setup; Washrooms**Secondary Adjacency:** BOH areas**Separations:** Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** Public: from Street and Lobby, Staff: Kitchen & BOH**ADA Access:** ADA access required**Restrictions:** May be open when galleries or offices are closed.**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lb./sf.

Ceiling Height:	10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required, exterior laminated; heat rejection tint.
Doors:	Glazed double exterior public access doors, able to accommodate anti-theft barriers, with door closers and panic hardware. Fire doors to Code. Double hollow metal swing doors to Kitchens and Service areas with 3" viewing window 18" high with bottom of win
Vibration:	None permitted
Privacy/Blackout:	No
Acoustical:	NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Hard surface - stone, terrazzo.
Walls:	Painted drywall or to match/complement Foyer space - some acoustical mitigation is needed.
Ceiling:	Painted drywall or to match/complement Foyer space - some acoustical mitigation is needed.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes
Room Pressure: Positive
Plumbing General: In Kitchens/serving areas only

Plumbing - fixtures:
Plumbing - water supply: Yes
Plumbing - drinking fountain:

Plumbing - drainage: Yes

Plumbing - special:
Other:
ELECTRICAL:
Power General: Recessed baseboard power outlets and channel for communications at 12 ft intervals

Power - outlets: Multiple quad boxes
Power - 3 phase:
Power - special: Panic button at cash desk
LIGHTING:
Lighting - level: Daylight 1000 lux maximum; Artificial 500 lux maximum.

Lighting - source: From varied sources: indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch. Task Lighting: Cash desk.

Lighting - dimmable: Yes
Lighting - control: Local / temp @ perf area

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.
Lighting - other: Performance
EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes
Public address: FOH
Computers: Yes
TV/Video: No
Slide/Film Projection: Yes
Audio: Yes
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: TBD

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV with CCD cameras, or DAVID system. Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; cabinet and display locks

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	A1.19
Space Name	Museum Shop

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		675
Floor Level:	1F	

OPERATIONAL

Functional Comments	Main retail sales space accessible from Main Lobby. Includes A1.17 coffee kiosk or service counter.	
Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:		22
Occupancy Unit Area, Net Sq Ft:		30
Critical Adjacencies	Main Lobby. Visible on entry and exiting	
Secondary Adjacency:	Gift Shop Manager's Office, Retail Stockroom	
Separations:	Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal	
Primary Access:	Public: from Street and Lobby, Staff: Shop storage	
ADA Access:	ADA access required	
Restrictions:	May be open when galleries or offices are closed.	

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading:	Live load to Code or 100 lb./sf.
-----------------------	----------------------------------

Ceiling Height: 10-12 ft clear height below ducting and other services.

Insulation: Best available technology.

Fenestration: Yes, double glazing required; exterior laminated; heat rejection tint.

Doors: Glazed double exterior/interior public access doors, able to accommodate anti-theft barriers, with door closers and panic hardware. Fire doors to Code.

Vibration: None permitted

Privacy/Blackout: No

Acoustical: NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.

Structural - other:

MATERIAL & FINISHES: High quality finishes.

Floor: Wood or hard surface, or TBD

Walls: Painted drywall

Ceiling: Painted drywall

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: Yes, Centralized BMS plus Room Thermostat

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Recessed baseboard power outlets and channel for communications at 12 ft intervals

Power - outlets: Multiple quad boxes

Power - 3 phase:

Power - special: Panic button at cash desk

LIGHTING:

Lighting - level: Daylight 1000 lux maximum; Artificial 500 lux maximum.

Lighting - source: From varied sources: indirect lighting (fluorescent) and track lighting for display. Task Lighting: in display units, at cash desk.

Lighting - dimmable: Yes

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Display lighting; task lighting at sales desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	Yes
Intercom:	Yes
Public address:	FOH
Computers:	Computerized POS System
TV/Video:	Yes
Slide/Film Projection:	No
Audio:	Yes
Communications - show relay:	No
Communications - CCTV:	Yes
Communications - Data:	Computerized cash system (cash register) networked to Retail system.
Communications - other:	TBD
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV with CCD cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts, card access TBD; cabinet and display locks
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number A1.20**Space Name** Public Elevator**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 0**Floor Level:** 1F**OPERATIONAL****Functional Comments** Public passenger elevators To be confirmed**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** N/A**Occupancy Unit Area, Net Sq Ft:** N/A**Critical Adjacencies** Main Lobby, Galleries. Space and cost included in grossing factor.**Secondary Adjacency:** FOH Areas**Separations:** Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** From Lobby and FOH Circulation**ADA Access:** ADA access required**Restrictions:** May be open when galleries or offices are closed.**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** 2,200 lbs (15 passengers)

Ceiling Height: TBD Manufacturer

Insulation: Doors: Lockable

Fenestration: No

Doors: 5' x 7' minimum

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 35; articulation-loss-of-consonants from public address system not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor:

Walls:

Ceiling:

Fire Rating:

TECHNICAL

MECHANICAL:

Room Control:

Heating/Cooling: Human Comfort Standard

Air Filtration:

Humidity Control:

Exhaust:

Fresh Air:

Room Pressure:

Plumbing General: Elevator shaft to be sprinklered, sump pump

Plumbing - fixtures: No

Plumbing - water supply: No

Plumbing - drinking fountain: No

Plumbing - drainage: Sump pump drain

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power to Elevator. Convenience power outlet provided in elevator shaft pit.

Power - outlets: One quad box in elevator shaft pit

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: To Code

Lighting - source:

Lighting - dimmable:

Lighting - control:

Lighting - quality:

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Emergency 2-way communications to Security.
Public address: FOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: No
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Cameras scan outside space

Security Hardware: Deadbolts, key/card access TBD

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number B1.1
Space Name Freedom Theater

IDENTIFICATION

Program Area AUD
March 06 Program NSF 900
Floor Level: 1F

OPERATIONAL

Functional Comments New state-of-the-art Multimedia lecture/film facility with small-scale performance capability, with up to 60 seats. A programmed multimedia presentation of 10 minute length would be shown as a daily feature, with the Theater being used for films, lectures and events late afternoon/evenings.

Usual Period of Use: Extended
Collections Present: No
Occupancy: 60
Occupancy Unit Area, Net Sq Ft: 15

Critical Adjacencies Main Lobby, Galleries, Projection Booth.

Secondary Adjacency: Public lobby and restrooms, BOH

Separations: Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access:
ADA Access: ADA access required
Restrictions:

Access/Adjacency Comments:

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 16 ft clear height below ducting and other services. TBD Architect.

Insulation: Best available technology.

Fenestration: None

Doors: Special

Vibration: None

Privacy/Blackout: Blackout capability; No daylight

Acoustical: NC 30; articulation-loss-of-consonants from A/V not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Special - Timber / sprung

Walls: Acoustic - special

Ceiling: Acoustic - special

Fire Rating: Special

TECHNICAL

MECHANICAL:

Room Control: Centralized BMS plus Room Thermostat

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special: Compressed air provisions
Other:
ELECTRICAL:
Power General: Power requirements TBD Theater Consultant

Power - outlets: Multiple quad boxes
Power - 3 phase: 30A
Power - special: ISO / Production outlets and disconnects
LIGHTING:
Lighting - level: Artificial 1000 lux maximum; production light levels and presets TBD Theater Designer

Lighting - source: Performance & House lighting/work light system

Lighting - dimmable: Yes
Lighting - control: House/worklight control

Lighting - quality: Blue/white lights
Lighting - other: Production lighting and sound system DMX & ethernet control
EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	Yes
Intercom:	Backstage only
Public address:	FOH, emergency only
Computers:	
TV/Video:	Yes
Slide/Film Projection:	Yes
Audio:	Yes, with microphone system.
Communications - show relay:	Yes
Communications - CCTV:	Yes
Communications - Data:	Yes
Communications - other:	TBD Theater Consultant
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Glass breakage detectors.
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	B1.2		
Space Name	Permanent Exhibitions		
IDENTIFICATION			
Program Area	GAL		
March 06 Program NSF			4500
Floor Level:	2F		
OPERATIONAL			
Functional Comments	Exhibit components include social cultural, Hands-on Natural History Lab, Cove Storyzone, Discovery Box learning area, information mini-theater/video		
Usual Period of Use:	Gallery Hours plus Staff/Service Hours		
Collections Present:	Yes		
Occupancy:			45
Occupancy Unit Area, Net Sq Ft:			100
Critical Adjacencies	Main Lobby		
Secondary Adjacency:	Collections, Exhibit and Building Services support		
Separations:	Public Areas, Collections, Admin, Building Services, Food Preparation, Garbage Disposal		
Primary Access:	Public from Lobby, FOH Circulation		
ADA Access:	ADA access required		
Restrictions:	Ticketed area; service access after hours		
Access/Adjacency Comments:	Service access must be through adequately sized openings and corridors that match the required Design Artifact dimensions		

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Normal gallery floor loading of 150 lbs/sq.ft (pounds per square foot) at upper floor levels, with floor loading at the Plaza/Ground level at 200 lbs/sq ft

Ceiling Height:	Minimum 16 ft clear height below ducting and other services. TBD Architect.
Insulation:	Best available technology.
Fenestration:	No natural light to be permitted.
Doors:	Double service doors 10 ft wide x 12 ft high, gallery face finished as gallery walls. Gallery may require oversize access panels to match their clear ceiling height, i.e. 20' high and minimum 10' wide, to an outdoor area accessible by flat-bed truck. At
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 35; articulation-loss-of-consonants from A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	Finishes designed to be neutral, with services visible to viewers.
Floor:	Drillable and patchable, sound absorbent, neutral floor finishes. Floor finishes designed to withstand movement of most art, artifacts and exhibits. Smooth floor finish that will not induce vibration in art carts moving over the surface.
Walls:	Seamless walls with standard suspension capability. Repeatedly nailable, painted with 5/8" fire-rated gypsum wallboard over 5/8" plywood or 3/4" on studs, with return air openings for the HVAC system at the bottom.
Ceiling:	Painted Drywall or exposed ceiling and services, painted with neutral color primer. Ceilings may require additional suspension capability.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Perimeter baseboard power, data and audio outlets at 12 ft intervals, and recessed floor trenches on minimum 12 x 12 foot grid for power, data and audio cable; drop-down power from A 12 X 12 foot ceiling grid of junction boxes is required, one set of junction boxes containing co-axial cable for security CCTV cameras and motion detectors. Electrical service at least 200 amp, 2 phase, UPS and surge protection for
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Light levels on collections must be adjustable to meet the following standards: maximum 50 lux on works on paper and textiles; maximum 200 lux on oils and acrylics; maximum 300 lux on inorganic materials.
Lighting - source:	Ceiling grid of junction boxes is to be provided. Three-circuit track lighting with two circuits on dimmers, one undimmed as power source. Length of track per dimmer and dimmer locations TBD during Gallery design.
Lighting - dimmable:	Yes
Lighting - control:	Centralized/ Room switches in room but not accessible to public
Lighting - quality:	CRI: 85 Ra, 75 RW; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	FOH, emergency only
Computers:	No
TV/Video:	Yes
Slide/Film Projection:	Yes
Audio:	Yes, separate zoning.
Communications - show relay:	No
Communications - CCTV:	Yes
Communications - Data:	Multiple data lines to support high level interconnectivity
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL III - Gallery Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan galleries and exits.
Security Hardware:	Deadbolt on interior doors, card access on service doors. Panic hardware, door switches with delay mechanism (if allowed), NRP hinges on fire exits.
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number B1.4**Space Name** Temporary Exhibition Gallery**IDENTIFICATION**

Program Area	GAL	
March 06 Program NSF		2700
Floor Level:	1F	

OPERATIONAL

Functional Comments Flexible changing exhibition gallery space that can potentially double as a community gallery/event space.

Usual Period of Use: Gallery Hours plus Service Hours

Collections Present: Yes

Occupancy: 27

Occupancy Unit Area, Net Sq Ft: 100

Critical Adjacencies Main Lobby, Permanent Exhibitions

Secondary Adjacency: Collections, Exhibit and Building Services support

Separations: Public Areas, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: Public from Lobby, FOH Circulation

ADA Access: ADA access required

Restrictions: Ticketted area; service access after hours

Access/Adjacency Comments: Service access must be through adequately sized openings and corridors that match the required Design Artifact dimensions

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Normal gallery floor loading of 150 lbs/sq.ft (If heavy sculpture is to be exhibited, higher floor loading up to 200 lbs/sq.ft. is warranted.)

Ceiling Height:	Minimum 16 feet, preferably 18-20 ft clear height below ducting and other services. TBD Architect.
Insulation:	Best available technology.
Fenestration:	No natural light to be permitted.
Doors:	Double service doors 10 ft wide x 12 ft high, gallery face finished as gallery walls. Gallery may require oversize access panels to match their clear ceiling height, i.e. 20' high and minimum 10' wide, to an outdoor area accessible by flat-bed truck. At
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 35; articulation-loss-of-consonants from A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	Finishes designed to be handsome, but with services visible to viewers.
Floor:	Drillable and patchable, sound absorbent, neutral floor finishes. Floor finishes designed to withstand movement of most art, artifacts and exhibits. Smooth floor finish that will not induce vibration in art carts moving over the surface.
Walls:	Seamless walls with standard suspension capability. Repeatedly nailable, painted with 5/8" fire-rated gypsum wallboard over 5/8" plywood or 3/4" on studs, with return air openings for the HVAC system at the bottom.
Ceiling:	Painted Drywall or exposed ceiling and services, painted with neutral color primer. Ceilings may require additional suspension capability.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Perimeter baseboard power, data and audio outlets at 12 ft intervals, and recessed floor trenches on minimum 12 x 12 foot grid for power, data and audio cable; drop-down power from A 12 X 12 foot ceiling grid of junction boxes is required, one set of junction boxes containing co-axial cable for security CCTV cameras and motion detectors. Electrical service at least 200 amp, 2 phase, UPS and surge protection for
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Light levels on collections must be adjustable to meet the following standards: maximum 50 lux on works on paper and textiles; maximum 200 lux on oils and acrylics; maximum 300 lux on inorganic materials.
Lighting - source:	Ceiling grid of junction boxes is to be provided. Three-circuit track lighting with two circuits on dimmers, one undimmed as power source. Length of track per dimmer and dimmer locations TBD during Gallery design.
Lighting - dimmable:	Yes
Lighting - control:	Centralized/ Room switches in room but not accessible to public
Lighting - quality:	CRI: 85 Ra, 75 RW; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	FOH, emergency only
Computers:	No
TV/Video:	Yes
Slide/Film Projection:	Yes
Audio:	Yes, separate zoning.
Communications - show relay:	No
Communications - CCTV:	Yes
Communications - Data:	Multiple data lines to support high level interconnectivity
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL III - Gallery Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan galleries and exits.
Security Hardware:	Deadbolt on interior doors, card access on service doors. Panic hardware, door switches with delay mechanism (if allowed), NRP hinges on fire exits.
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	B1.6
Space Name	Resource Centre

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		900
Floor Level:	1F	

OPERATIONAL

Functional Comments Information resource area with varied information sources including books, periodicals, on-line access, video viewing, teacher resource area with shelving for CD's, videos, hands-on kits, curriculum materials.

Usual Period of Use:	Gallery Hours plus Staff/Service Hours	
Collections Present:	No	
Occupancy:		9
Occupancy Unit Area, Net Sq Ft:		100

Critical Adjacencies Activity Room, Galleries

Secondary Adjacency: FOH / Non-Public circulation

Separations: Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: FOH / BOH Circulation

ADA Access: ADA access required

Restrictions: By invitation, or booked/ticketed programs; may be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf. Minimum 150 lbs/sf for library shelving.

Ceiling Height:	Preferably 10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood or hollow metal doors with door closers. Double hollow-core metal doors to service areas.
Vibration:	None permitted
Privacy/Blackout:	Yes, window coverings.
Acoustical:	NC 30; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Wood or carpet for sound reduction
Walls:	Painted drywall, modified for sound reduction.
Ceiling:	Painted drywall, modified for sound reduction.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Perimeter baseboard power, data and audio outlets at 12 ft intervals, and recessed floor trenches on minimum 12 x 12 foot grid for power, data and audio cable; drop-down power from A
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	ISO
LIGHTING:	
Lighting - level:	Daylight 1000 lux maximum; Artificial 500 lux maximum.
Lighting - source:	From varied sources: indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch. Task Lighting: Table lamps.
Lighting - dimmable:	Yes
Lighting - control:	Centralized/ room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.
Lighting - other:	Task lighting at Reference areas, carrels, kiosks
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes
Public address: FOH, emergency only
Computers: Yes
TV/Video: Yes
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes - multiple lines
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number B1.7
Space Name Oral History Lab

IDENTIFICATION

Program Area FOH
March 06 Program NSF 270
Floor Level: 2F

OPERATIONAL

Functional Comments Meeting/interview room used for small staff and community meetings as well as for recording oral histories with individuals or small groups (ie families, Church groups, etc.)

Usual Period of Use: Gallery Hours plus Staff/Service Hours
Collections Present: No
Occupancy: 6
Occupancy Unit Area, Net Sq Ft: 50

Critical Adjacencies Resource Center

Secondary Adjacency: FOH / Non-Public circulation

Separations: Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: FOH / BOH Circulation
ADA Access: ADA access required
Restrictions: By invitation, or booked/ticketed programs; may be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf. Minimum 150 lbs/sf for library shelving.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood or hollow metal doors with door closers. Double hollow-core metal doors to service areas.
Vibration:	None permitted
Privacy/Blackout:	Yes, window coverings.
Acoustical:	NC 30; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Wood or carpet for sound reduction
Walls:	Painted drywall, modified for sound reduction.
Ceiling:	Painted drywall, modified for sound reduction.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No liquid-containing lines except sprinklers to run above or through collection spaces.

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Recessed baseboard power outlets and channel for communications at 12 ft intervals

Power - outlets: Multiple quad boxes

Power - 3 phase:

Power - special: ISO

LIGHTING:

Lighting - level: Daylight 1000 lux maximum; Artificial 500 lux maximum.

Lighting - source: From varied sources: indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch. Task Lighting: Table lamps.

Lighting - dimmable: Yes

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at Reference areas, carrels, kiosks

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	Yes
Intercom:	Yes
Public address:	FOH, emergency only
Computers:	Yes
TV/Video:	Recording and Replay
Slide/Film Projection:	No
Audio:	Recording and Replay
Communications - show relay:	No
Communications - CCTV:	No
Communications - Data:	Yes - multiple lines
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	C1.1	
Space Name	Collection Storage, Objects	
IDENTIFICATION		
Program Area	BOH	
March 06 Program NSF		315
Floor Level:	2F	
OPERATIONAL		
Functional Comments	General object storage. May be compacted in future. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft	
Usual Period of Use:	8 am to 6 pm	
Collections Present:	Yes	
Occupancy:	Up to 4 occasional access	
Occupancy Unit Area, Net Sq Ft:	NA	
Critical Adjacencies	Collections Stroage, Collections Workroom	
Secondary Adjacency:	Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator	
Separations:	Galleries, Admin, Building Services, Food Preparation, Garbage Disposal	
Primary Access:	Collections BOH Circulation	
ADA Access:	ADA access required	
Restrictions:	Public access restricted to qualified researchers, suppliers and contractors accompanied and supervised by staff at all times. Staff access restricted to/authorized by Curators, Collections Managers, and Security. Barrier-free access.	
Access/Adjacency Comments:	Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions	

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Minimum 200 lbs/sf with up to 250 lbs/sf on floor where compactor storage is planned

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high; viewing windows approx. 3 in. wide x 18 in. high, with bottom of window to be 4½ ft above floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 200 lux at 3 ft. above floor; UV filters on all lamps at 10 μ W/lumen
Lighting - source:	Maximum 200 lux at 3 ft. above floor; UV filters on all lamps at 10 μ W/lumen
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches, may be zoned by storage row - TBD final storage layout
Lighting - quality:	CRI: 85 Ra, 75 RW; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.3**Space Name** Collection Storage, Paintings**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 180**Floor Level:** 2F**OPERATIONAL****Functional Comments** Framed oils, acrylics, watercolours, etc. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft; 180 sq. ft. for painting racks**Usual Period of Use:** 8 am to 6 pm**Collections Present:** Yes**Occupancy:** Up to 4 occasional access**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Collections Storage, Collections Workroom**Secondary Adjacency:** Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator**Separations:** Galleries, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** Collections BOH Circulation**ADA Access:** ADA access required**Restrictions:** Public access restricted to qualified researchers, suppliers and contractors accompanied and supervised by staff at all times. Staff access restricted to/authorized by Curators, Collections Managers, and Security. Barrier-free access.**Access/Adjacency Comments:** Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Minimum 200 lbs/sf with up to 250 lbs/sf on floor where compactor storage is planned

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high; viewing windows approx. 3 in. wide x 18 in. high, with bottom of window to be 4½ ft above floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No liquid-containing lines except sprinklers to run above or through collection spaces.

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage: Floor drains, trench type with flush covers and backflow preventers, outside in corridor.

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: Maximum 200 lux at 3 ft. above floor; UV filters on all lamps at 10 μ W/lumen

Lighting - source: Fluorescent fixtures directed to reflect off ceiling; in preference to direct lighting, should not be installed over closed position of Painting Racks, but at right angles to the rows of racking in the pull-out area; at least 2 ft of clearance between fixtures and tops of other storage units; lighting layout TBD by final storage layout.

Lighting - dimmable: No

Lighting - control: Centralized/ Room switches, may be zoned by storage row - TBD final storage layout

Lighting - quality: CRI: 85 R_a, 75 R_w; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	C1.4	
Space Name	Collection Storage, Textiles	
IDENTIFICATION		
Program Area	BOH	
March 06 Program NSF		180
Floor Level:	2F	
OPERATIONAL		
Functional Comments	Costume and textile collection TBD - clean storage can be used also for archival collections. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft; 180 sq. ft for textiles or archives	
Usual Period of Use:	8 am to 6 pm	
Collections Present:	Yes	
Occupancy:	Up to 4 occasional access	
Occupancy Unit Area, Net Sq Ft:	NA	
Critical Adjacencies	Collections Storage, Collections Workroom	
Secondary Adjacency:	Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator	
Separations:	Galleries, Admin, Building Services, Food Preparation, Garbage Disposal	
Primary Access:	Collections BOH Circulation	
ADA Access:	ADA access required	
Restrictions:	Public access restricted to qualified researchers, suppliers and contractors accompanied and supervised by staff at all times. Staff access restricted to/authorized by Curators, Collections Managers, and Security. Barrier-free access.	
Access/Adjacency Comments:	Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions	

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Minimum 200 lbs/sf with up to 250 lbs/sf on floor where compactor storage is planned

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high; viewing windows approx. 3 in. wide x 18 in. high, with bottom of window to be 4½ ft above floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Duplex boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 50 lux at 3 ft. above floor; UV filters on all lamps at 10 μ W/lumen
Lighting - source:	Fluorescent lights directed to reflect off ceilings; lighting to be installed at right angles to rows of shelving, at least 2 ft clearance between storage units and fixtures; lighting layout TBD by final storage layout.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches, may be zoned by storage row - TBD final storage layout
Lighting - quality:	CRI: 85 R _a , 75 R _w ; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:

Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.5**Space Name** Archival Storage, Paper, Photographs/Film**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 180**Floor Level:** 2F**OPERATIONAL****Functional Comments** Clean storage with limited refrigerator storage for film. 'C1.1, C1.3, C1.4 and C1.5 may be 1 storage area of 855 sq ft; part of C1.4 may also be archive**Usual Period of Use:** 8 am to 6 pm**Collections Present:** Yes**Occupancy:** Up to 4 occasional access**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Collections Storage, Collections Workroom**Secondary Adjacency:** Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator**Separations:** Galleries, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** Collections BOH Circulation**ADA Access:** ADA access required**Restrictions:** Public access restricted to qualified researchers, suppliers and contractors accompanied and supervised by staff at all times. Staff access restricted to/authorized by Curators, Collections Managers, and Security. Barrier-free access.**Access/Adjacency Comments:** Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Minimum 200 lbs/sf with up to 250 lbs/sf on floor where compactor storage is planned

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high; viewing windows approx. 3 in. wide x 18 in. high, with bottom of window to be 4½ ft above floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Duplex boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 50 lux at 3 ft. above floor; UV filters on all lamps at 10 μ W/lumen
Lighting - source:	Fluorescent lights directed to reflect off ceilings; lighting to be installed at right angles to rows of shelving, at least 2 ft clearance between storage units and fixtures; lighting layout TBD by final storage layout.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches, may be zoned by storage row - TBD final storage layout
Lighting - quality:	CRI: 85 R _a , 75 R _w ; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	C1.6
Space Name	Collection Storage, Natural History

IDENTIFICATION

Program Area	BOH	
March 06 Program NSF		180
Floor Level:	2F	

OPERATIONAL

Functional Comments Clean storage with limited refrigerator storage for specimens

Usual Period of Use: 8 am to 6 pm
Collections Present: Yes
Occupancy: Up to 4 occasional access
Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Separate room adjacent to Collections Workroom

Secondary Adjacency: Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator

Separations: Galleries, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: Collections BOH Circulation
ADA Access: ADA access required
Restrictions: Public access restricted to qualified researchers, suppliers and contractors accompanied and supervised by staff at all times. Staff access restricted to/authorized by Curators, Collections Managers, and Security. Barrier-free access.

Access/Adjacency Comments: Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Minimum 200 lbs/sf with up to 250 lbs/sf on floor where compactor storage is planned

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high; viewing windows approx. 3 in. wide x 18 in. high, with bottom of window to be 4½ ft above floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No liquid-containing lines except sprinklers to run above or through collection spaces.

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage: Floor drains, trench type with flush covers and backflow preventers, outside in corridor.

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: Maximum 200 lux at 3 ft. above floor; UV filters on all lamps at 10 μ W/lumen

Lighting - source: Fluorescent lights directed to reflect off ceilings; lighting to be installed at right angles to rows of shelving, at least 2 ft clearance between storage units and fixtures; lighting layout TBD by final storage layout.

Lighting - dimmable: No

Lighting - control: Centralized/ Room switches, may be zoned by storage row - TBD final storage layout

Lighting - quality: CRI: 85 R_a, 75 R_w; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.7**Space Name** Education Collection Storage**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 135**Floor Level:** 2F**OPERATIONAL****Functional Comments** Clean storage with limited refrigerator storage for specimens**Usual Period of Use:** 8 am to 6 pm**Collections Present:** Yes**Occupancy:** Up to 4 occasional access**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Education Prep**Secondary Adjacency:** Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator**Separations:** Galleries, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** Collections BOH Circulation**ADA Access:** ADA access required**Restrictions:** Public access restricted to qualified researchers, suppliers and contractors accompanied and supervised by staff at all times. Staff access restricted to/authorized by Curators, Collections Managers, and Security. Barrier-free access.**Access/Adjacency Comments:** Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Minimum 200 lbs/sf with up to 250 lbs/sf on floor where compactor storage is planned

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high; viewing windows approx. 3 in. wide x 18 in. high, with bottom of window to be 4½ ft above floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No liquid-containing lines except sprinklers to run above or through collection spaces.

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage: Floor drains, trench type with flush covers and backflow preventers, outside in corridor.

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: Maximum 200 lux at 3 ft. above floor; UV filters on all lamps at 10 μW/lumen

Lighting - source: Fluorescent lights directed to reflect off ceilings; lighting to be installed at right angles to rows of shelving, at least 2 ft clearance between storage units and fixtures; lighting layout TBD by final storage layout.

Lighting - dimmable: No

Lighting - control: Centralized/ Room switches, may be zoned by storage row - TBD final storage layout

Lighting - quality: CRI: 85 R_a, 75 R_w; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other:

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	C1.9
Space Name	Registration/ Photo Files

IDENTIFICATION

Program Area	BOH	
March 06 Program NSF		135
Floor Level:	2F	

OPERATIONAL

Functional Comments Registration Record area for hard copy and computerized collections record files and file access.

Usual Period of Use:	8 am to 6 pm	
Collections Present:	Yes	
Occupancy:	1 Staff and 1 Reference User	
Occupancy Unit Area, Net Sq Ft:		67

Critical Adjacencies Collection Storage, Collections Workroom

Secondary Adjacency: Through access without steps, ramps or turns from Shipping/Receiving and to all other Collections spaces and Freight Elevator

Separations: Galleries, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: Collections BOH Circulation

ADA Access: ADA access required

Restrictions: No public access except visitors, suppliers and contractors by appointment and accompanied at all times

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Minimum 150 lbs/sf. where heavy file cabinets are present.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required, exterior laminated; heat rejection tint.
Doors:	Single hollow metal door.
Vibration:	None permitted
Privacy/Blackout:	NA
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum sheet or carpet
Walls:	Painted Drywall.
Ceiling:	Painted Drywall.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 500 lux for short periods during examination; safety in working conditions to be the over-riding factor. Capability to adjust to 200 lux (20 FC) at 3 ft above floor. UV filters on all lamps at 10 uW/lumen
Lighting - source:	Fluorescent lights directed to reflect off ceilings; at least 2 ft clearance between storage units and fixtures.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	Task lights at computer workstations
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other:

SECURITY/SAFETY:
Security Level: LEVEL III - Collections Work Areas
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	C1.11		
Space Name	Collections Workroom/ Photo Studio / Research		
IDENTIFICATION			
Program Area	BOH		
March 06 Program NSF			450
Floor Level:	2F		
OPERATIONAL			
Functional Comments	Space for collections processing, including accessioning, condition reporting, cataloguing, photography, digitization, numbering, etc.		
Usual Period of Use:	8 am to 6 pm		
Collections Present:	Yes		
Occupancy:	2-4, occasional use		
Occupancy Unit Area, Net Sq Ft:			100
Critical Adjacencies	Collection Storage, Collection Supplies, Clean Installation Shop		
Secondary Adjacency:	Through access without steps, ramps or turns from Shipping/Receiving and to all other Collections spaces and Freight Elevator		
Separations:	Galleries, Admin, Building Services, Food Preparation, Garbage Disposal		
Primary Access:	Collections BOH Circulation		
ADA Access:	ADA access required		
Restrictions:	No public access except visitors, suppliers and contractors by appointment and accompanied at all times		
Access/Adjacency Comments:	Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions		

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: 150 lbs/sf.

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	Laminated lite with laminated sheet within the triple glazed window unit. Door viewing windows to have wire-reinforced shatterproof tempered glass.
Doors:	Double hollow metal doors 10 ft wide x 12 ft high; with 3" viewing window 18" high with bottom of window 54" from floor; security hardware required.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed concrete or linoleum sheet with coved corners.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes

Exhaust:	Yes, from fume hoods/extractor arms/trunking must exhaust to outdoors separately from other building air-handling systems.
-----------------	--

Fresh Air:	Yes; static pressure sensor to override CO2 controlled outside air dampers.
Room Pressure:	Positive.
Plumbing General:	Hot and cold water service and drainage to sinks.
Plumbing - fixtures:	Double over-size stainless steel cleanup sinks
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drain with backflow preventer in cleanup area.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Power outlets at baseboard level at 12 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	30A
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 500 lux for short periods during examination; safety in working conditions to be the over-riding factor. Capability to adjust to 200 lux (20 FC) at 3 ft above floor. UV filters on all lamps at 10 μ W/lumen
Lighting - source:	Fluorescent lights directed to reflect off ceilings; at least 2 ft clearance between storage units and fixtures.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches
Lighting - quality:	CRI: 95 R_a , 90 R_w ; CCT 2700 -5000 K.
Lighting - other:	Task lights at computer workstations
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other:

SECURITY/SAFETY:

Security Level: LEVEL III - Collections Work Areas
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.12
Space Name Collections Supplies

IDENTIFICATION

Program Area BOH
March 06 Program NSF 45
Floor Level: 2F

OPERATIONAL

Functional Comments Clean collections supplies storage.

Usual Period of Use: 8 am to 6 pm
Collections Present: No
Occupancy: NA
Occupancy Unit Area, Net Sq Ft: 45

Critical Adjacencies Collections Workroom, Collection Storage, Transit Storage/Packing

Secondary Adjacency: Collections Storage and work areas

Separations: Restrooms, Food Prep, Garbage Disposal

Primary Access: Collections BOH Circulation
ADA Access: ADA access required
Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Double solid core metal doors
Vibration:	None permitted
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/room switch.

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	No
Intercom:	No
Public address:	No
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	C1.14
Space Name	Clean Installation Shop

IDENTIFICATION

Program Area	BOH	
March 06 Program NSF		270
Floor Level:	2F	

OPERATIONAL

Functional Comments	Exhibit layout and staging with artifacts present; workspace and computer workstation shared by 2 preparators	
Usual Period of Use:	8 am to 6 pm	
Collections Present:	Yes	
Occupancy:		2
Occupancy Unit Area, Net Sq Ft:		135

Critical Adjacencies	Collections Workroom, Collection Storage, Transit Storage/Packing	
Secondary Adjacency:	Through access without steps, ramps or turns from Art Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator	
Separations:	Galleries, Admin, Building Services, Food Preparation, Garbage Disposal	
Primary Access:	Collections BOH Circulation	
ADA Access:	ADA access required	
Restrictions:	No public access except visitors, suppliers and contractors by appointment and accompanied at all times	

Access/Adjacency Comments: Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading:	200 lbs/sf. where heavy crates or exhibit elements are moved or stored.
-----------------------	---

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass.
Doors:	Double hollow metal doors 10 ft wide x 12 ft high; with 3" viewing window 18" high with bottom of window 54" from floor; security hardware required.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 40
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with Linoleum sheet/tile covering.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	Exhaust fan, infrequent use

Fresh Air:	Yes
Room Pressure:	Positive
Plumbing General:	Hot and cold water service and drainage to sinks.
Plumbing - fixtures:	Double over-size stainless steel cleanup sinks
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drain with backflow preventer in cleanup area.
Plumbing - special:	Plaster traps on sink, Compressed air provisions
Other:	
ELECTRICAL:	
Power General:	Power outlets at baseboard level at 12 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	30A
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 500 lux for short periods during examination; safety in working conditions to be the over-riding factor. Capability to adjust to 200 lux (20 FC) at 3 ft above floor. UV filters on all lamps at 10 μ W/lumen
Lighting - source:	Fluorescent lights directed to reflect off ceilings; at least 2 ft clearance between storage units and fixtures.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches
Lighting - quality:	CRI: 85 R _a , 75 R _w ; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:

Security Level: LEVEL III - Collections Work Areas
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.15**Space Name** Collections Loading Dock**IDENTIFICATION****Program Area** BOH**March 06 Program NSF**

0

Floor Level: GF**OPERATIONAL****Functional Comments** Minimum 1400 sf covered exterior space, minimum 14 ft height under cover, to handle one tractor-trailer loading or unloading under cover; depending on approach and level change, more may be required.**Usual Period of Use:** 8 am to 6 pm; occasional night deliveries.**Collections Present:** Yes**Occupancy:** 1 tractor-trailer; Work crew of up to 4 occasionally**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Collections Shipping/Receiving, Moving Equipment, Security Booth**Secondary Adjacency:** Through access to Collections areas (Packing Studio), Galleries, and Performance spaces**Separations:** Kitchen, Kitchen Storage, Washrooms, Food and Gift Shop delivery and trash disposal, catering services, any potentially hazardous materials or activities for either people, or collections.**Primary Access:** From outdoors and from Art Art Shipping/Receiving**ADA Access:** NA**Restrictions:** Public access restricted to special visitors, fine art movers, suppliers and contractors accompanied and supervised by staff at all times. Keys to be issued to restricted list of staff, and to be logged by Security. Barrier-free access. Ramps to be provided**Access/Adjacency Comments:** Ideally there should be direct-shot through access from the Loading Dock through the Shipping Receiving Area to the Collections Freight Elevator connecting to other floors.**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** TBD Architects per vehicle weight requirements

Ceiling Height:	The minimum clear ceiling height required will be 14½ feet, with the external truck opening being a minimum of 24 feet wide x 14 feet high. 16 ft clear height below ducting and other services in adjacent space.
Insulation:	Best available technology.
Fenestration:	None except in Personnel Doors and viewing window from Security Control.
Doors:	The Loading Door for receiving art and artifact shipments is to be a minimum of 10 feet wide x 12 feet high, with a Personnel Door adjacent to the Loading Door. An overhead door is required, rather than outward swinging doors, because of the operational
Vibration:	None permitted
Privacy/Blackout:	NA
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	
Walls:	Hardened and sealed or painted concrete
Ceiling:	Sealed or painted concrete. Overhang: TBD architect
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	No
Heating/Cooling:	No
Air Filtration:	No
Humidity Control:	No

Exhaust:	Yes if enclosed
-----------------	-----------------

Fresh Air:	Yes
Room Pressure:	Negative to Shipping Receiving
Plumbing General:	Cold water for cleanup only
Plumbing - fixtures:	Hose Bibb
Plumbing - water supply:	Cold water only
Plumbing - drinking fountain:	No
Plumbing - drainage:	Storm drains in outdoor area
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Outdoor power outlets in Collections Loading Dock at 12 foot intervals. HID lighting should be provided in the loading dock, the light output being a minimum of approximately 500 lux at 1 m above the ground.
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 1000 lux from all sources; UV filters on all lamps to 10 μ W/lumen. Safety in working conditions to be over-riding factor. Art and Artifacts not to be left uncovered under working lights.
Lighting - source:	Protected HID Lights; swing-arm dock lights
Lighting - dimmable:	No
Lighting - control:	Centralized, 24 hour
Lighting - quality:	NA
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	Yes
Intercom:	Yes to Security
Public address:	BOH, emergency only
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	Yes
Communications - other:	Secure voice and visual communications between users and Security Control
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras both in Loading Dock and driveway and in Shipping/Receiving, with voice and visual communication to Security
Security Hardware:	Deadbolts or sliding bolts with padlocks, on overhead doors; man door requires 6-pin tumbler deadbolt lock or vertically firing panic hardware with magnetic switch and electric strike; NRP hinges; security light; buzzer.
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number C1.16**Space Name** Collections Shipping/Receiving/Packing**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 400**Floor Level:** 2F**OPERATIONAL****Functional Comments** Receiving area forming buffer to outside air, supervised by Security, may also be used to pack and acclimatize shipments**Usual Period of Use:** 8 am to 6 pm; occasional night deliveries.**Collections Present:** Yes**Occupancy:** Up to 4 during unloading and staging operations.**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Collections Loading Dock, Transit Storage/Packing, Moving Equipment, Security Booth**Secondary Adjacency:** Through access to Collections areas (Packing Studio), Galleries, and Performance spaces**Separations:** Kitchen, Kitchen Storage, Washrooms, Food and Gift Shop delivery and trash disposal, catering services, any potentially hazardous materials or activities for either people, or collections.**Primary Access:** BOH Circulation/ Collections BOH Circulation**ADA Access:** NA**Restrictions:** Public access restricted to special visitors, fine art movers, suppliers and contractors accompanied and supervised by staff at all times. Keys to be issued to restricted list of staff, and to be logged by Security. Barrier-free access. Ramps to be provided**Access/Adjacency Comments:** Security provisions for restricted access are critical. Access to be controlled from the manned Security Control Room.**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Code or 275 lbs/sf. where heavy crates are moved or stored.

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors and viewing window from Security Control.
Doors:	Overhead doors 10 ft wide x 12 ft high, insulated and weather stripped; to Loading Dock, Scenery Store/Offstage and Packing Studio area. Personnel Door with window 3" wide 18" high with bottom of window 4½ ft from floor, to Loading Dock.
Vibration:	None permitted
Privacy/Blackout:	NA
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed concrete preferred, with coved corners
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	Exhaust fan, infrequent use

Fresh Air:	Yes
Room Pressure:	Positive to Outdoors (Loading Dock)
Plumbing General:	Cold water for cleanup only
Plumbing - fixtures:	No
Plumbing - water supply:	No
Plumbing - drinking fountain:	No
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	*Convenience outlets at 12 ft intervals
Power - outlets:	Duplex boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 1000 lux from all sources; UV filters on all lamps to 10 μ W/lumen. Safety in working conditions to be over-riding factor. Art and Artifacts not to be left uncovered under working lights.
Lighting - source:	Protected HID Lights; swing-arm dock lights
Lighting - dimmable:	No
Lighting - control:	Centralized, 24 hour
Lighting - quality:	NA
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	Yes
Intercom:	Yes to Security
Public address:	BOH, emergency only
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	Yes
Communications - other:	Secure voice and visual communications between users and Security Control
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras both in Loading Dock and driveway and in Shipping/Receiving, with voice and visual communication to Security
Security Hardware:	Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number C1.17**Space Name** Transit Storage**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 360**Floor Level:** 2F**OPERATIONAL****Functional Comments** Storage for incoming/ outgoing exhibits (1 tractor-trailer load)**Usual Period of Use:** 8 am to 6 pm**Collections Present:** Yes**Occupancy:** Up to 2 occasional access**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Collections Shipping/Receiving, Moving Equipment, Crate Storage**Secondary Adjacency:** Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator**Separations:** Galleries, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** Collections Shipping/Receiving/Packing**ADA Access:** ADA access required**Restrictions:** No public access except visitors, suppliers and contractors by appointment and accompanied at all times**Access/Adjacency Comments:** Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Minimum 150 lbs/sf, preferably 275 lbs/sf. where heavy items are moved or stored.

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high with air-tight seal; viewing windows approx. with viewing window 3" wide 18" high with bottom of window 4½ ft from floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with linoleum sheet/tile covering. Floors may be poured low with internal ramp at doors to allow for future installation of mobile compacted storage systems.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air:	Yes, CO ₂ sensor
Room Pressure:	Positive
Plumbing General:	No
Plumbing - fixtures:	No
Plumbing - water supply:	No
Plumbing - drinking fountain:	No
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Power outlets at baseboard level at 12 ft intervals
Power - outlets:	Duplex boxes
Power - 3 phase:	No
Power - special:	
LIGHTING:	
Lighting - level:	Light levels on collections must be adjustable to meet the following standards: maximum 50 lux on works on paper and textiles; maximum 200 lux on oils and acrylics; maximum 300 lux on inorganic materials.
Lighting - source:	Fluorescent up-lights at right angles to compact storage units, lighting layout to be confirmed with storage system layout.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switch/ Motion Detector
Lighting - quality:	CRI: 85 Ra, 75 RW; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.18**Space Name** Isolation/Fumigation**IDENTIFICATION****Program Area**

March 06 Program NSF

45

Floor Level:

2F

OPERATIONAL**Functional Comments**

Small area for segregated storage and inert gas treatment

Usual Period of Use:

8 am to 6 pm

Collections Present:

Yes

Occupancy:

Up to 2 occassional access

Occupancy Unit Area, Net Sq Ft: NA**Critical Adjacencies**

Collections Shipping/Receiving, Transit Storage/ Packing

Secondary Adjacency:

Through access without steps, ramps or turns from Shipping/Receiving and to all other Collections spaces and Freight Elevator

Separations:

Galleries, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access:

Collections Shipping/Receiving/Packing

ADA Access:

ADA access required

Restrictions:

No public access except visitors, suppliers and contractors by appointment and accompanied at all times

Access/Adjacency Comments:

Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions

ARCHITECTURAL**BUILDING/ROOM CRITERIA:****Floor Loading:**

Minimum 150 lbs/sf, preferably 275 lbs/sf. where heavy items are moved or stored.

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high with air-tight seal; viewing windows approx. with viewing window 3" wide 18" high with bottom of window 4½ ft from floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	Barriers to pest escape at doors and other openings
MATERIAL & FINISHES:	
Floor:	Hardened and sealed concrete or linoleum sheet with coved corners.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	2 Hours for walls, ceiling, floors and doors; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Collections Control Standard, on separate system from Building
Humidity Control:	Collections Control Standard; Normally will be maintained at the same levels as the Collections Storage.
Exhaust:	Yes, separate from building system.

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	No
Plumbing - fixtures:	No
Plumbing - water supply:	No
Plumbing - drinking fountain:	No
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventers, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Power outlets at baseboard level at 12 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	Yes
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 500 lux for short periods during examination; safety in working conditions to be the over-riding factor. Capability to adjust to 200 lux (20 FC) at 3 ft above floor. UV filters on all lamps at 10 μ W/lumen
Lighting - source:	Overhead fluorescent lights directed to reflect off ceiling, UV filtered to 10 μ W/lumen
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches, switching between 2 light levels
Lighting - quality:	CRI: 85 R_a , 75 R_w ; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours. Power to HVAC systems in Collections areas and galleries 24 hours.
COMMUNICATIONS:	

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL II - Collections Storage
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 2.5 cm (1 in.) throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	C1.19	
Space Name	Crate Storage	
IDENTIFICATION		
Program Area	BOH	
March 06 Program NSF		300
Floor Level:	2F	
OPERATIONAL		
Functional Comments	Separate areas for VKBM and Lender's crates	
Usual Period of Use:	8 am to 6 pm	
Collections Present:	Yes	
Occupancy:	Up to 2 occassional access	
Occupancy Unit Area, Net Sq Ft:	NA	
Critical Adjacencies	Collections Shipping/Receiving, Transit Storage/ Packing	
Secondary Adjacency:	Through access without steps, ramps or turns from Shipping/Receiving and to all other Collections spaces and Freight Elevator	
Separations:	Galleries, Admin, Building Services, Food Preparation, Garbage Disposal	
Primary Access:	Collections Shipping/Receiving/Packing	
ADA Access:	ADA access required	
Restrictions:	No public access except visitors, suppliers and contractors by appointment and accompanied at all times	
Access/Adjacency Comments:	Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions	

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Minimum 150 lbs/sf. where heavy crates and cases are moved and stored.

Ceiling Height:	Minimum 12 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	2-hour fire-rated double hollow metal doors 10 ft wide x 12 ft high with air-tight seal; viewing windows approx. with viewing window 3" wide 18" high with bottom of window 4½ ft from floor.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed concrete or linoleum sheet with coved corners.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Collections Control Standard
Humidity Control:	Collections Control Standard.
Exhaust:	No

Fresh Air: Yes
Room Pressure: Positive
Plumbing General: No liquid-containing lines except sprinklers to run above or through collection spaces.

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage: Floor drains, trench type with flush covers and backflow preventers, outside in corridor.

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power outlets at baseboard level at 12 ft intervals

Power - outlets: Duplex boxes

Power - 3 phase: No

Power - special:

LIGHTING:

Lighting - level: Maximum 200 lux at 3 ft. above floor; UV filters on all lamps at 10 uW/lumen

Lighting - source:

Lighting - dimmable: No

Lighting - control: Centralized/ Room switches

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: Yes to Security
Public address: BOH, emergency only
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL II - Collections Storage (artifacts may be present)
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras outside space scan users entering and exiting.

Security Hardware: Deadbolts - 6-pin biaxial 1 in throw, NRP hinges, card access and intercom required

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.20**Space Name** Collections Freight Elevator**IDENTIFICATION****Program Area** BOH**March 06 Program NSF**

0

Floor Level: GF**OPERATIONAL****Functional Comments** 335 sf at each building level included in grossing; cost also in grossing**Usual Period of Use:** 8 am to 6 pm**Collections Present:** Yes**Occupancy:** 2-4, moving through**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Collections Shipping/Receiving, Transit Storage/ Packing**Secondary Adjacency:** Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries**Separations:** Food Preparation, Garbage Disposal**Primary Access:** Collections Shipping/Receiving/Packing, Collections BOH Circulation**ADA Access:** ADA access required**Restrictions:** No public access except visitors, suppliers and contractors by appointment and accompanied at all times**Access/Adjacency Comments:** See Collections Loading Dock above. Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Capacity (Loading): 8,000 lb. – 10,000 lb.

Ceiling Height:	Internal car height 10 ft. Overhead clearance 16 ft.
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass, 2 hour fire rating.
Doors:	Power-operated doors instead of manual doors; key or card interlocks to prevent unauthorized use.
Vibration:	Smooth floor instead of a chequer-plate steel floor to prevent vibration in art carts
Privacy/Blackout:	
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	TBD Manufacturer
Walls:	TBD Manufacturer
Ceiling:	TBD Manufacturer
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Collections Control Standard
Air Filtration:	Collections Control Standard
Humidity Control:	Collections Control Standard
Exhaust:	No

Fresh Air: Yes
Room Pressure: Positive
Plumbing General: No liquid-containing lines except sprinklers to run above or through collection spaces.

Plumbing - fixtures:
Plumbing - water supply: No
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Freight Elevator power requirements TBD

Power - outlets: TBD

Power - 3 phase:

Power - special: TBD

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources. UV filters on all lamps to 10 μ W/lumen. Safety in working conditions to be over-riding factor. Artifacts not to be left uncovered under working lights.

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized, 24 hour

Lighting - quality: NA

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes to Security
Public address: BOH, emergency only
Computers:
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: Secure voice and visual communications between users and Security Control

SECURITY/SAFETY:
Security Level: LEVEL III - Collections Work Areas
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras in elevators scan users entering and exiting.

Security Hardware: Lockable doors

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number C1.21**Space Name** Collections Staging/Elevator Lobbies**IDENTIFICATION****Program Area** BOH**March 06 Program NSF**

0

Floor Level: 1F**OPERATIONAL****Functional Comments** Minimum 200 sf at each floor level where there is a Collections Freight Elevator/ gallery service entry; included in grossing circulation areas**Usual Period of Use:** 8 am to 6 pm**Collections Present:** Yes**Occupancy:** 2-4, moving through**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Through access to Galleries, Collection Storage, Shipping/ Receiving**Secondary Adjacency:** Through access without steps, ramps or turns from Shipping/Receiving, to all other Collections spaces and to Galleries via the Freight Elevator**Separations:** Galleries, Admin, Building Services, Food Preparation, Garbage Disposal**Primary Access:** Collections Shipping/Receiving/Packing, Collections BOH Circulation**ADA Access:** ADA access required**Restrictions:** No public access except visitors, suppliers and contractors by appointment and accompanied at all times**Access/Adjacency Comments:** See Collections Loading Dock above. Access to all collections spaces must be through adequately sized openings and corridors match the required Design Artifact dimensions**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 150 lbs/sf.

Ceiling Height: Minimum 12 ft clear height below ducting and other services, for storage and movement of tall panels, cases, etc.

Insulation: Best available technology.

Fenestration: No

Doors: Double solid core metal doors.

Vibration: None permitted

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Linoleum sheet flooring.

Walls: Painted drywall with protective wainscot.

Ceiling: Painted drywall or acoustic tile.

Fire Rating: To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: Yes, Centralized BMS

Heating/Cooling: Collections Control Standard

Air Filtration: Collections Control Standard

Humidity Control: Collections Control Standard

Exhaust: No

Fresh Air:	Yes
Room Pressure:	Positive
Plumbing General:	No liquid-containing lines except sprinklers to run above or through collection spaces.
Plumbing - fixtures:	
Plumbing - water supply:	No
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drains, trench type with flush covers and backflow preventors, outside in corridor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Power outlets at baseboard level at 12 ft intervals
Power - outlets:	Quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Maximum 500 lux from all sources. UV filters on all lamps at 10 uW/lumen
Lighting - source:	Fluorescent lights directed to reflect off ceilings; at least 2 ft clearance between storage units and fixtures.
Lighting - dimmable:	No
Lighting - control:	Centralized/ Room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes, wall telephone
Intercom: Yes, to Security
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL III - Collections Work Areas
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras both in Loading Dock and driveway and in Shipping/Receiving, with voice and visual communication to Security

Security Hardware: Deadbolts or sliding bolts with padlocks, panic hardware, NRP hinges on overhead doors; personnel door requires 6-pin tumbler deadbolt lock or vertically firing panic hardware with magnetic switch and electric strike; NRP hinges; security light; buzzer.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.1
Space Name Executive Director

IDENTIFICATION

Program Area
 March 06 Program NSF 135
Floor Level: 3F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 2 visitors
Occupancy Unit Area, Net Sq Ft: 135

Critical Adjacencies Centralized administrative areas, Boardroom

Secondary Adjacency: Office support, VIP/Donor/Board Room

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Access only on the Executive Officer's invitation or authorization.
 Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL**BUILDING/ROOM CRITERIA:**

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: Yes
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.2
Space Name Assistant to the Executive Director

IDENTIFICATION

Program Area
 March 06 Program NSF 60
Floor Level: 3F

OPERATIONAL

Functional Comments Area in front of Director's office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 2 visitors
Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Centralized administrative areas, Boardroom

Secondary Adjacency: Office support, VIP/Donor/Board Room

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception
ADA Access: ADA access required
Restrictions: Access only on the Executive Officer's invitation or authorization.
 Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.3

Space Name Director of Collections and Interpretation

IDENTIFICATION

Program Area

March 06 Program NSF 75

Floor Level: 3F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 75

Critical Adjacencies Centralized administrative areas or Collections areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception or Collections areas (staging)

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.4

Space Name Collections and Interpretation Specialist – Cultural & Social History

IDENTIFICATION

Program Area

March 06 Program NSF 55

Floor Level: 3F

OPERATIONAL

Functional Comments Combined with D1.5 to make one 110 sq ft office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas or Collections areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception or Collections areas (staging)

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.5

Space Name Collections and Interpretation Specialist - Ecology/Natural History

IDENTIFICATION

Program Area
March 06 Program NSF 55
Floor Level: 3F

OPERATIONAL

Functional Comments Combined with D1.4 to make one 110 sq ft office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 1 visitor.
Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas or Collections areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception or Collections areas (staging)
ADA Access: ADA access required
Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.6

Space Name Information Technology/ Media/ Projection Specialist

IDENTIFICATION

Program Area
March 06 Program NSF 60
Floor Level: 3F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1
Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Centralized administrative area;

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.7

Space Name Registrar

IDENTIFICATION

Program Area

March 06 Program NSF 75

Floor Level: 2F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 75

Critical Adjacencies Centralized administrative areas or Collections areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception or Collections areas (staging)

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.8
Space Name Exhibition Manager

IDENTIFICATION

Program Area
March 06 Program NSF 60
Floor Level: 3F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1
Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Centralized administrative areas or Collections areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception or Collections areas (staging)
ADA Access: ADA access required
Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.11

Space Name Education Program Coordinators - School Groups (2)

IDENTIFICATION

Program Area
March 06 Program NSF 80
Floor Level: 3F

OPERATIONAL

Functional Comments Combine D1.11, D1.12 and D1.13 into one 240 sq. ft. office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 1 visitor.
Occupancy Unit Area, Net Sq Ft: 80

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception
ADA Access: ADA access required
Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.12

Space Name Education Program Coordinator – Adult and Multi-Cultural Programs (2)

IDENTIFICATION

Program Area
March 06 Program NSF 80
Floor Level: 3F

OPERATIONAL

Functional Comments Combine D1.11, D1.12 and D1.13 into one 240 sq. ft. office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 1 visitor.
Occupancy Unit Area, Net Sq Ft: 80

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception
ADA Access: ADA access required
Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.13

Space Name Education Program Coordinator/Park Naturalist – Ecology and Natural History

IDENTIFICATION

Program Area

March 06 Program NSF 80

Floor Level: 3F

OPERATIONAL

Functional Comments Combine D1.11, D1.12 and D1.13 into one 240 sq. ft. office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 80

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.14

Space Name Booking Clerk and Education Clerical Support

IDENTIFICATION

Program Area

March 06 Program NSF 55

Floor Level: 3F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1

Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.15

Space Name Visitor Services Manager

IDENTIFICATION

Program Area
March 06 Program NSF 55
Floor Level: 1F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1
Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.16

Space Name Special Events/Rentals (2)

IDENTIFICATION

Program Area FOH
March 06 Program NSF 80
Floor Level: 1F

OPERATIONAL

Functional Comments Shared Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1
Occupancy Unit Area, Net Sq Ft: 80

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: FOH areas

Separations: Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: By invitation, or booked/ticketed programs; may be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Minimum 125 lbs/sf to allow for occassional sculpture and installation art

Ceiling Height:	Minimum 8 ft, preferably 10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Double-glazing required if windows are present.
Doors:	Glazed double public access doors with door closers and panic hardware, at each public entrance/exit. Solid wooden or hollow metal double doors to any adjacent service areas such as chair and table storage. Fire doors to Code.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Carpet, modified for sound reduction.
Walls:	Painted drywall, modified for sound reduction.
Ceiling:	Painted drywall, modified for sound reduction.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 501 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Performance

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: Yes
Audio: Yes, with microphone system.
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.17
Space Name Volunteer Coordinator

IDENTIFICATION

Program Area
 March 06 Program NSF 55
Floor Level: 3F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1
Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception
ADA Access: ADA access required
Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.18
Space Name Retail Shop Manager

IDENTIFICATION

Program Area FOH
March 06 Program NSF 60
Floor Level: 1F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 1 visitor.
Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Gift Shop sales floor, no public access

Secondary Adjacency: Retail Stockroom

Separations: Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: No public access, Staff: from Gift Shop/BOH circulation

ADA Access: ADA access required

Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft, preferably 10-12 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required; exterior laminated; heat rejection tint.
Doors:	Glazed double exterior/interior public access doors, able to accommodate anti-theft barriers, with door closers and panic hardware. Fire doors to Code.
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Wood or hard surface, or TBD
Walls:	Painted drywall
Ceiling:	Painted drywall
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special: Panic button at cash desk

LIGHTING:

Lighting - level: 501 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Display lighting; task lighting at sales desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	Yes
Intercom:	No
Public address:	BOH
Computers:	Yes
TV/Video:	No
Slide/Film Projection:	No
Audio:	Yes
Communications - show relay:	No
Communications - CCTV:	No
Communications - Data:	Computerized cash system (cash register) networked to Retail system.
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts, card access TBD; cabinet and display locks
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D1.20

Space Name Food Service Coordinator: contracting food service as required

IDENTIFICATION

Program Area

March 06 Program NSF 55

Floor Level: 3F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.25

Space Name Chief of Security (contracting other security staff)

IDENTIFICATION

Program Area

March 06 Program NSF 60

Floor Level: 1F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.26
Space Name Finance Coordinator

IDENTIFICATION

Program Area
March 06 Program NSF 75
Floor Level: 3F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended
Collections Present: No
Occupancy: 1; up to 1 visitor.
Occupancy Unit Area, Net Sq Ft: 75

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception
ADA Access: ADA access required
Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.30

Space Name Marketing and Media Director

IDENTIFICATION

Program Area

March 06 Program NSF 75

Floor Level: 3F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 75

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.31

Space Name Membership Secretary

IDENTIFICATION

Program Area

March 06 Program NSF 55

Floor Level: 3F

OPERATIONAL

Functional Comments In Landscape Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1

Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.32

Space Name Development Coordinator

IDENTIFICATION

Program Area

March 06 Program NSF 60

Floor Level: 3F

OPERATIONAL

Functional Comments Private Office

Usual Period of Use: Extended

Collections Present: No

Occupancy: 1; up to 1 visitor.

Occupancy Unit Area, Net Sq Ft: 60

Critical Adjacencies Centralized administrative areas

Secondary Adjacency: Office support

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD; Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.33**Space Name** Reception/Waiting**IDENTIFICATION****Program Area**

March 06 Program NSF 180

Floor Level: 3F**OPERATIONAL****Functional Comments** Serves Offices & Boardroom A1.11**Usual Period of Use:** 8 am to 6 pm**Collections Present:** No**Occupancy:** Up to 1 staff, 2 visitors**Occupancy Unit Area, Net Sq Ft:** 60**Critical Adjacencies** Centralized with offices & A1.11**Secondary Adjacency:** Office support.**Separations:** Public area, Galleries, Collections, Building Services; Food Preparation**Primary Access:** From BOH/Admin Circulation**ADA Access:** ADA access required**Restrictions:** Visitors must check in at Staff Entrance and be accompanied. May also be open when other offices are closed, by arrangement with Security.**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	Yes, double-glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	Privacy; drapes or blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes, centralized telephone exchange located here.
Intercom: Yes, access to intercom systems.
Public address: BOH
Computers: Yes
TV/Video: Yes
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Lock on coat closet door.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.36
Space Name IT Server Room

IDENTIFICATION

Program Area BOH
March 06 Program NSF 90
Floor Level: 3F

OPERATIONAL

Functional Comments Computer Server Room and storage

Usual Period of Use: Extended
Collections Present: No
Occupancy: Up to 2 occasional
Occupancy Unit Area, Net Sq Ft: 45

Critical Adjacencies Centralized with offices

Secondary Adjacency: Non-Public circulation

Separations: Public area, Galleries, Collections, Building Services

Primary Access: Staff: from offices

ADA Access: ADA access required

Restrictions: No public access except visitors, suppliers and contractors by appointment and accompanied at all times

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services
Insulation:	
Fenestration:	None
Doors:	Double hollow-core metal doors.
Vibration:	To office standard
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Vinyl sheet flooring
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, via BAS computer
Heating/Cooling:	Human Comfort Standard, emergency backup
Air Filtration:	Human Comfort Standard
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No; no sources of water leakage into room.

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special: Compressed air provisions

Other:

ELECTRICAL:

Power General: Power outlets at baseboard and alternate over counters, with data lines, at 6 ft intervals

Power - outlets: Quad boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes, networked all Museum systems.
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, key/card access.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.37

Space Name Mailroom/ Photocopy/ Document production

IDENTIFICATION

Program Area ADM

March 06 Program NSF 135

Floor Level: 3F

OPERATIONAL

Functional Comments Support for admin activities

Usual Period of Use:

Collections Present: No

Occupancy: Up to 2 occasional

Occupancy Unit Area, Net Sq Ft: 68

Critical Adjacencies Centralized with offices

Secondary Adjacency: Staff entrance

Separations: Public areas, Galleries, Collections

Primary Access: From Admin offices

ADA Access: ADA access required

Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Double solid core metal doors
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Painted concrete, or drywall with protective wainscot.
Ceiling:	Painted concrete, or drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	Yes

Fresh Air: Yes
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.38
Space Name Office Supplies

IDENTIFICATION

Program Area ADM
March 06 Program NSF 45
Floor Level: 3F

OPERATIONAL

Functional Comments Lockable storage for office supplies

Usual Period of Use:

Collections Present: No
Occupancy: NA
Occupancy Unit Area, Net Sq Ft: 45

Critical Adjacencies Combine D1.38, D1.39, D1.40

Secondary Adjacency: Staff entrance

Separations: Public areas, Galleries, Collections

Primary Access: From Admin offices
ADA Access: ADA access required
Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double solid core metal doors

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete, or Linoleum sheet flooring

Walls: Painted concrete, or drywall with protective wainscot.

Ceiling: Painted concrete, or drywall or acoustic tile.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	No
Intercom:	No
Public address:	No
Computers:	Yes
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D1.39

Space Name Central Files

IDENTIFICATION

Program Area ADM

March 06 Program NSF 55

Floor Level: 3F

OPERATIONAL

Functional Comments Lockable storage for admin, HR and Finance files

Usual Period of Use:

Collections Present: No

Occupancy: NA

Occupancy Unit Area, Net Sq Ft: 55

Critical Adjacencies Combine D1.38, D1.39, D1.40 in one 145 sq. ft. space

Secondary Adjacency: Staff entrance

Separations: Public areas, Galleries, Collections

Primary Access: From Admin offices

ADA Access: ADA access required

Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double solid core metal doors

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete, or Linoleum sheet flooring

Walls: Painted concrete, or drywall with protective wainscot.

Ceiling: Painted concrete, or drywall or acoustic tile.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D1.40
Space Name Curatorial Files

IDENTIFICATION

Program Area ADM
March 06 Program NSF 45
Floor Level: 2F

OPERATIONAL

Functional Comments Lockable storage for exhibit and collection files

Usual Period of Use:

Collections Present: No
Occupancy: NA
Occupancy Unit Area, Net Sq Ft: 45

Critical Adjacencies Combine D1.38, D1.39, D1.40 in one 145 sq. ft. space OR add to Registration/Photo Files, depending on office location

Secondary Adjacency: Staff entrance

Separations: Public areas, Galleries, Collections

Primary Access: From Admin offices OR from Collections Offices

ADA Access: ADA access required

Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double solid core metal doors

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete, or Linoleum sheet flooring

Walls: Painted concrete, or drywall with protective wainscot.

Ceiling: Painted concrete, or drywall or acoustic tile.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D2.4

Space Name Board/Exec. Director Pantry/ Storage

IDENTIFICATION

Program Area FOH

March 06 Program NSF 50

Floor Level: 3F

OPERATIONAL

Functional Comments

Usual Period of Use: Extended

Collections Present: No

Occupancy: 2 at one time, occasional

Occupancy Unit Area, Net Sq Ft: 50

Critical Adjacencies Executive Offices, Boardroom, Reception

Secondary Adjacency: Other offices

Separations: Public area, Galleries, Collections, Building Services; Visual separation from Executive Director's Office

Primary Access: From Boardroom and Reception

ADA Access: ADA access required

Restrictions: Executive Director and visitors only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Single solid core wood door with door closer
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum sheet
Walls:	Painted drywall, tile backsplash
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	Yes

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Hot and cold water service and drainage to sinks.
Plumbing - fixtures:	Large double sink
Plumbing - water supply:	Drinking water and hot water supply
Plumbing - drinking fountain:	
Plumbing - drainage:	Yes
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Duplex
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	BOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D2.6
Space Name Staff First Aid Emergency

IDENTIFICATION

Program Area FOH
March 06 Program NSF 45
Floor Level: 2F

OPERATIONAL

Functional Comments Industrial first aid room to Code

Usual Period of Use: Extended
Collections Present: No
Occupancy: 2
Occupancy Unit Area, Net Sq Ft: 22

Critical Adjacencies Workshops, Loading Docks, Staff Entrance

Secondary Adjacency: BOH Circulation.

Separations: Visual separation from Lobby; Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: BOH Circulation.
ADA Access: ADA access required
Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology.

Fenestration: None

Doors: Single hollow metal doors, with door closers, with privacy screens or vestibules at entries.

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Linoleum sheet.

Walls: Painted drywall.

Ceiling: Painted drywall.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Human Comfort Standard

Air Filtration: Yes

Humidity Control: No

Exhaust: No

Fresh Air:	Yes
Room Pressure:	Positive
Plumbing General:	Hot and cold water service to sink
Plumbing - fixtures:	Sink, Eyewash station
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Yes, sink drain and floor drain with backflow preventers
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Outlets both at baseboard and above counter
Power - outlets:	Duplex / Quad
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Up to 500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.
Lighting - other:	Task light at counter
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	Yes
Intercom:	Yes, to Security
Public address:	BOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	Yes
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Cameras scan outside space
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number **D2.7**

Space Name **Staff Washrooms/ Changing/Lockers (Male & Female)**

IDENTIFICATION

Program Area	FOH	
March 06 Program NSF		135
Floor Level:	2F	

OPERATIONAL

Functional Comments Includes toilets, showers, lockers, changing area; 1 male, 1 female

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:		2
Occupancy Unit Area, Net Sq Ft:		68

Critical Adjacencies Staff Entrance

Secondary Adjacency: BOH Circulation.

Separations: Visual separation from Lobby; Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: BOH Circulation.

ADA Access: ADA access required

Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	No
Doors:	Single hollow metal doors, with door closers, with privacy screens or vestibules at entries.
Vibration:	To office standard
Privacy/Blackout:	Privacy in Toilet cubicles.
Acoustical:	NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Ceramic tile with coved corners
Walls:	Painted drywall or ceramic tile.
Ceiling:	Painted drywall or ceramic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	No
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	Yes, to operate continuously during public hours.

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Hot and cold water service to Public Washroom fixtures and faucets.
Plumbing - fixtures:	Sinks, toilets and urinals
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drain with backflow preventor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience power outlets and supply to hot air dryer etc
Power - outlets:	Duplex
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Up to 500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	BOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Cameras scan outside space
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	D2.8
Space Name	Volunteer Room/Day Lockers

IDENTIFICATION

Program Area	BOH	
March 06 Program NSF		50
Floor Level:	1F	

OPERATIONAL

Functional Comments Locker Room for site and museum volunteers

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:	Up to 3 at one time; 30 half size lockers	
Occupancy Unit Area, Net Sq Ft:		15

Critical Adjacencies Staff Entrance

Secondary Adjacency: BOH Circulation.

Separations: Public area, Galleries, Collections, Building Services

Primary Access: BOH Circulation.

ADA Access: ADA access required

Restrictions: No Public Access. Barrier-free access. May also be open when offices or Exhibit spaces are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology.

Fenestration: Daylight preferred

Doors: Single hollow metal doors, with door closers.

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Vinyl Tile

Walls: Painted drywall.

Ceiling: Painted drywall or acoustic tile

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: Yes, Room Thermostat

Heating/Cooling: Human Comfort Standard

Air Filtration: Human Comfort Standard

Humidity Control: No

Exhaust: Yes, to operate for 60 seconds when door is opened or closed.

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Quad boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -5000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes - pay phone
Intercom: No
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Cameras scan outside space

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D2.9
Space Name Staff/Volunteer Lounge

IDENTIFICATION

Program Area BOH
March 06 Program NSF 180
Floor Level: 3F

OPERATIONAL

Functional Comments Lunchroom for staff and volunteers

Usual Period of Use: Extended
Collections Present: No
Occupancy: 6
Occupancy Unit Area, Net Sq Ft: 30

Critical Adjacencies Offices

Secondary Adjacency: Office Support.

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Reception/Waiting.

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied. Barrier-free access. May also be open when offices or Exhibit spaces are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height: Minimum 8 ft. clear height below ducting and other services.

Insulation: Best available technology.

Fenestration: Daylight preferred

Doors: Single solid core wood door with door closer.

Vibration: To office standard

Privacy/Blackout: Yes, privacy when door closed only.

Acoustical: NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.

Structural - other:

MATERIAL & FINISHES:

Floor: Carpet

Walls: Painted drywall or acoustic tile

Ceiling: Acoustic tile

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: Yes, Room Thermostat

Heating/Cooling: Human Comfort Standard

Air Filtration: Human Comfort Standard

Humidity Control: No

Exhaust: No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: From varied sources: indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch. Task Lighting: Table lamps.

Lighting - dimmable: Yes

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes and staff payphone
Intercom: No
Public address: BOH
Computers: No
TV/Video: Yes, rough-in only
Slide/Film Projection: No
Audio: No
Communications - show relay: Yes

Communications - CCTV: Yes
Communications - Data: Computer hook-up
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D2.10
Space Name Staff Kitchenette

IDENTIFICATION

Program Area FOH
March 06 Program NSF 45
Floor Level: 3F

OPERATIONAL

Functional Comments Coffee/tea preparation, warming facilities, refrigeration

Usual Period of Use: Extended
Collections Present: No
Occupancy: 2 at one time, occasional
Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Staff Lounge

Secondary Adjacency: Office support.

Separations: Public area, Galleries, Collections, Building Services; Visual separation from Executive Director's Office

Primary Access: From Staff/Volunteer Lounge
ADA Access: ADA access required
Restrictions: Executive Director and visitors only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Single solid core wood door with door closer
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum sheet
Walls:	Painted drywall, tile backsplash
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	No

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Hot and cold water service and drainage to sinks.
Plumbing - fixtures:	Large double sink
Plumbing - water supply:	Drinking water and hot water supply
Plumbing - drinking fountain:	
Plumbing - drainage:	Yes
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Quad boxes
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	No
Intercom:	No
Public address:	BOH
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	Yes
Extinguishers:	Yes
General Notes:	

Room Number D2.11

Space Name Staff/Volunteer Washrooms (Male & Female)

IDENTIFICATION

Program Area FOH
March 06 Program NSF 135
Floor Level: 3F

OPERATIONAL

Functional Comments Includes toilets, handwash, vanity; 75 F, 60 M

Usual Period of Use: Extended
Collections Present: No
Occupancy: 2
Occupancy Unit Area, Net Sq Ft: 60-75

Critical Adjacencies On each floor level with offices or workspace

Secondary Adjacency: Admin Circulation.

Separations: Visual separation from Lobby; Galleries, Collections, Admin, Building Services, Food Preparation, Garbage Disposal

Primary Access: From Admin offices OR from Collections Offices
ADA Access: ADA access required
Restrictions: May be open when galleries or offices are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	No
Doors:	Single hollow metal doors, with door closers, with privacy screens or vestibules at entries.
Vibration:	To office standard
Privacy/Blackout:	Privacy in Toilet cubicles.
Acoustical:	NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Ceramic tile with coved corners
Walls:	Painted drywall or ceramic tile.
Ceiling:	Painted drywall or ceramic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	No
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Yes
Humidity Control:	Yes
Exhaust:	Yes, to operate continuously during public hours.

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Hot and cold water service to Public Washroom fixtures and faucets.
Plumbing - fixtures:	Sinks, toilets and urinals
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Floor drain with backflow preventor.
Plumbing - special:	
Other:	
ELECTRICAL:	
Power General:	Convenience power outlets and supply to hot air dryer etc
Power - outlets:	Duplex
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	Up to 500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/ protected room switches
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700-4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: No
Intercom: No
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV:
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Cameras scan outside space

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.1
Space Name General Storage

IDENTIFICATION

Program Area FOH
March 06 Program NSF 180
Floor Level: 2F

OPERATIONAL

Functional Comments Storage for maintenance supplies and equipment

Usual Period of Use: Extended
Collections Present: No
Occupancy: NA
Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Maintenance areas

Secondary Adjacency: FOH/BOH Circulation

Separations: Galleries, Collections, Performance spaces; Visual separation from public spaces

Primary Access: FOH/BOH Circulation
ADA Access:
Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Single solid core metal door

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete, or Linoleum sheet flooring

Walls: Painted concrete, or drywall with protective wainscot.

Ceiling: Painted concrete, or drywall or acoustic tile.

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	No
Intercom:	No
Public address:	No
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D3.2

Space Name Resource Center Book & Periodicals Storage

IDENTIFICATION

Program Area FOH

March 06 Program NSF 45

Floor Level: 2F

OPERATIONAL

Functional Comments Resource Center support space

Usual Period of Use: Extended

Collections Present: No

Occupancy: NA

Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Resource Center B1.6, Registration and Collections Workroom

Secondary Adjacency: FOH/BOH Circulation

Separations: Galleries, Collections, Performance spaces; Visual separation from public spaces

Primary Access: FOH/BOH Circulation

ADA Access:

Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Single solid core metal door
Vibration:	None permitted
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Painted concrete, or drywall with protective wainscot.
Ceiling:	Painted concrete, or drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	No
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.3**Space Name** Resource Center Workroom**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 125**Floor Level:** 2F**OPERATIONAL****Functional Comments** Resource Center support space**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** Up to 2**Occupancy Unit Area, Net Sq Ft:** 50**Critical Adjacencies** Resource Center B1.6, Registration and Collections Workroom**Secondary Adjacency:** Office support, IT Server**Separations:** Public area, Galleries, Collections, Building Services; Food Preparation**Primary Access:** From BOH/Admin Circulation**ADA Access:** ADA access required**Restrictions:** Visitors must check in at Staff Entrance and be accompanied. Barrier-free access. May also be open when offices or Exhibit spaces are closed.**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	None
Doors:	Double solid core wood or hollow metal doors with door closers.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	High quality finishes.
Floor:	Carpet
Walls:	Painted drywall. Folding wall with acoustic insulation.
Ceiling:	Painted drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power outlets at baseboard and alternate over counters, with data lines, at 6 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special: UPS

LIGHTING:

Lighting - level: Daylight 1000 lux maximum; Artificial 500 lux maximum.

Lighting - source: Mixed

Lighting - dimmable: Yes

Lighting - control: Centralized/ room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: Yes
Slide/Film Projection: No
Audio: Yes
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Glass breakage detectors.

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.4

Space Name Website/Digitizing Lab

IDENTIFICATION

Program Area

March 06 Program NSF 125

Floor Level: 2F

OPERATIONAL

Functional Comments Resource Center support space

Usual Period of Use: Extended

Collections Present: No

Occupancy: Up to 2

Occupancy Unit Area, Net Sq Ft: 50

Critical Adjacencies Resource Center B1.6, Registration and Collections Workroom

Secondary Adjacency: Office support, IT Server

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Admin Reception

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	None
Doors:	Single solid core wood door.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	Good-quality finishes.
Floor:	Carpet
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Levels
Air Filtration:	Human Comfort Levels
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Positive

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power outlets at baseboard and alternate over counters, with data lines, at 6 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special: UPS

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other: Task lighting at desk

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: Yes
Slide/Film Projection: No
Audio: Yes
Communications - show relay: No

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Desk drawer locks; computer password security

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.5**Space Name** AV Storage**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 90**Floor Level:** 1F**OPERATIONAL****Functional Comments** Storage for AV carts, portable equipment for events, etc.**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** NA**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Projection Booth D3.8**Secondary Adjacency:** Theatre, Non-Art Shipping/Receiving**Separations:** Physical, visual and acoustic separation from all other spaces except Multipurpose Theatre and Conference Rooms.**Primary Access:** Staff from Project/Audio Booth**ADA Access:** ADA access required**Restrictions:** No Public Access. Barrier-free access to ADA Code.
May also be open when offices or Exhibit spaces are closed.**Access/Adjacency Comments:** Rear of Theatre Auditorium**ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	None
Doors:	Double hollow-core metal doors.
Vibration:	None permitted
Privacy/Blackout:	No
Acoustical:	NC 45; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete or vinyl sheet flooring
Walls:	Painted drywall with protective wainscot
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	Yes, to 55% RH.
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special: Compressed air provisions

Other:

ELECTRICAL:

Power General: Convenience power outlets at waist level at 12 ft. intervals.

Power - outlets: Quad boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent, Spaced direct overhead lamps

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, key/card access.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number	D3.7
Space Name	Dressing Room

IDENTIFICATION

Program Area	BOH	
March 06 Program NSF		135
Floor Level:	1F	

OPERATIONAL

Functional Comments Performers and speakers dressing room

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:	Up to 3	
Occupancy Unit Area, Net Sq Ft:		45

Critical Adjacencies Freedom Theater B1.1

Secondary Adjacency: Non-Public circulation

Separations: Public area, Galleries, Collections, Building Services

Primary Access: Non-Public circulation

ADA Access: ADA access required

Restrictions: Visitors must check in at Staff Entrance and be accompanied. Barrier-free access. May also be open when offices or Exhibit spaces are closed.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Daylight preferred
Doors:	Single solid core wood door with door closer.
Vibration:	To office standard
Privacy/Blackout:	Yes, privacy when door closed only.
Acoustical:	NC 35; articulation-loss-of-consonants from public address system /A/V not to exceed 15%. Variable acoustic separation from the theatre.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Carpet
Walls:	Painted drywall or acoustic tile
Ceiling:	Acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Multiple quad boxes

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: From varied sources: indirect lighting (fluorescent) and spaced direct overhead lamps on separate switch. Task Lighting: Table lamps.

Lighting - dimmable: Yes

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes and staff payphone
Intercom: Yes, from Projection Booth and Backstage
Public address: BOH
Computers: No
TV/Video: Yes, rough-in only
Slide/Film Projection: No
Audio: No
Communications - show relay: Yes

Communications - CCTV: Yes
Communications - Data: Computer hook-up
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.8
Space Name Projection/Audio Booth

IDENTIFICATION

Program Area AUD
March 06 Program NSF 70
Floor Level: 1F

OPERATIONAL

Functional Comments Multimedia and 35 mm projection support for the Freedom Theater

Usual Period of Use: Extended
Collections Present: No
Occupancy: Up to 2, occasional
Occupancy Unit Area, Net Sq Ft: 35

Critical Adjacencies Freedom Theater B1.1 or adjacent lobby - no public access

Secondary Adjacency: Non-Public circulation

Separations: Physical, visual and acoustic separation from all other spaces except Multipurpose Theatre and Conference Rooms.

Primary Access: Non-Public circulation; visual access to the Theater
ADA Access: ADA access required
Restrictions: No Public Access. Barrier-free access to ADA Code. May also be open when offices or Exhibit spaces are closed.

Access/Adjacency Comments: Rear of Theatre Auditorium

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Special acoustic/optical glass windows into Theatre
Doors:	Single solid core wood door with door closer.
Vibration:	None permitted
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 15; articulation-loss-of-consonants from public address system /A/V not to exceed 15%. Variable acoustic separation from the theatre.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Vinyl sheet flooring
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Room Thermostat
Heating/Cooling:	Better than Human Comfort Standard to allow for equipment heat build-up
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals.
 Other electrical service for Theater to be specified by Theater Designer. UPS and surge protection requirement TBD by Theater Designer.

Power - outlets: Multiple quad boxes
Power - 3 phase: TBD
Power - special: ISO / Production outlets / disconnects/ UPS
LIGHTING:
Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: Yes
Lighting - control: Centralized/ Room Switch plus dimmer panels in Projection Booth.

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other: Controls for Production lighting system DMX & ethernet control
EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes, from Dressing Room, Backstage, Reception, Security
Public address: BOH
Computers: Yes
TV/Video: Yes
Slide/Film Projection: Yes
Audio: Yes, theater sound control panel
Communications - show relay: Yes

Communications - CCTV: Yes
Communications - Data: Yes
Communications - other: TBD Theater Consultant

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.10

Space Name Special Event Furniture Storage

IDENTIFICATION

Program Area FOH

March 06 Program NSF 150

Floor Level: 3F

OPERATIONAL

Functional Comments Storage for chairs, tables, podium, risers etc.

Usual Period of Use: Extended

Collections Present: No

Occupancy: NA

Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Accessible to Lobby, Rental space

Secondary Adjacency: FOH/BOH Circulation

Separations: Galleries, Collections, Performance spaces; Visual separation from public spaces

Primary Access: FOH/BOH Circulation

ADA Access:

Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Double solid core metal doors
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Painted concrete, or drywall with protective wainscot.
Ceiling:	Painted concrete, or drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	No
Intercom:	No
Public address:	No
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D3.11
Space Name Education Prep Room

IDENTIFICATION

Program Area BOH
March 06 Program NSF 135
Floor Level: 2F

OPERATIONAL

Functional Comments Prep area for education program materials with built-in storage

Usual Period of Use: 8 am to 6 pm
Collections Present: Yes
Occupancy: 2-4, occassional use
Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Activity Classroom A1.14, access to galleries

Secondary Adjacency: FOH/BOH Circulation

Separations: Public area, Galleries, Collections, Building Services

Primary Access: From Activity Classroom
ADA Access: ADA access required
Restrictions: No public access except visitors, suppliers and contractors by appointment and accompanied at all times

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: 200 lbs/sf. where heavy crates or exhibit elements are moved or stored.

Ceiling Height:	Minimum 13 ft clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	None except in doors; Wire-reinforced shatterproof tempered glass.
Doors:	Double hollow metal doors 6 ft wide x 9 ft high; with 3" viewing window 18" high with bottom of window 54" from floor; security hardware required.
Vibration:	To office standard
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 40; articulation-loss-of-consonants from public address system /A/V not to exceed 15%.
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with Linoleum sheet/tile covering.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	Exhaust fan, infrequent use

Fresh Air: Yes
Room Pressure: Negative
Plumbing General: Utility sink

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage: Floor drains, trench type with flush covers and backflow preventors.

Plumbing - special: Plaster traps on sink, Compressed air provisions

Other:

ELECTRICAL:

Power General: Power outlets at baseboard level at 12 ft intervals

Power - outlets: Multiple quad boxes

Power - 3 phase: 30A

Power - special:

LIGHTING:

Lighting - level: 499 lux (50 FC) from all sources

Lighting - source: Fluorescent lights directed to reflect off ceilings; at least 2 ft clearance between storage units and fixtures.

Lighting - dimmable: No

Lighting - control:

Lighting - quality:

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, key/card access.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double solid core metal doors.

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Linoleum sheet flooring

Walls: Painted concrete

Ceiling: Painted concrete

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: Yes, direct to outdoors

Fresh Air: Yes
Room Pressure: Negative
Plumbing General: Yes

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Electrical supply TBD for Cold Room. Power outlets at baseboard level at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double hollow core metal 2-way swing doors with viewing windows

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Hardened and sealed or painted concrete, or Linoleum sheet flooring

Walls: Preferably hardened and sealed or painted concrete

Ceiling: Preferably hardened and sealed or painted concrete

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: Yes, direct to outdoors

Fresh Air:	Yes
Room Pressure:	Positive to Cafe.
Plumbing General:	Hot and cold water service to restaurant-style sinks and dishwashing equipment, and hand washing.
Plumbing - fixtures:	Ice machine, Large double sink
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Specialized commercial Kitchen-type floor drain with backflow preventor.
Plumbing - special:	Drain with fat collector
Other:	
ELECTRICAL:	
Power General:	Electrical supply TBD. Power outlets at baseboard and alternate over counters at 6 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	Yes
Power - special:	30A / 60A
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes, supplied by contractor.
Intercom: Yes, to Delivery Door
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Yes, supplied by contractor.
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: Yes
Extinguishers: Yes
General Notes: Heat detectors required at cooking areas

Room Number D3.14
Space Name Catering Set up Area

IDENTIFICATION

Program Area BOH
March 06 Program NSF 135
Floor Level: 3F

OPERATIONAL

Functional Comments Set up and plating area for catered events.

Usual Period of Use: Extended
Collections Present: No
Occupancy: Up to 4 moving through space
Occupancy Unit Area, Net Sq Ft: 30

Critical Adjacencies Restaurant A1.18, Reception/Rental space

Secondary Adjacency: Non-Public circulation, Garbage Disposal

Separations: Galleries, Performance Areas, Retail areas, Collections, Restrooms

Primary Access: FOH/BOH Circulation
ADA Access: ADA access required
Restrictions: Staff only

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Double hollow core metal 2-way swing doors with viewing windows
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Preferably hardened and sealed or painted concrete
Ceiling:	Preferably hardened and sealed or painted concrete
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	Yes
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	Yes, direct to outdoors

Fresh Air:	Yes
Room Pressure:	Positive to Cafe.
Plumbing General:	Hot and cold water service to restaurant-style sinks and dishwashing equipment, and hand washing.
Plumbing - fixtures:	Large double sink
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	
Plumbing - drainage:	Specialized commercial Kitchen-type floor drain with backflow preventor.
Plumbing - special:	Drain with fat collector
Other:	
ELECTRICAL:	
Power General:	Electrical supply TBD. Power outlets at baseboard and alternate over counters at 6 ft intervals
Power - outlets:	Multiple quad boxes
Power - 3 phase:	Yes
Power - special:	30A / 60A
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes, supplied by contractor.
Intercom: Yes, to Delivery Door
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: Yes

Communications - CCTV: See Surveillance
Communications - Data: Building / inventory net
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: Yes
Extinguishers: Yes
General Notes: Heat detectors required at cooking areas

Ceiling Height: Minimum 8 ft clear height below ducting and other services.

Insulation: Best available technology

Fenestration: No

Doors: Double solid core metal doors

Vibration: To office standard

Privacy/Blackout: No

Acoustical: NC 45

Structural - other:

MATERIAL & FINISHES:

Floor: Linoleum sheet flooring

Walls: Painted concrete, or drywall with protective wainscot

Ceiling: Painted concrete, or drywall or acoustic tile

Fire Rating: To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control: No

Heating/Cooling: Utility Standard

Air Filtration: Utility Standard

Humidity Control: No

Exhaust: No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: No
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: Building / inventory net
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	Door viewing windows to have wire-reinforced shatterproof tempered glass.
Doors:	Double hollow metal doors 6ft wide x 9ft high; viewing windows approx. 3 inches wide x 18 inches high, with bottom of window to be 54 inches above floor; security hardware required.
Vibration:	To office standard
Privacy/Blackout:	Blackout capability
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with vinyl sheet/tile covering.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	Yes
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power outlets at work counter at 6 ft intervals and at baseboard at 12 ft intervals

Power - outlets: Multiple quad boxes

Power - 3 phase: No

Power - special:

LIGHTING:

Lighting - level: 499 lux (50 FC) from all sources

Lighting - source: Fluorescent, Spaced direct overhead lamps

Lighting - dimmable: No

Lighting - control: Local

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts, key/card access.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft clear height below ducting and other services
Insulation:	
Fenestration:	None
Doors:	Double hollow-core metal doors.
Vibration:	To office standard
Privacy/Blackout:	Blackout capability; No daylight
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Vinyl sheet flooring
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, via BAS computer
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	Yes, to 55% RH.
Exhaust:	No

Fresh Air: Yes, CO₂ sensor
Room Pressure: Negative
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special: Compressed air provisions

Other:

ELECTRICAL:

Power General: Convenience power outlets at waist level at 12 ft. intervals. Charger for battery-powered lifts etc TBD.

Power - outlets: Quad boxes

Power - 3 phase:

Power - special: Charger for battery-operated lift equipment TBD

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent, Spaced direct overhead lamps

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts, key/card access.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.25**Space Name** Exhibit Case/Prop Storage**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 180**Floor Level:** 2F**OPERATIONAL****Functional Comments****Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** NA**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Through access to Galleries**Secondary Adjacency:** FOH/Non-Public circulation**Separations:** Galleries, Collections, Performance spaces; Visual separation from public spaces**Primary Access:** FOH/BOH Circulation**ADA Access:****Restrictions:** Staff only**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Single solid core metal door
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Painted concrete, or drywall with protective wainscot.
Ceiling:	Painted concrete, or drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL IV - Perimeter Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, viewing windows to adjacent interior and exterior space TBD, with safety glass, double-glazing, exterior laminated, heat rejection tint. Pass-through windows TBD.
Doors:	Single solid core metal doors
Vibration:	To office standard
Privacy/Blackout:	Blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum tile flooring
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No

Exhaust: Yes, to toilet, to operate for 60 seconds when door is opened or closed.

Fresh Air:	Yes
Room Pressure:	Positive to corridor and outdoors.
Plumbing General:	Hot and cold water service to toilet fixtures and faucets.
Plumbing - fixtures:	Sink, toilet, eye wash station
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	No
Plumbing - drainage:	No
Plumbing - special:	No
Other:	
ELECTRICAL:	
Power General:	Electrical service must serve extensive computerized building and security/safety systems. Separate electrical control panels for security and fire safety panels may be required (TBD final security system design). Power outlets at baseboard level and/or o
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	UPS
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	Yes
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K.if daylight allowed.
Lighting - other:	Task lighting at CCTV screens
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: Yes, with separate lines for alarm and fire systems
Intercom: Yes, all systems, central control and overrides
Public address: BOH/FOH, all systems, central control and overrides
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: Yes
Communications - show relay: Yes

Communications - CCTV: No
Communications - Data: Yes - multiple lines
Communications - other: No

SECURITY/SAFETY:
Security Level: LEVEL III - Secure Area
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system, controlled and monitored from this point. Cameras outside Security Office scan exits.

Security Hardware: Combined key/card access.

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, viewing windows to adjacent interior and exterior space TBD, with safety glass, double-glazing, exterior laminated, heat rejection tint. Pass-through windows TBD.
Doors:	Single solid core metal doors
Vibration:	To office standard
Privacy/Blackout:	Blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum tile flooring
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	No

Fresh Air:	Yes
Room Pressure:	Positive to corridor and outdoors.
Plumbing General:	Hot and cold water service to toilet fixtures and faucets.
Plumbing - fixtures:	
Plumbing - water supply:	
Plumbing - drinking fountain:	Yes
Plumbing - drainage:	
Plumbing - special:	Floor drain with backflow preventor.
Other:	
ELECTRICAL:	
Power General:	Electrical service must serve extensive computerized building and security/safety systems. Separate electrical control panels for security and fire safety panels may be required (TBD final security system design). Power outlets at baseboard level and/or o
Power - outlets:	Multiple quad boxes
Power - 3 phase:	
Power - special:	UPS
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	Yes
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K.if daylight allowed.
Lighting - other:	Task lighting at CCTV screens
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone:	Yes, with separate lines for alarm and fire systems
Intercom:	Yes, to Security, both Loading Docks
Public address:	BOH/FOH, emergency only
Computers:	Yes
TV/Video:	No
Slide/Film Projection:	No
Audio:	Yes
Communications - show relay:	Yes
Communications - CCTV:	See Surveillance
Communications - Data:	Yes
Communications - other:	Secure voice and visual communications between users and Security Control
SECURITY/SAFETY:	
Security Level:	LEVEL III - Secure Area
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras both outside building and inside Staff Entrance, with voice and visual communication to Security
Security Hardware:	Exterior door requires 6-pin tumbler deadbolt lock or vertically firing panic hardware with magnetic switch and electric strike; NRP hinges; security light; buzzer.
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number	D3.29
Space Name	Staff Entrance

IDENTIFICATION

Program Area	BOH	
March 06 Program NSF		45
Floor Level:	GF	

OPERATIONAL

Functional Comments Waiting area with check-in counter to Security Booth.

Usual Period of Use:	Extended	
Collections Present:	No	
Occupancy:		2
Occupancy Unit Area, Net Sq Ft:		22

Critical Adjacencies Ideally 1 location only, at Security Booth D3.28.

Secondary Adjacency: Parking or Drop-off

Separations: Garbage Disposal and Recycling, Food Deliveries, Building Services

Primary Access: BOH Circulation and from Outdoors

ADA Access: ADA access required

Restrictions: Access control via Security Control Room - remote door release, key/card door release, pass-through window for ID, parcel examination area TBD.

Access/Adjacency Comments:

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: Live load to Code or 100 lbs/sf.

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, viewing windows to adjacent interior and exterior space TBD, with safety glass, double-glazing, exterior laminated, heat rejection tint. Pass-through windows TBD.
Doors:	Single solid core metal doors
Vibration:	To office standard
Privacy/Blackout:	Blinds for excess sun.
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Linoleum tile flooring
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes
Room Pressure: Positive to corridor and outdoors.
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience power outlets at 12 ft intervals at baseboard level

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	Staff Payphone
Intercom:	Yes, to Security, Reception
Public address:	BOH, emergency only
Computers:	Yes
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	Yes
Communications - Data:	Yes
Communications - other:	Secure voice and visual communications between users and Security Control
SECURITY/SAFETY:	
Security Level:	LEVEL IV - Perimeter Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras both outside building and inside Staff Entrance, with voice and visual communication to Security
Security Hardware:	Exterior door requires 6-pin tumbler deadbolt lock or vertically firing panic hardware with magnetic switch and electric strike; NRP hinges; security light; buzzer. Interior door requires key/card access control plus remote door release (from Security).
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D3.30**Space Name** Non-Art Shipping/Receiving**IDENTIFICATION****Program Area** BOH**March 06 Program NSF** 125**Floor Level:** GF**OPERATIONAL****Functional Comments** Receiving and temporary storage for deliveries, garbage removal route**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** 2 vehicle and 1 dumpster bay; Work crew of up to 4 occasionally**Occupancy Unit Area, Net Sq Ft:** TBD**Critical Adjacencies** Non-Art Loading Dock D3.31, Package Control and Security D3.28**Secondary Adjacency:** Through access to Collections areas (Packing Studio), Galleries, and Performance spaces**Separations:** Garbage Disposal and Recycling, Food Deliveries, Building Services**Primary Access:** From outdoors and from Non-Art Shipping/Receiving**ADA Access:** NA**Restrictions:** Public access restricted to special visitors, fine art movers, suppliers and contractors accompanied and supervised by staff at all times. Keys to be issued to restricted list of staff, and to be logged by Security. Barrier-free access. Ramps to be provided**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** TBD Architects per vehicle weight requirements

Ceiling Height:	Minimum 16 ft. clear height under cover.
Insulation:	Best available technology.
Fenestration:	None except in Personnel Doors and viewing window from Security Control.
Doors:	Double hollow metal doors 6ft wide x 9ft high; viewing windows approx. 3 inches wide x 18 inches high, with bottom of window to be 4 ½ ft above floor; security hardware required.
Vibration:	To office standard
Privacy/Blackout:	NA
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed. The Loading Dock floor must allow the trailer box floors of parked trucks to be level.
Walls:	Hardened and sealed or painted concrete
Ceiling:	Sealed or painted concrete. Overhang: TBD architect
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	No
Heating/Cooling:	No
Air Filtration:	No
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes
Room Pressure: Postive to Outdoors
Plumbing General: No

Plumbing - fixtures: No
Plumbing - water supply: No
Plumbing - drinking fountain: No

Plumbing - drainage: Floor drains, trench type with flush covers and backflow preventers, at outside door

Plumbing - special:
Other:

ELECTRICAL:
Power General:

Power - outlets: Multiple quad boxes
Power - 3 phase:
Power - special:

LIGHTING:
Lighting - level: 501 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No
Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K.if daylight allowed.
Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	Yes
Intercom:	Yes, to Security
Public address:	BOH, emergency only
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	Yes
Communications - other:	Secure voice and visual communications between users and Security Control
SECURITY/SAFETY:	
Security Level:	LEVEL V - Site Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras both in Loading Dock and driveway and in Shipping/Receiving, with voice and visual communication to Security
Security Hardware:	Deadbolts or sliding bolts with padlocks, panic hardware, NRP hinges on overhead doors; man door requires 6-pin tumbler deadbolt lock or vertically firing panic hardware with magnetic switch and electric strike; NRP hinges; security light; buzzer.
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D3.32

Space Name Garbage Bins

IDENTIFICATION

Program Area BOH

March 06 Program NSF 0

Floor Level: GF

OPERATIONAL

Functional Comments Exterior, enclosed dumpster area. Accessible to garbage trucks.

Usual Period of Use: Extended

Collections Present: No

Occupancy: NA

Occupancy Unit Area, Net Sq Ft: NA

Critical Adjacencies Non-Art Loading Dock D3.31

Secondary Adjacency: FOH / Non-Public circulation

Separations: Public areas, Galleries, Collections

Primary Access: BOH Circulation

ADA Access: NA

Restrictions: Staff only; FOOD AND BATHROOM WASTE ONLY

Access/Adjacency Comments: CRITICAL TO SEPARATE "DIRTY" WASTE FROM MOVEMENT AND SHIPPING OF COLLECTIONS AND EXHIBITS

ARCHITECTURAL

BUILDING/ROOM CRITERIA:

Floor Loading: 200 lbs/sf for trucks

Ceiling Height:	Minimum 16 ft. clear height under cover. TBD architect
Insulation:	NA
Fenestration:	No
Doors:	Double hollow metal doors 6ft wide x 9ft high; viewing windows approx. 3 inches wide x 18 inches high, with bottom of window to be 4 ½ ft above floor; security hardware required.
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete
Walls:	Hardened and sealed or painted concrete
Ceiling:	Overhang: TBD architect
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL**MECHANICAL:**

Room Control:	No
Heating/Cooling:	No
Air Filtration:	No
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: NA

Plumbing General: Hot and cold water outdoor faucet and hose for cleanup.
Steam cleaner TBD.

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage: Outdoor drain with backflow preventor.

Plumbing - special:

Other:

ELECTRICAL:

Power General: Outdoor convenience outlets TBD

Power - outlets:

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Protected outdoor HID lamps

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL V - Site Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan dock area.

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services.
Insulation:	Best available technology.
Fenestration:	Yes, double glazing required, exterior laminated; heat rejection tint.
Doors:	Single solid core wood door.
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 35
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Carpet or Linoleum tile.
Walls:	Painted drywall
Ceiling:	Painted drywall or acoustic tile
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	Yes, Centralized BMS plus Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes
Room Pressure: Positive to corridor and outdoors.
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Electrical service must serve extensive computerized building systems. Power outlets at baseboard level and/or over counters at 3 ft. intervals; UPS and surge protection on all circuits for computer and A/V.

Power - outlets: Quad

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes, to Security
Public address: BOH
Computers: Yes
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: No
Communications - Data: Yes
Communications - other: Centralized computer system controlling all building systems, TBD Mechanical/Electrical Engineers

SECURITY/SAFETY:
Security Level: LEVEL V - Site Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only

Security Hardware: Deadbolts, card access TBD

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Ceiling Height:	Minimum 8 ft. clear height below ducting and other services
Insulation:	Best available technology.
Fenestration:	Door viewing windows to have wire-reinforced shatterproof tempered glass.
Doors:	Double hollow metal doors 6ft. wide x 9ft. high; viewing windows approx. 3 inches wide x 18 inches high, with bottom of window to be 54 inches above floor; security hardware required.
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Concrete slab with coved corners, hardened and sealed or with vinyl sheet/tile covering.
Walls:	Sealed or painted concrete preferred.
Ceiling:	Sealed or painted concrete preferred.
Fire Rating:	To Code; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:

Room Control:	Yes, Room Thermostat
Heating/Cooling:	Human Comfort Standard
Air Filtration:	Human Comfort Standard
Humidity Control:	Yes

Exhaust:	Exhaust fan, infrequent use
-----------------	-----------------------------

Fresh Air: Yes, CO₂ sensor
Room Pressure: Positive
Plumbing General: No

Plumbing - fixtures:
Plumbing - water supply:
Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Power outlets at baseboard level at 6 ft intervals

Power - outlets: Multiple quad boxes

Power - 3 phase: No

Power - special:

LIGHTING:

Lighting - level: Up to 500 lux working and photographic lights, with ambient light maximum 200 lux (20 FC) at 1 m.. above floor.

Lighting - source: Fluorescent lights directed to reflect off ceilings; at least 2 ft clearance between storage units and fixtures. safety in working conditions to be the over-riding factor. Capability to adjust to 200 lux (20 FC) at 3 ft above floor. UV filters on all lamp

Lighting - dimmable:

Lighting - control: Local

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 K if no daylight; 5000 K.if daylight allowed.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone: Yes
Intercom: Yes
Public address: BOH
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL V - Site Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes:

Room Number D3.35**Space Name** Janitorial - Central Storage**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 100**Floor Level:** 1F**OPERATIONAL****Functional Comments** Storage for floor washers, polishers, bulk housekeeping supplies**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** NA**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Non-Art Shipping/ Receiving D3-30, General Storage D3.1**Secondary Adjacency:** FOH/Non-Public circulation**Separations:** Galleries, Collections, Performance spaces; Visual separation from public spaces**Primary Access:** FOH/BOH Circulation**ADA Access:****Restrictions:** Staff only**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Single solid core metal door
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Painted concrete, or drywall with protective wainscot.
Ceiling:	Painted concrete, or drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	No

Fresh Air: Yes

Room Pressure: Negative

Plumbing General: No

Plumbing - fixtures:

Plumbing - water supply:

Plumbing - drinking fountain:

Plumbing - drainage:

Plumbing - special:

Other:

ELECTRICAL:

Power General: Convenience outlets at 12 ft intervals

Power - outlets: Duplex

Power - 3 phase:

Power - special:

LIGHTING:

Lighting - level: 500 lux (50 FC) from all sources

Lighting - source: Fluorescent

Lighting - dimmable: No

Lighting - control: Centralized/Room switch

Lighting - quality: CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.

Lighting - other:

EMERGENCY SYSTEMS: Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.

COMMUNICATIONS:

Telephone:	No
Intercom:	No
Public address:	No
Computers:	No
TV/Video:	No
Slide/Film Projection:	No
Audio:	No
Communications - show relay:	No
Communications - CCTV:	See Surveillance
Communications - Data:	No
Communications - other:	No
SECURITY/SAFETY:	
Security Level:	LEVEL V - Site Security
Surveillance:	Verified passive infrared motion detectors and CCTV cameras, or DAVID system. Cameras scan corridors only
Security Hardware:	Deadbolts
Sprinkler System:	Yes
Smoke Detectors:	Yes
Heat Detectors:	No
Extinguishers:	Yes
General Notes:	

Room Number D3.36**Space Name** Janitor's Closets**IDENTIFICATION****Program Area** FOH**March 06 Program NSF** 50**Floor Level:** 3F**OPERATIONAL****Functional Comments** 2 x 25 sf. Janitorial carts and supplies for quick cleanup**Usual Period of Use:** Extended**Collections Present:** No**Occupancy:** NA**Occupancy Unit Area, Net Sq Ft:** NA**Critical Adjacencies** Restaurant, Washrooms, Lobby**Secondary Adjacency:** FOH/Non-Public circulation**Separations:** Galleries, Collections, Performance spaces; Visual separation from public spaces**Primary Access:** FOH/BOH Circulation**ADA Access:****Restrictions:** Staff only**Access/Adjacency Comments:****ARCHITECTURAL****BUILDING/ROOM CRITERIA:****Floor Loading:** Live load to Code or 100 lb./sf.

Ceiling Height:	Minimum 8 ft clear height below ducting and other services.
Insulation:	Best available technology
Fenestration:	No
Doors:	Single solid core metal door
Vibration:	To office standard
Privacy/Blackout:	No
Acoustical:	NC 45
Structural - other:	
MATERIAL & FINISHES:	
Floor:	Hardened and sealed or painted concrete, or Linoleum sheet flooring
Walls:	Painted concrete, or drywall with protective wainscot.
Ceiling:	Painted concrete, or drywall or acoustic tile.
Fire Rating:	To Code or better; Smoke Density 0; Flame Spread 5; Fuel contributed 5.

TECHNICAL

MECHANICAL:	
Room Control:	No
Heating/Cooling:	Utility Standard
Air Filtration:	Utility Standard
Humidity Control:	No
Exhaust:	No

Fresh Air:	Yes
Room Pressure:	Negative
Plumbing General:	Yes, hot and cold water to floor sink
Plumbing - fixtures:	Floor Sink
Plumbing - water supply:	Yes
Plumbing - drinking fountain:	No
Plumbing - drainage:	Floor drain with backflow preventer in cleanup area.
Plumbing - special:	No
Other:	
ELECTRICAL:	
Power General:	Convenience outlets at 12 ft intervals
Power - outlets:	Duplex
Power - 3 phase:	
Power - special:	
LIGHTING:	
Lighting - level:	500 lux (50 FC) from all sources
Lighting - source:	Fluorescent
Lighting - dimmable:	No
Lighting - control:	Centralized/Room switch
Lighting - quality:	CRI: 85 Ra, 75 Rw; CCT 2700 -4000 K.
Lighting - other:	
EMERGENCY SYSTEMS:	Power to emergency and fire exit lighting to Code; fire alarms and security system 24 hours.
COMMUNICATIONS:	

Telephone: No
Intercom: No
Public address: No
Computers: No
TV/Video: No
Slide/Film Projection: No
Audio: No
Communications - show relay: No

Communications - CCTV: See Surveillance
Communications - Data: No
Communications - other: No

SECURITY/SAFETY:

Security Level: LEVEL V - Site Security
Surveillance: Verified passive infrared motion detectors and CCTV cameras, or DAVID system.
 Cameras scan corridors only

Security Hardware: Deadbolts

Sprinkler System: Yes
Smoke Detectors: Yes
Heat Detectors: No
Extinguishers: Yes
General Notes: