

A COLLECTION MUSEUM AND RESOURCE CENTER FOR THE VIETNAM VETERANS WASHINGTON, D.C.

Dedication

This thesis is dedicated to the veterans of the Vietnam War, with honor and memory of their service.

Rod Garrett

Rod Connett

Acknowledgements

I would like to thank my parents, George and Bonnie Garrett, for their support and confidence in me and my decisions. This thesis would not be possible without them.

A special thanks to Marty Jo Rogers, she has helped me through very trying times. It is through her I can see the light in the future, she is my best friend.

Thanks also to:

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Thanks also to Jim Knight, my thesis advisor, who has been an inspiration to me on my thesis and through outtomy formal education

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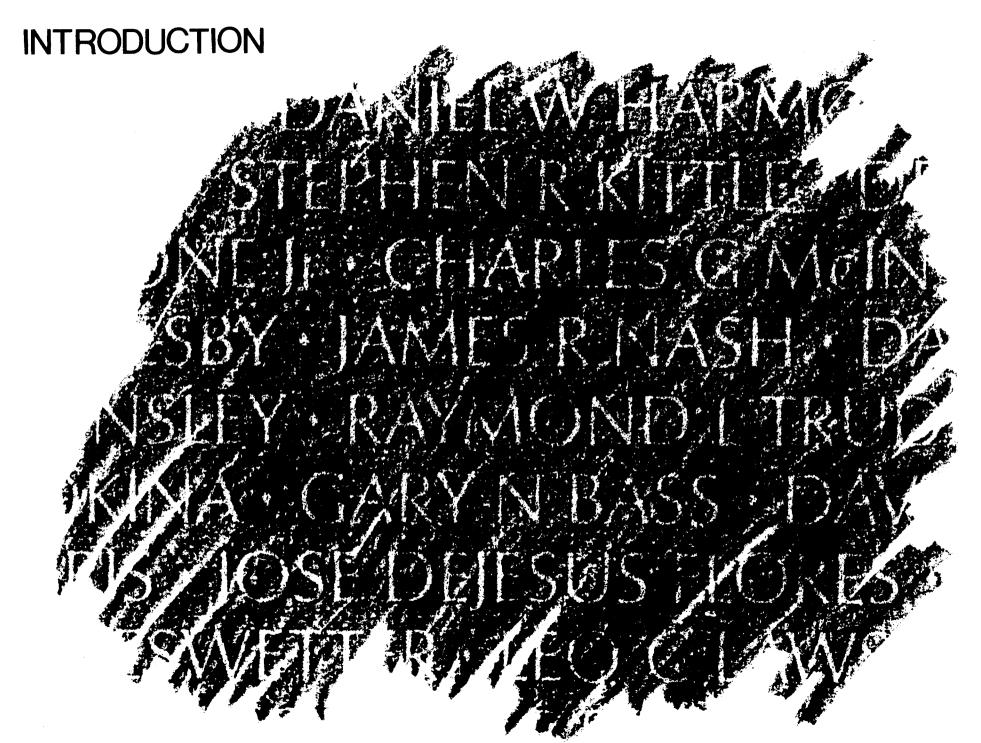
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INTRODUCTION

The Thesis

The thesis acts as a milestone, it is the final project of my formal education at Oklahoma State University, it is a culmination of all the architectural knowledge that I have induced. At the same time the thesis is a starting point into the architectural profession.

My primary goal was to select a project that presented a unique situation of designing for the emotions and feelings of the human being.

It is my thoughts that "true architecture " must be for the people who use and perceive it.

This resulted in my choice for designing a Museum and Resource Center for the Vietnam Veterans.

I felt this unique group of people needed a facility in which all people of the United States could take pride.

I also feel this project would present an exciting and challenging problem, to test my ability as a designer and architect.

The selected site is just off the mall in Washington, D.C. In close proximity to the Vietnam Veterans Memorial.

My challenge is to provide an extension for the people visiting the Vietnam Memorial, yet to act as a seperate entity, to not compete with the importance of the memorial and the other historic monuments in this area.

Mission Statement

From the beginning of the Vietnam War an air of uncertainty has screened the realities that face the Vietnam Veterans.

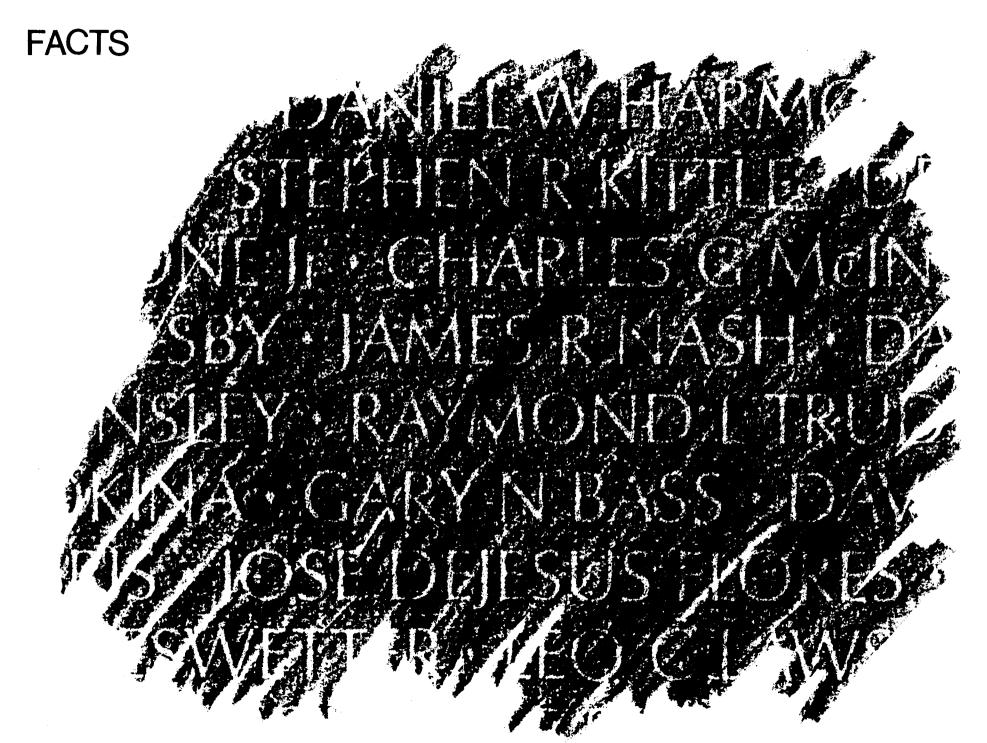
We cannot percieve the hardships that befell those who faught, nor can we explain why it happened.

It is our hope that this Complex will have a two fold purpose:

To serve as an eternal rememberance to those who served thier country, that they are no longer perceived as the forgotten soilders.

To serve as an educational tool to those who question, and to those who wish to become more knowledgeable about the Vietnam Veterans and the Vietnam War.

This Complex will atempt to meet those needs by providing the users of the Museum and Resource Center with the appropriate functions, that will serve as a vehicle for education, contemplation and personal enlightenment.



FACTS

Washington D.C.

History

Washington D.C. is one of the few cities in the world which was planned for one purpose...to be a national capital. Washington was, in truth, nothing more than a compromise. This compromise known as the Residence Act, was debated and passed on July 12, 1790 proposed seating the capital in a 10 mile square within a 75 mile stretch of the Potomac. The site located between the Potomac and Anacostia Rivers was chosen because of the proxcimity of two established cities or towns Alexandria and Georgetown and also because of its position at the head of a navigable river.

The choice of Pierre L'Enfant to plan the Capital City and George Washington's extensive familiarity with the natural features of the site gave rise to the L'Enfant Plan. With all his French and architecural origins, L'Enfant respect for the New World landscape was most evident in the way he interest in the countryside at large with his own European preferences for nature boldly restructed. The plan's open spaces included sites for memorials and other civic art, barracks and arsenals, cultural facilities, institutions such as hospitals, and some semi-public edifices as merchantile exchange and city markets. Streets and avenues were made broad so as to be park like, all of this open space constituted a single monumental network, not confined to a single core but providing evidence of the National Capital presence throughout the area defined by the river's intersection.

The McMillan Plan was concerned with reviving, refining and extending the L'Enfant Plan frame work in proportion to growth of the National Capital. The McMillan Plan of 1902 concerned itself with tow main problems: building a park system and grouping of public buildings. By connecting

History (cont.)

existing parkland and carrying the Capital's park system into the outlying areas of the district the plan established a systematic character for regional open space.

By grouping public buildings in formal landscape settings, the plan proposed a highly concentrated monumental core most conspicuously, the plan included a monumental mall composition to carry on the L'Enfant Plan, this established the mall much as it is now today.

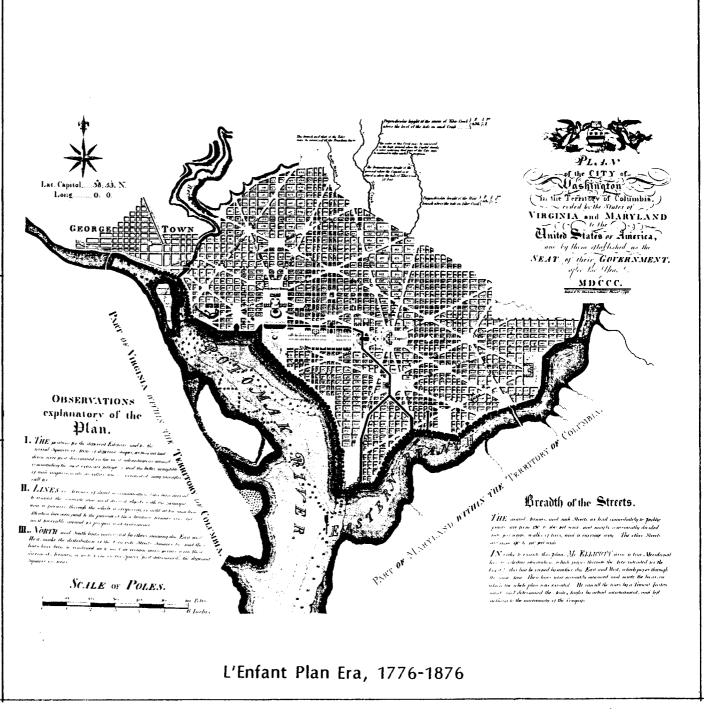
Today Washington D.C. is continuing the concepts established by the L'Enfant and McMillan Plans. By creating agencies such as the National Capital Park and Planning Commission and the Commission of Fine Arts the city is almost assured of continual growth in a manner fitting the United States Capital.

History (cont.)

THE L'ENFANT PLAN

This draft or "manuscript" plan developed a variety of interesting and functional waterfronts as one of the fundamental aspects of the over all city character.

Those who debated and passed the Residence Act of July 12, 1790, seating the Capitol in a 10 mile square within a 75 mile stretch of the Potomac River, may have seemed unconcerned with the physical character of the Federal Distric. Acually, thier was no great need to cite the two strongest advantages of the location. It's natural beauty and its position of the head of a navigable river.



History

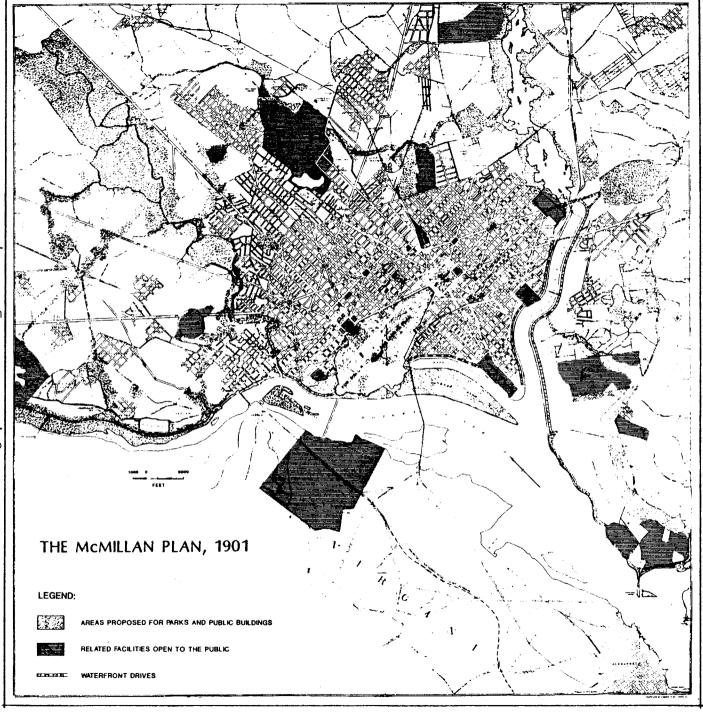
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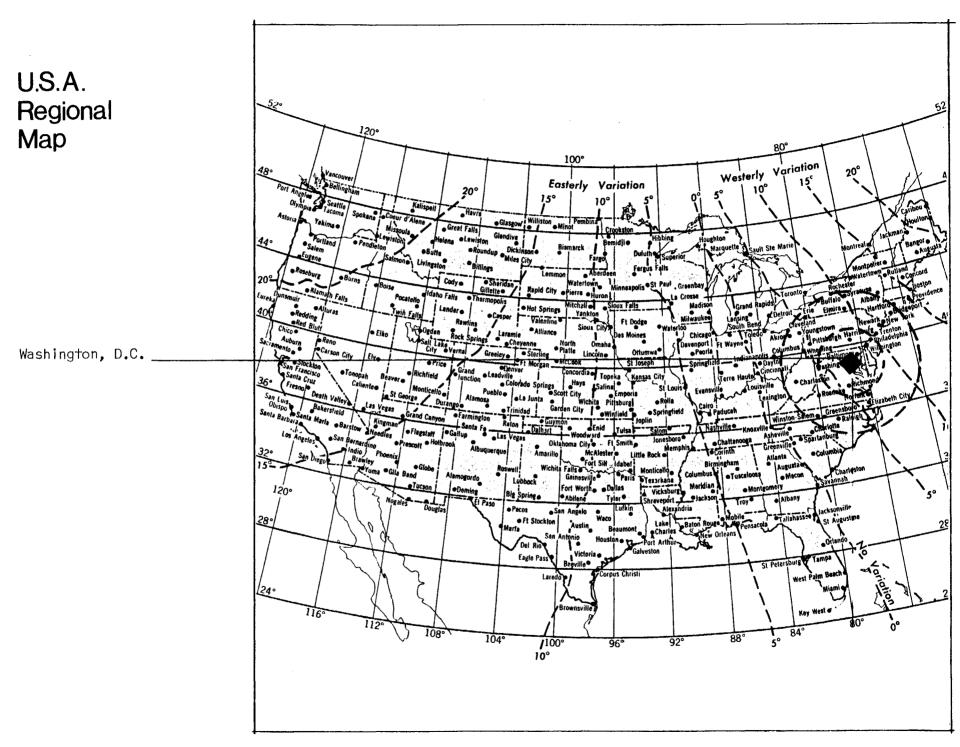
THE McMILLIAN PLAN

New waterfront quays which were developed to provide important connections and interesting activity between the larger park areas.

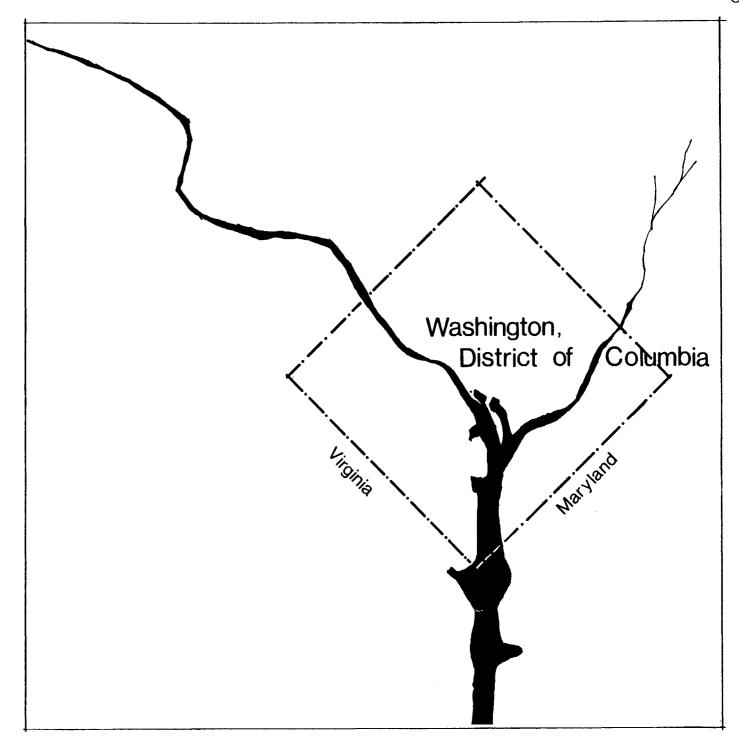
Public access was provided in the design of the city-wide park system as well as the individual river parks.

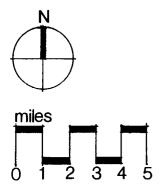
An important part of this system was a new parkway along the shores of the Potomac River, from Mt. Vernon to Great Falls.



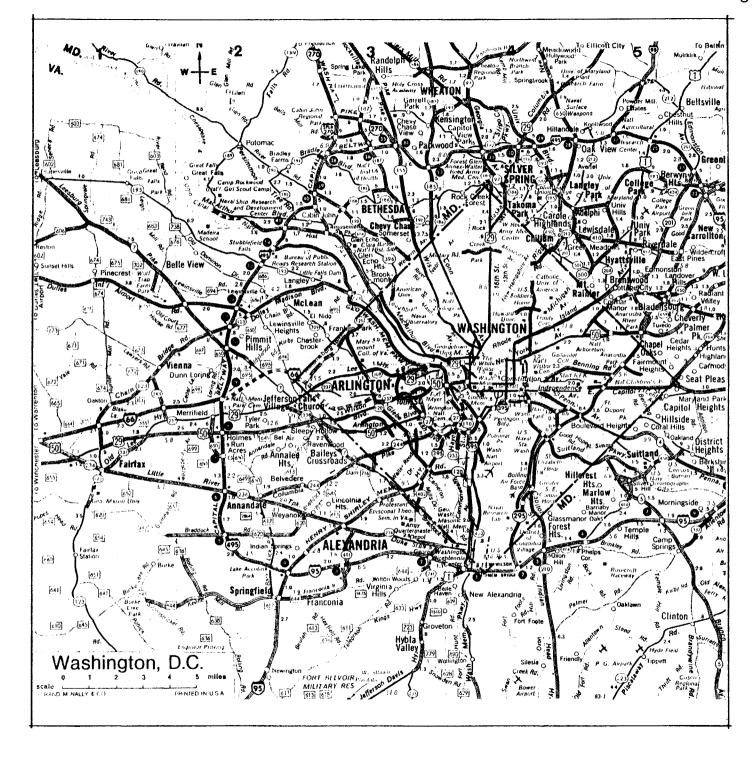


District Regional Map





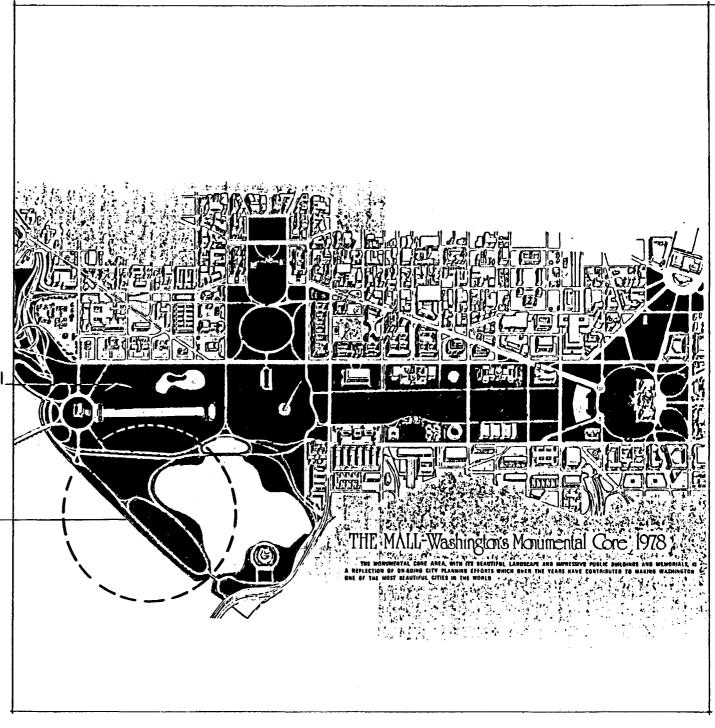
District Regional Traffic



The Mall

Vietnam Veterans Memorial_

Site for Museum and Resource Center



Site Analysis

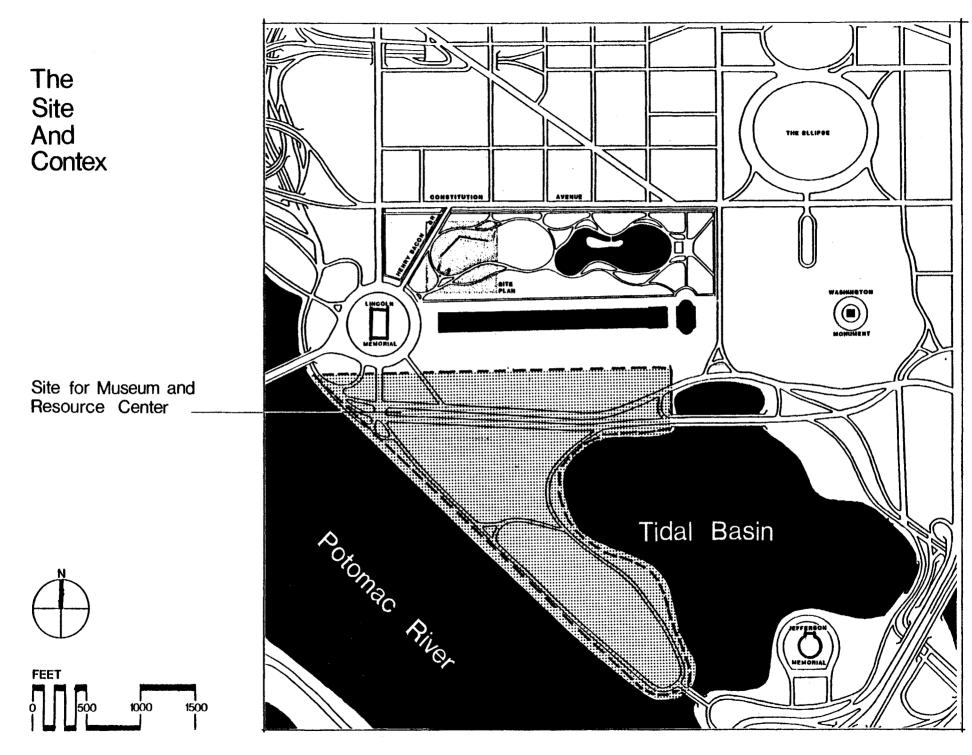
History Of The Site

Following an investigation by a Senate committee in 1881, Congress appropriated the first funds for the improvement of navigation of the Potomac and the reclamation of the Tidal flats and marshes west and south of the Washington Monument.

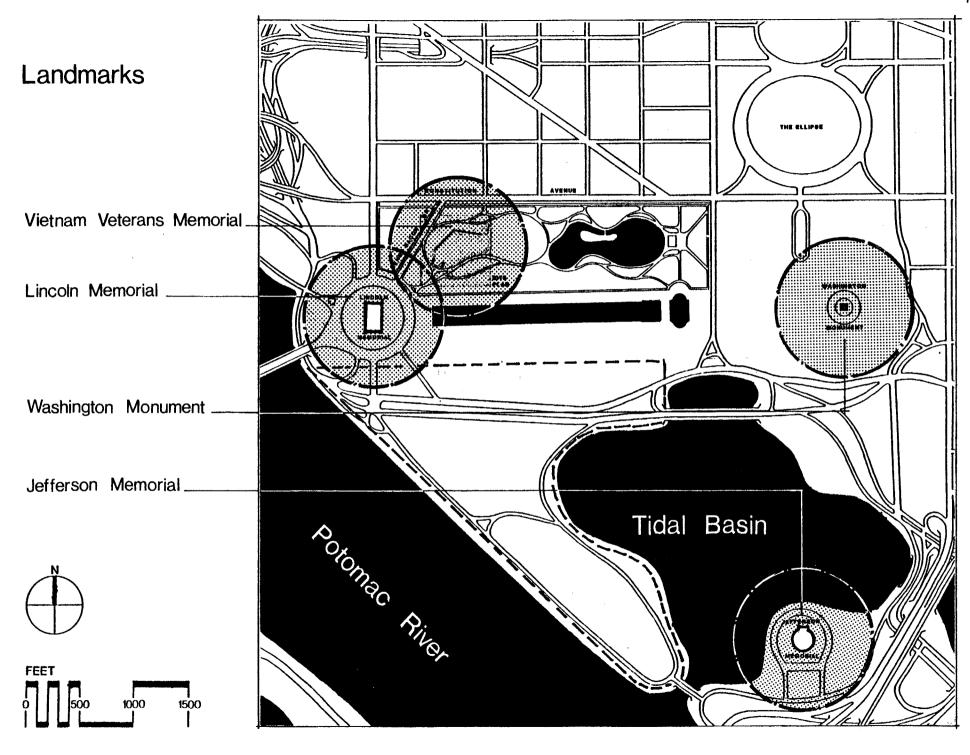
This project involved dredging the river channel and dumping the dredgings so as to fill the marsh area to a level several feet above high tide and flood level. The work proceeded over many years, but by the end of the century it had been substantially completed. An enormous area more than 600 acres in extent was reclaimed by this operation. Two separate tracts of land were created. To the south, stretching approximatily two miles long and parallel with the old shoreline of the Potomac River, the engineers created a new island, known as East Potomac Park. Between the island and the District shore lay the newly deepened Washington Channel, to prvide access to wharves and docks. To the north the fill area extended nearly a mile westward from the old water line which had reached almost to the foot of the Washington Monument. This area, West Potomac Park, also contained a narrow peninsula stretching south easterly almost to the tip of the island. In between these two reclaimed tracts the engineers found it necessary to create a tidal basin.

In 1982 a new "Comprehensive plan for the National Capital" was established. Within this plan there are several overall goals which can apply to the West Potomac Park area. These are:

- (1) PRESERVE THE IMPORTANT HISTORIC FEATURES OF THE NATIONAL CAPITAL WHILE PERMITTING NEW DEVELOPMENT WHICH IS RESPECTFUL OF THE EXISTING FEATURES.
- (2) CONSERVE THE NATURAL FEATURES AND RESOURCES OF THE NATIONAL CAPITAL AND INHANCE CULTURAL AND RECREATIONAL OPPORTUNITIES AND OPEN SPACE OF THE REGION.



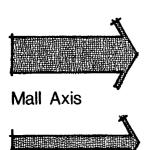
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A COLLECTION MUSEUM AND RESOURCE CENTER . FOR THE VIETNAM VETERANS . WASHINGTON ,D.C.

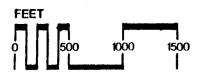
Axes Of The Site

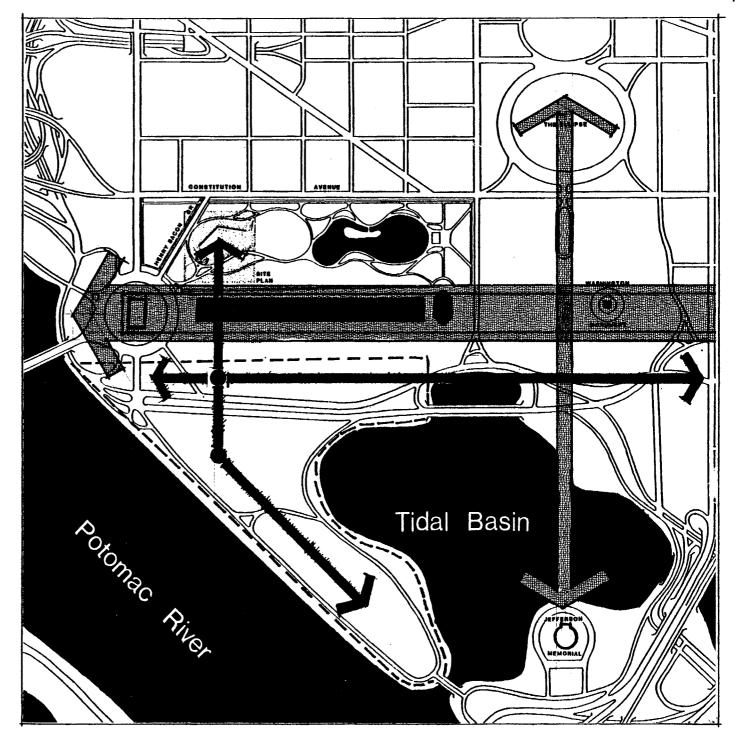




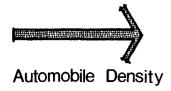
Cross Axis

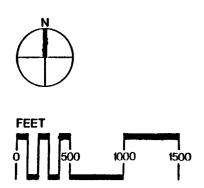


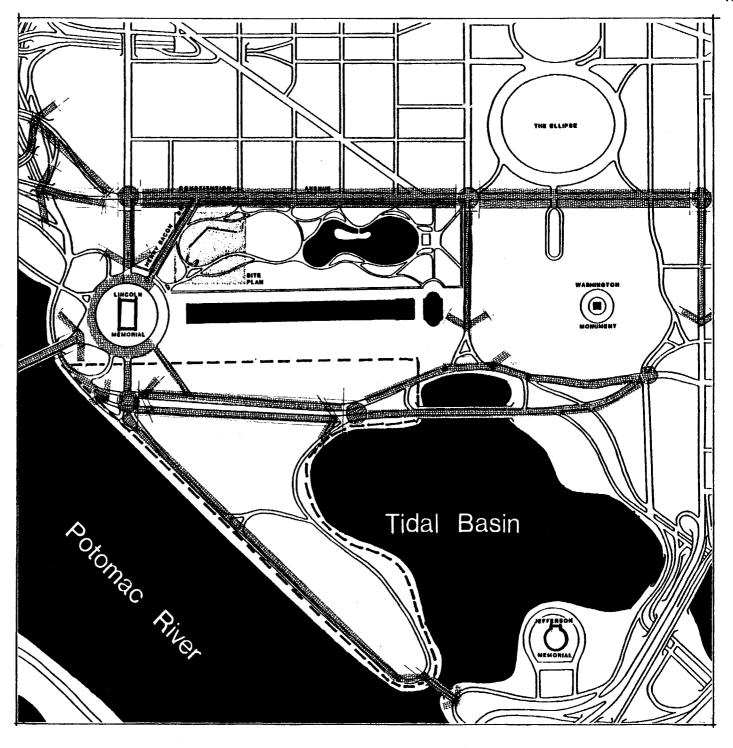




Automobile Traffic

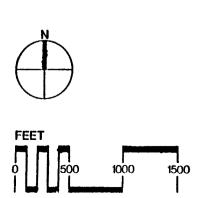


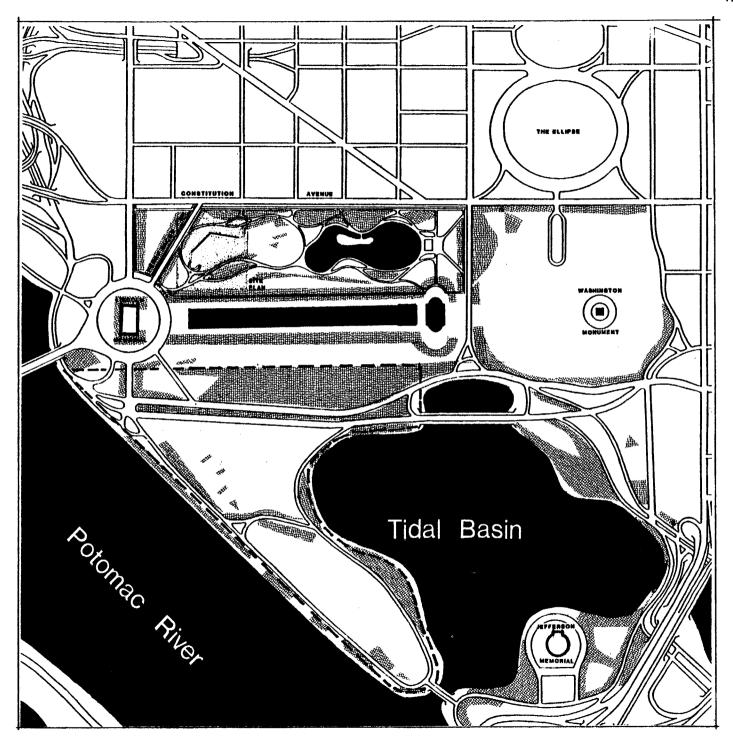




Existing Vegitation

Existing Trees



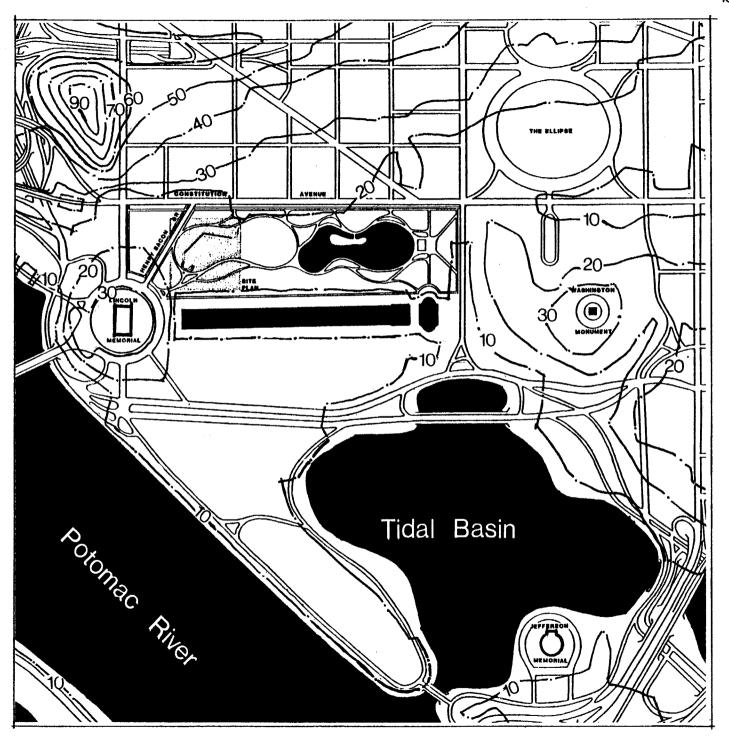


Topography

Contours at 10' intervals (above water level)

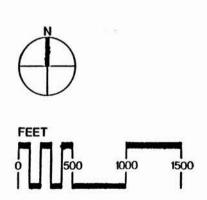


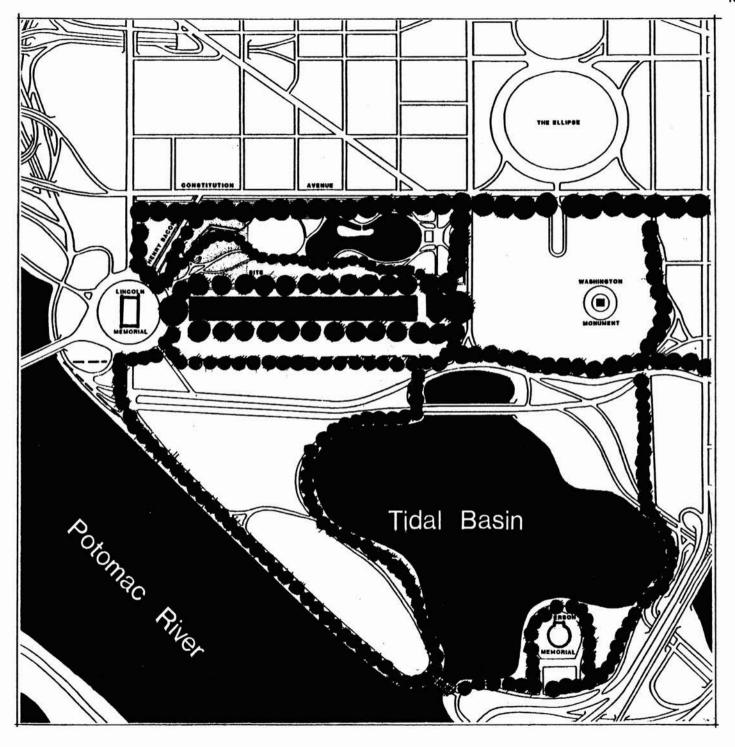
FEET



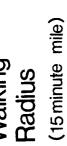
Pedestrian Traffic



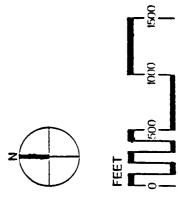




Walking Radius

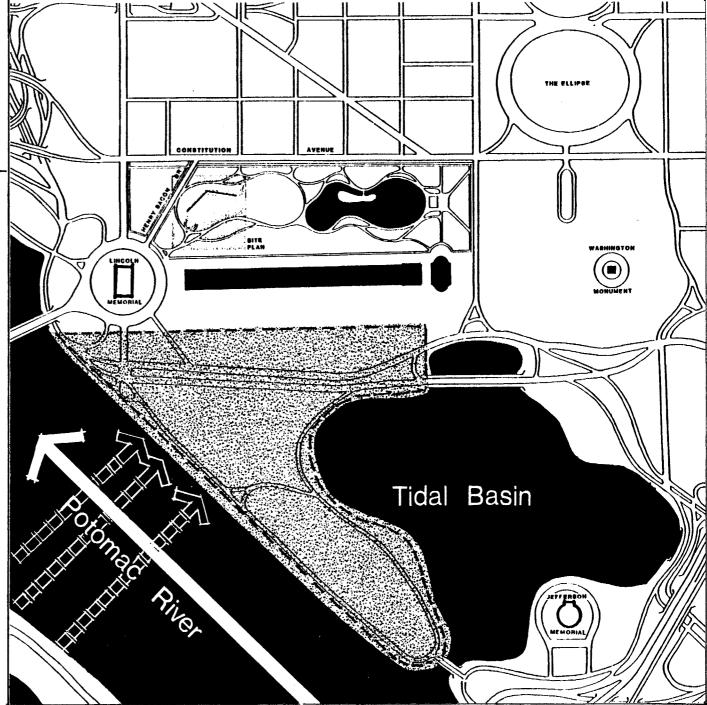


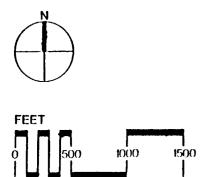




Noise

- A. Noise from automobiles travelling on the George Washington Memorial Parkway.
- B. Noise from airplanes, which take off from the National Airport, up the Potomac River.

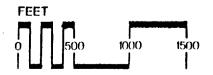


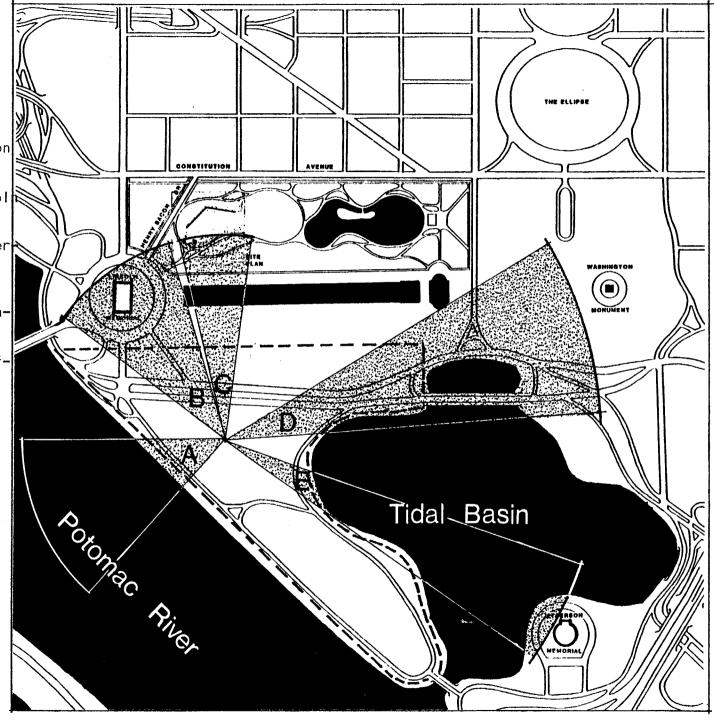


Views

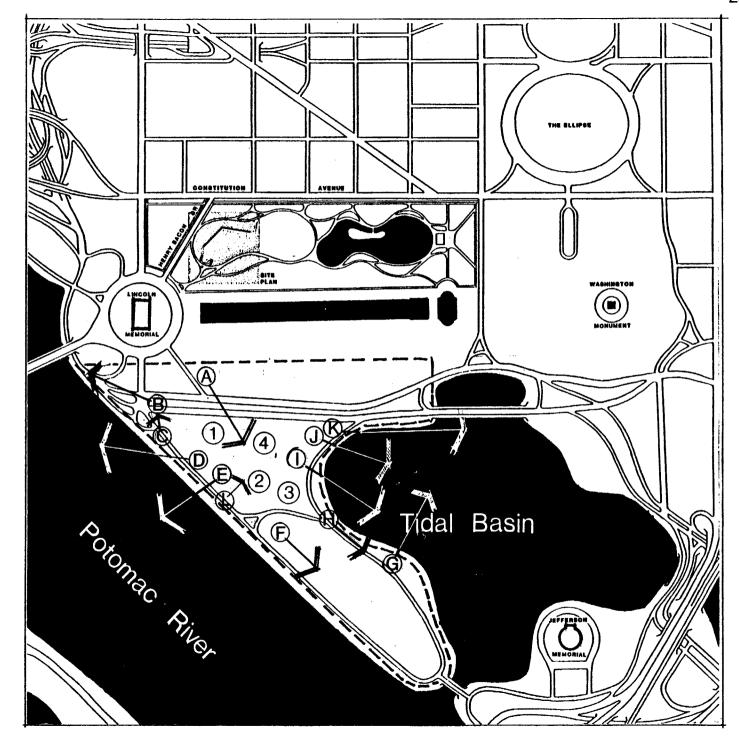
- A. Distant view to Arlington National Cemetary.
- B. Direct view of the Lincol Memorial, through trees.
- C. View to the Vietnam Veterans Memorial, through trees.
- D. Distant view to the Washington Monument.
- E. Distant view to the Jefferson Memorial.

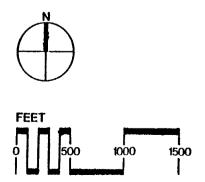






Photographic Survey





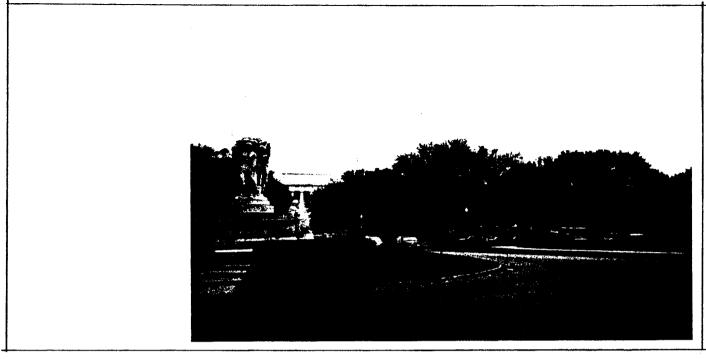
A. View from the edge of the site, near the Lincoln Memorial to the central site area.



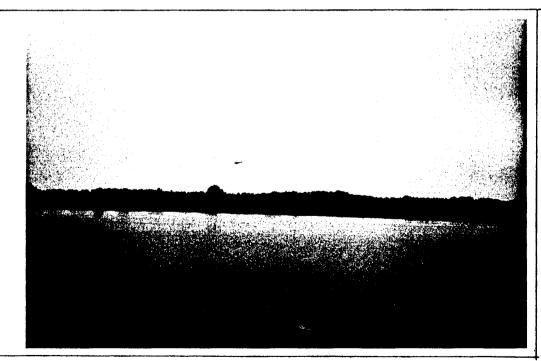
B. View from independence drive, near the Lincoln Memorial, across the Potomac River to Virginia



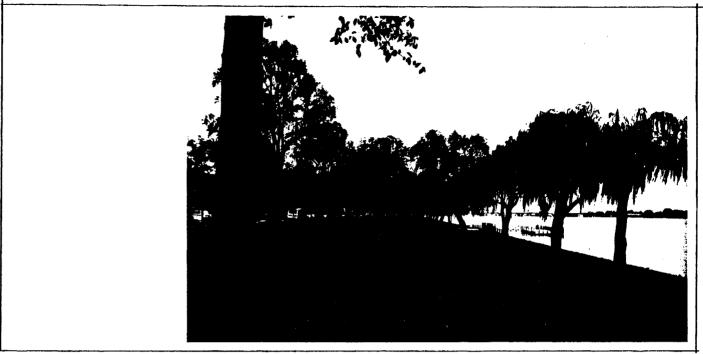
C. View from the coner of Ohio Drive and Inependence Avenue, towards the Lincoln Memorial.



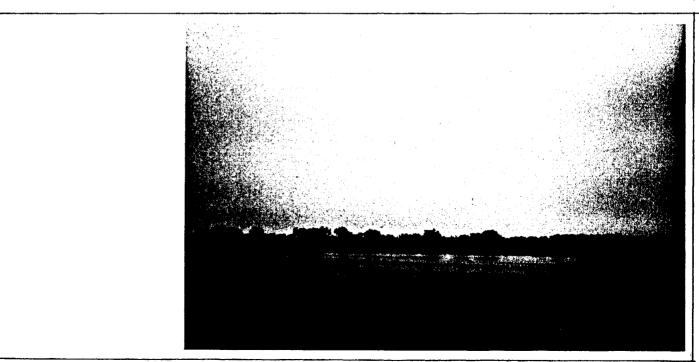
D. View across the River to George Washington Memorial Parkway. Notice Arlington Cemetary in very distant background.



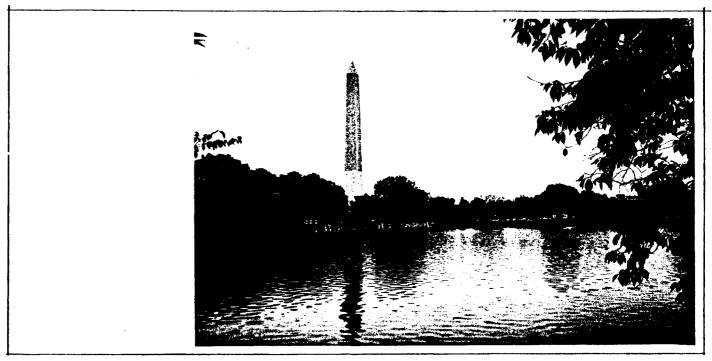
E. Walk along Ohio Drive.
Notice the George Mason
Memorial Bridge in the
background, across the
River.



F. View across the River, to George Memorial Parkway.



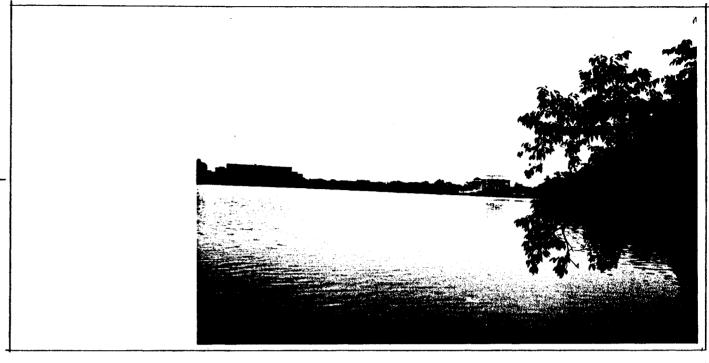
G. View within the Tidal Basin area, toward the Washington Monument.



H. Walk along the Tidal Basin.



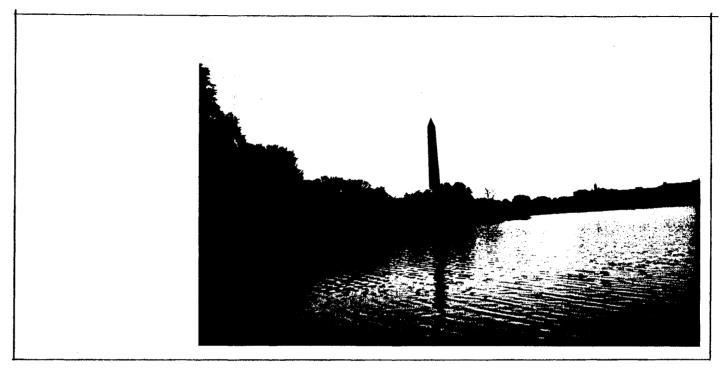
. View across the Tidal Basin to East Potomac Park, notice the Jefferson Memorial.



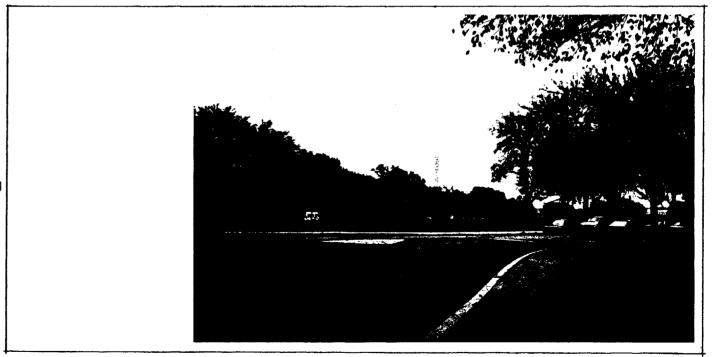
J. View across the Tidal Basin from the site, notice the spires of the Smithsonian Castle.



K. View across the Tidal Basin, from the site.



L. View from the interior portion of the site showing the vast opening of the interior site.



Climate Data

Climatic Summary

Washington lies at the western edge of the middle Atlantic costal plain, about 50 miles east of the Blue Ridge Mountains and 35 miles west of the Chesapeake Bay at the junction of the Potomac and Anacostia Rivers. Elevations range from a few feet above sea level to about 400 feet in parts of the northwest section of the city.

Summers are warm and winters mild; generally pleasant weather prevails in the spring and autumn. The coldest weather occurs in late January and early February. The warmest occurs in late July. There are no well pronounced wet and dry seasons. Thunderstorms, during the summer months, often bring sudden and heavy showers and may be attended by damaging winds, hail, and lightning.

Tropical disturbances occasionally, during thier northward passage, influence Washington's weather mainly with high winds and heavy rainfall, but extensive damage from wind and tidal flooding is very rare.

Snow accumulations of more than 10 inches are relatively rare. Usually the melt-off is rapid, but snow depths of 3 or more inches make driving hazardous, and slows or halts traffic. Schools may be closed and community activities may be temporarily disorganized, but usually conditions improve within a day or two. The first significant snow accumulation of a season is often the most disruptive. The greatest recorded snowfall from a single storm was 28 inches.

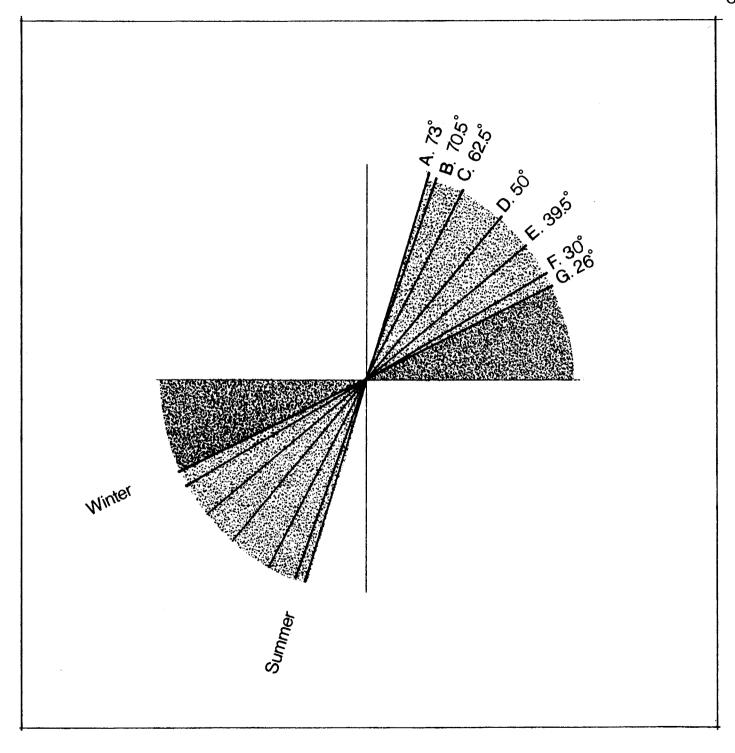
Records of the past 20 years show the average date of the last freezing temperature in the spring to be March 29 and the latest April 16. The average date of the first freezing temperature in the fall is November 10 and the earliest October 20.

Altitude Sun **Angles** (Latitude 40°)

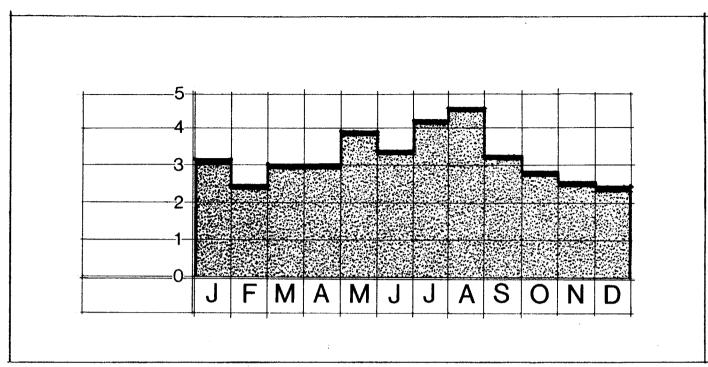
A. June

B. July/ May
C. August/ April
D. September/ March
E. October/ February
F. November/ January

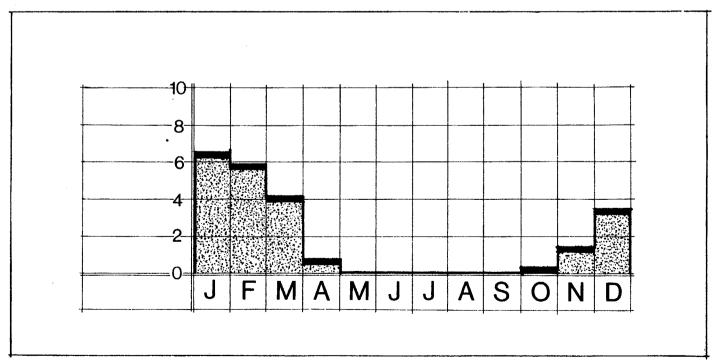
G. December



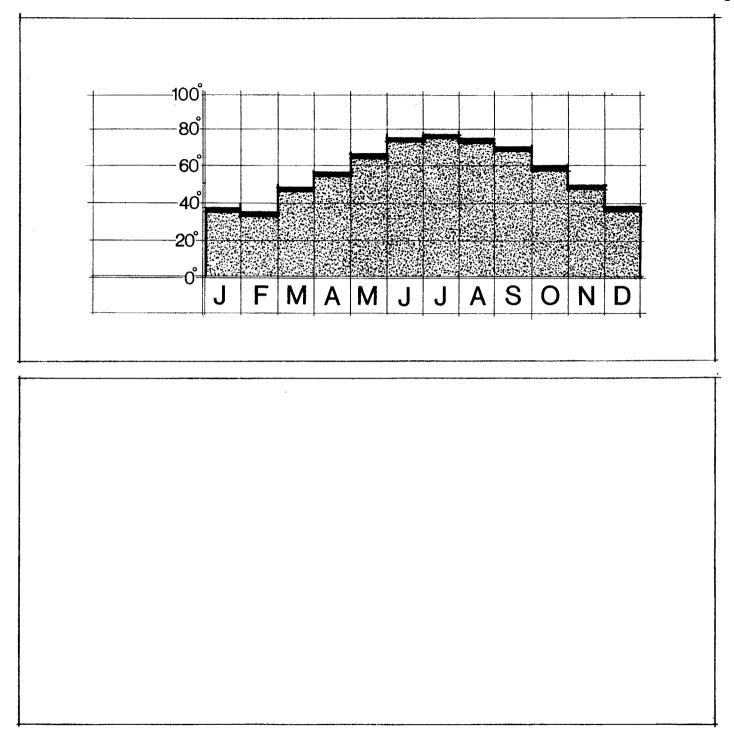
Annual Precipatation (inches)



Annual Snowfall (inches)



Annual Temperature Averages (F°)



Soils Summary

Geographically the site is located just below the fall line of the Potomac River. Originally, it was within the river bed, near the shore. Tiber Creek emptied into the Potomac about 3000 feet to the north. The Chesapeake and Ohio Canal passed near the site. By 1884 the site had been largely reclaimed but undeveloped; by 1914 it had been filled.

Soil borings reveal seven layers of strata, the bottom being a moderately to highly fractured rock. The Lincoln and Jefferson Memorials rest on this rock, the loads transferred via concrete pilings. The rock is from 45 to 55 feet below ground surface.

The six strata above the rock strata are a mixture of organic matter, silt, sand, gravel, and disintegrated rock. Ground water may be encountered depending on ground surface elevation. The nature of the soil may also cause verticle movement unless it is carefully stabilized, since ground water ground water levels fluctuate and since soils compact under load.



NEEDS

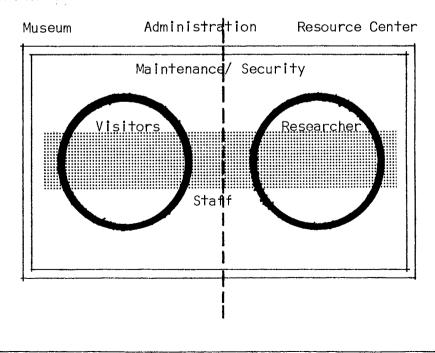
Users

The users of the Complex can be divided into four categories:

VISITORS
RESEARCHERS/ HISTORIANS
STAFF
SECURITY/ MAINTENANCE

Each user comes to the Complex for various reasons and therefore each have different perspectives and perceptions of the Complex.

USER DIAGRAM



Users

(cont.)

STAFF (administrative and professional)

- Director
- Assistant Director
- Administrative Officer
- 2-3 Clerk/ Secretary
- Supervisory Archivist (written material)
- Supervisory Archivist (audio visual)
- Archivist 6-7
- Archivist Technitions 6-7
- Librarian
- Xerox Operator
- Museum Curator
- Museum Registar
- Museum Exibit Specialist
- Photographer
- Photographer Aids
- Handyman/ Messenger
- Public Relations Manager

MAINTENANCE/ SECURITY

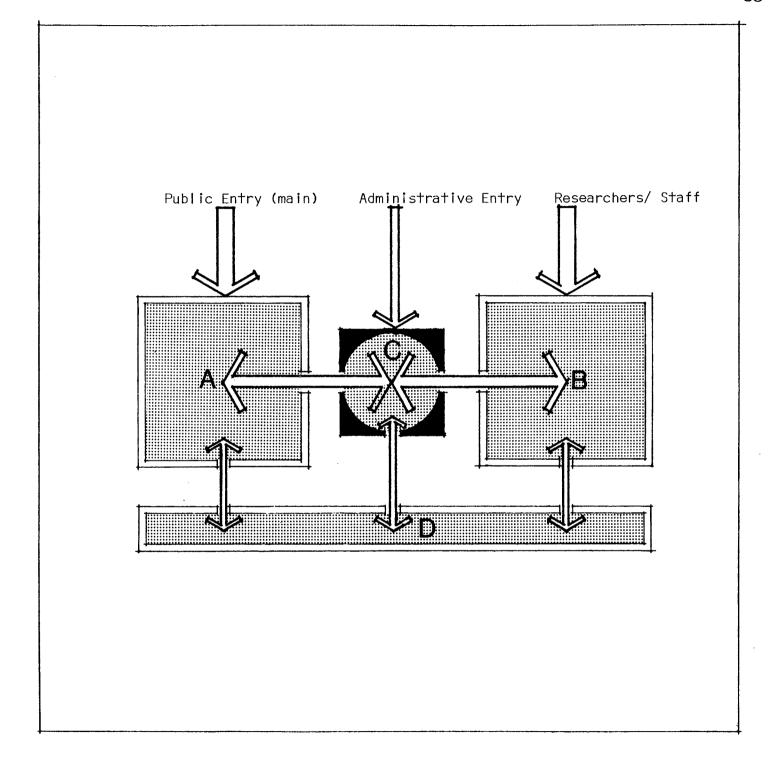
- Building Superintendant
- Mechanical Specialist
- 12 Gaurds
- Janitors/ Gardeners

Functional Zones Within The Complex

```
FUNCTIONAL ZONE A ( The Museum )
      Suare Footage
                             45300
FUNCTIONAL ZONE B ( The Resource Center )
      Square Footage
                             32600
FUNCTIONAL ZONE C ( The Administration )
                              3025
      Square Footage
FUNCTIONAL ZONE D ( The Support )
      Square Footage
                              3000
      Total Square Footage
                             83925
```

Functional Zones Relationship Diagram

- A. Museum
- B. Resource Center
- C. Admistration
- D. Support



The Museum (functional zone A)

Performance Goals

Exibit spaces should all be directly related to the lobby and shall act as a dispersal area for the people throughout the Museum.

Exibit areas should have a variety of viewing spaces, with spaces for permanant and rotating exibits.

There should be a clear separation between the public spaces and private functions of the staff.

Circulation through the exibit spaces should be along a defined path with viewing spaces off the path.

Objects received and tranferred from the receiving room to the production shop, work room, exibit studio, and museum storage should be direct and avoid cross traffic with staff when possible.

Since the museum storage area contains articles which cannot be replaced, the security in this area should be of utmost importance.

User Roles

The Users of the Museum include:

VISITORS STAFF SECURITY/ MAINTENANCE

VISITORS

The visitors are individuals or groups who come to the Museum for personal enlightenment. This group consist of people varing from veterans and widows, for personal reasons, to the general public who wish to gain general knowledge about the Vietnam Veterans and the Vietnam War.

This group will be partially composed of people who have just visited the Vietnam Veterans Memorial and therefore have an emotional feeling before they enter the Museum. This is a very strong sense that should be responded to within the Museum.

The visitors should have a clear visual link to the Museum from the Vietnam Veterans Memorial.

STAFF

The Staff includes all the workers in the museum with the exception of the maintenance and security. This group is primarily in charge of the museum's day to day operations.

User Roles (cont.)

STAFF (cont.)

The professional staff includes:

Museum Curator

The curator arranges displays, plans and designs museum exibits, selects individual items to be displayed in the museum, prepares signs and lables, also does the necessary research that is required for exibit activities.

Museum Registar

The registar is responsible for accessioning, cateloging and preserving of museum objects. (three deminsional objects)

Photogragher

The photographer and his staff do every kind of photographic and reproduction work, including taking pictures of visitors and special events and reproducing photos and negatives.

Exibit Specialist

Works with the curator and/ or the registar to design exibits and displays. Also does historic background on exibits.

SECURITY/ MAINTENANCE

This group is responsible for the security and up keep of the building and building grounds.

User Roles (cont.)

SECURITY/ MAINTENANCE (cont.)

Gaurds

Are responsible for the security of the building and its contents from robbery, vandalism, and fire.

Building Superintendant

Is responsible for the repair and up keep and the general appearance of the building. And keeping all mechanical equipment in good working order, including heating and air conditioning. Also supervises the janitorial service, and is responsible for good performance on all painting, cleaning, plumbing etc. of the building.

Janitors/ Gardeners

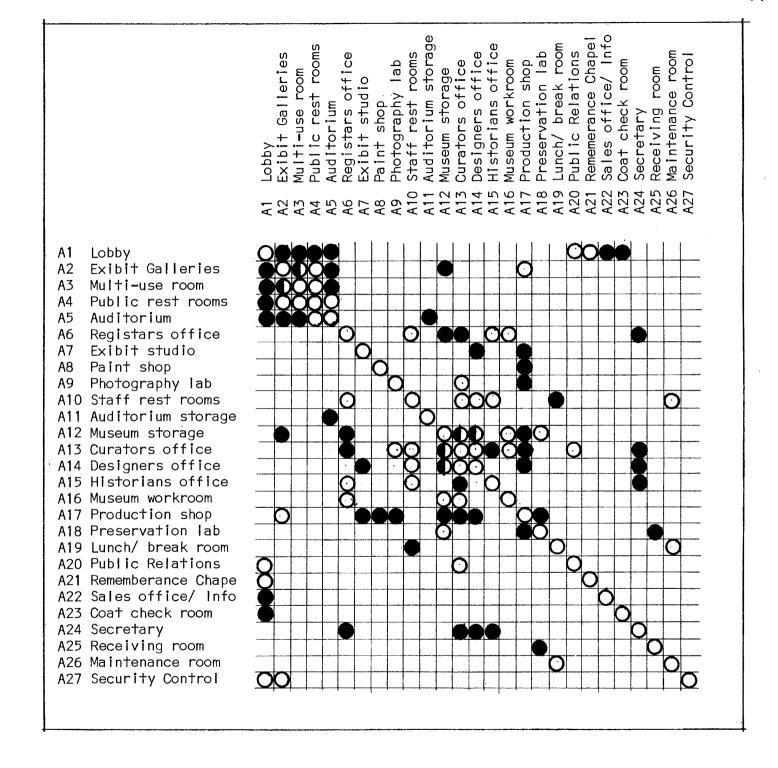
Janitors will do general cleaning of the Museum ,but are not allowed into storage areas except on occasional cleaning periods.

The gardeners and general grounds keepers will be from the National Park Service.

Required Spaces

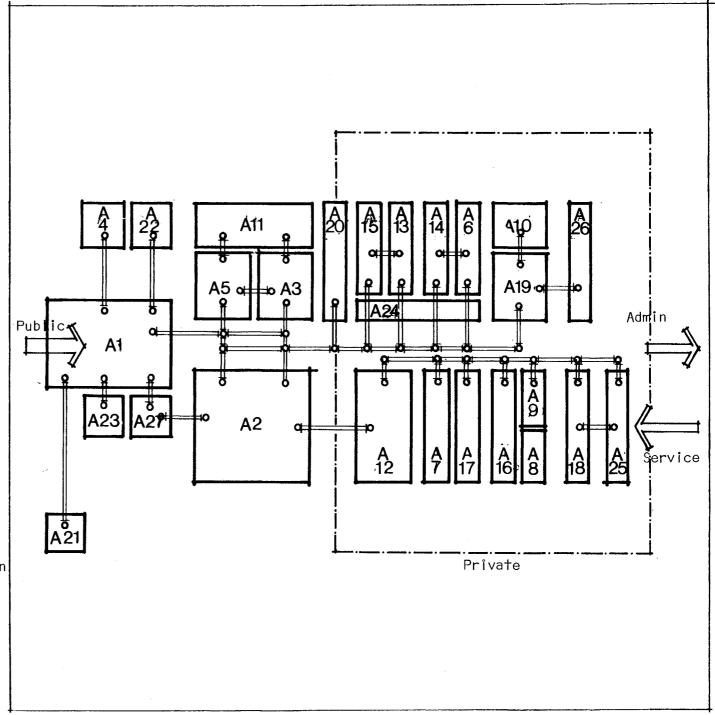
A1 Lobby	2000
A2 Exibit Galleries	25000
A3 Multi-use Room	3000
A4 Public rest rooms	@ code
A5 Auditorium	3500
A6 Registars Office	300
A7 Exibit Studio	400
A8 Paint Shop	400
A9 Photograpy Lab	800
A10 Staff rest rooms	@ code
A11 Auditorium Storage	200
A12 Museum Storage	4000
A13 Curators Office	500
A14 Designers Office	300
A15 Historians Office	250
A16 Museum Workroom	500
A17 Production Shop	1000
A18 Preservation Lab	300
A19 Lunch/ Break room	600
A20 Public Relations Office	250
A21 Rememberance Chapei	vanies
A22 Sales Office/ Information	450
A23 Coat check room	300
A24 Secretary	250
A25 Receiving room	600
A26 Maintenance room	200
A27 Security Control room	200
Total Square Footage	45300

Space Relationship Matrix



Space Relationship Diagram

- A1 Lobby
- A2 Exibit Galleries
- A3 Multi-use Room
- A4 Public rest rooms
- A5 Auditorium
- A6 Registars Office
- A7 Exibit Studio
- A8 Paint Shop
- A9 Photography Lab
- A10 Staff rest rooms
- All Auditorium Storage
- A12 Museum Storage
- A13 Curators Office
- A14 Designers Office
- A15 Historians Office
- A16 Museum Workroom
- A17 Production Shop
- A18 Preservation Lab
- A19 Lunch/ Break room
- A20 Public Relations Office
- A21 Rememberance Chapel
- A22 Sales Office/ Information
- A23 Coat check room
- A24 Secretary
- A25 Receiving room
- A26 Maintenance room
- A27 Security Control room



A1 Lobby

Users:

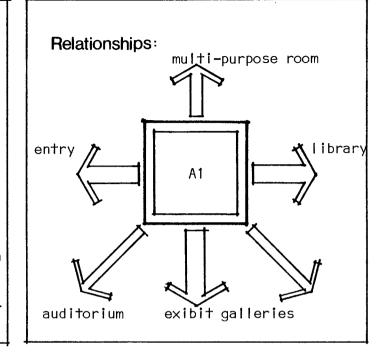
Visitors (general public) (2000 to 3000 per day)

Function / Activities :

to serve as a transitional area between the various segments of the building
to serve as an infomation area and security check

Special Considerations:

-should have a smooth flow to and from the information desk, exibit galleries, auditorium, and rest rooms -should be close to the verticle circulation



Area:

undetermined at this time (would be of grand scale)

+2000 sf

Height:

varies

Finishes:

Image:

strong, monumental ° Ceiling:

acoustical- plaster

• Floor:

hard-tile or stone • Walls:

soft and hard

Systems

• HVAC:

multi zone- low vel . Plumbling: none

Lighting:

day light / indirect

Furniture/Equipment:

information desk

A2 Exhibit Galleries

Users:

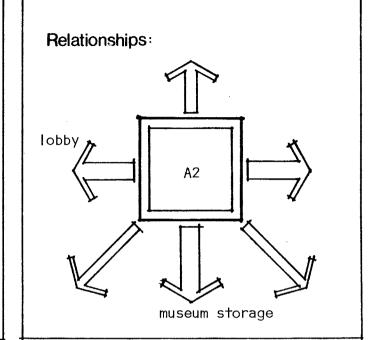
Visitors (general public) (2000 to 3000 per day)

Function / Activities:

-viewing areas, spaces for various article and objects relating to the Vietnam Veterans

Special Considerations:

-must have a variety of spaces and be flexible for the changing of exibits
-should be partially broken up into smaller areas.
-should allow for expansion



Area:

undetermined at this time. will have a variety of spaces

+25000 sf

Height:

will break down from grand to intimate

Finishes:

Image:

peaceful and quiet · Ceiling:

acoustically controlled

• Floor:

soft- carpet hard - hard wood · Walls:

(varies)

Systems

• HVAC:

multi zone, low-vel * Plumbling: none

Lighting:

artifical light, track and

display lights

Furniture/Equipment:

custom exibit displays

A3 Multi- use Room

Users:

Visitors (100 persons)

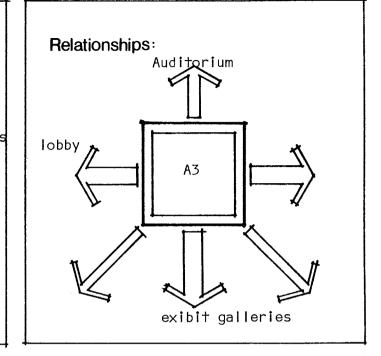
Staff

Function / Activities:

-this space used for meetings
,conferences, seminars, and
classes

Special Considerations:

-should have a small stage
and projection booth



Area:

3000 sf

Height:

12 f

Finishes:

Image:

formal

· Ceiling:

acoustically controlled

• Floor:

hard- carpet

° Walls:

acoustically controlled

Systems

HVAC:

multi zone, low-vel . Plumbling: no

Lighting:

minimum daylight, special

dimmers, ambient

Furniture / Equipment :

should have an area for audio visual equipment

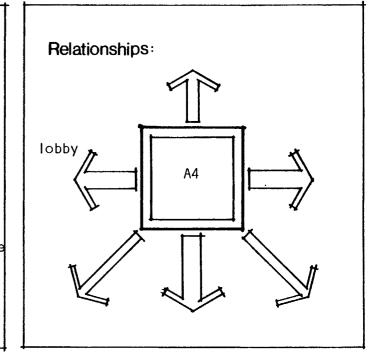
A4 Public Rest rooms

Users: Vistors

Function / Activities:

Special Considerations:

-it is recommended that these facilities be broken into two sets of rest rooms



Area: as required by code

Height: 8 f

Finishes:

• Image: clean • Ceiling: acoustical tile

• Floor: hard-tile • Walls: hard-tile

Systems

• HVAC: multi zone, low-vel • Plumbling: as required by code

• Lighting: down light

Furniture / Equipment :

A5 Auditorium

Users:

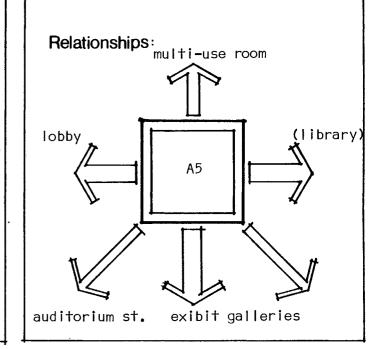
Visitors (300 persons)

Function / Activities :

-this space is used for lectures, and to film clips as an active part of the museum

Special Considerations:

 should be able to handle a moving audience, as well a start to finish audience
 sloped floor for seating
 seating for handicapped



Area:

3500 sf

Height:

arbitrary

Finishes:

Image:

educational

Ceiling:

acoustically controlled

Floor:

soft- carpet

• Walls:

acoustically controlled

Systems

• HVAC:

multi zone, low-vel · Plumbling: none

Lighting:

artificial light only or highly controlled daylight

Furniture/Equipment:

provide for front and rear screen projection

capacity for (slides, movies, tv, etc.)

A6 Registars Office

Users:

Staff (2) + room for 4

others

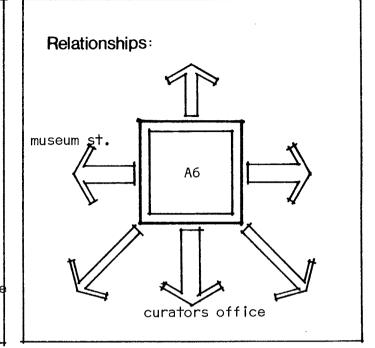
Function / Activities:

-responsible for the preservation and accountability of graphics, textiles, and three demensional objects of the whole complex

Special Considerations:

-this office is an image setter for visitors to the registar

-should be of high importance
within the staff area



Area:

300 sf

Height:

8-10 f

Finishes:

Image:

authority

Ceiling:

acoustical tile

Floor:

soft- carpet

• Walls:

hard- vinyl

Systems

HVAC:

multi zone, low-vel • Plumbling:

g: none

Lighting:

daylight, ambient, task

Furniture / Equipment :

furniture for 2 offices

A7 Exibit Studio

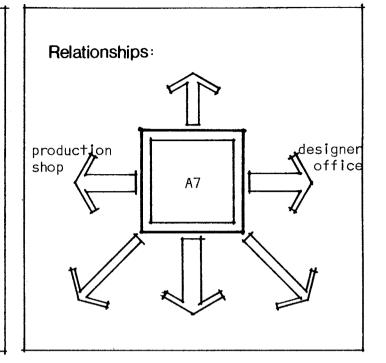
Users: Staff (1-2)

Function / Activities:

-this space is used for mock-up exibits and final production of the displays

Special Considerations:

-this space should have high security for exibits left overnight



Area: 400 sf

Height: 10-12 f

Finishes:

• Image: varies for each set • Ceiling: exposed

• Floor: hard-tile • Walls: hard-vinyl

soft- carpet

Systems

• HVAC: multi zone, low-vel • Plumbling: none

• Lighting: track, ambient

Furniture/Equipment: stage for viewing displays

8A Paint Shop

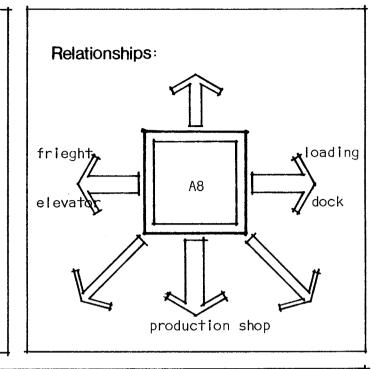
Users: Staff (1-2)

Function / Activities:

-this space for all brush. spray and roller painting of exibit cases and pedistals

Special Considerations:

-should have an exterior exhaust system -also provide for special fire protection



Area: 400 sf

Height: 12 f

Finishes:

Image: ·none Ceiling:

hard- vinyl

• Floor:

hard- tile or

• Walls:

hard- vinyl

concrete

Systems

• HVAC:

independent system • Plumbling:

slop sink

Lighting: ambient

Furniture/Equipment:

paint booth (8x8x10)

A9 Photography Lab

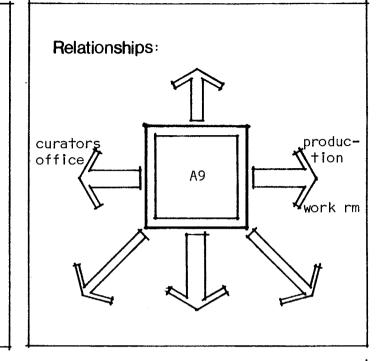
Users: Staff (1-2)

Function / Activities:

-this area used for photo copying service to the museum exibit production program as well as for the copying needs of the staff

Special Considerations:

-noise control in this area
should be considered



Area: 800 sf

Height: 8 f

Finishes:

• Image: none

Ceiling:

acoustically controlled

• Floor:

• Walls:

acousticallu controlled

Systems

• HVAC: multi zone low-vel • Plumbling: none

• Lighting: ambient, NO daylight

Furniture/Equipment: general table space as well as space

for PMT, xerox, slide copier, ect.

A10 Staff Rest rooms

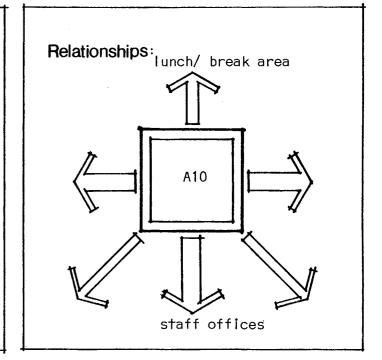
Users: Staff

Function / Activities:

Special Considerations:

-should have a direct relationship to lunch/ break

-requiremints for the handicapped



Area:

as required by code

Height:

8 f

Finishes:

Image:

clean

ambient

Ceiling:

acoustical tile

Floor:

hard- tile

• Walls:

hard- tile

Systems

• HVAC:

multi zone-low vel . Plumbling: as required by code

Furniture/Equipment:

Lighting:

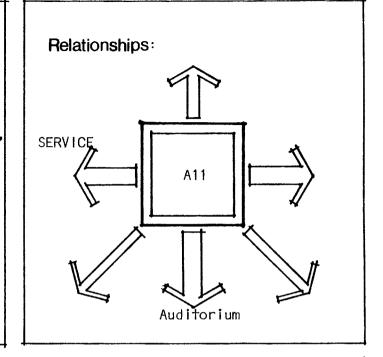
A11 **Auditorium** Storage

Staff Users:

Function / Activities :

provides storage for tables, chairs that are not in use

Special Considerations:



Area:

200 sf

Height:

8-10 f

Finishes:

Image:

none

Ceiling:

acoustical tile

Floor:

hard- tile

• Walls:

hard- tile

Systems

• HVAC:

multi zone-low vel . Plumbling:

Lighting: ambient

Furniture / Equipment :

shelves and racks for chair and table storage

A12 Museum Storage

Users:

Staff (will not work here but will retrieve objects

to be displayed)

Function / Activities :

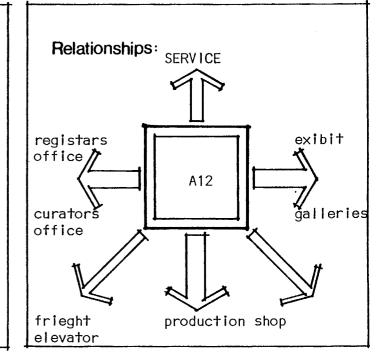
-provides strorage for inactive displays and

holdings

Special Considerations:

-temperature and humidity control is very important in this area

-should have high security for this area



Area:

4000 sf

Height:

10-15 f

Finishes:

Image:

security

Ceiling:

exposed

Floor:

hard- concrete

· Walls:

hard- paint

Systems

HVAC:

Independent system • Plumbling:

: slop sink

Lighting:

ambient, NO daylight

Furniture/Equipment:

various storage shelves designed for

the various objects to be stored

A13 Curators Office

Users: Staff (2 full time + 1)

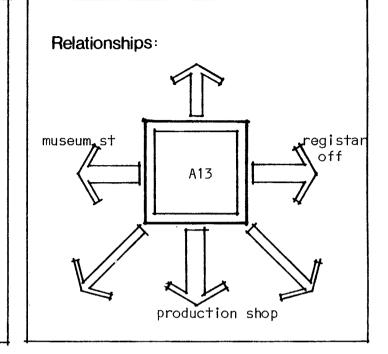
Function / Activities:

-for the design, production, installation, and maintenance of the exibits

Special Considerations:

-works closely with the registar and production staff

-is basically in charge of the museum functions



Area: 500 sf

Height: 10 f

Finishes:

• Image: authority • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

Lighting: daylight, ambient, task

Furniture/Equipment: furnishings for 3 people (file cabinets,

work tables, ect

A14 Designers Office

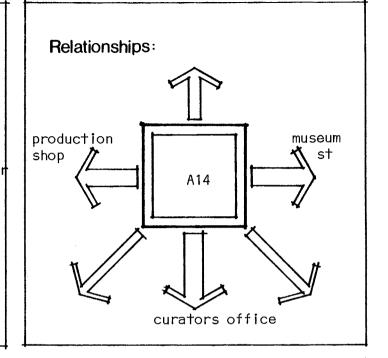
Users: Staff (1 full time + 1)

Function / Activities:

-design studio for the layout of museum exibits -presentations to the curator

Special Considerations:

-should have sound control from the production shop



Area:

300 sf

Height:

12 f

Finishes:

Image:

studio

Ceiling:

acoustical tile

• Floor:

hard-tile

• Walls:

soft acoustical

Systems

• HVAC:

multi zone-low vel . Plumbling: slop sink

Lighting:

daylight, ambient, task

Furniture/Equipment:

studio design equipment

A15 Historians Office

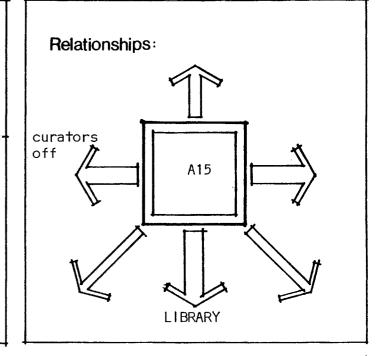
Users: Staff (1) and 2 guest

Function / Activities :

-this area contains historical information and is the work station for the historical researchers

Special Considerations:

-should have some degree of
privacy



acoustical tile

Area: 250 sf

Height: 8 f

Finishes:

• Image: private • Ceiling:

• Floor: soft- carpet • Walls: soft- acoustical

Systems

• HVAC: multi zone-low vel • Plumbling: none

Lighting: daylight, ambient, task

Furniture/Equipment: shelving and furniture for 1 person

A16 Museum Workroom

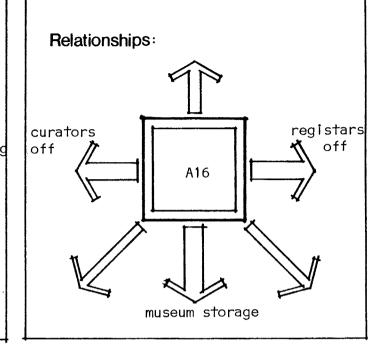
Users: Staff (4)

Function / Activities:

-work space for framing, cleaning, polishing, matting and mounting exibits

Special Considerations:

-this area should have sound control



Area: 500 sf

Height: 12 f

Finishes:

• Image: none • Ceiling: exposed

• Floor: hard-concrete or • Walls: hard-viny!

Systems

• HVAC: independent system • Plumbling: jainitorial area

• Lighting: daylight, ambient

Furniture/Equipment: work tables and shelves

A17 **Production** Shop

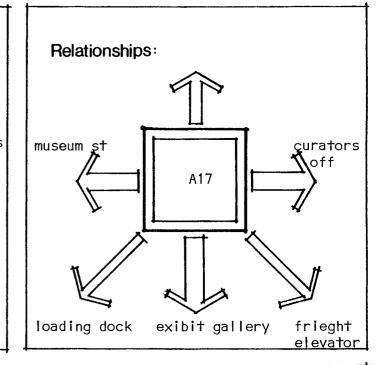
Users: Staff (1-2)

Function / Activities:

-construction of all exibits and thier cases

Special Considerations:

-should have high sound control



Area:

1000 sf

Height:

12 f

Finishes:

Image:

none

Ceiling:

acoustically controlled

Floor:

hard-tile

· Walls:

hard- vinyl

slop sink

Systems

· HVAC:

independent system • Plumbling:

wash facilities and

Lighting: ambient

Furniture / Equipment :

shelves and layout for power tools

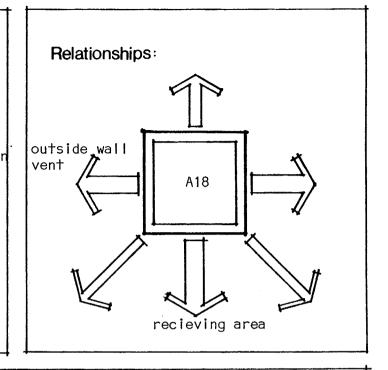
A18 Preservation Lab

Users: Staff (1)

Function / Activities:

-space for the fumigation, cleaning, encapulation, stain rust, dirt removal -mending of documents

Special Considerations:



Area: 300 sf

Height: 8 f

Finishes:

• Image: none • Ceiling: exposed

• Floor: hard-tile • Walls: hard-vinyl

Systems

• HVAC: independent system • Plumbling: sink area

· Lighting: ambient

Furniture/Equipment: should have lockable storage cabinets

A19 Lunch / Break Room

Users: Staff (up to 20)

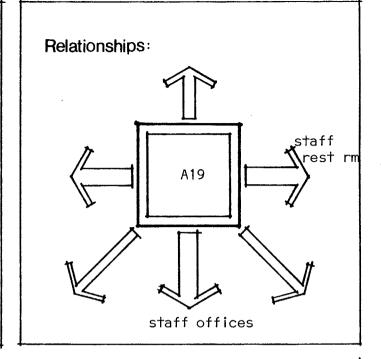
Function / Activities:

-this space is for the staff to eat lunch and take breaks

Special Considerations:

-should be as far from the museum storage areas as possible

-should have a small kitchen



Area:

600 sf

Height:

8-10 f

Finishes:

• Image:

relaxing (informal) · Ceiling:

acoustical

• Floor:

soft- carpet

• Walls:

hard- vinyl

Systems

• HVAC:

multi zone-low vel * Plumbling:

kithchen facilities

Lighting: daylight, ambient

Furniture / Equipment :

seating for small groups

kitchen facilities

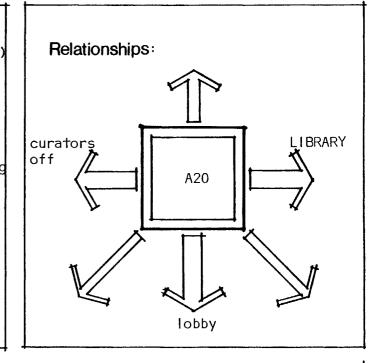
A20 Public Relations Office Users: Staff (1) + (up to 2 guest)

Function / Activities :

-this space for the pubic relations director, he is in charge of the advertising for the complex

-also schedules seminars

Special Considerations:



Area: 250 sf

Height: 8-10 f

Finishes:

• Image: open (inviting) • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: daylight, ambient, task

Furniture/Equipment: work tables and desk space

A21 Rememberance Chapel

Users: Vistors (up to 25)

Function / Activities:

-this space is for personal meditation and contemplation

Special Considerations:

-should be inimate and secluded as possible -might be open air -could be accesible from

outside as well as inside

Relationships:

Iobby

A21

exterior

Area: (undetermined at this time)

Height: (varies)

Finishes:

• Image: quiet, intimate • Ceiling: variable

• Floor: hard or soft • Walls: varies

Systems

• HVAC: may not be required • Plumbling: none

· Lighting: daylight, uplighting if exterior

Furniture/Equipment: seating for 25-30 (pews or terrace seats)

A22 Sales shop/ Information

Users: Staff (2)

Visitors (up to 4)

Function / Activities:

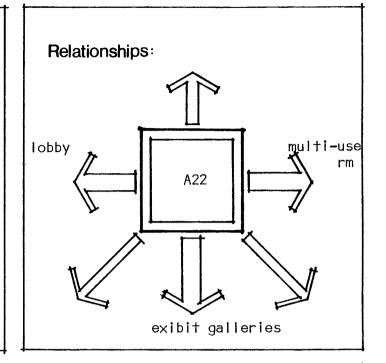
-serves as a location for the to sell publications. catelogs, maps, and graphic

material

-also will function as info

Special Considerations:

-should be low key and not compete with the exibit space



Area:

450 sf

Height:

8-10 f

Finishes:

Image:

low key

· Ceiling:

acoustical tile

Floor:

soft- carpet

· Walls:

soft- wall cover

Systems

HVAC:

multi zone-low vel * Plumbling:

Lighting:

daylight, track

Furniture / Equipment :

should have sales counter and enclosure

sales and information desk

A23 Coat Check Room

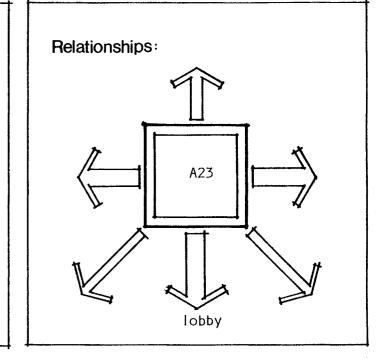
Users: Staff (1)

Function / Activities:

-place to leave coats and backpacks while going through the museum

Special Considerations:

-should be easily accesible
to the public entry



Area: 300 sf

Height: 8-10 f

Finishes:

Image: low key
 Ceiling: acoustical tile
 Floor: soft- carpet
 Walls: soft- wall cover

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: daylight, ambient

Furniture/Equipment: storage shelving and lockers

A24 Secretarial Office

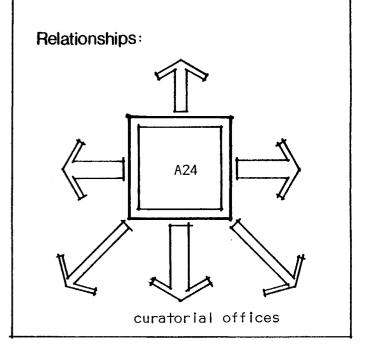
Users: Staff (2)

Function / Activities:

-paper work and basic secretarial work for the curatorial staff

Special Considerations:

-should have computer facilities



Area: 250 sf

Height: 8-10 f

Finishes:

• Image: open (inviting) • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: ambient, task

Furniture/Equipment: office space for 2 with computer facilities

A25 Receiving / **Processing**

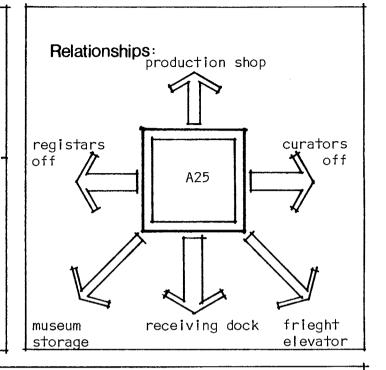
Users: Staff (1-3)

Function / Activities:

_this space for receiving. unpacking, recording, photographing, and temporarily storing exibits

Special Considerations:

_security in this area should be considered



Area: 600 sf

Height: 8-12 f

Finishes:

Image: security controlled ° Ceiling: exposed

Floor: hard- tile · Walls: hard- paint

Systems

• HVAC: multi zone-low vel * Plumbling: small wash room, slop sink

Lighting: ambient

Furniture/Equipment: shelving for tools and files

desk for a clerk

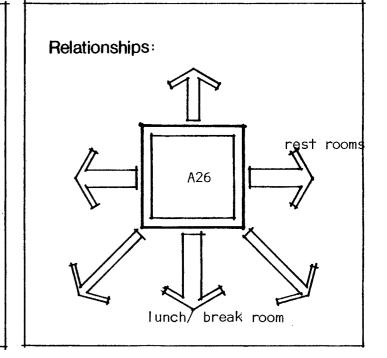
A26 Maintenance Room

Users: Staff

Function / Activities:

-provides a space for the storage of janitorial supplies

Special Considerations:



Area: 200 sf

Height: 8 f

Finishes:

Image:

none

Ceiling:

exposed

• Floor:

hard- tile

• Walls:

hard- paint

Systems

• HVAC:

none

• Plumbling: slop sink

· Lighting: ambient

Furniture / Equipment :

steel shelving and slop sink

A27 Security Control Room

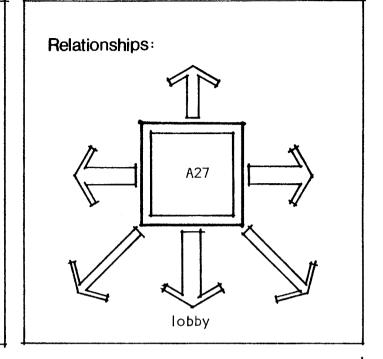
Users: Gaurd (1)

Function / Activities:

 control area for monitoring devices to provide security and fire protection
 also to act as a check in point for the gaurds

Special Considerations:

should be farily low key in the museum area



Area: 200 sf

Height: 8 f

Finishes:

• Image: low key

· Ceiling:

acoustical tile

Floor:

soft- carpet

• Walls:

hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: ambient, task

Furniture / Equipment :

television monitors, desk and chair

fire protection monitor

The Resource Center (functional zone B)

Performance Goals

The archival staff will make several trips per day to the storage areas, therefore the circulation between the storage areas and the research rooms should be very direct and clear of cross traffic.

Since the storage areas contain many documents and films which are originals and cannot be replaced, the security in the storage rooms should have maximum security.

The researchers are guest of the Resource Center and therefore should have some degree of separation from the staff.

Researchers are not allowed into the storage rooms or staff work areas.

User Roles

The Users of the Resource Center include:

RESEARCHERS STAFF SECURITY/ MAINTENANCE

RESEARCHERS/ HISTORIANS

This group would be composed of people who for various reasons, have a personal interest in the archives of the Resource Center and/or Museum. Researchers would range from doctorial candidates to press writers, collecting information for editorials.

The Researchers would have a responsibility to the Resource Center and the Museum, as far as the care of the archives and respecting regulations.

Researchers are guest, invited by the Resource Center or given special permission to conduct research at this facility.

The Researchers vary also, by extent of information to be gathered, hence some might use the facility for only one day and others might spend six months to a year.

User Roles (cont.)

STAFF

The Staff includes all the workers of the Resource Center with the exception of the maintenance and Security. This group is primarily in charge of the Resource Centers day to day operations.

The professional Staff includes:

Librarian

Selects and orders books, cards and computer equipment for the card catelog and the on line computer. The most important job of the librarian is to serve the books to the researchers in the research room.

Supervisory Archivist

Directs the work of their staff and frequently confers with researchers in person and on the phone.

Audio Visual Archivist

Processes A.V. materials and shows them to the researchers.

Archivist/ Archivist Technitions

Receives groups of personal papers, photos, and other items donated to the Resourch Center.

Arranges them in order, catelogs them, and places them into labled document containers. They then prepare list inventories and indexs and other aids to make the information readily available to the researchers.

User Roles (cont.)

Archivist/ Archivist Technitions (cont.)

Also discusses research projects with the researchers, locates materials and brings the materials to the research room.

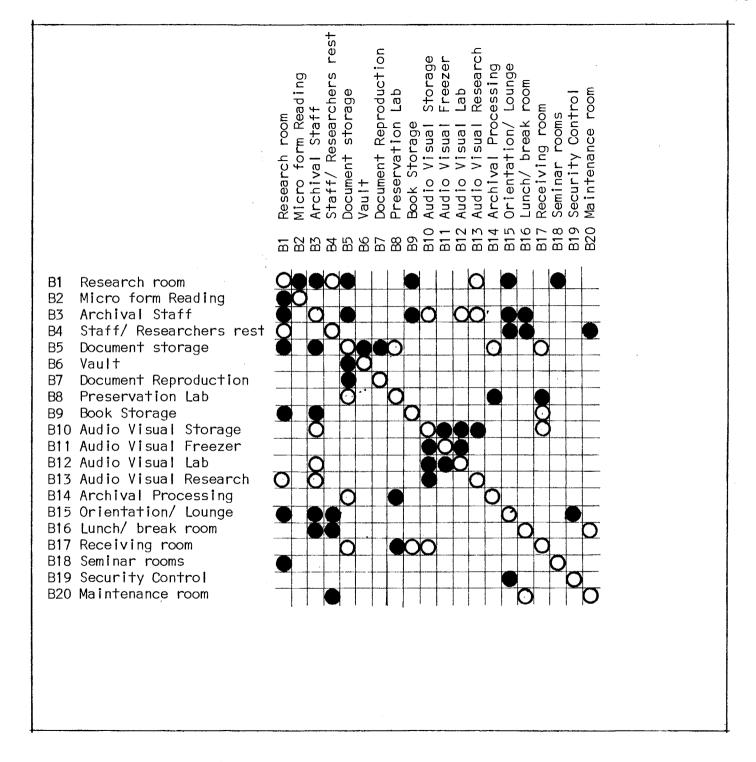
Clerical Personell

The Personell Group is in charge of answering the phone, typing of correspondence, transcribe dictation and type archival dictation and type archival finding aids.

Required Spaces

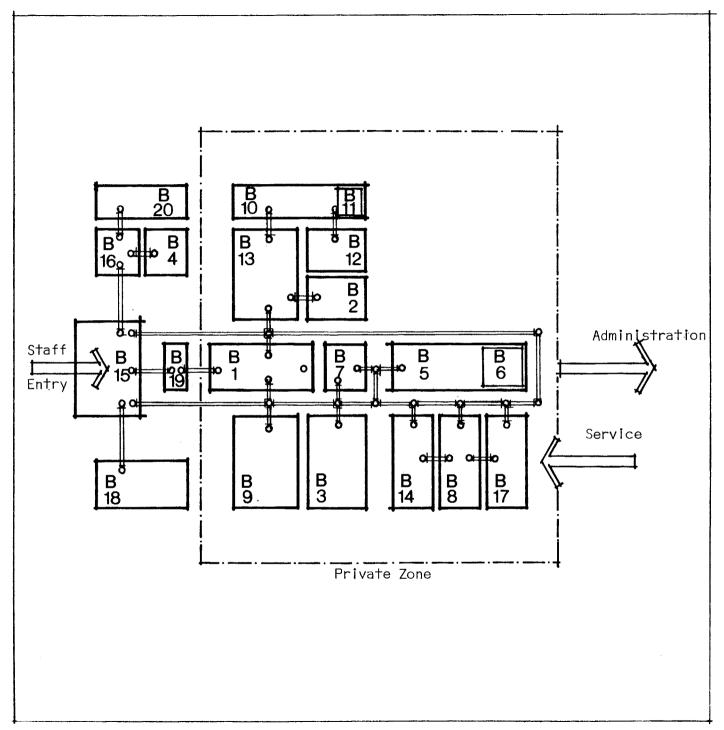
B1 Reaserch Room	2000
B2 Micro Form Reading Room	200
B3 Archival Staff	2550
B4 Staff/ Researchers rest room	@ code
B5 Document Storage	14000
B6 Vault	1500
B7 Document Reproduction	200
B8 Preservation Lab	300
B9 Book Storage	2500
B10 Audio Visual Storage	2000
B11 Audio Visual Freezer	750
B12 Audio Visual Lab	1500
B13 Audio Visual Research Room	400
B14 Archival Processing	600
B15 Orientation/ Lounge	500
B16 Lunch/ Break room	600
B17 Receiving room	600
B18 Seminar rooms	4 @ 500
B19 Security Control room	200
B20 Maintenance room	200
Total Square Footage	32600

Space Relationship Matrix



Space Relationship Diagram

- B1 Research room
- B2 Micro form Reading room
- B3 Archvial Staff
- B4 Staff/ Researchers rest
- B5 Document storage
- B6 Vault
- B7 Document Reproduction
- B8 Preservation Lab
- B9 Book Storage
- B10 Audio Visual Storage
- B11 Audio Visual Freezer
- B12 Audio Visual Lab
- B13 Audio Visual Research
- B14 Archival Processing
- B15 Orientation/ Lounge
- B16 Lunch/ break room
- B17 Receiving room
- B18 Seminar rooms
- B19 Security Control
- B20 Maintenance room



B1 Research Room

Users:

Staff (2)

Researchers (up to 30)

Function / Activities :

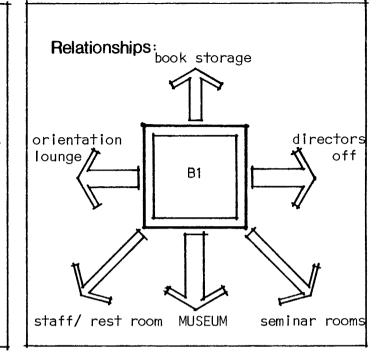
-area where researchers work on their projects within

the Library

-the staff will bring the materials to this room

Special Considerations:

-should be capable of having very good survailence



Area:

1500-2000 sf

Height:

10-15 f

Finishes:

Image:

quiet and relaxed • Ceiling:

acoustical tile

• Floor:

soft- carpet

• Walls:

acoustically controlled

Systems

• HVAC:

multi zone-low vel • Plumbling:

Lighting:

ambient, task

Furniture/Equipment:

special desk for the archivist on duty with raised platform. also study desk and carrols B2 Micro Form Reading Room

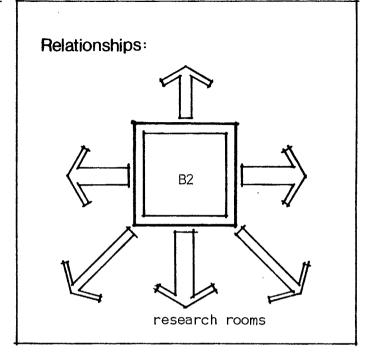
Users: Researchers (up to 4)

Function / Activities :

-area for viewing holdings on microform or micro fiche-also for the reproduction of these materials

Special Considerations:

archivist on duty is responsible for assistance and survailence



Area:

200 sf

Height:

8-10 f

Finishes:

Image:

controlled (quiet) ° Ceiling:

g: acoustical tile

• Floor:

soft- carpet

• Walls:

acoustically controlled

Systems

• HVAC:

multi zone-low vel • Plumbling: none

Lighting:

light control, NO day light

Furniture / Equipment :

tables and carrols

B3 **Archival** Staff

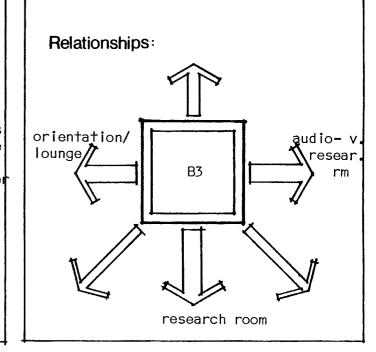
Users: Staff (17)

Function / Activities :

-the staff archivist process historical documents of the collections and provide -assistance to the researcher

Special Considerations:

-these offices should be in close proximity to the research rooms



Area:

2550 sf

(supervisor 2@200 sf)

(librarians off 1 @ 150 sf) (computer room 1@ 250 sf)

Height:

8-10 f

(2 person office 5 @ 250 sf) (4 person office 1 @ 500 sf)

Finishes:

Image:

executive

· Ceiling:

acoustical tile

Floor:

soft- carpet

• Walls:

hard- paint

Systems

• HVAC:

multi zone-low vel * Plumbling:

Lighting:

daylight, ambient, task

Furniture / Equipment :

should have computer capabilities

B4 Staff / Researchers Rest Room

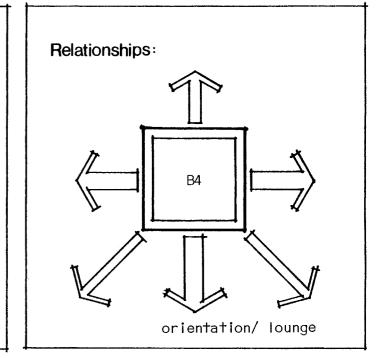
Users: Staff

Function / Activities:

Special Considerations:

-should have a direct relationship to lunch/ break area

-requirments for the handicapped



Area: as required by code

Height: 8 f

Finishes:

Image: clean Ceiling:

acoustical tile

• Floor:

hard-tile

· Walls:

hard- tile

Systems

HVAC:

multi zone-low vel • Plumbling: as required by code

Lighting: ambient

Furniture / Equipment :

B5 Document Storage

Users:

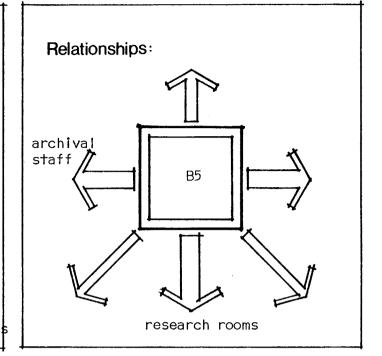
Staff (must have security)

Function / Activities :

-used to preserve and store documents, the documents are placed into acid free folders and placed onto steel shelves

Special Considerations:

-since the staff will be moving a great deal of material to and from this room and the the research room the path between these two should be free of stairs



Area:

14000 sf

Height:

+16 f

Finishes:

Image:

security

Ceiling:

exposed

Floor:

hard- tile

· Walls:

hard- paint

Systems

• HVAC:

independent system • Plumbling:

Lighting:

No daylight, ambient, special task

Furniture / Equipment :

a smaller, lockable area within this room

B6 Vault

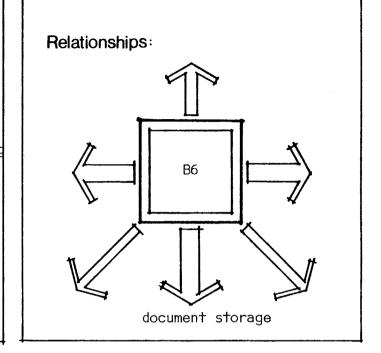
Users: Staff (2)

Function / Activities:

-this space to house the special doucuments requiring special security and handling

Special Considerations:

-only authorized staff can go into this area the vault should open into the document storage area -must have special fire protection



Area:

1500 sf

Height:

8-10 f

Finishes:

Image:

security (strong)

· Ceiling:

government specified

Floor:

government spec.

• Walls:

government specified

Systems

HVAC:

highly controlled • Plumbling:

none

Lighting:

government specified

Furniture/Equipment:

special fire protected cabinets

B7 Document Reproduction

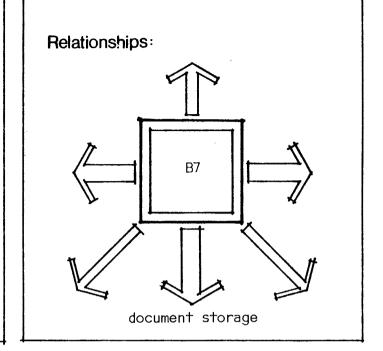
Users: Staff (1)

Function / Activities:

-place where researchers can have copies made of thier specific work

Special Considerations:

-should have some degree of sound control



Area: 200 sf

Height: 8-10 f

Finishes:

Image: none · Ceiling:

acoustical tile

Floor:

soft- carpet

· Walls:

acoustically controlled

Systems

HVAC:

multi zone-low vel . Plumbling:

none

Lighting:

ambient

Furniture/Equipment:

room for copy machine and desk with lay space

B8 Preservation Lab

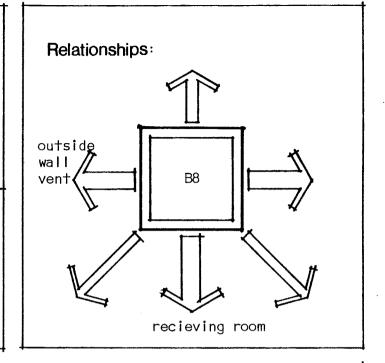
Users: Staff (1)

Function / Activities:

-this space used for the fumigation, cleaning, encapulation, stain, dirt, rust, removal and mending of historica documents.

Special Considerations:

-should have an exterior exhaust system



Area: 300 sf

Height: 8-10 f

Finishes:

• Image: none • Ceiling: exposed

• Floor: hard-tile • Walls: hard-vinyl

Systems

• HVAC: independent system • Plumbling: sink area

Lighting: ambient

Furniture/Equipment: should have lockable storage cabinets

B9 Book Storage Area

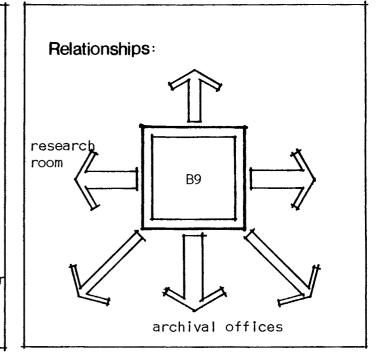
Users: Staff (1)

Function / Activities:

-this space for the volumes micro film, pamphlets, and periodicals

Special Considerations:

-because of the load on the floors, this space might be best on the the ground floor



Area:

2500 sf

Height:

12-15 f

Finishes:

Image:

security

Ceiling:

exposed

• Floor: \

hard- tile

• Walls:

hard- paint

Systems

HVAC:

independent system • Plumbling:

Lighting: ambient

Furniture / Equipment :

shelves, racks, and movable book trucks

B10 Audio Visual Storage

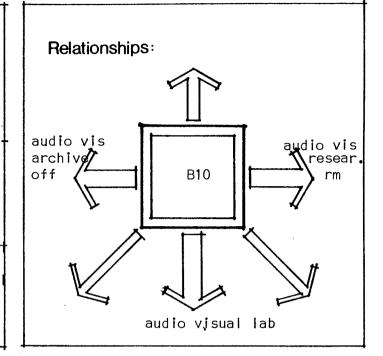
Users: Staff

Function / Activities :

-storage space for the photographic negatives, motion pictures films, and audio visual tapes used on a day by day basis

by day basis Special Considerations:

-since high tempetures affect the films, this room should have a special environmental control system



Area:

2000 sf

Height:

8-10 f

Finishes:

Image:

security

Ceiling:

exposed

• Floor:

hard-tile

• Walls:

hard- paint

Systems

HVAC:

special cooling Plumbling: nonsystem to monitor temp.

• Lighting: ambient

Furniture / Equipment :

file cabinets, carrols

B11 Audio Visual Freezer

Users: Staff

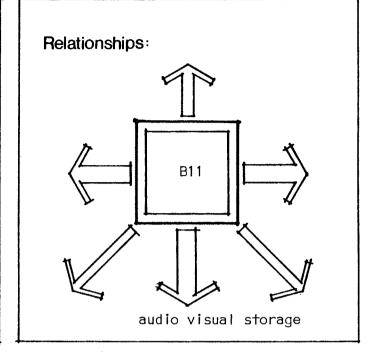
Function / Activities:

-storage for original negatives and motion pictures -these negatives are also duplicated there for the

Special Considerations:

-this space is kept very cold and should be designed with this in mind

-should access into the audic visual storage area



Area: 750 sf

Height: 8-10 f

Finishes:

Image: securityContinuous

Ceiling: exposed

• Floor: hard-tile • Walls: freezer type

Systems

• HVAC: special temp control Plumbling: special overflow drains

· Lighting: ambient

Furniture/Equipment: space for viewing, stack shelving

B12 Audio Visual Lab

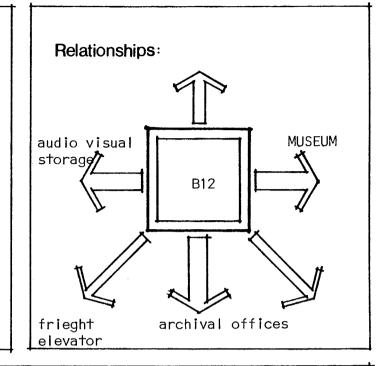
Users: Staff

Function / Activities :

-this space is used for the reproduction and research of the researchers and the public

Special Considerations:

-this space is for photographic processing and therefore light control is very important



Area:

1500 sf

Height:

8-10 f

Finishes:

Image:

studio (darkroom)

· Ceiling:

exposed

Floor:

hard- tile

• Walls:

hard- vinyl

Systems

HVAC:

multi zone-low vel * Plumbling:

2 sinks for the darkroom

Lighting:

ambient and darkroom lighting NO daylight

and main area

Furniture / Equipment :

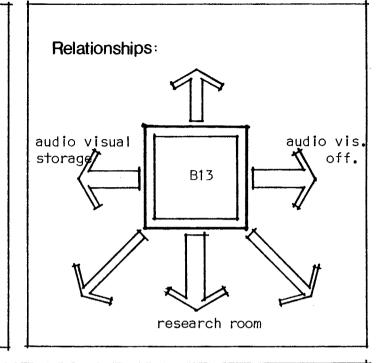
built in darkroom

B13 Audio/ Visual Research Room Users: Researchers (2)

Function / Activities:

-place for the researchers
to veiw vidio tapes or
motion picture films, and
to listen to audio tapes

Special Considerations:



Area: 4

400 sf

Height:

8-10 f

Finishes:

Image:

quiet (dark)

Ceiling:

acoustically controlled

Floor:

soft- carpet

• Walls:

acoustically controlled

none

Systems

HVAC:

multi zone-low vel * Plumbling:

• Lighting: special ambient

non glare lighting

Furniture/Equipment:

carrols for viewing

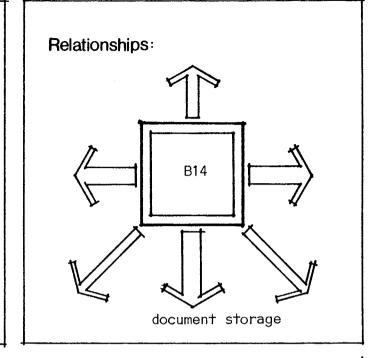
B14 Archival Processing

Users: Staff (2-4)

Function / Activities:

-this space for the final assembly processing of the archival collection

Special Considerations:



Area:

600 sf

Height:

8-10 f

Finishes:

Image:

none

· Ceiling:

exposed

• Floor:

hard- tile

• Walls:

hard- vinyl

Systems

• HVAC:

multi zone+low vel * Plumbling:

Lighting:

ambient, task

Furniture/Equipment:

movable carts, and shelving

B15 Orientation / Lounge

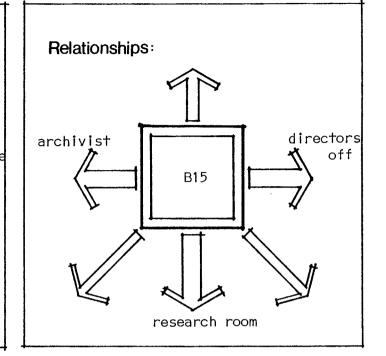
Users: Staff (2)

Function / Activities:

-place to orient the researchers to the holdings of the Resource Center as they relate to each topic

Special Considerations:

-this area should have the capacity for some privacy because of the confidentiality of some researchers projects



Area: 500 sf (orientation 100 sf)

(lounge 400 sf)

Height: 8-10 f

Finishes:

Image:

semi- formal

Ceiling:

acoustical tile

Floor:

soft- carpet

· Walls:

hard- paint

Systems

HVAC:

multi zone-low vel • Plumbling:

none

Lighting: daylight, ambient

Furniture/Equipment:

desk and lockers for the researchers

B16 Lunch/ Break Room

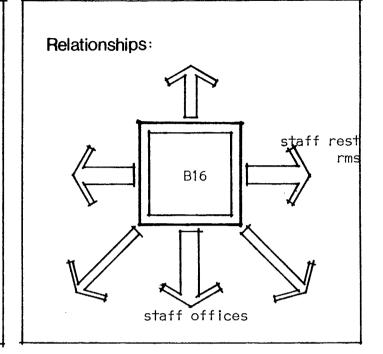
Users: Staff (up to 20)

Function / Activities :

-relaxation area for the staff members

Special Considerations:

-should be as far from the museum storage as possible-should have a small kitchen



Area: 600 sf

Height: 8-10 f

Finishes:

• Image: relaxing (informal) • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- viny!

Systems

• HVAC: multi zone-low vel • Plumbling: kitchen facilities

• Lighting: daylight, ambient

Furniture/Equipment: seating for small groups, kitchen equipment

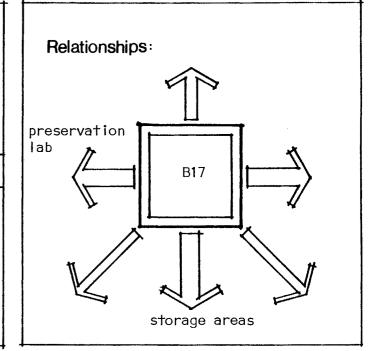
B17 Recieving / **Processing** Area

Users: Staff (1-3) Function / Activities :

_this space for recieving. unpacking, recording, photographing, and temporary storage of the rsource centers holdings

Special Considerations:

_security in this area is very important



Area: 600 sf

Height: 8-12 f

Finishes:

Image: Ceiling: security control exposed

Floor: hard- tile • Walls: hard- paint

Systems

• HVAC: multi zone-low vel . Plumbling: facilities for a small washroom/ slop sink Lighting: ambient

Furniture/Equipment:

B18 Seminar Rooms

Users:

Researchers and Staff

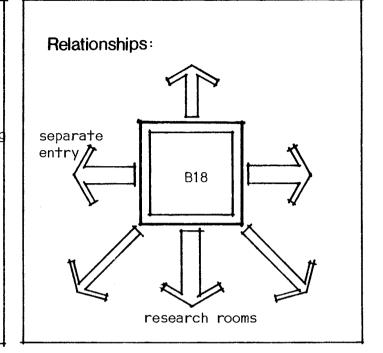
(up to 50)

Function / Activities:

-this space for small meeting and lecture seminars, and series to the researchers and staff

Special Considerations:

-should have audio visual
capabilities



Area:

2000 sf (4 rooms @ 500 sf)

Height:

10**-**12 f

Finishes:

Image:

educational

Ceiling:

acoustically controlled

• Floor:

soft- carpet

• Walls:

acoustically controlled

Systems

HVAC:

multi zone-low vel • Plumbling: none

Lighting:

ambient, with dimmers

Furniture / Equipment :

audio visual equipment (movable)

B19 Security Control Room

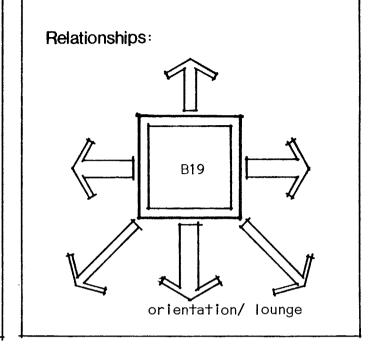
Users: Gaurd (1)

Function / Activities :

-control area for monitoring devices to provide security and fire protection -also to act as a check in point for the gaurds

Special Considerations:

-should be farily low key
in the resource center



Area: 200 sf

Height: 8 f

Finishes:

• Image: low key

Ceiling:

acoustical tile

Floor:

soft- carpet

• Walls:

hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: amblent, task

Furniture/Equipment:

television monitors, desk and chair

fire protection monitor

B20 Maintenance Room

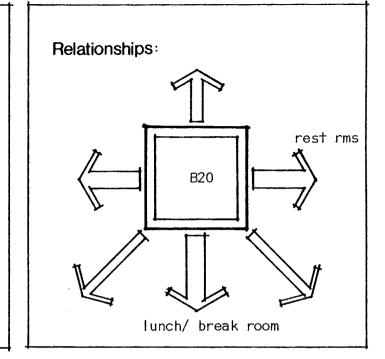
Users: Staff

Function / Activities:

_provides a space for the storage of janitorial

supplies

Special Considerations:



Area:

200 sf

Height:

8 f

Finishes:

Image:

none

· Ceiling:

exposed

• Floor:

hard-tile

• Walls :

hard- paint

Systems

• HVAC:

∙none

Plumbling:

slop sink

Lighting: ambient

Furniture / Equipment :

steel shelving and slop sink

The Administration (functional zone C)

Performance Goals

The Administrative zone should have direct access to both the Museum and Resource Center.

The Administrative offices are the link between the Museum and the Resource Center.

This area should be separate from the public circulation.

The Administration could act as the entry for the researchers.

User Roles

The Users of the Museum include:

STAFF MAINTENANCE

STAFF

The Staff includes all of the workers in the Administration except the maintenance people.

The professinal Staff includes:

Director

The Director is responsible for all of the broad planning for the Complex, also conducts the Museum and Resource Center's most important correspondence, provides general supervision. He is the Museum and Resource Center's representative in dealing with distinguished visitors, also he handles the overall conduct of the external affairs.

Assistant Director

Aids the Director in his responsibilities, directly supervises the senior staff, and subsitutes for the director in his absence.

Administrative Officer

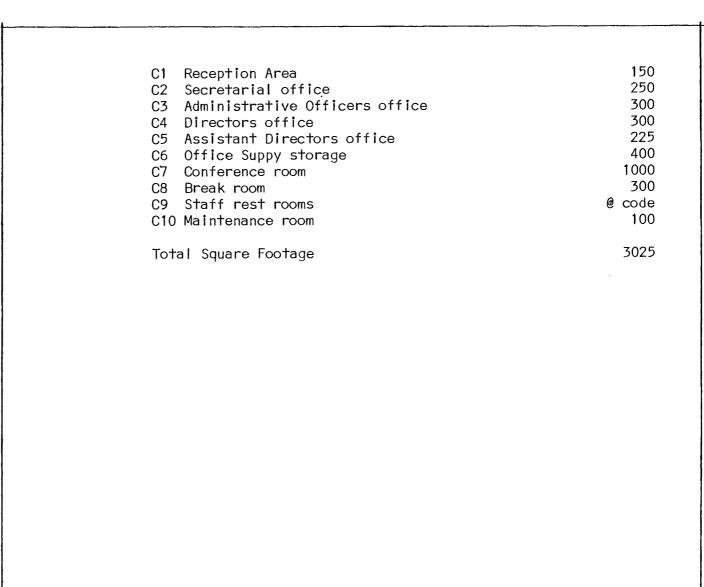
Maintains day to day laison with other offices concerned with the fiscal and personell administration and maintenance of the Museum/ Resource Center. This officer is in charge of the business affairs.

User Roles (cont.)

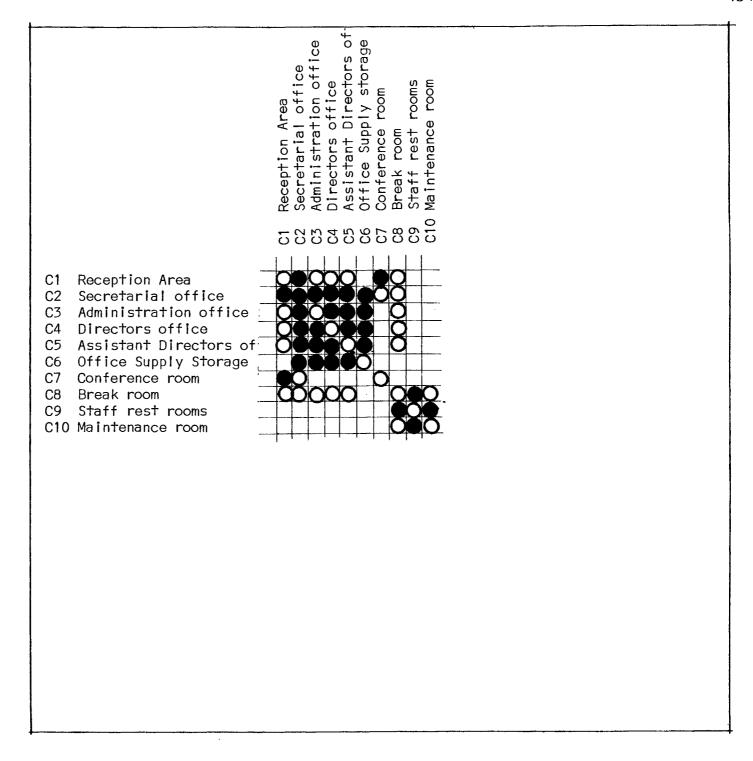
MAINTENANCE

Janitors will do general cleaning of the administration area.

Required Spaces

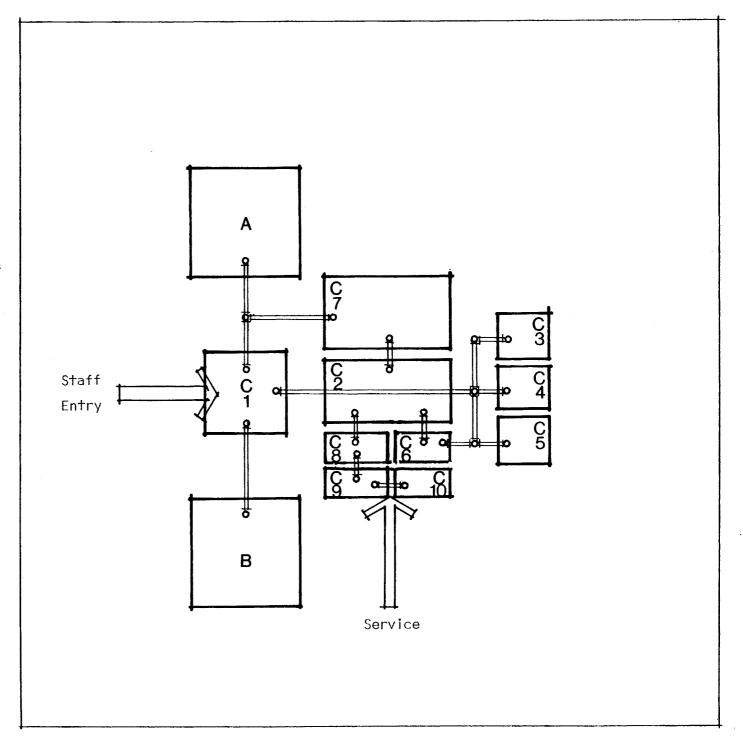


Space Relationship Matrix



Space Relationship Diagram

- C1 Reception Area
- C2 Secretarial office
- C3 Administration office
- C4 Directors office
- C5 Assistant Directors off
- C6 Office Supply storage
- C7 Conference room
- C8 Break room
- C9 Staff rest rooms
- C10 Maintenance room
- A Museum
- B Resource Center



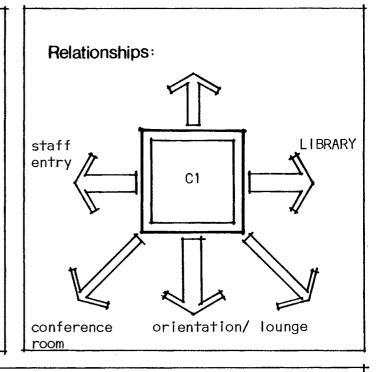
C1 Reception Area

Users: Staff (1)

Function / Activities :

 -waiting area for guest to see administrators
 -also takes phone calls for the entire complex ,acts as a switch board

Special Considerations:



Area: 150 sf

Height: 8-10 f

Finishes:

• Image: relaxing

Ceiling:

acoustical tile

• Floor:

soft- carpet

• Walls:

hard- paint

Systems

• HVAC:

multi zone-low vel * Plumbling: none

Lighting:

daylight, ambient, task

Furniture / Equipment :

lounge seating for guest, desk for receptionist

C2 Secretarial Office

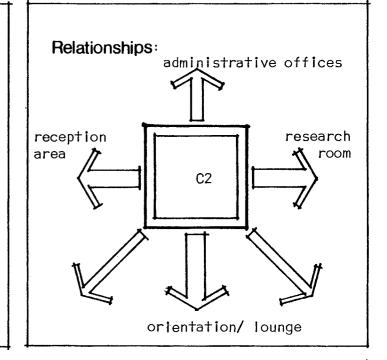
Users: Staff (2)

Function / Activities :

-space for paper work and basic secretarial work for the administrative offices

Special Considerations:

should have computer capabilities



Area: 250 sf

Height: 8-10 f

Finishes:

• Image: inviting (open) • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: ambient, task

Furniture/Equipment: open office furniture for 2 must have computer terminals

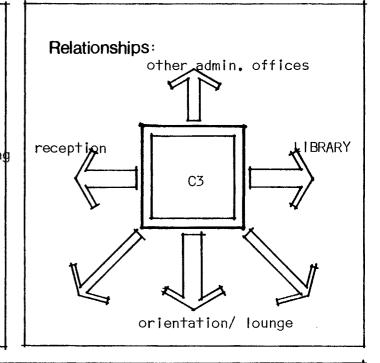
C3 Administrative Officer's Office

Users: Staff (2)

Function / Activities:

-does basic administration work ,purchasing, accounting etc.

Special Considerations:



Area: 300 sf

Height: 8-10 f

Finishes:

• Image: executive • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

Lighting: daylight, ambient, task

Furniture/Equipment: desks, files for 2, seating for 2 guest

C4 Directors Office

Users: Staff (1)

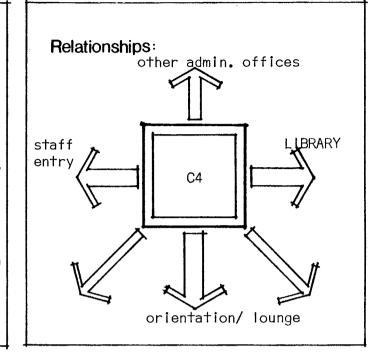
Function / Activities:

-head administrator of the whole complex

in charge of the day to day operations of the complex

Special Considerations:

-this office should be the heart of the administration yet maintain a private character



Area: 300 sf

Height: 8-10 f

Finishes:

Image:

executive

Ceiling:

acoustical tile

• Floor:

soft- carpet

• Walls:

hard- paint

Systems

HVAC:

multi zone-low vel · Plumbling: nor

Lighting:

daylight, ambient, task

Furniture/Equipment:

office furniture for 1

C5 Assistant Directors Office

Users: Staff (1)

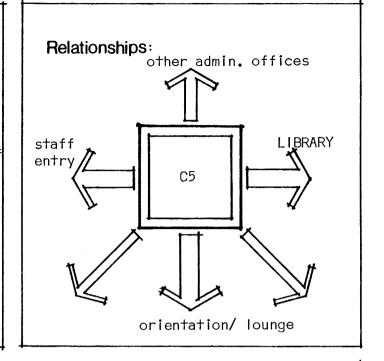
Function / Activities:

-is second in command

-administrates over his staff and is in charge when the director is absent

Special Considerations:

-should have a private character



Area: 225 sf

Height: 8-10 f

Finishes:

• Image: executive • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: hard- paint

Systems

• HVAC: multi zone-low vel • Plumbling: none

· Lighting: daylight, ambient, task

Furniture/Equipment: office furniture for 1

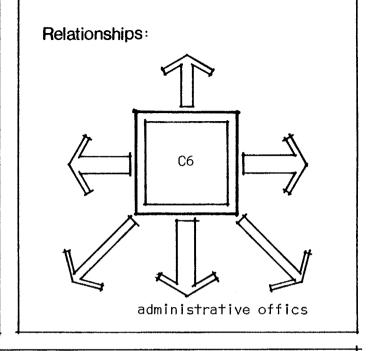
C6 Office Supply Storage

Users: Staff

Function / Activities:

this space provides storage for office supplies and back files

Special Considerations:



Area: 400 sf

Height: 8-10 f

Finishes:

• Image: none

Ceiling:

exposed

• Floor:

hard- tile

· Walls:

hard- vinyl

Systems

• HVAC: multi zone-low vel • Plumbling: none

• Lighting: ambient

Furniture / Equipment :

shelving and files

C7 Conference Room

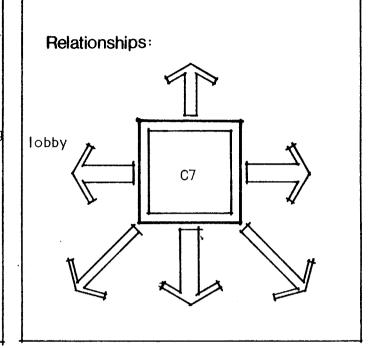
Users: Staff (5-15)

Visitors

Function / Activities:

-room for small group meeting college seminar groups

Special Considerations:



Area: 1000 sf

Height: 10-15 f

Finishes:

• Image: flexibility • Ceiling: acoustical tile

• Floor: soft- carpet • Walls: acoutically controlled

Systems

• HVAC: multi zone-low vel • Plumbling: none

· Lighting: daylight, ambient, dimmers

Furniture/Equipment: must have a small closet and conference

table for a group of up to 15

C8 Break Room

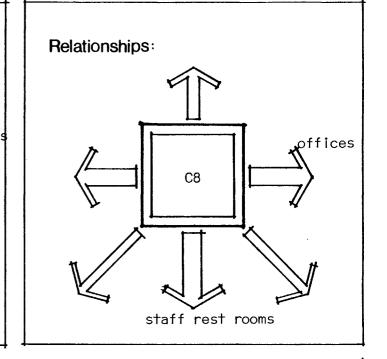
Users: Staff (up to 15)

Function / Activities:

-this area is used for breaks and small lunches

Special Considerations:

-has a small kitchenette



Area: 300 sf

Height: 8-10 f

Finishes:

• Image: relaxing (informal) • Ceiling: acoustical tile

• Floor: soft-carpet • Walls: hard-vinyl

Systems

HVAC: multi zone-low vel • Plumbling: kitchenette facilities

• Lighting: ambient

Furniture/Equipment: seating and tables for 10

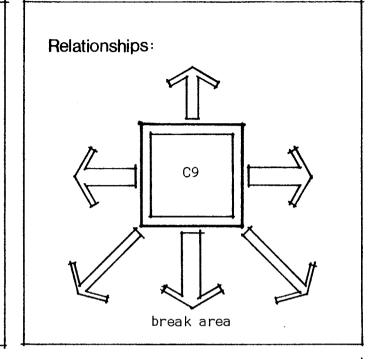
kitchenette

C9 Staff Rest Room Users: Staff

Function / Activities :

Special Considerations:

-should have a direct relationship to break area



Area: as required by code

Height: 8 f

Finishes:

• Image: clean • Ceiling: acoustical tile

• Floor: hard-tile • Walls: hard-tile

Systems

• HVAC: multi zone-low vel • Plumbling: as required by code

• Lighting: ambient

Furniture/Equipment:

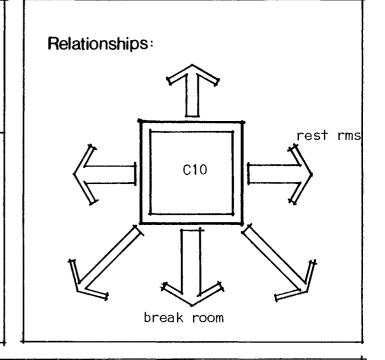
C 10 Maintenance Room

Users: Staff

Function / Activities:

prodides space for the storage of janitorial supplies

Special Considerations:



Area: 100 sf

Height: 8 f

Finishes:

• Image: none

Ceiling:

acoustical tile

• Floor:

hard-tile

none

· Walls:

hard- paint

Systems

• HVAC:

• Plumbling: slop sink

• Lighting: amblent

Furniture / Equipment :

steel shelving and slop sink

Support (functional zone D)

User Roles

The Users of the Support Areas are:

MAINTENANCE/ SECURITY

Building Superintendant

Responsible for the repair, upkeep and general appearance of the building, also keeping all mechanical equipment in good working order. Including heating and air conditioning. He supervises the janitors and is responsible for good performance on all painting, cleaning, plumbing, etc. of the building.

Gaurds

Are responsible for the security of the building and it's contents from, robbery, vandalism, and fire.

Gardeners

The Gardeners will be from the National Park Service and will be in charge of the grounds of the building and surrounding areas.

Required Spaces

D1 Loading Dock
D2 Maintenance room 1000
D3 Security Control rooms varies
D4 Main Mechanical room +2000 *

Total Square Footage

+3000

* small fan rooms are dispersed through out the building.
The main mechanical room acts as an entry point and switch station for the mechanics of the complex.

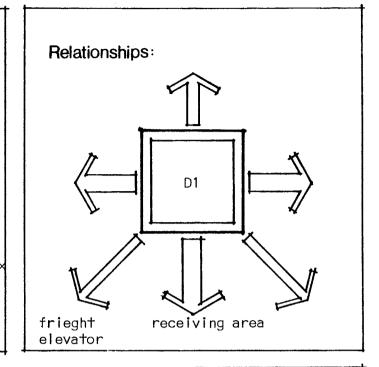
D1 Loading Dock

Users: Delivery trucks

Function/Activities:
-place for recieving and shipping

Special Considerations:

-should be well concealed from the rest of the complex -should accomodate a 45[†] truck



D2 Maintenance Room

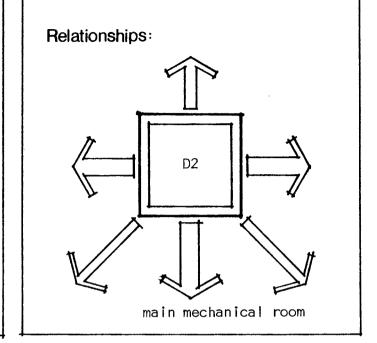
Users: Staff (up to 18)
(building man. 1)
(maintenance 7)
(gaurds 10)

Function / Activities:

-this space provides for the maintenace needs for the complex

Special Considerations:

-these spaces should be
as inconspicous as possible
-should have a slop sink on
each floor



Area: 1000 sf

Height: 8 f

Finishes:

• Image: none • Ceiling: exposed

• Floor: nard-tile • Walls: hard-paint

Systems

• HVAC: multi zone-low vel • Plumbling: slop sink, wash area

· Lighting: ambient

Furniture/Equipment: lockers and shelving

D3 Security Control Room

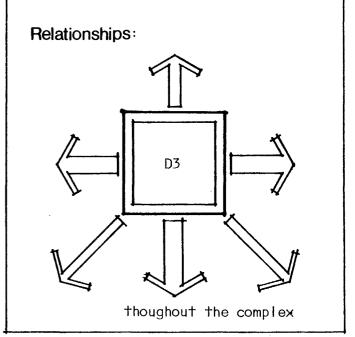
Users: Guard (1)

Function / Activities:

-this space provides room for control panel and monitoring devices, used to provide security and fire protection -also acts as the main secur.

Special Considerations:

there should be a security post close to the exibit galleries this space is a series of smaller spaces, spread throughout the complex



Area: this space is dispered throughout

the complex as small posts

Height: varies

Finishes:

• Image: inconspicuous • Ceiling: varies

• Floor: soft- carpet • Walls: varies

Systems

• HVAC: multi zone-low vel • Plumbling: none

Lighting: ambient(non glare)

Furniture/Equipment:

D4 Main Mechanical Room

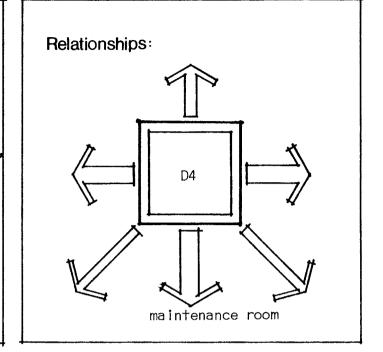
Users: Maintenance

Function / Activities:

-this space is the main room for the entry of electricty, steam, chilled water, etc.

Special Considerations:

-this space might be best on the ground floor because of the loads of the equipment



Area: 2000 sf

Height: 10-12 f

Finishes:

• Image: none • Ceiling: exposed

• Floor: hard-concrete • Walls: hard-paint

Systems

• HVAC: not required • Plumbling: as required

• Lighting: ambient

Furniture/Equipment: Space for required switch gear and equipment



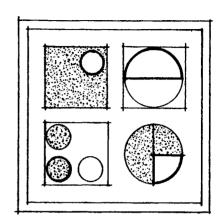
GOALS AND CONCEPTS

Goal

To create a facility to educate the general public on the Vietnam Veterans and the Vietnam War.

Concept

Displaying the personal items of the veterans with the hard facts of the Vietnam War.

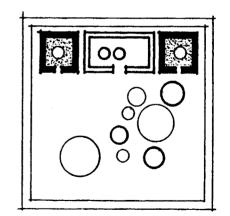


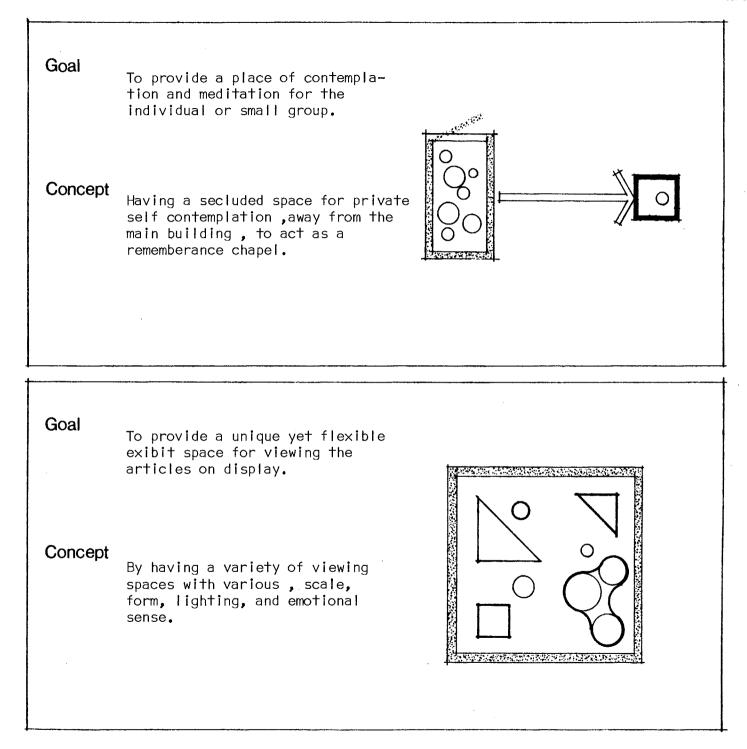
Goal

To provide a facility which will accommodate large groups of people and still retain respect for the individual.

Concept

Having a mix between open public spaces and more intimate public spaces.



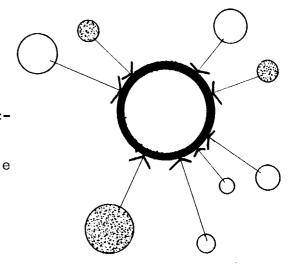


Goal

To provide a facility for the researchers to congregate for specific topics on the Vietnam Veterans and/ or the Vietnam War.

Concept

Consolidation of all the resources on the veterans and the war, which are now scattered in different locations, to a single resource center.

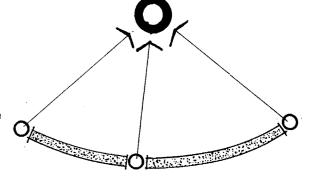


Goal

To provide a sense of orientation.

Concept

Using a focal point as a reference within the Complex to prevent the feeling of being lost.

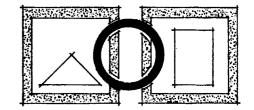


Goal

To provide a clear separation between the general public and the private functions of the Complex.

Concept

To physically separate the private and public functions and to use the administration as the connecting link between them.

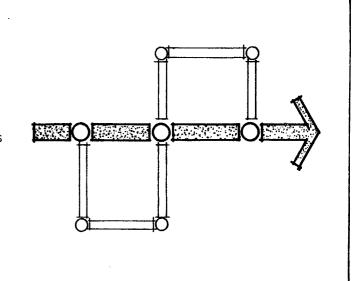


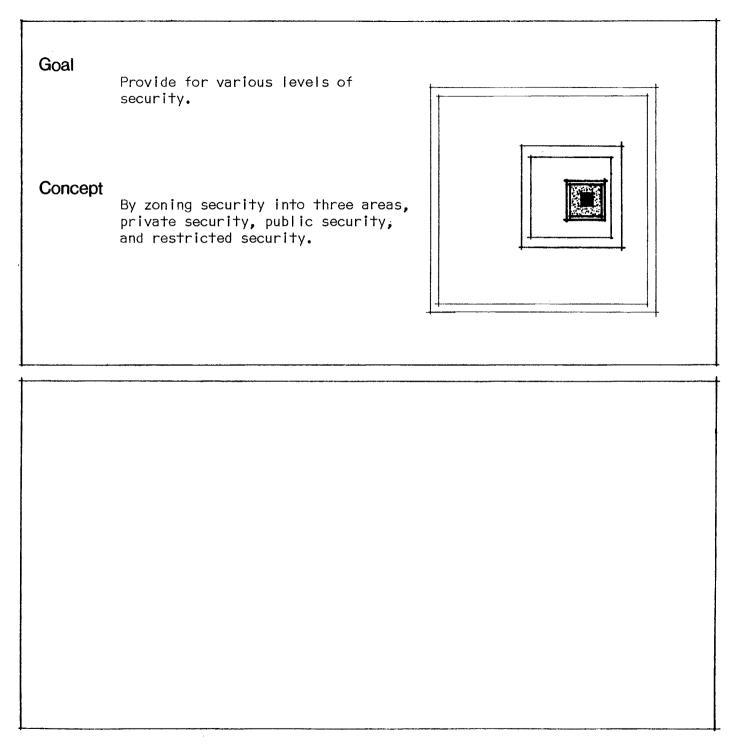
Goal

To provide a clear circulation for public spaces through the museum functions.

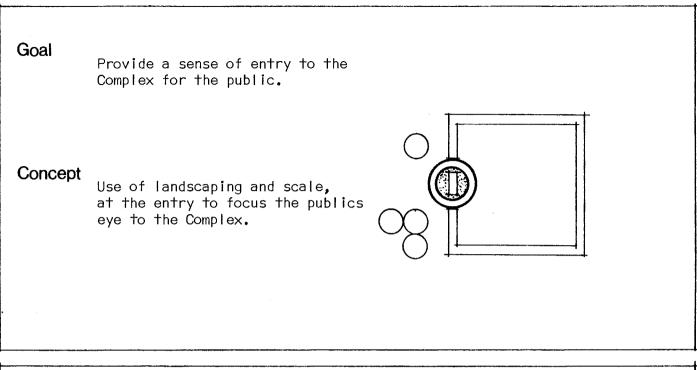
Concept

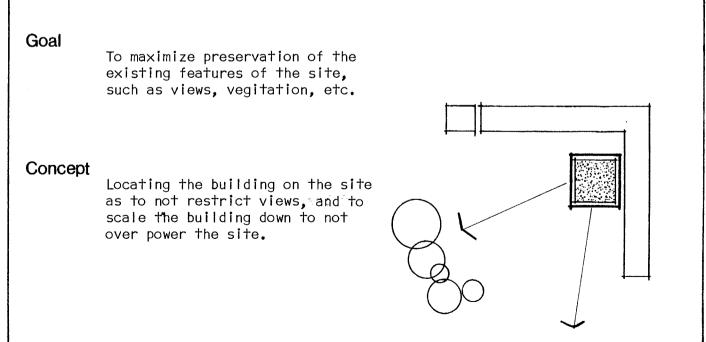
Developing a sequence of events along a path with sub-paths.





Form





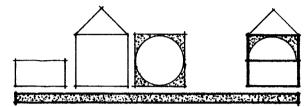
Form

Goal

To respect the existing architecture, axes, and character of the region.

Concept

By considering the building materials, massing, detail, and character which compliments or contrast the existing buildings in this area.

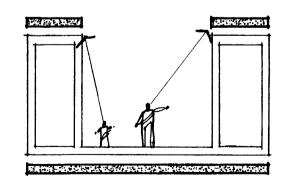


Goal

Provide an image which would not be monumental in form, but to a more human scale.

Concept-

Through the use of building hieghts, set backs, etc. And the use of material details.



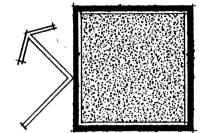
Economy

Goal

To minimize maintenance cost.

Concept

Consider building materials which require a minimal maintenance and repair, both interior and exterior.

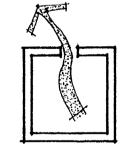


Goal

To minimize operational cost.

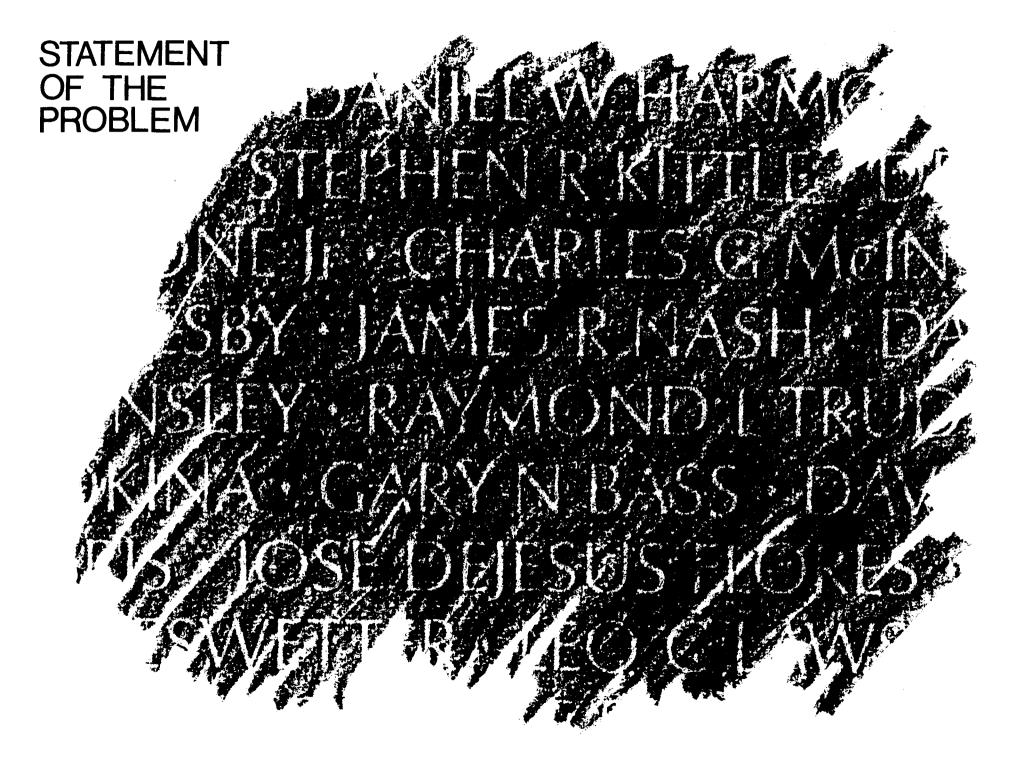
Concept

The form, construction and orientation, should be sysmpathetic to an energy concieous design, through the use of daylighting, and other forms of passive energy conservation.





Time Goal To create a flexible environment which will accomodate the exibits and storage of the exibits "today" and has the potential for minimal expansion in the future. Concept Through site planning and functional zoning, the exibit space and storage should have the flexibility to expand in the future.



STATEMENT OF THE PROBLEM

Since the major function of the Museum and Resource Center is to educate the general public, on the facts of the Vietnam Veterans and the Vietnam War, the museum exibits should be relatively simple and easily comprehendable.

Since the security varies from extreme public, (the museum exibits) to extreme private, (the document storage), there should be a clear separation between the Museum and the Resource Center.

Form

Since the Museum and Resource Center is to be located on a very unique site, it should respond to the existing elements of the site, such as the views, trees, topograpy, and the federal function of the city.

Since the Museum is to be used by groups and individuals with various emotional feelings about the Vietnam Veterans and the Vietnam War, the Museum should have a very humanistic scale.

Since the Resource Center is a central collection area of all the information concerning the Vietnam War, the Resource Center should project an image of security and strength.

Economy

Since the Museum and Resource Center is for the people of the United States of America, it should be constructed of the highest quality materials to the reflect the American sense of pride.

Time

Since the Museum and Resource Center will expect some growth through donations, the Museum should be designed with expansion in mind.



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Auditorium Design Lighting Security	



BACKGROUND

The tragedy of the Vietnam War continues years after the signing of the truce, long after the final American withdrawal. Among those still suffering are numerous veterans who have felt forgotten, unappreciated, and even discriminated against. For some of them, the trauma of their battle experiences or their physical disabilities have shattered their lives. For even more, adjustment of civilian life has not been easy; they have been truly "strangers at home."

Much of the travail of the Vietnam veterans is in keeping with the lot of veterans since Homeric times or earlier. For Americans returning from earlier wars, psycholocical and economic adjustments were painful even for Revolutionary War heroes. The hardships and perils facing the Continental Army were so acute, and the needs of families back on the farms were so imperative, that large numbers of soldiers quietly slipped home. During the Civil War the numbers of deserters from both the Union and Confederate armies were in the hundreds of thousands. In World Wars I and II, discipline was so much tighter that desertion was kept to a minimum, but the vicissitudes of army life and the horrors of fighting were the lot of millions of combat troops. Many veterans never fully recovered either physically or psychologically.

Quite possibly in years to come, as perceptions of the Vietnam War alter, a larger proportion of the veterans of this war will, like those of earlier wars, come to enjoy the roles of heroes. Already by 1979, the Vietnam government's invasion of Cambodia and its cruel treatment of the Chinese minority, the forced exodus of the "boat people," and the dedication of the Vietnam Veterans Memorial, were

making a difference. In time the Vietnam War, too, might generally be perceived as a "just war."

Overall most of the veterans adjusted well both to military service and to their return to civilian life. However, less than half were stationed in Vietnam, and only part of these were combat veterans. It is upon those who served in Vietnam, and especially those who were in combat, that this study, and public attention, rightfully focuses.

In the perceptive analysis and the excerpts from excellent oral history interviews one finds all of the varied responses to combat service that earlier soldiers have experienced, from becoming "war lovers" to suffering shocked revulsion against killing and especially feeling guilt over not somehow preventing the death or wounding of a buddy.

The anguish of of Vietnam veterans, although not in most respects different from that resulting from previous wars, is not easy to alleviate. The fact that public opinion is more sympathetic and that the government may be of more help is encouraging. Most Vietnam veterans have successfully become civilians; life may become more tolerable for the remainder. It is difficult to visualize any number ever living to look with nostalgia upon their experiences, as did Civil War veterans, but the future should bring them a sense of dignity and pride.



The Veterans.....

Our Father, our hearts are saddened and our spirits are in anguish for we continue to kill those whom we should be healing. We know that the enemies of peace are in all men, avarice, fear, enmity, anger and pride. We know that the first sacualty of was is truth, and yet we debate in ignorance the rightness or wrongness of our cause. Help us rise above our petty truths and national interests. May we know Thy will for all men and all nations. Save us from the brink of this man made Hell of distruction. As we pray for peace, show us what you would have us to be and do.

Pfc. Carl D. Rogers

The Veterans Letters from Vietnam

Dear Folks,

I'm writing this letter as my last one. You've probably already received word that I'm dead and that the government wishes to express its deepest regret.

Believe me, I didn't want to die, but I know it was my part of the job. I want my country to live for billions and billions of years to come.

I want it to stand as a light to all people oppressed and guide them to the same freedom we know. If we have done the job God set down for us. It's up to every American to fight for the freedom we hold so dear. If we don't the smells of free air could become dark and damp as in a prision cell.

I can hold my head high because I fought, whether it be in heaven or hell. Besides, the saying goes, "one more GI from Vietnam, St. Peter; I've served my time in hell."

Don't mourn me, Mother, for I'm happy I died fighting my country's enemies, and I will live forever in people's minds. I've done what I've always dreamed of. Don't mourn me, for I died a soldier of the United States of America.

God bless you all and take care. I'll be seeing you in heaven.

Your loving son and brother.
Butch

Letters from Vietnam

Dear Mom,

... Mom, I know I will never be the same Joe. Last night I lost one of my best buddies. It wasn't Bob, but he used to run around with us. Some how the V.C. got through our lines and threw a grenade into where my buddy was sleeping. One of my other buddies was wounded seriously and he's expected to die any time. You know, Mom, things didn't really bother me until we got out here in the bad part of Da-Nang. And now I lose two buddies. It's hard, Mom, to get over something like this, that's why I say it's gonna be different.

I don't even smile anymore, nothing seems funny to me, e erything is serious now. Once I get out of here I never want to hear another word about Vietnam or wars. Y u r ad in the papers about demonstrators and all this other bull shit, they ask why we are over here. Well we're stopping communism over here instead of in the people's backyard back home in the U.S.A. And we're doing a damn good job over here and we'll keep on doing a good job. Our Marine corps saying "Death Before Dishonor."

Well the rainy season has finally moved in. It rains just about every day now. Sometimes all day and night.

I sure would like to see my family, especially my little niece. It's gonna be like a new world when I get home. Everything is gonna be so different....

Well, Mom I'm gonna have to rush off now. I'll write more later. God Bless you.

I love you, Joe

Letters from Vietnam

I work seven days a week. Yesterday I stood guard for twelve hours in continuous pouring, pouring rain, covered only by a poncho, trying to keep my rifle dry. Had a most miserable bout with diarrhea-and only an outhouse. A toad just jumped into my sleeping bag. Did you know that this here is the domain of King Cobra? I am thinking of getting me a mongoose, as so many do for protection. Haven't had a cold drink yet. My dreams consist of snow capped mountains, huge icicles, and frosted glasses of beer. Drove three miles by truck to take a shower, am back and just as sweaty as before. Everything sticks; the heat and the humidity are unbearable, inhuman!!! In the rain it is only a cool 90 or so. I asked one of our cooks, "How come there is so much rain here, when other parts of the world there is not enought water?" He said: " My boy, this here is not part of the earth; this here is Hell and He is trying to put the fire Out!" In spite of all, I am in real good spirits, mainly because you and all the family have been so wonderful with your letters. ostly I miss fresh milk. Once in a while we get fresh eggs, instead of powdered ones. We had steak for dinner; at least I think it was steak....

(name with-held)

Letters from Vietnam

Dear Barbara,

.... I'm sorry that I've neglected to write, but I've been so tired and tensed up that I hardly know what I'm doing at times. It has gotten to the point where I'm still groggy and half alert an hour and a half after I've been up. I wish they were going to give us some time off. It had better be soon, as most of us have been working 18 and 20 hours a day, besides having 12 hours of guard very fourth night...

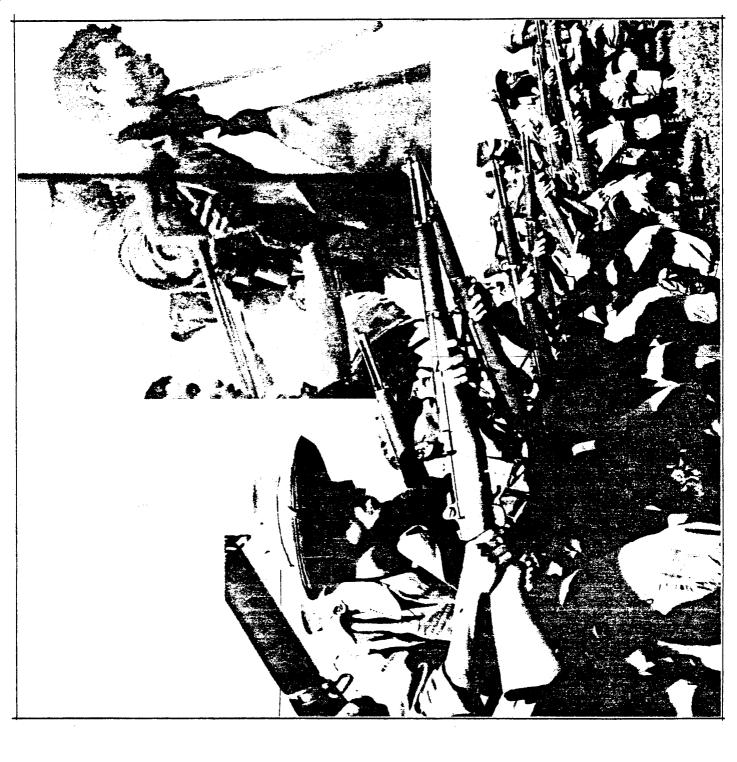
Was in V.C. territory this morning and had a couple of shots go whizzing past our vehicle. I wish these little SOB's would come out in the open so we could "clean their clocks" for them. We have a "code of ethics" over here. Don't shoot at them unless they shoot at you first. Just great, isn't it! I sometimes wonder who we are tyring to impress over here....

Your loving brother, George

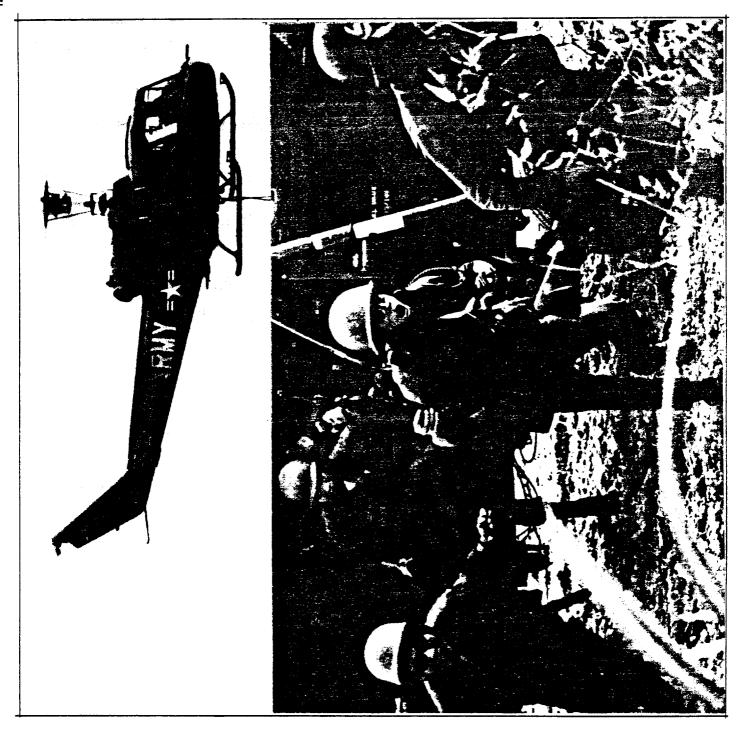
The Vietnam War was the longest in our Nation's history. Two American advisers were killed on July 8, 1959, and the last casualties in connection with the war occured on May 15, 1975, during the "Mayaquez" incident. Approximately 2.7 million Americans served in the war zone; 300,000 were wounded and approximately 75,000 permanently disabled. Of the casualties, about 1300 remain missing and unaccounted for.

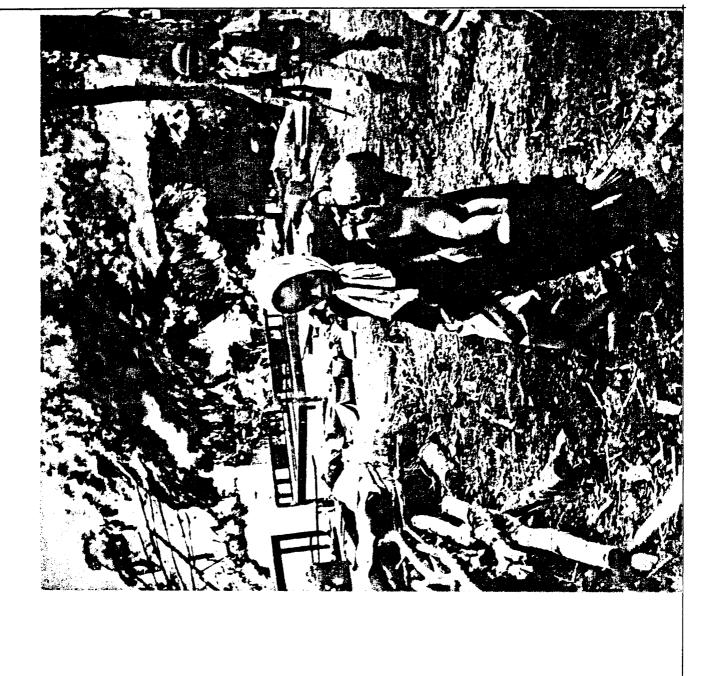
The American advisory role began in the mid-1950s. and by 1964 U.S. personnel numbered approximately 20,000. With the "Gulf of Tonkin" Resolution, on August 7, 1964 the U.S. Congress authorized the President "to take all necessary measures to repel any armed attack against the forces of the United States and to prevent further aggression." The first American combat troops were landed in March 1965; by mid-1969, at the hieght of U.S. involvement, American military personnel in Vietnam numbered 550,000. Under a treaty signed by North Vietnam, South Vietnam, the Viet Cong, and the United States, a cease-fire went into effect on January 28, 1973. On April 30, 1975, the government of the Republic of Vietnam surrendered to the advancing North Vietnamese forces and all remaining U.S. civilian and military personnel were evacuated.

During the war, American soldeirs, sailors, airmen, and marines fought with heroism and determination under some of the most difficult circumstances ever encounterd by American military personnel. Tragically, upon thier return home they received virtually no recognition for their service and sacrifice because of the raging domestic controversy over U.S. policy in conducting the War.











Chronology of Events in Viet-Nam and Southeast Asia

"The Vietnam Reader"

Marcus G. Raskin and

Bernard B. Fall

By:

1945

September 2.

Proclamation by Ho Chi Minh of the Demo-

cratic Republic of Viet-Nam.

1946

March 6.

France recognizes the Democratic Republic

of Viet-Nam as a "free state within the French Union." French troops return to

North Viet-Nam.

September 14.

Modus vivendi signed in Paris between Ho

Chi Minh and French Overseas Affairs Min-

ister Marius Moutet.

November 23.

At Hai Phong French troops open fire on

civilian population, kill 6,000.

December 19.

Viet-Minh forces throughout Indochina at-

tack French troops. The French-Indochina

War begins.

1947

March.

Last attempts at negotiation between French

and Viet-Minh fail.

1948

June 5.

Bao Dai, French High Commissioner Émile

Bollert, and General Nguyen Van Xuan sign

the Baie d'Along Agreement to establish 1954 State of Viet-Nam with Bao Dai as chief of state within the French Union. May 8. Fall of Dien Bien Phu. May 8-July 21. Geneva Conference on Indochina. The delegates are from Great Britain and the U.S.S.R. 1949 (Joint chairmen), France, the United States, The Elysée Agreement, in the form of an March 8. Communist China, Cambodia, Laos, and exchange of letters between Bao Dai and Viet-Nam and the Viet-Minh regime. Agree-President Auriol of France, outlines the genments are signed on July 20 and 21 and the eral principles affecting French-Viet-Nam main provisions concerning Viet-Nam are relations. that (1) Viet-Nam is to be partitioned along July 1. Bao Dai decrees formally establish State of the 17th Parallel into North and South Viet-Viet-Nam and provide a basis for its organi-Nam, (2) regulations are imposed on foreign zation on a constitutional framework. military bases and personnel and on increased armaments, (3) country-wide elections, lead-1950 ing to the reunification of North and South February 7. Great Britain and the United States extend Viet-Nam, are to be held by July 20, 1956, de jure recognition to Viet-Nam. and (4) an International Control Commis-February 19. U.S. Consulate General in Saigon is raised sion (I.C.C.) is to be established to superto Legation, and Minister accredited to Vietvise the implementation of the agreements. Nam, Cambodia, and Laos. The United States and Viet-Nam are not sig-December 23. United States signs Mutual Defense Assistnatories to the agreements. The United States ance Agreement with France, Viet-Nam, issues a unilateral declaration stating that it Cambodia, and Laos for indirect U.S. mili-(I) "will refrain from the threat or the use tary aid to Viet-Nam, Cambodia, and Laos. of force to disturb" the Geneva Agreements, (2) "would view any renewal of the aggres-1951 sion in violation of the aforesaid agreements September 7. United States signs agreement with Viet-Nam with grave concern and as seriously threatenfor direct economic assistance. ing international peace and security," and September 8. Delegates from Viet-Nam, Cambodia, and (3) "shall continue to seek to achieve unity Laos participate in the signing of the Japathrough free elections, supervised by the nese Peace Treaty at San Francisco. U.N. to insure that they are conducted fairly." Head of State and former Emperor Bao Dai July 7. 1952 appoints Ngo Dinh Diem Premier of Viet-U.S. Legation in Saigon is raised to Embassy July. Nam. status. U.S. Ambassador presents credentials President Eisenhower sends a letter to Pre-October 24. to Bao Dai. Vietnamese Embassy is estabmier Diem of South Viet-Nam stating that lished in Washington, D.C. American assistance will be given directly October 12. The 200th U.S. ship carrying military aid to the government of South Viet-Num. The arrives in Saigon. letter also states that the U.S. government

xpects this aid will be met by underking needed reforms." onference of France and the Associated ates (Cambodia, etc.) terminates the ecomic and customs union between the Associated States and France. 1955 nited States begins to render direct as-	December 12. January.	who becomes the first President of South Viet-Nam. U.S. Consulate in Hanoi is closed. 1956 South Vietnamese Army units occupy Tay Ninh, principal Cao-Dai political center, lead-
onference of France and the Associated ates (Cambodia, etc.) terminates the ecomic and customs union between the Asciated States and France. 1955		1956 South Vietnamese Army units occupy Tay Ninh, principal Cao-Dai political center, lead-
ciated States and France.	January.	Ninh, principal Cao-Dai political center, lead-
		ing to brookup of the organized Coo Dai
nited States hegins to render direct as-		ing to breakup of the organized Cao Dai armed sect.
tance to Viet-Nam.	February 12.	Tran Van Soai, leader of an important Hoa- Hao faction, surrenders. Ba Cut, another
ne U.S. Military Assistance Advisory Group M.A.A.G.) takes over the training of the buth Vietnamese Army.		principal Hoa-Hao leader, is captured on April 13. Hoa-Hao armed insurgency continues.
outheast Asia Collective Defense Treaty (EATO)—with its protocol covering Vietam, Cambodia, and Laos—comes into cree.	March 4.	General elections for South Viet-Nam's first National Constituent Assembly, which is to have 123 members, results in the victory of the National Revolutionary Movement and
nou En-lai and the North Vietnamese For- gn Minister give assurances of "noninter- gence" to ex-King Sibanouk of Cambodia	April 6.	other political parties supporting President Diem. Viet-Nam government announces it will con-
emier Diem forms a new Cabinet composed gely of his own followers.	•	tinue to co-operate with the I.C.C. and reiterates its position of supporting Viet-Nam-wide
eneva Agreement) for the preparation of		elections at such time as conditions in Com- munist North Viet-Nam permit genuinely free voting.
56, to reunite the country. The government	April 26.	French High Command in Indochina dissolved.
mese government's invitation to discuss	July 20.	All-Vietnamese election, as provided in 1954 Geneva declaration, fails to take place.
et-Nam the people would not be able to press their will freely and that falsified	July 30.	Vietnamese liaison mission to the I.C.C. is established preparatory to the transfer of functions from the French liaison mission.
tes in South Viet-Nam.	October 26.	South Viet-Nam's first constitution is promulgated and the National Constituent Assembly
er Emperor and, since March 7, 1949,		is officially transferred into a National Assembly.
nt of the votes express preference for Pre-		1957
er Diem. Republic is proclaimed by Ngo Dinh Diem	January 3.	International Control Commission reports that between December, 1955, and August,
	M.A.A.G.) takes over the training of the uth Vietnamese Army. utheast Asia Collective Defense Treaty EATO)—with its protocol covering Vietnam, Cambodia, and Laos—comes into rece. nou En-lai and the North Vietnamese Form Minister give assurances of "noninterrence" to ex-King Sihanouk of Cambodia. The emier Diem forms a new Cabinet composed regly of his own followers. Alks were scheduled to begin (according to eneva Agreement) for the preparation of Viet-Nam elections to be held on July 20, 56, to reunite the country. The government South Viet-Nam rejects the North Vietnamese government's invitation to discuss the elections, on the grounds that in North ret-Nam the people would not be able to press their will freely and that falsified tes in North Viet-Nam could overrule the tes in South Viet-Nam. national referendum deposes Bao Dai, form Emperor and, since March 7, 1949, and of State of Viet-Nam. Ninety-eight per not of the votes express preference for Prefer Diem.	M.A.A.G.) takes over the training of the uth Vietnamese Army. utheast Asia Collective Defense Treaty EATO)—with its protocol covering Vietname, Cambodia, and Laos—comes into rece. nou En-lai and the North Vietnamese Form Minister give assurances of "noninterrence" to ex-King Sihanouk of Cambodia. emier Diem forms a new Cabinet composed gely of his own followers. alks were scheduled to begin (according to eneva Agreement) for the preparation of Viet-Nam elections to be held on July 20, 56, to reunite the country. The government South Viet-Nam rejects the North Vietnamese government's invitation to discuss the elections, on the grounds that in North et-Nam the people would not be able to press their will freely and that falsified tes in North Viet-Nam could overrule the tes in South Viet-Nam. October 26. July 30. July 30. October 26.

May 5–19.	1956, neither North Viet-Nam nor South Viet-Nam has been fulfilling its obligations under the 1954 armistice agreement. President Diem visits the United States. He addresses on May 9 a joint session of Congress. In a joint communiqué (issued May 11), President Eisenhower and President	April 30.	ance and Advisory Group in South Viet-Nam. An opposition group of 18, calling themselves the Committee for Progress and Liberty, sends letter to President Diem demanding drastic economic, administrative, and military reforms.
_	Diem declare that both countries will work toward a "peaceful unification" of Viet-Nam.	May 5.	United States announces that at the request of the government of South Viet-Nam, the
June 30.	French naval and air force training mission withdrawn at South Vietnamese request.		U.S. Military Assistance and Advisory Group will be increased by the end of the year from 327 to 685 members.
October 22.	Bombing of U.S. M.A.A.G. and U.S.I.S. installations in Saigon; U.S. personnel injured.	November 10.	South Viet-Nam government sends letter to the I.C.C. charging that Communist attacks
	1958		in the Kontum-Pleiku area in October (1)
January 4.	Large Communist guerrilla band attacks plantation north of Saigon, reflecting steady increase in Communist armed activity in South Viet-Nam since mid-1957.		involved regular army forces from Commu- nist North Viet-Nam through Laos, (2) con- stituted open aggression which was well prepared, commanded by high-ranking offi-
Мау 17.	North Vietnamese liaison mission to the I.C.C. withdrawn from Saigon at request of South Viet-Nam.		cers, and conducted by regular forces trained in North Viet-Nam, and (3) employed weap- ons made in North Viet-Nam and other Com-
September 10.	France and South Viet-Nam sign agreement under which France provides aid for the Viet-Nam government's agrarian reform program—1,490 million francs.	November 11.	munist countries. Military coup attempt against President Diem's regime. Rebel Col. Thi declares that President Diem is guilty of autocratic rule and nepotism and has "shown himself in-
	1959		capable of saving the country from commu-
August 30.	Second national elections give the National		nism and protecting national unity."
	Revolutionary Movement and other pro-Government political parties all seats in the Na-	November 12.	Loyalist troops enter the capital and subdue the rebels.
	tional Assembly in South Viet-Nam. No opposition candidates are allowed to take their seats.	November 13.	U.S. State Department expresses satisfaction at the failure of the coup against President Diem and also hopes that "his powers will
	1960		be established on a wider basis with rapid implementation of radical reforms and ener-
April 17.	North Viet-Nam protests to the chairmen of the 1954 Geneva Conference (Britain and		getic action against corruption-suspected ele- ments."
	the U.S.S.R.) against a "formidable" increase of personnel in the American Military Assist-	December 20.	Foundation of National Liberation Front of South Viet-Nam.

	1961		
January 29.	Radio Hanoi praises establishment of the "National Front for the Liberation of South Vict-Nam (NLFSV)."		communiqué states that during the month of August there were 41 engagements between Government forces and Communist rebels
April 3.	United States-Vietnamese Treaty of Amity and Economic Relations signed in Saigon. National Assembly ratifies treaty on June 14.	September 17.	in South Viet-Nam. British advisory mission on administrative and policy matters, headed by R. K. G.
April 4.	President Diem appeals to the I.C.C. to make an "immediate and energetic investigation" of growing Communist terrorism and subver-		Thompson (former Permanent Defense Secretary in Malaya), leaves for South Viet-Nam.
April 9.	sion throughout South Viet-Nam. President Diem and Vice President Tho are elected by an overwhelming majority in Viet-	September 18.	Communist forces estimated at 1,500 men attack and seize the capital of Phuoc Thunh Province, only 60 miles from Saigon.
May 5.	Nam's Presidential elections. President Kennedy declares at a press conference that consideration is being given to the use of U.S. forces, if necessary, to help	September 25.	President Kennedy, addressing the U.N. General Assembly in New York, declares that a threat to peace is "the smoldering coals of war in Southeast Asia."
	South Viet-Nam resist Communist pressures. He declares that this will be one of the subjects discussed during the forthcoming visit of Vice President Johnson in South Viet-Nam.	October 1.	Military experts of SEATO meet in Bang- kok, Thailand, to consider the increasing Communist menace to South Viet-Nam. Adm. Harry D. Felt, U.S. Navy Commander in Chief in the Pacific, declares that there
May 11-13.	U.S. Vice President Johnson in South Viet- Nam. Joint communiqué on May 13 declares that additional U.S. military and economic aid will be given to help South Viet-Nam in its fight against Communist guerrilla forces.		is no immediate prospect of using U.S. troops to stop the Communist advance in Southeast Asia, but he indicates that among the plans evolved for "every eventuality" some do call for the use of American troops.
May 16.	Fourteen-nation conference on Laos convened in Geneva.	October 2.	President Diem declares at the opening of the National Assembly's budgetary session:
June 12.	Communist Chinese Premier Chou En-lai and North Vietnamese Premier Phan Van Dong (in Peking on a visit) accuse the United States of aggression and intervention in South Viet-Nam.		"It is no longer a guerrilla war It is a war waged by an enemy who attacks us with regular units fully and heavily equipped and who seeks a strategic decision in Southeast Asia in conformity with the orders of the
August 2.	President Kennedy declares that the United States will do all it can to save South Viet-Nam from communism.		Communist International." The President also says that the U.S. committee headed by Dr. Eugene Staley recommended an increase
September 1-4.	Series of attacks by 1,000 Communist guer- rillas in Kontum Province. Army Command	October 11.	in aid both for military measures and for economic and social development. President Kennedy announces at his news conference that he is sending General Max-

ı	well D. Taylor, his military adviser, to South Viet-Nam to investigate there the military situation and to report on it to him per-	February 27. March 17.	Two South Viet-Nam Air Force fighter planes bomb and strafe Presidential palace in Sai- gon. Mme. Ngo Dinh Nhu slightly injured. Tass Soviet news agency publishes Soviet
October 18.	sonally. State of emergency is proclaimed in South Viet-Nam by President Diem.	March 17.	Ministry note to the signatories of the 1954 Geneva Agreements. The note charges the
November 16.	Following closely the recommendations in General Taylor's report, President Kennedy decides to bolster South Viet-Nam's military strength, but not to commit U.S. combat forces at this time.		United States with creating "a serious danger to peace" by its "interference" in South Viet-Nam, in contravention of the Geneva Agreements, and demands immediate withdrawal of U.S. troops.
December 8.	U.S. State Department publishes White Paper that South Viet-Nam is threatened by "clear and present danger" of Communist conquest.	March 22.	"Operation Sunrise," a comprehensive plan to eliminate the Viet-Cong guerrillas in South Viet-Nam, begins with a mopping-up opera- tion of rebels in Binh Duong Province.
December 14.	U.S. President Kennedy pledges increased aid to South Viet-Nam.	April 20.	National Assembly pledges full support to President Diem's plan to establish thousands of "strategic hamlets" in the Communist-
January 4.	A joint United States-South Vietnamese communiqué announces "broad economic and social program [to raise living standards] Measures to strengthen South Viet-Nam's defense in the military field are being taken	June 2.	infested Mekong Delta during the current year. Canadian and Indian members of the I.C.C. find North Viet-Nam guilty of subversion and covert aggression against South Viet-Nam. The Polish delegation to the Commission re-
February 7.	simultaneously." Two U.S. Army air-support companies totaling 300 men arrive in Saigon, increasing the total of U.S. military personnel in South Viet-Nam to 4,000.	June 26.	jects the charge. South Viet-Nam's National Assembly votes to extend its term of office by one year, to August, 1963. The explanation given is that it is impossible to hold elections now, because
February 8.	United States reorganizes its South Viet-Nam military command, establishes new "U.S. Military Assistance Command, Viet-Nam" (M.A.C.V.) under four-star General Paul D. Harkins.	July 6.	it would tie down troops needed against the Communist guerrillas. U.S. Secretary of Defense Robert McNamara declares that, while a final victory over the Communists in South Viet-Nam is years
February 24.	In a Peking Radio broadcast, Communist China declares her security seriously threatened by an "undeclared war" being waged by the United States in South Viet-Nam. The broadcast demands the withdrawal of U.S. personnel and equipment.	August 20.	away, he is encouraged by the increased effectiveness of U.S. aid to the South Vietnamese forces. Sihanouk asks President Kennedy for an international conference to guarantee Cambodia's neutrality—threatens to ask for Chi-

	nese Communist protection in the absence of guarantees.		situation in South Viet-Nam "difficult and dangerous," and says that the United States
October 26.	National Assembly extends by one year President Diem's emergency powers to rule		"cannot promise or expect a quick victory" and that its role is "limited and supporting."
November 8.	by decree. South Viet-Nam withdraws its Ambassador to Laos as a result of Laos' establishment of diplomatic relations with North Viet-Nam.	March 5.	Gen. Paul D. Harkins, Commander of Military Assistance Command, Viet-Nam (M.A.C.V.) affirms that "the South Vietnamese Armed Forces have now attained the
December 6.	South Vietnamese government protests to the I.C.C. against the introduction of Chinese-		experience, training, and necessary equip- ment required for victory."
December 29.	made weapons and ammunition. Government in Saigon announces that 4,077 strategic hamlets have been completed (of a total of 11,182 to be built) and that 39 per cent of South Viet-Nam's population is now living in these communities.	May 8.	Riot erupts in northern city of Hué, former imperial capital, 400 miles north of Saigon. Involves Buddhist celebration of the anniversary of Buddha's birth and the flying of flags on the special day—12 persons are killed, including some children. Buddhist
	1963		leaders charge that government troops fired into the crowd, while government officials
January 2.	At the village of Ap-Bac, in the Mekong Delta, 200 VC soldiers hold their ground		say that Communists were responsible for the explosion.
	against 2,000 A.R.V.N. troops supported by helicopters, airplanes, and armor (shoot	June 3.	Buddhist demonstrations break out in Hué. Martial law is swiftly imposed.
	down 5 helicopters, kill 3 Americans). This is the first "stand-and-fight" battle of the Second Indochina war.	June II.	Buddhist monk (Thich Quang Duc) commits suicide by burning himself to death with gasoline in front of the Cambodian legation.
January 9-11.	Adm. Harry D. Felt, Commander in Chief of U.S. forces in the Pacific, confers with		Further aggravates religious crisis involving South Vietnamese Buddhists.
	Gen. Paul D. Harkins and declares, before his departure, that the Viet-Cong guerrillas face "inevitable" defeat, and he says: "I am	June 16.	Government troops use force to suppress riots in Saigon which follow an agreement between Buddhist leaders and the government.
	confident the Vietnamese are going to win the war."	June 27.	President Kennedy announces the appoint- ment of Henry Cabot Lodge as the next
January 30.	Admiral Felt, Commander in Chief, Pacific, states that "the South Vietnamese should achieve victory in three years."	July 11.	American Ambassador to South Viet-Nam. U.S. Ambassador Nolting returns to South Viet-Nam after consultations in Washington
April 17.	President Diem proclaims an "open arms" campaign to induce Viet-Cong guerrillas to give up their weapons and return to the side of South Viet-Nam.		and issues a statement assuring continued U.S. support to President Diem and warning that "unity of purpose and purpose in action" must not be weakened by "internal dis-
April 22.	U.S. Secretary of State Dean Rusk calls the		sension."

August 21.	Martial law is proclaimed throughout South Viet-Nam by President Diem after hundreds of armed police and government troops raided the main Buddhist Xa Loi pagoda in Saigon.	September 2.	Times of Vietnam charges that U.S. Central Intelligence Agency agents had planned a coup d'état for August 28 to overthrow President Diem. On the same day, U.S. President Kennedy declares that the United States
August 22.	Foreign Minister Vu Van Mau (a Buddhist) submits his resignation to President Diem. Also on the same day, South Viet-Nam's Ambassador to the United States Tran Van		is prepared to continue to assist South Viet- Nam "but I don't think that the war can be won unless the people support the effort and, in my opinion, in the last 2 months, the gov-
	Chuong (father of Mme. Ngo Dinh Nhu)		ernment has gotten out of touch with the
	resigns. Both resign in disapproval of government policies toward Buddhists. Department of State issues statement deploring	September 13.	people." Marquis Childs is quoted in the Washington Post as stating that "confidential reports from high American authorities in Saigon say that
August 26.	action against Buddhist pagodas. U.S. Ambassador Henry Cabot Lodge presents his credentials to President Diem.		the war can be won in 9 months. They say that the border with North Viet-Nam has
August 27.	Cambodia breaks off diplomatic relations with South Viet-Nam.		been 95 per cent closed. The Viet-Cong guerrillas are being starved out."
August 28.	A senior M.A.C.V. officer is quoted in the	September 14.	Decree announces end of martial law in Viet- Nam on September 16.
	New York <i>Herald Tribune</i> as saying that "there has been no evidence of any increase in the number of Viet Cong units in the	September 21.	President Kennedy orders Secretary of Defense Robert S. McNamara and Gen. Max-
	in the number of Viet-Cong units in the Mckong Delta even though we expected there	.*	well D. Taylor, Chairman of the Joint Chiefs of Staff, to go to South Viet-Nam to review
	would be because our strategy is to sweep them steadily southward and finally corner them. The delta area under our control is		the military efforts against the Communist Viet-Cong. McNamara and Taylor in South Viet-Nam from September 24 to October 1.
August 29.	increasing, not spectacularly, but steadily." French President de Gaulle issues policy statement on South Viet-Nam. He declares that France is able "to appreciate the role this people would be capable of playing in	September 27.	Elections are held for the 123-member National Assembly. All candidates were approved in advance by the government; many were unopposed, including President Diem's brother, Ngo Dinh Nhu, and his wife, Mme.
	the current situation of Asia for its own prog- ress and for the benefit of international un- derstanding once it was able to exercise its activity in independence from foreign influ- ence, in internal peace and unity, and in	October 2.	Nhu. In a statement released by the White House, Secretary McNamara and General Taylor reported their judgment that "the major part of the United States military task [Viet-
	concord with its neighbors. Today, more than ever, this is what France wishes for all of Viet-Nam."		Nam] can be completed by the end of 1965." They reported that by the end of this year the United States program for training Viet-

	namese should have progressed to the point where 1,000 U.S. military personnel assigned to South Viet-Nam can be withdrawn.		for a neutral, independent Viet-Nam, stating that the result would be a Communist Viet-Nam.
October 8.	U.N. General Assembly agrees to send a fact- finding mission to South Viet-Nam to inves- tigate charges of government oppression of Buddhists. The Diem government on Octo-	November 15.	U.S. military spokesman in Saigon reports that 1,000 U.S. servicemen will be withdrawn from South Viet-Nam, beginning December 3.
November 1.	ber 4 had invited the U.N. to send such a mission. "Victory in the sense it would apply to this kind of war is just months away and the reduction of American advices can begin	November 20.	U.S. Defense Secretary Robert S. McNamara and Secretary of State Dean Rusk confer in Honolulu, Hawaii, with U.S. Ambassador to South Viet-Nam, Henry Cabot Lodge and
	reduction of American advisers can begin any time now," says Gen. Harkins in <i>The Stars & Stripes</i> , Tokyo.	November 22.	Gen. Paul D. Harkins. President John F. Kennedy is assassinated in Dallas, Texas. His successor Lyndon B.
November 1.	Military coup (organized by the key generals of the armed forces) against the Diem regime. Rebels lay siege to the presidential palace in Saigon, which is captured by the		Johnson affirms on November 24 the U.S. intention to continue its military and economic support of South Viet-Nam's struggle against the Communist Viet-Cong.
	following morning. President Diem and his brother, Ngo Dinh Nhu, escape from the palace, but a few hours later are taken by the rebels, and while being transported in an armored carrier to rebel headquarters	December 19-20.	U.S. Defense Secretary McNamara and Director of C.I.A. John A. McCone in Saigon to evaluate the new government's war efforts against the Viet-Cong.
November 2.	they are assassinated. Military leaders in South Viet-Nam set up		1964
	a provisional Government headed by former Vice President Nguyen Ngoc Tho (a Buddhist) as Premier. The Constitution is suspended and the National Assembly dissolved. Buddhists, students, and other political prisoners arrested by the former regime are released.	January 2.	Secretary Rusk announces in news conference that "A Vietnamese Army group seized in the delta area of Viet-Nam some 300,000 rounds of small arms ammunition, weapons like mortars, recoilless ammunition, made in China" and that almost certainly Hanoi was primarily responsible for their infiltration
November 4.	Premier Nguyen Ngoc Tho of South Viet- Nam announces formation of a mixed mili- tary-civilian Cabinet which has been ap- proved by the military leaders. United States recognizes the new provisional government of South Viet-Nam. U.S. Secretary of State Dean Rusk rejects, during a press confer- ence, French President de Gaulle's proposals	January 17.	into South Viet-Nam. The joint Vietnamese-American survey of the strategic hamlet program shows serious flaws and less than 20 per cent of the 8,000 villages as viable. Gen. Nguyen Khanh was to say in April, 1964, that VC controlled close to 7 million (about 57 per cent of South Viet-Nam's rural population).

January 27.	Secretary McNamara testifies before the House Armed Services Committee: "Viet-Cong activities were already increasing in September [1963] and continued to increase at an accelerated rate in October and November, particularly in the [Mekong] Delta area."	March 26.	In a major policy speech, Secretary McNamara announces that an additional 50 million dollars would be requested for Viet-Nam, that 50 thousand more troops would be levied in South Viet-Nam, and that the war there might not be finished "in the first thousand days of the Johnson Administration."
January 27.	U.S. Secretary of Defense McNamara in a speech before the House Armed Services	April 27.	VC regular strength is now estimated at 45 battalions.
	Committee states that the situation in South Viet-Nam "continues grave," but that "the	May 2.	Explosion in Saigon Harbor sinks U.S. aircraft transport ship.
	survival of an independent government in South Viet-Nam is so important to the se-	May 12.	Secretary Rusk asks NATO members to give greater support to South Viet-Nam.
	curity of Southeast Asia and to the free world that I can conceive of no alternative other than to take all necessary measures	May 12-13.	Secretary McNamara and General Taylor make fifth on-the-spot review of South Viet-Nam.
	within our capability to prevent a Commu- nist victory." France establishes diplomatic relations with Communist China.	May 18.	The White House requests an additional 125 million dollars for economic and military aid to Viet-Nam.
January 30.	Military coup, organized by Maj. Gen. Ngu- yen Khanh, ousts government of Maj. Gen. Duong Van Minh from power in South Viet- Nam.	May 20.	France proposes reconvening of 14-nation conference on Laos in Geneva. This proposal is rejected by the United States and United
February 7.	When asked at a press conference about certain neutralization proposals regarding South Viet-Nam, Secretary Rusk reiterates U.S.		Kingdom and endorsed by the Soviet Union, Poland, Cambodia, India, and Communist China.
	policy that, "If the agreements which have already been reached and which have been signed by those in the north would be fulfilled, there could be peace in Southeast Asia."	May 22.	Secretary Rusk, stating the choices in Viet- Nam, says: "A third choice would be to expand the war. This can be the result if the Communists persist in their course of aggression."
February 18.	Secretary McNamara testifies before Congress that the "bulk" of the United States	June 12.	President de Gaulle calls for an end to all foreign intervention in South Viet-Nam.
	forces in Viet-Nam can still be expected to leave by 1965.	June 23.	President Johnson announces appointment of Gen. Taylor to be U.S. Ambassador to South
March 7.	General Khanh announces a one-year reform program to rebuild South Viet-Nam's politi-		Viet-Nam and Alexis Johnson as Deputy Ambassador.
	cal and administrative structure and raise standard of living.	July 4-9.	Three Special Forces camps are attacked on the Highlands.
March 8-12.	McNamara and Taylor in Saigon.	July 28.	An additional 5,000 U.S. troops will be sent

	to Viet-Nam, raising total U.S. forces there	September 3.	Gen. Khanh resumes premiership; Taylor
	to 25,000.		sees him "rested and recovered." Duong Van
July 30.	A South Vietnamese naval force strikes at North Vietnamese radar and naval installations at Hon Mat and Hon Ngu islands.	September 13.	Minh restored to position of chief of state. Bloodless coup by Brig. Gen. Lam Van Phat against Gen. Khanh in Saigon. It fails.
	Units of the U.S. 7th Fleet apparently were not informed of the strike.	September 20.	Tribesmen from the Special Forces mutiny against Vietnamese officers and demand au-
August 2.	A U.S. Navy destroyer on patrol in the Gulf		tonomy for the mountain areas.
	of Tonkin is pursued by North Vietnamese patrol torpedo boats. They are driven off by gun fire and air attacks.	September 26.	Viet-Nam High National Council formally inaugurated and is charged with preparing a new constitution.
August 4.	U.S. destroyers Maddox and C. Turner Joy	October 20.	Revolutionary Council presents new Viet-
rrogust 4.	report torpedo attack. Two North Viet-	00.0001 20.	Nam constitution.
	namese PT boats sunk.	October 21.	United States charges Cambodian troops
August 5.	United States sends reinforcements to Tonkin Bay area.		crossed South Viet-Nam border and seized a U.S. officer.
August 5.	President Johnson's message to Congress; joint resolution is introduced "To promote	October 25.	United States charges Cambodians fired on U.S. helicopter in South Viet-Nam search-
	the maintenance of international peace and	0-4-66	ing for missing U.S. officer.
August 7.	security in Southeast Asia." U.S. Congress approves Southeast Asia reso-	October 26.	Viet-Nam Revolutionary Council elects Phan Khac Suu chief of state.
August 7.	lution (Senate vote, 88-2; House vote,	October 27.	Cambodia claims it shot down U.S. C-123.
	416-0). Gen. Khanh declares state of emergency in Viet-Nam.	J. J	United States admits plane over Cambodian territory due to "map-reading error."
August 11.	President Johnson signs Southeast Asia resolution into law (Public Law 88-408).	November 1.	Tran Van Huong named Premier of Viet-Nam.
August 16.	Gen. Khanh, elected Vietnamese President by "Military Revolutionary Council," ousts	November 2.	Russia delivers new arms shipment to Cambodia to replace American equipment.
•	Duong Van Minh as chief of state and pro- claims new "constitution."	December 4.	South Viet-Nam military leaders announce support of Premier Tran Van Huong's gov-
August 25.	Gen. Khanh promises liberalization of regime	B	ernment.
Angust of	after repeated protests by Vietnamese. New Viet-Nam Constitution is withdrawn;	December 20.	Military stage purge; dissolve civilian High National Council (provisional legislature).
August 27.	Revolutionary Council disbands; Gen.		United States opposes power takeover of
	Khanh, Duong Van Minh, and Tran Thien		military and dissolution of civilian parlia-
	Khiem are named provisional leaders.		ment.
August 29.	Nguyen Xuan Oanh is named acting premier of Viet-Nam to head caretaker government.	December 21.	Gen. Khanh supports power of military versus U.S. appeals; declares Viet-Nam forces would
	He states Gen. Khanh has suffered "mental and physical breakdown."		not fight "to carry out the policy of any for- eign country."

December 24.	Terrorist bombing in Saigon kills 2 Americans and wounds 52 Americans and 13 Vietnamese.		The President orders "retaliatory" strike on North Vietnamese targets. The round-the clock bombardment of North Viet-Nam be gins. Russian Prime Minister Kosygin wa
January 1.	1965 Battle for Binh-Gia. In a stand-and-fight	February 9.	in Hanoi when raids began. Prime Minister Kosygin in a speech in Hano promises increased aid to North Viet-Nam
	battle, three Communist battalions attack and destroy a larger South Vietnamese force		South Vietnamese air force planes als hit North Viet-Nam.
Y	inflicting heavy casualties.	February 11.	Viet-Cong blow up U.S. barracks at Qui
January 4.	In State of the Union message, President Johnson states: "In Asia, communism wears	February 12.	Nhon. Kill 19 U.S. troops and injure 13. 160 U.S. and Vietnamese aircraft attack
	a more aggressive face. We see that in Viet- Nam.	February 15.	North Viet-Nam. North Viet-Nam asks the withdrawal of In
	"Why are we there?	•	ternational Control Commission Field Teams
	"We are there, first, because a friendly nation has asked us for help against Com- munist aggression. Ten years ago we pledged	February 16.	Peking urges "concrete action" against th U.S. American dependents are being evacuated from South Viet-Nam.
	our help. Three Presidents have supported that pledge. We will not break it. "Second, our own security is tied to the peace of Asia. Twice in one generation we	February 17.	According to a Gallup poll 60 per cent of those questioned are in favor of a Unite Nations force to deal with the problem of Southeast Asia and Viet-Nam. 20 per cent
	have had to fight against aggression in the	T	disapprove and 20 per cent have no opinion
	Far East. To ignore aggression would only increase the danger of a larger war. "Our goal is peace in Southeast Asia.	February 18.	Secretary of Defense McNamara in his at nual defense review before Cougress state that the U.S. has no alternative but to con
	That will come only when aggressors leave their neighbors in peace. "What is at stake is the cause of freedom.	February 20.	tinue the struggle in South Viet-Nam. India Prime Minister Shastri outlines a proposal for the neutrality and independence of the the neutrality and independence
	In that cause we shall never be found want- ing."	February 21.	both Viet-Nams. It is reported that major Communist su
January 14.	U.S. Army reports that between January 1,	•	plies enter South Viet-Nam via the sea rathe than via the "Ho Chi Minh" trail.
	1962, and November 30, 1964, a total of 28 army helicopters were lost in battle and 58 in accidents.	February 24.	U.S. jet bombers are used inside South Vie Nam for air strikes against Viet-Cong ta
February 2.	Presidential Assistant McGeorge Bundy flies to Viet-Nam for on-the-spot evaluation.	February 27.	gets. The State Department publishes a secon
February 7.	8 American servicemen were killed and 62		White Book on Viet-Nam.
	wounded in an attack by 100 VC guerrillas on Pleiku. Several American helicopters were	March 7.	A Marine force of 3,500 men is being set to Da Nang. This brings the total of U. troops in Viet-Nam to 27,000.

March 24.	Secretary of State Dean Rusk explains in a press conference that the use of "police type"	June 25.	Red China and North Viet-Nam refuse to receive the Commonwealth peace mission.
March 30.	gases in South Viet-Nam does not constitute "gas warfare." Viet-Cong saboteurs blow up U.S. Embassy	July 8.	General Maxwell D. Taylor resigns as U.S. Ambassador to South Viet-Nam and is replaced by Henry Cabot Lodge.
March 30.	in Saigon, kill 20 and injure 175.	July 10.	At a press conference, the President declares
April 7.	President Johnson, at Baltimore, offers "un- conditional" discussions to North Viet-Nam and a regional 1-billion-dollar aid program	,	that in Viet-Nam "we committed our power and our national honor and that has been reaffirmed by three presidents."
	to Southeast Asia.	July 11.	Secretary of State Dean Rusk, referring to
April 14.	In a joint statement issued by Soviet Premier Kosygin and North Vietnamese Premier	·	U.S. air attacks on North Viet-Nam, states that "the idea of the sanctuary is dead."
	Pham Van Dong, a four-point program for negotiations is outlined involving withdrawal of foreign bases and troops from both Viet-	July 15.	"Voluntary censorship" of news requested of journalists by U.S. Military Assistance
	Nams and reunification of both Viet-Nams at a later date through free elections.		Command, Viet-Nam. In Moscow, roving Ambassador W. Aver- ell Harriman begins informal Viet-Nam talks
May 4.	President Johnson bids Congress for another		with Soviet Premier Alexey Kosygin.
· · · · · · · · · · · · · · · · · · ·	special appropriation of 700 million dollars for Viet-Nam.	July 16.	Secretary of Defense McNamara, on another visit to Saigon, is met with requests for addi-
June 9.	American ground combat troops are now openly committed to operations in Viet-Nam.		tional U.S. troops. Upon leaving Viet-Nam on July 20 he declares that "in many respects
June 10.	The White House denies that this constitutes a change in U.S. policies. There are now in Viet-Nam 54,000 U.S.		there has been a deterioration" in the Viet- Nam war since his last visit fourteen months
June 10.	troops, including 24,500 Army men, 16,500 Marines, 9,500 Air Force and 3,500 Navy men.	July 25.	earlier. Soviet surface-to-air (SAM) missiles positioned in the Hanoi area shoot down a U.S.
June 17.	American B-52 heavy jet bombers attack		Air Force jet fighter-bomber operating over North Viet-Nam.
	Viet-Cong installations inside South Viet- Nam with conventional explosive bombs. By October, 1965, close to 15,000 tons of	July 28.	United States retaliates by bombing some of the SAM sites. In his press conference of the same day, President Johnson states that
T	bombs were dropped by the B-52's.		"we must not let this mask the central fact
June 24.	The Soviet Union refuses to receive a Com- monwealth mission, composed of represen-		that this is really war."
	tatives of Britain, Nigeria, Trinidad-Tobago, and Ghana; seeking to promote Viet-Nam	July 29.	A brigade task force of the 101st Airborne Division lands in Viet-Nam, reinforcing the
	peace talks. The new South Vietnamese military re-		173d Airborne Brigade and the 3d Marine Division already there. Fifty thousand more U.S. troops are ordered to Viet-Nam.
	gime of Brig. Gen. Nguyen Cao Ky breaks diplomatic relations with France.	August 13.	The United States formally reaffirms its ad-

herence to the 1949 Geneva Conventions on the treatment of prisoners and war victims. The 7th Regimental Landing Team, 1st Ma-August 14. rine Division, lands in Viet-Nam. The Senate approves a \$1.7 billion supple-August 18. mentary appropriation for military operations in Viet-Nam. The presence of the North Vietnamese 325th Division (18th, 95th, and 101st Regiments) inside South Viet-Nam is reported. With the arrival of the 1st Cavalry Division September 12. (Airmobile), in Viet-Nam, U.S. servicemen there now number 128,500. The Pentagon recommends the increase of September 21. U.S. forces in Viet-Nam to the 200,000-man level.

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NOTE: This bibliography is merely indicative of the increasingly vast body of literature available on Viet-Nam, but it groups some of the most important recent books on the subject and is representative of the diverse viewpoints now prevailing.

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 [Australian view, along U.S. official lines mostly, of events in Southeast Asia in 1960-63. Valuable insights on early Buddhist tensions.]

HISTORY

On April 27, 1979, the Vietnam Veterans Memorial Fund, Inc. (VVMF) was formed for the purpose of establishing a memorial in Washington, D.C. to serve as a symbol of the nation's honor and recognition of the men and women who served in Vietnam War. On July 1980, through the support of U.S. Senator Charles McC. Mathias, Jr., of Maryland and John W. Warner of Virginia, Congress authorized a two-acre site in Constitution Gardens near the Lincoln Memorial as the future location of the Vietnam Veterans Memorial.

On May 1, 1981, the design of the memorial was selected through a national design competition. The winning design was authored by Maya Ying Lin of Athens, Ohio, who at the time was a 21 year old architectural student attending Yale University. In August of 1981, VVMF selected an architecture firm, Cooper-Lecky Partnership, and a construction manager, Gilbane Building Company, to develop and build the design. Ms. Lin was retained as a design consultant to the architect of record. In January of 1982, the decision was made to add a figurative sculpture and flag staff to the memorial site to provide a realistic depiction of Vietnam fighting men and a symbol of their devotion to country. Soon after, Washington sculptor Frederick Hart was selected to provide the sculpture "Three Fighting Men" to be placed at the site.

Construction of the memorial proceeded in four phases. The initial work included the granite wall and walkway paving, the curb behind the wall, the landscaping in the bowl area and the addition of trees, mainly to the north and west of the wall. This work was completed in late October 1982, and dedicated on Veterans Day, November 13. The second phase was primarily work to the bowl area, and included the surface drain system and alterations to the soil to improve perk rate. The work was completed in the spring of 1983. The third phase, initiated in April 1983, was the erection of the flagpole and the sculpture, and also included alterations to the bituminous paving. landscaping, and foundations in the sculpture area. During the final phase, the granite walk in front of the wall was widened and extended with granite sets; the granite paving was installed at the base of the flagpole and in the sculpture area; lighting was added for the wall, the sculpture and the flag; the sculpture area landscaping was completed; and the bronze housings for the directories were installed. The sculpture, which will be bronze cast, is expected to be installed in November 1984.

MEMORIAL DESIGN:

Situated in a park-like setting, the memorial appears as a long, low V-shaped rift in the earth. Lined with polished black granite, the walls of the memorial emerge from and recede into the earth, bearing the names of all who gave their lives or remain missing as a result of the Vietnam War. Though the names appear infinite in number, their organization on the wall brings closure to the experience. Maya Ying Lin, the designer of the memorial, explains:

The memorial is composed not as an unchanging monument, but as a moving composition, to be understood as we move into and out of it: the passage itself is gradual, the descent to the origin slow, but it is at the origin that the meaning of the memorial is to be fully understood. At the intersection of these walls, on the right side, at the wall's top, is carved the date of the first death. It is followed by the names of those who have died in the war, in chronological order. These names continue on this wall, appearing to recede into the earth at the wall's end. The names resume on the left wall, as the wall emerges from the earth, back to the origin, where the date of the last death is carved, at the bottom of this wall. Thus the war's beginning and end meet; the war is 'complete,' coming full circle, yet broken by the earth that bounds the angle's open side, and contained within the earth itself. As we turn to leave, we see these walls stretching into the distance, directing us to the Washington Monument, to the left, and the Lincoln Memorial, to the right, thus bringing the Vietnam Memorial into historical context. We the living are brought to a concrete realization of these deaths.

The cast bronze sculpture is sited in a grove of trees southwest of the memorial. Entitled "Three Fighting Men", the sculpture depicts three Vietnam veterans returning from battle, and is oriented such that the figures look toward the vertex of the memorial. The sculptor, Frederick Hart, describes his creation as follows:

The portrayal of the figures is consistent with history. They wear the uniform and carry the equipment of war; they are young. The contrast between the innocence of their youth and the weapons of war underscores the poignancy of their sacrifice. There is about them the physical contact and sense of unity that bespeaks the bonds of love and sacrifice that is the nature of men at war. And yet they are each alone. Their strength and their vulnerability are

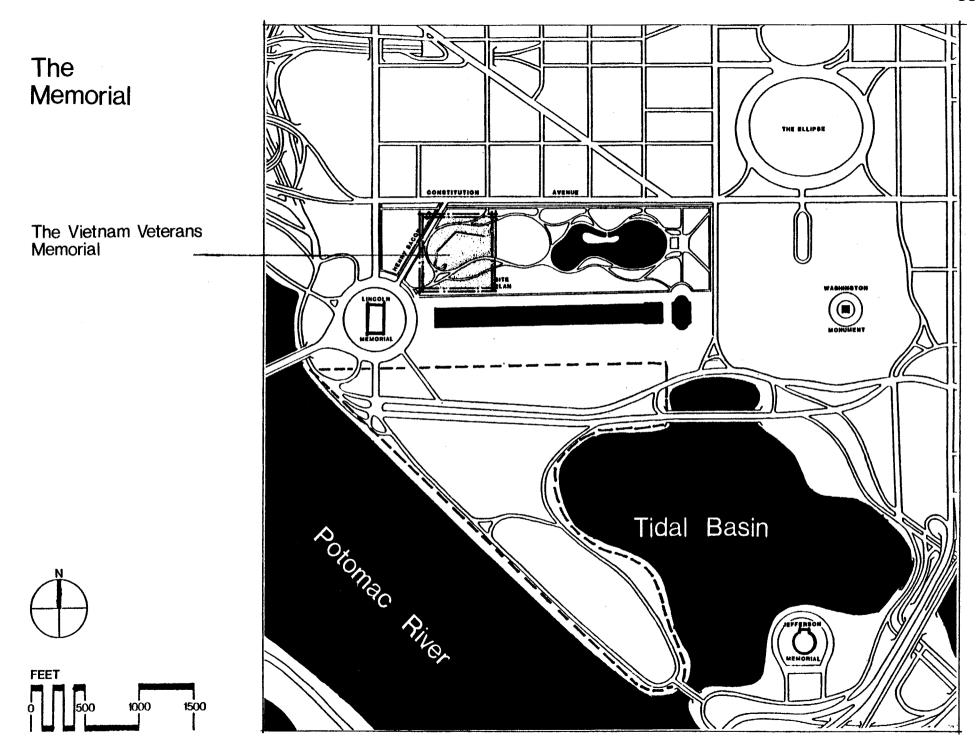
both evident. Their true heroism lies in these bonds of loyalty in the face of their aloneness and vulnerability.

Located near the sculpture, the American flag flies from a bronze staff. The cast bronze base contains the emblems of the five armed services.

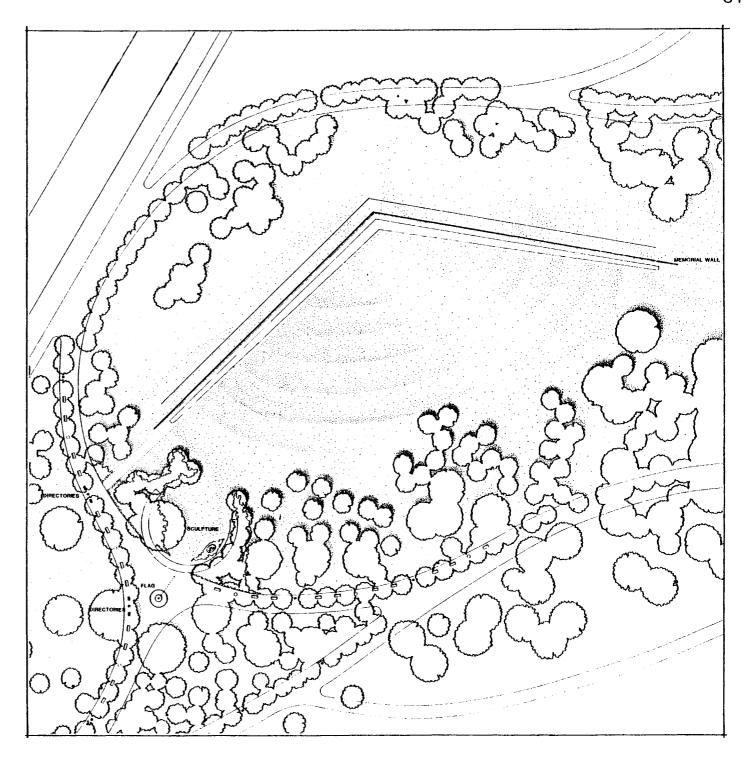
ARRANGEMENT OF NAMES:

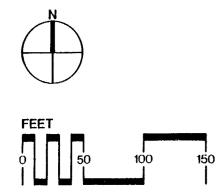
Each of the walls is composed of sevency separate inscribed granite panels. The largest panels have 137 lines of names; the shortest have a single line. There are five names on each line. Lines on each panel are oriented toward the vertex, with one "justified" side where all the lines are aligned vertically, and one "ragged" side with an irregular margin. Thus, on the east wall the alignment occurs on the left side of each panel, and on the west wall it occurs on the right. On both walls the panels are numbered from "1" to "70," with panel number 1 at the vertex and panel number 70 at the far ends. The numbers are inscribed at the bases of the panels and include an "E" or a "W" to designate east (toward the Washington Monument), or west (toward the Lincoln Memorial). On alternate panels, every tenth line is denoted by a drilled "dot" in the margin to facilitate counting the lines.

The names of the first casualties, in July 1959, appear on the first line of the first panel on the east wall below the date "1959." The chronological listing of the names proceeds line by line down each panel and then to the top line of the panel to the right, as though the panels were pages in a book. The sequence of names proceeds from panel 70 on the east wall to panel 70 on the west wall. The listing continues on each panel to the right, until the names of the last casualties, in May 1975, form the last lines of the last panel on the west wall, above the date, "1975." Thus the beginning and the end are on adjacent panels on either side of the vertex, at the intersection of the two walls. The prologue and epilogue, immediately adjacent to the large dates on the wall panels, are also etched in the glass tops of the bronze locators.



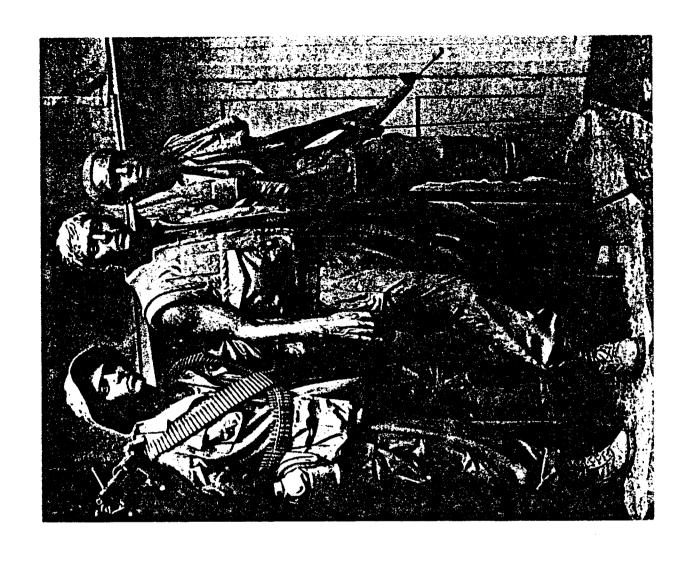
A COLLECTION MUSEUM AND RESOURCE CENTER . FOR THE VIETNAM VETERANS . WASHINGTON ,D.C.



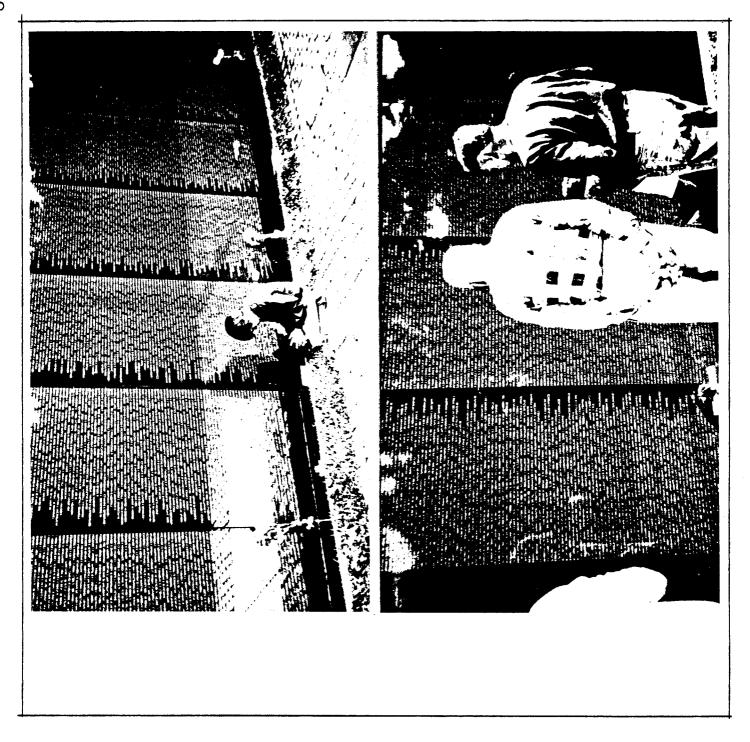


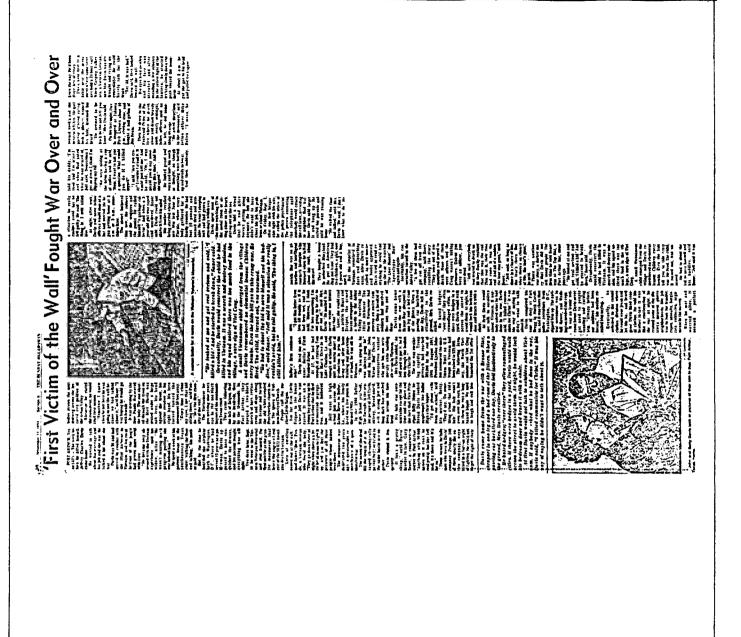
The Memorial

(Sculpture addition)









Sadness of War Lingers in Flowers, Medals, Letters

WASHINGTON (AP) that place more like a died so young. Vietnam Veterans Me- ment. It's like a grave "You found someone 17, 1968, at age 20. morial by the thou- site," said Bill Clark, an who loved you very sands. Some cry softly, employee of the Nationsome run their fingers al Park Service, which across the names on the is responsible for mainblack granite wall and tenance at the memorisome leave a part of al. themselves.

of the sweeping, V-

- They come to the cemetery than a monu-

For some of the tour-Flowers, fresh or lists, reading and seeing plastic: a scruffy teddy the letters and gifts to bear; medals; leather the Vietnam dead seems holsters; fatigues; can- to open the floodgate of dles; miniature Ameri- emotion that marked can flags; pictures; the divisive war. Take handwritten poems en- Lester Paquin's letter. cased in plastic. And A small group of letters.

As mall group of passers-by stooped or Those are just some knelt to read the letter; the memorabilia that most were crying by the visitors place at the foot time they had finished.

"Dear Neil, we never shaped memorial on had a chance to meet," which the names of the wrote Paquin, who de-58.022 Americans killed scribed his anger that or missing in action are Neil Robert Burnham of engraved, "People treat Petersham, Mass., had

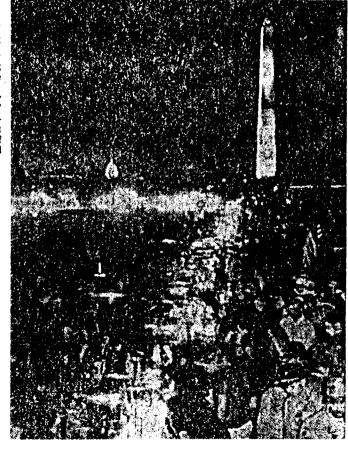
But. Paquin wrote: much ... Mary Lou is of things here," said doing well. She has two Gary Young, a park serbeautiful children, a vice volunteer and forpromising career and is mer Vietnam veteran. dying has forever crews. The non-perish-

changed our lives." Burnham died Dec.

"People put all kinds

able items are taken to the maintenance area near the Potomac Rive er. There it is stuffed. willy-nilly, into boxes, which are locked away in a dark tool room.

Rummaging through now married to a man The memorabilia is col- the boxes is like going who is perhaps my lected daily by park ser- through grandmother's dearest friend. ... Your vice maintenance attic, except that the sadness of war lingers.



Statue of Three Gls Added to Vietnam Veterans Memorial

positive tribute.

After months of bitter debate. Hart was commissioned to create the statue of the three soldiers as a compromise.

"When I look back on the end-less meetings we had, I can only believe that the hand of durine providence rests on this statue." Sen. John Warner, R-Va., said during the dedication.

In 1982, when more than 100,000 Vietnam veterans gath-ered here to dedicate the monu-ment and participate in a "Wel-



The statue "Three Fightingmen" is unveiled at the Vietnam Veterans Memorial in Washington.

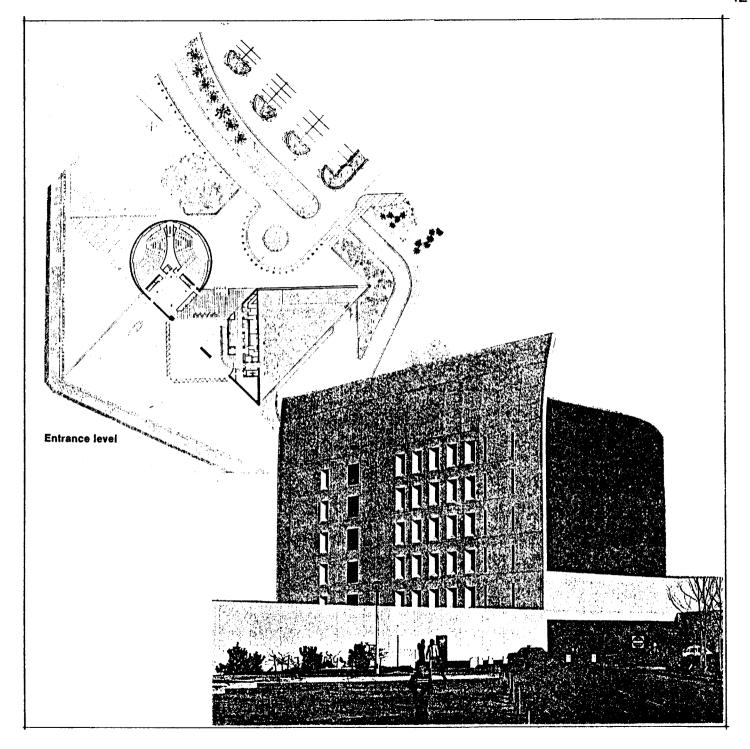




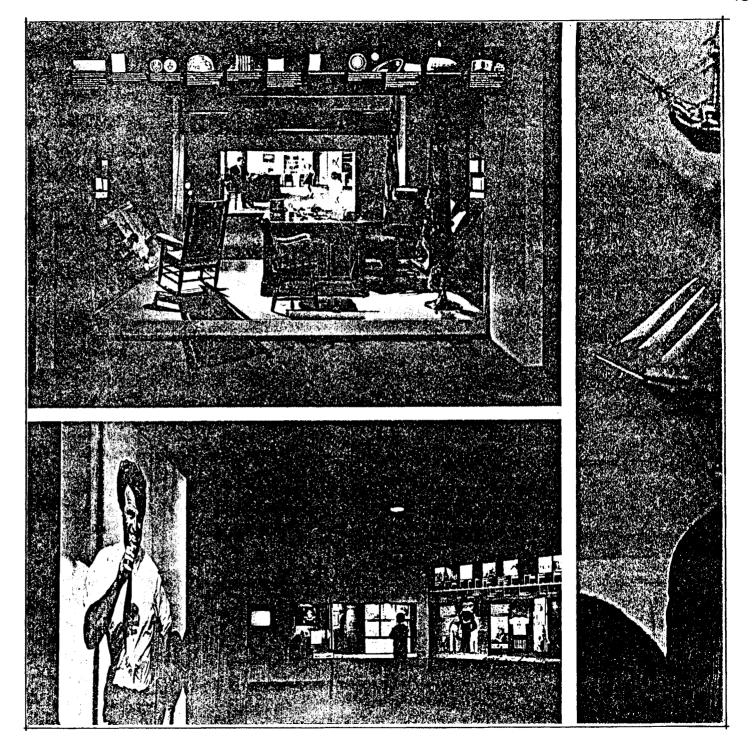
John F. Kennedy Library Boston, Mass.

In October, 1979, the John Fitzgerald Kennedy Library opened at Columbia Point, across the harber from downtown Boston. From the outside of the building a variety of assembled geometries: rectanqular solids, wedges, cylinders and free standing planes are joined together to create a building that dominates the barren point. These shapes are used to form the interior spaces into, one which gives an idea of the power Kennedy possesed. After entering the building and proceeding down to the exhibit areas the focus is not on the architecture but on the man and his family, his presidency, his assassination. The exhibits are located near the water, an important part of John Kennedy's life. After seeing the often emotional exhibits progression is made from this area to the buildings main space. Within this space a gaint American Flag hangs, reinforcing the historical nature of the Libraries holdings. The combination of the exhibit space and the archives is one of balance. While the exhibits are located near the water and the general public. the archives soars above connected by the verticle American Flag. The archives have a complete separation from the public functions yet there is a visual and more important a phychological link. Making the John F. Kennedy Library one: dedicated to the life and Presidency of the man.

J.F.K. Library



J.F.K. Library

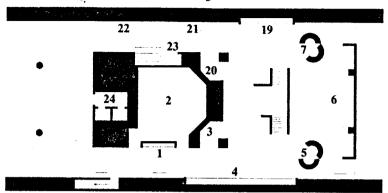


Lyndon B. Johnson Library Austin, Texas

In 1965, soon after Johnson's inaugural ceremony the process began to create a Library to hold L.B.J.'s papers. The location at the University of Texas provided an opertunity to create a place where in the words of Johnson "sholars can study the past for the sake of the future." The building would not only provide a place to store the papers but also a graduate school of public affairs would be created on campus. The building that was designed by S.O.M. is one of monumentality. The Library is divided into two parts: the Library/Museum and the L.B.J. School of Public Affairs. Entry to the Library is from a large marble plaza with the building rising 8 floors above. The exibits are broken into two areas, the first two floors dealing with the early life and career of Johnson while on the 8th floor the Presidency is shown. Between these areas the archives are housed open to the exibits below. In addition to the permanant exibits the Museum host a procession of traveling exhibits each year. The traveling exhibits have brought some of the world's greatest art and also important historical documents. The inner connection between the Library and the School of Public Affairs is important in the concept of the Library as a whole. One part of the Public Affairs department is a lecture series serving as a forum for the exchange of ideas on education the arts and the life of L.B.J. The Johnson Library is more than a memorial to a president but an institution that is growing on the foundation of Johnson's life.

L.B.J. Library

Note: All documents on exhibit are shielded by a yellow ultraviolet filter. This protection prevents fading of ink and deterioration of paper and insures that the document will be in good condition for future generations.



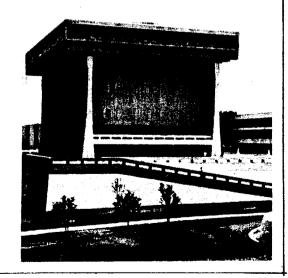
ON THE FIRST FLOOR

- 1. The Early Years. The background of the 36th President. Probably this will be the first exhibit you will see, while you are waiting to go into the Orientation Theater. If you go into the theater first, be sure to look at this exhibit when you leave it.
- 2. Orientation Theater. 20-minute audio-visual presentation which will make your tour of the museum more meaningful.
- 3. Family Album. The daughters of Lyndon and Lady Bird Johnson, and *their* families.
- 4. Road to the Presidency. This exhibit traces LBJ's career from his service in the House of Representatives to his inauguration as President.
- Treasures from Around the World. A selection from the gifts given to the President of the United States by leaders of other countries.
- 6. Foreign Affairs. Three areas of activity during the Johnson years are highlighted: Vietnam, the 6-Day War in the Middle East and the Summit Meeting at Glassboro.
- 7. Treasures from Around the World.





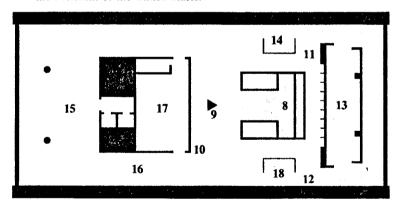




L.B.J. Library

NOW PROCEED UP THE STAIRCASE TO THE SECOND FLOOR

- 8. Key to the Archives (on the landing). This exhibit explains what is in the red manuscript boxes you see as you look up the grand staircase.
- 9. A President's Philosophy. The statements on this pylon were selected from speeches made by President Johnson.
- A Generation of Presidents. Magnesium mural of LBJ and the Chief Executives with whom he served. By Naomi Savage.
- 11. Treasures from Around the World.
- 12. Painting, "Thirteen Americans" by Alfred Leslie.
- The Great Society. Depiction of the major social programs of the Johnson Administration.
- The Johnson Style. 5-minute video presentation, showing how LBJ worked.
- 15. Hall of American History. The exhibits in this gallery change at least every six months.
- American Political Memorabilia. From George Washington's time to the present.
- 17. The First Lady Theater. Exhibits on the life and work of Lady Bird Johnson. Regular showings of a motion picture about her. (Times posted on the door.)
- 18. America's Handiwork. Gifts from people across the nation to the President of the United States.









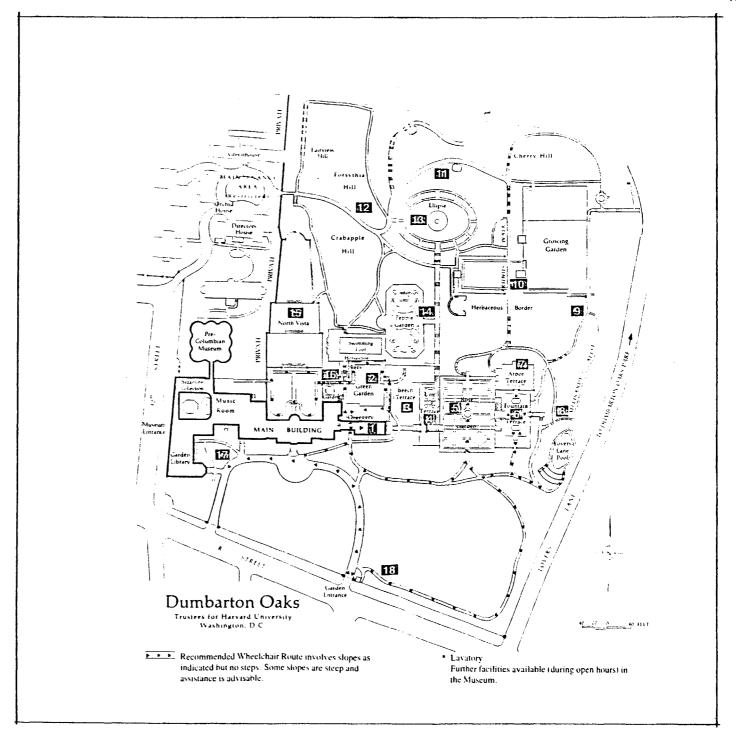


Dumbarton Oaks

Washington, D.C.

Dumbarton Oaks has importance as a research facility in the areas of Byzantine studies, the history of landscape architecture, and Pre-Columbian studies. Housed in a complex ranging from a Federal style mansion to contemporary additions, the facilities are open to researchers upon presentation of appropriate credentials. Each area has its own library. Together they now contain over 100,000 volumes and continue to grow. There are resident scholars in each area of study. About thirty fellowships are awarded each year to scholars in these fields from the United States and the rest of the World. These fellowships allow the scholars to live and work within Dumbarton Oaks. For over 20 years this foundation has provided a place of scholary research away from the main stream of activity, yet, the location in Washington D.C. provides the researchers opportunities to explore other areas of study to reinforce the holdings of Dumbarton Oaks.

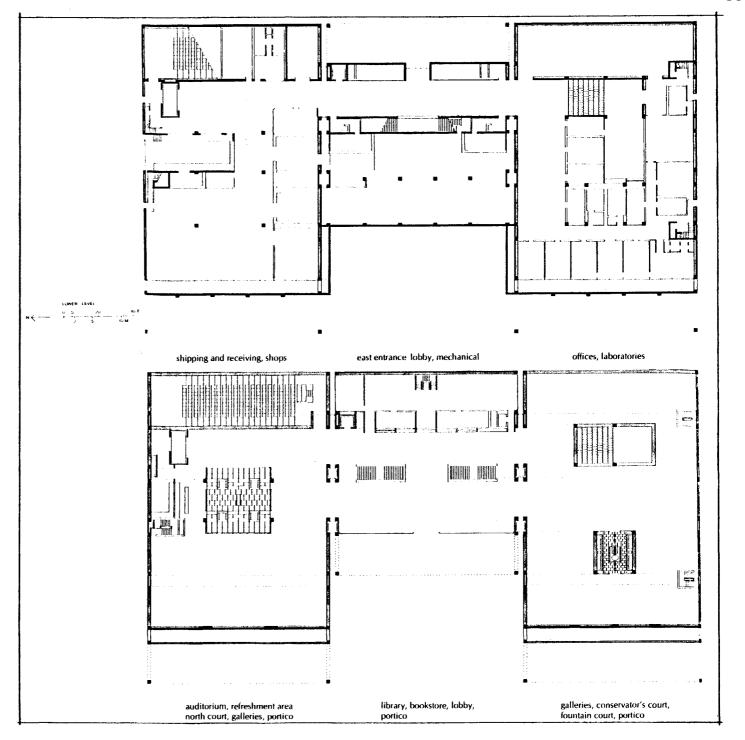
Dumbarton Oaks

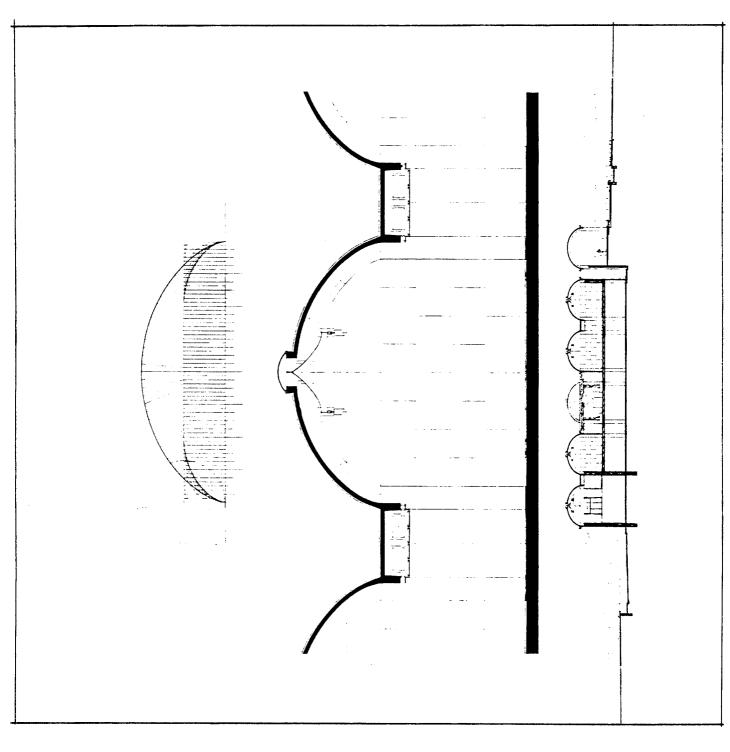


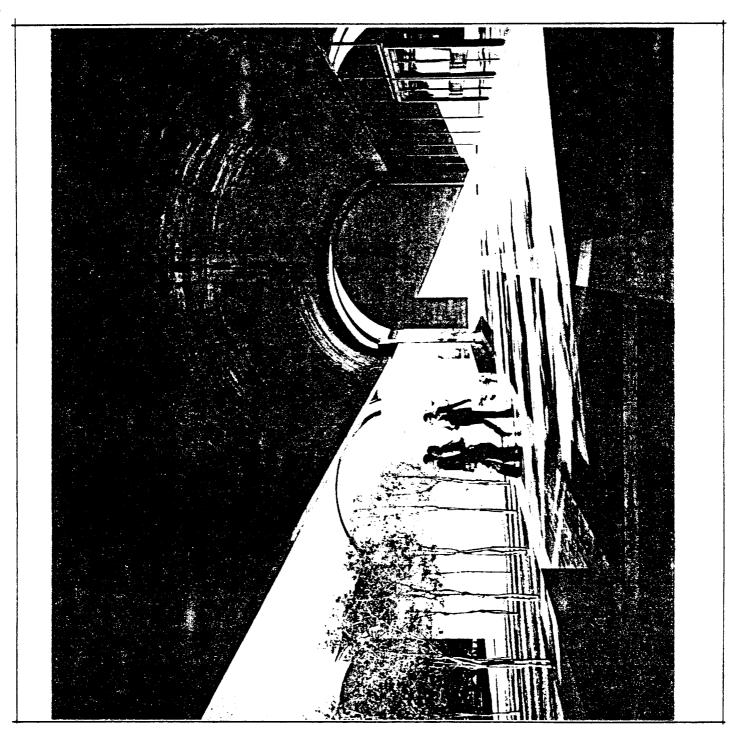
Kimbell Art Museum Fort Worth, Texas

This museum has a very formal and elegant appearance. It is in a park like setting in Fort Worth Texas. The Museum has a classical quality about it. The exhibition spaces function as interior streets and are repeated as often as necessary. Louis Kahn, the architect, felt art created in daylight should be veiwed in daylight. Two types of natural light are used, silver light from above, and a green light from the side court yards. The major problems in this climate were to eliminate the glare and heat build-up. The vaulted ceiling gives the interior spaces a very formal and classical appearance. Yet the lighting makes the museum a very warm place to be. The detailing in this museum is superb, even down to the handrails.

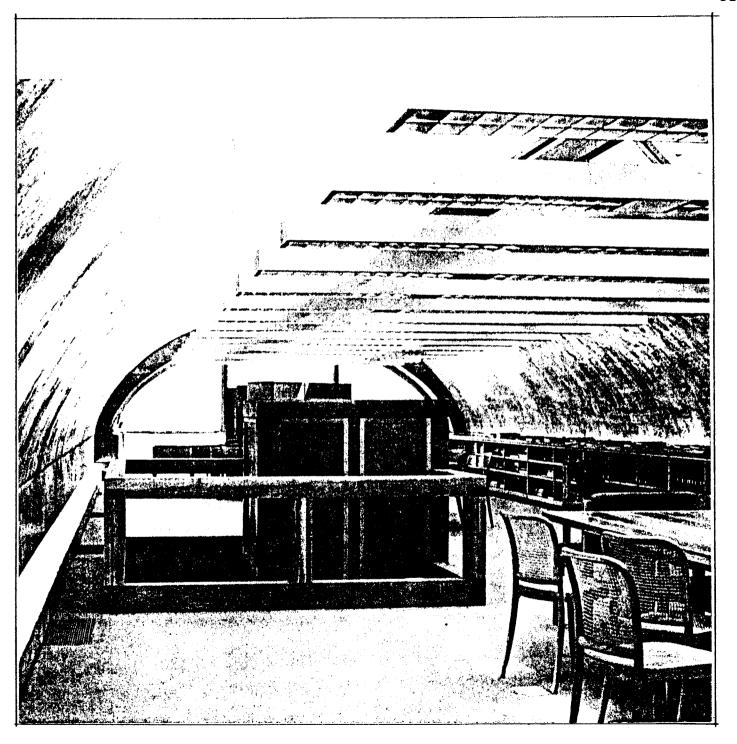
Kimbell





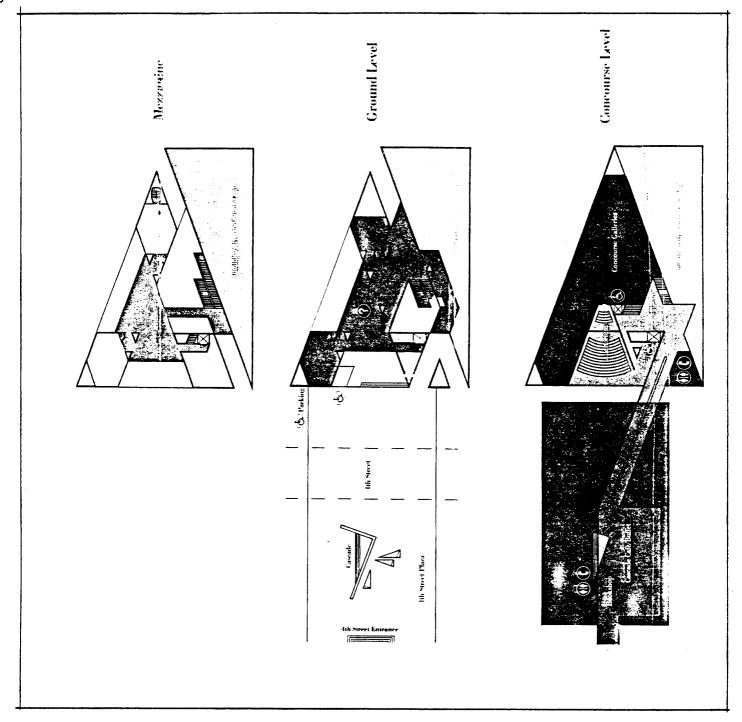


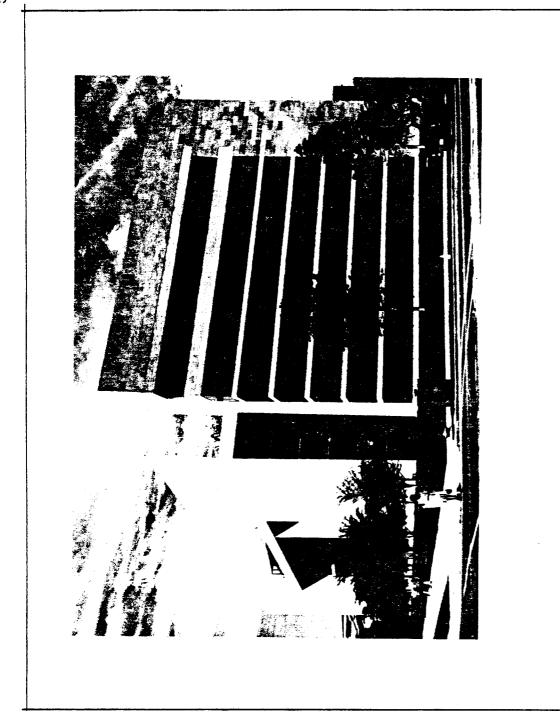
Kimbell



East Wing National Gallery Of Art Washington, D.C.

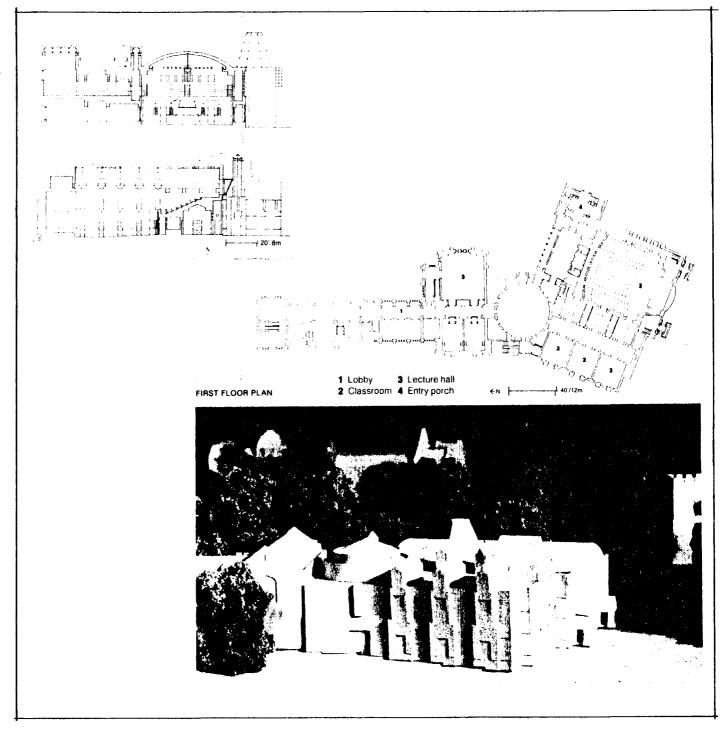
Shaped in part by its site, I.M. Pei and Partner's East Wing of the National Gallery of Art is a trapezoid comprised of two interlocking triangles. One of them is one of the world's best known museum spaces and one of the most discussed works of Architecture in the 1970's. The 11 galleries of varying sizes and shapes are connected by a large soaring space capped with a cluster of tetrahedral skylights. In terms of viewing artwork, and circulation routes the museum has been described as being "rich in alternatives for the visitor". The second triangle houses the Center for advanced study in the Visual Arts. Like the museum side, it is organized around a 70 foot high central court, in this case surrounded on two sides by offices, reading rooms, and book stacks. The building as a whole is a strong visual statement and is sensitively related to its immediate environment in monumental Washington. Thus making the newest monument on the Mall an excepted and refreshing addition.



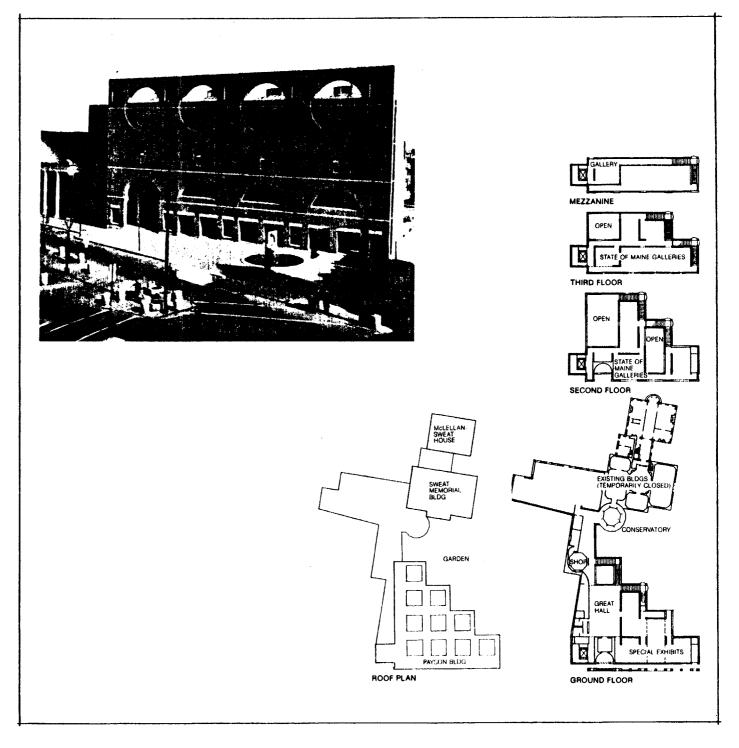


Selected Projects Vessar College Art Department and Museum Poughkeepsie N.Y.

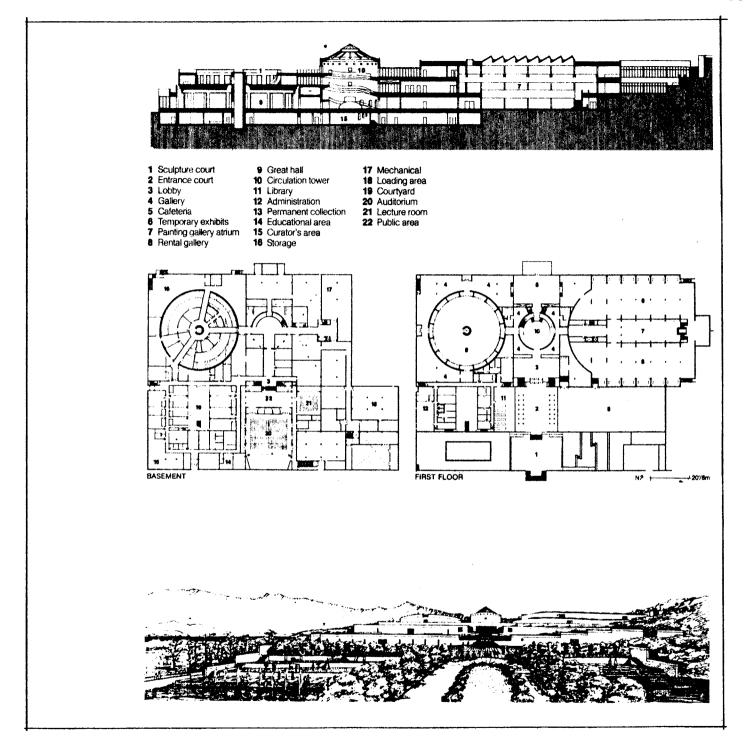
(Michael Graves)



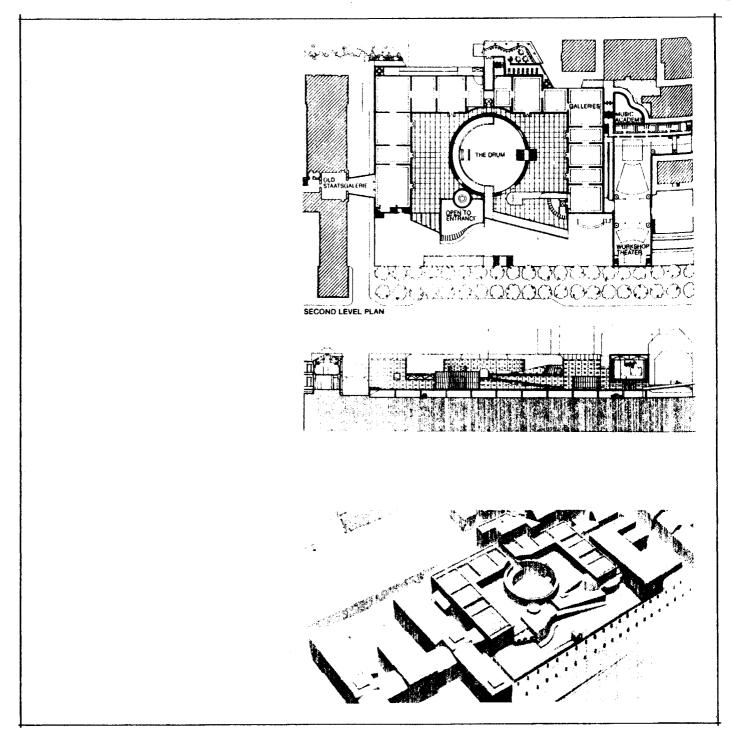
Museum of Art Portland, Maine (1.M. Pei)



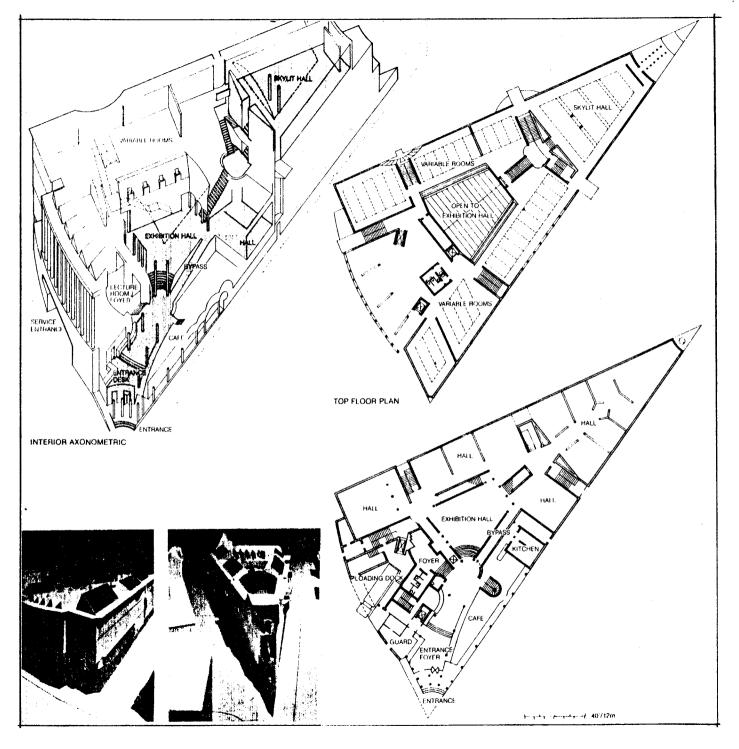
Museum of Modern Art Korea (Tai Soo Kim)



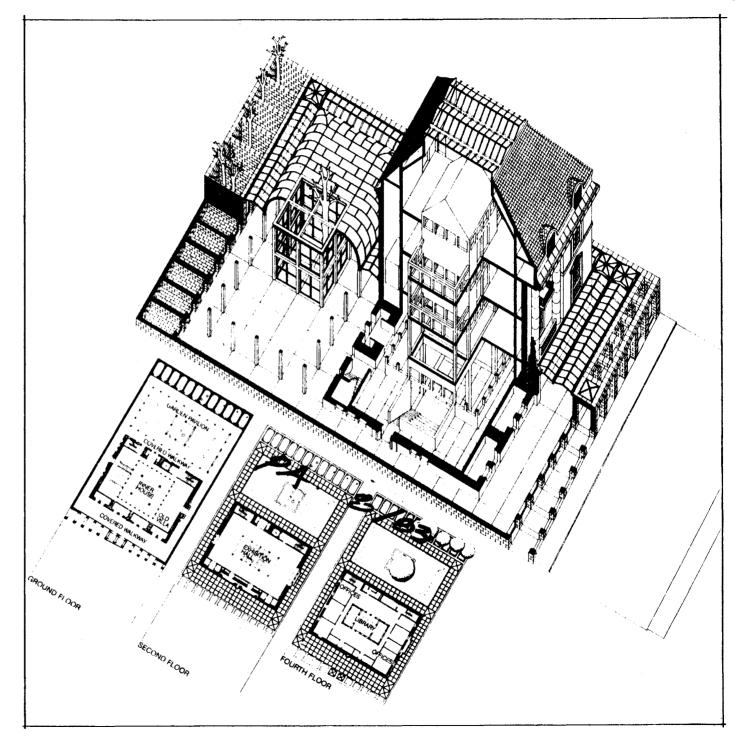
National Museum Stuttgart, West Germany (James Stirling)



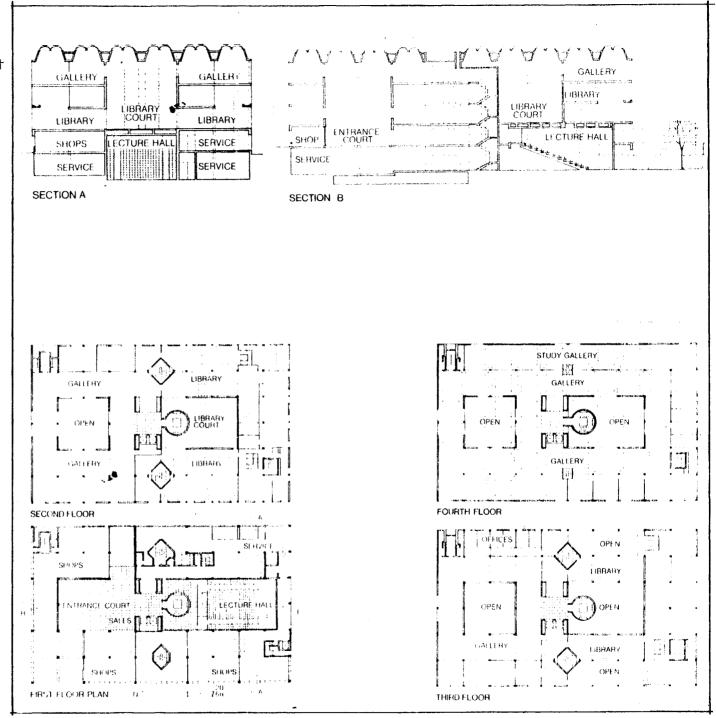
Museum of Modern Art Frankfurt, West Germany (Hans Hollien)



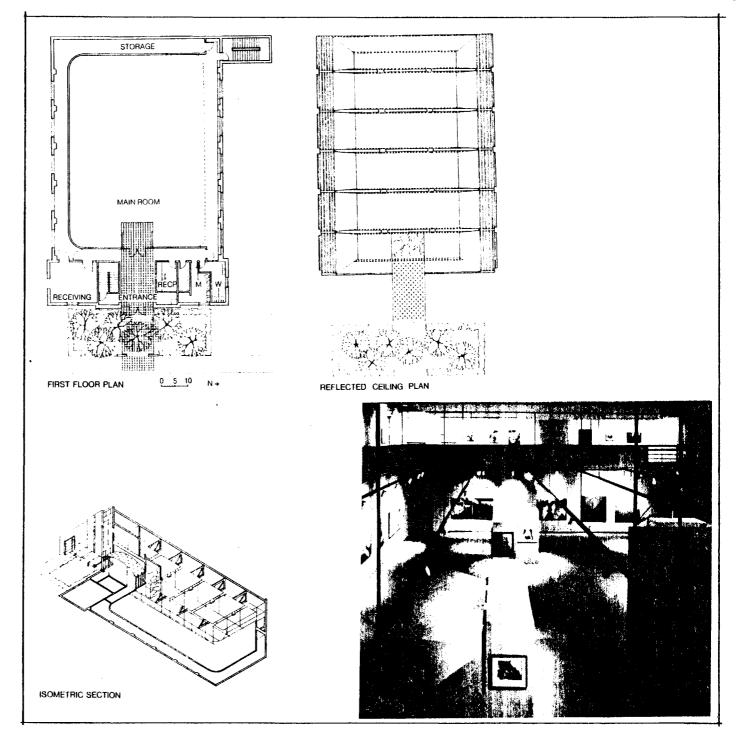
Architectural Museum Frankfurt, West Germany (O.M. Ungers)



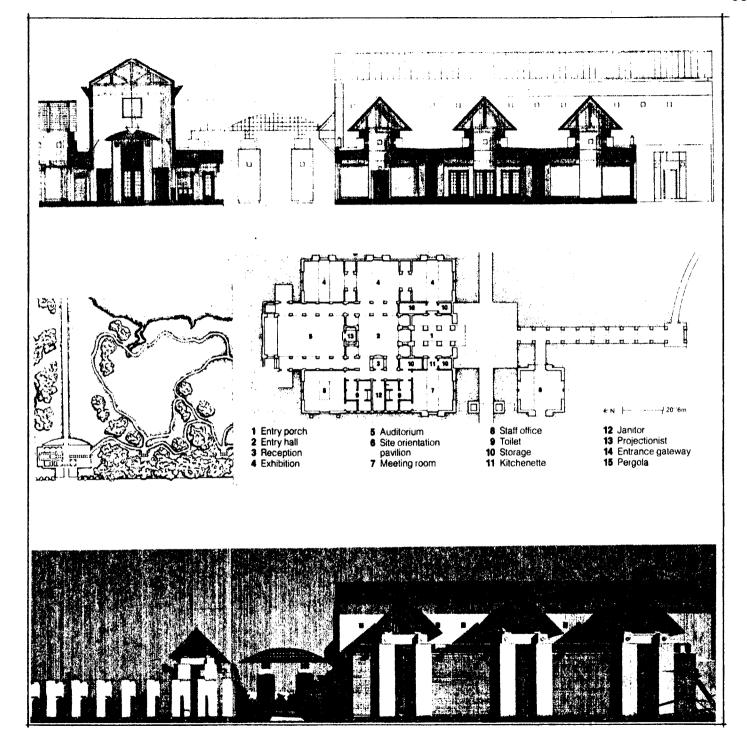
Yale Center for British Art New Haven (Louis Kahn)



Southern Alleghenies Museum of Art Loretto, Pa (Roger Ferri)



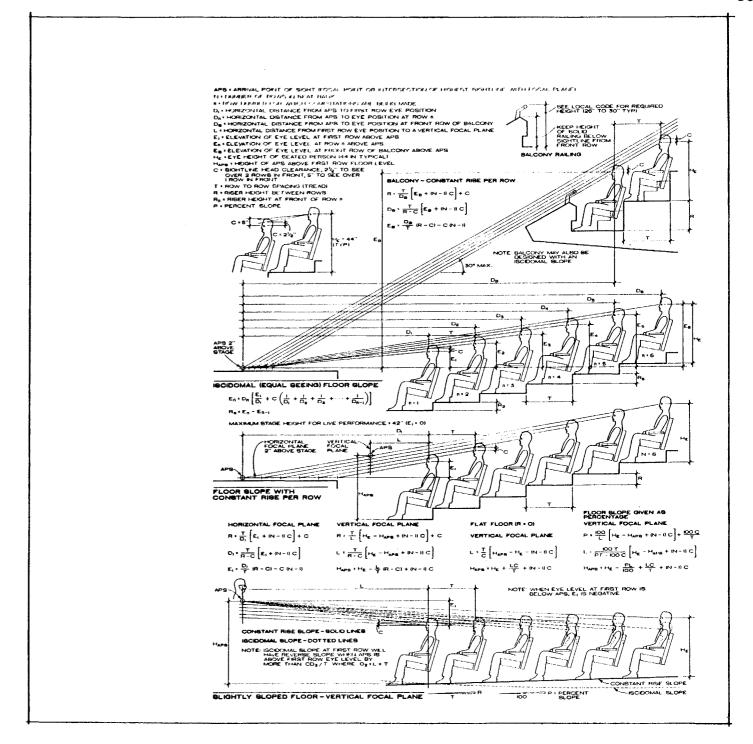
Environmental Education Center , New Jersey (Michael Graves)



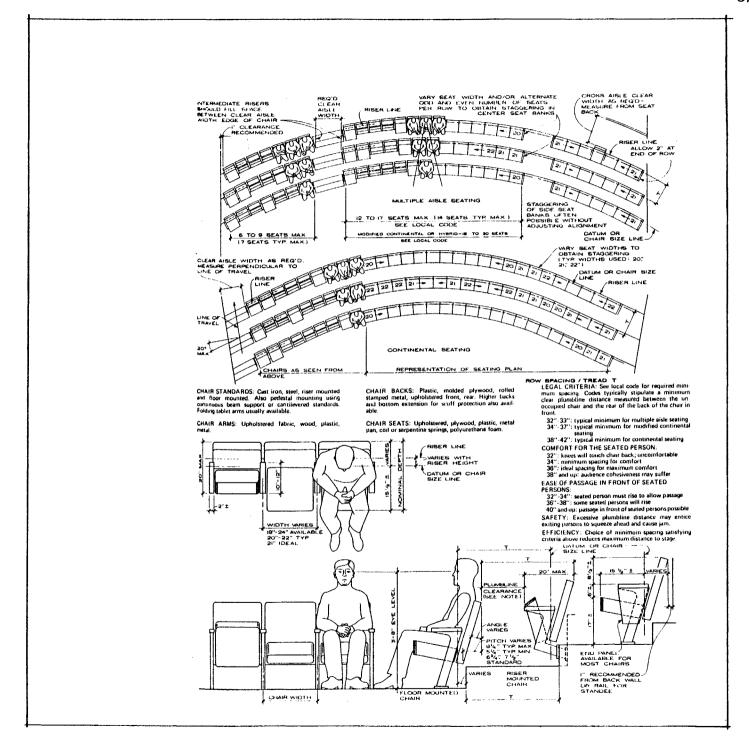


TECHNICAL DATA

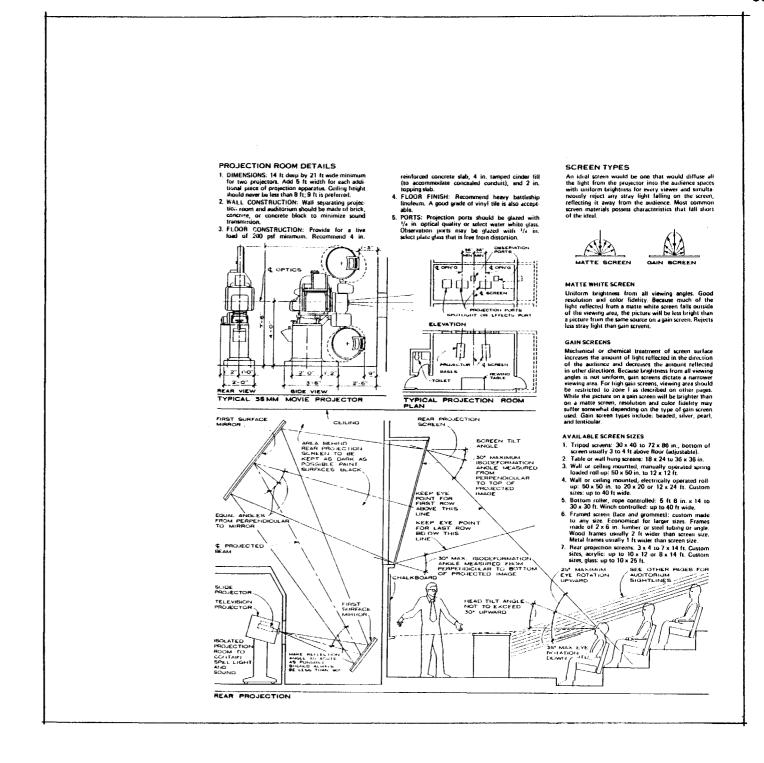
Auditorium Design



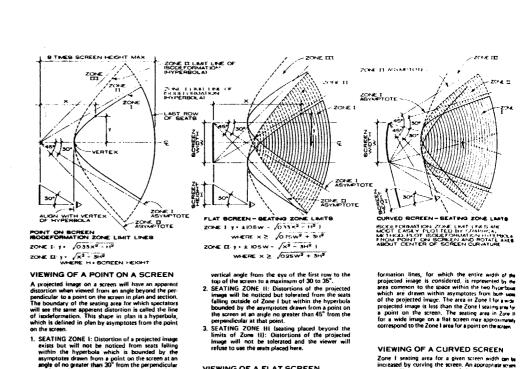
Auditorium Design



Auditorium Design



Auditorium Design

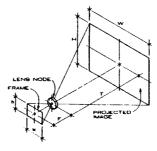


In searING ZONE I: Distortion of a projected image exists but will not be noticed from seats falling within the hyperbola which is bounded by the asymptotes drawn from a point on the screen at an angle of no greater than 30° from the perpendicular at that point on the screen. The minimum hori-zontal distance from the vertex of the hyperbola

VIEWING OF A FLAT SCREEN

A projected image occupies a space on a screen rather than a point. The seating area, defined by the isode-

current seating area for a green scient within can be increased by conving the screen. An appropriate screen curve will cause an overlap of the hyperbolas drawn from the sides of the projected image in such a may that they define a greater common seating area.



BASIC PROJECTION GEOMETRY

	FRAME (mm)	ASPECT	[IN.]		
PROJECTION MEDIUM	hxw	RATIO	h		
8 mm motion picture	(3.28 x 4.37)	1:1.33	0.129	0.172	
Super 8 motion picture	(4.01 x 5.36)	1.33	0.158	0.211	
16 mm motion picture	(7.21 x 9.65)	1.34	0.284	0.380	
16 mm CinemaScope	(7.21 x 9.65)	2.68	0.284	2 × 0.380	
35 mm motion picture	(15.2 x 20.9)	1.375	0.600	0.825	
35 mm CinemaScope	(18.2 × 42.6)	2.34	0.715	2 x 0.839	
70 mm motion picture	(22.1 x 49.0)	2.21	0.868	1.913	
70 mm IMAX	(51.0 x 71.0)	1.39	2.00	2.80	
35 min filinstrip	(17.0 x 22.5)	1.32	0.668	0.885	
2 x 2 35 mm double frame slides	(22.9 x 34.2)	1.493	0.902	1.345	
2 x 2 35 mm half frame slides	(15.9 x 22.9)	1.44	0.626	0.902	
2 x 2 35 mm square slides	(22.9 x 22.9)	1.00	0.902	0 902	
126 Insta-Load slides	(12.7 x 17.0)	1.34	0.500	0.669	
2 x 2 Instamatic slides	(26.5 x 26.5)	1.00	1.043	1.043	
2 x 2 superslides	(38.0 x 38.0)	1.00	1.496	1 496	
21/4 x 21/4 slides	(51.6 x 51.6)	1.00	2.030	2 030	
2 ³ /4 x 2 ³ /4 slides	(55.5 x 55.5)	1.00	2.187	2 187	
31/2 x 4 lantern slides	(69.9 x 76.2)	1.09	2.75	3.00	
31/2 x 4 Polaroid stides	(61.0 x 82.8)	1.36	2.40	3.26	
4 x 5 lantern slides	(88.9 x 114.3)	1.28	3.50	4 50	
Overheed projector		1.26	7.50	950	
Overhead projector		1.00	10.00	10.00	
Television projector	1 -	1.33	_	_	

ASPECT RATIOS AND FRAME DIMENSIONS FOR PROJECTED MEDIA

PROJECTION FORMULAS

- W = nicture width T = F(W/w) = F(H/h) F = T(w/W) = T(h/H) W = w(T/F) H = picture height w = frame width h = frame height
 - F = focal length

Lighting

TERMS COMMONLY USED IN

ENGLISH	SI	MEASURE OF
Candlepower	Cantlepower	Intensity
Lumen	Lumen	Light flux
Footcandle (ft c)	Lux	Density lumen/ft? (lux/m²)
Reflectance (R)	Reflectance	ft-c R = (reflected) ft c (incident)
Transmission (T)		ft c (transmitted) ft·c (incident)
Footlambert (ft-L)	Candlepower/m ²	Luminance ft L = ft c x A



TO BE AFFECT	
Visual clarity	Peripheral wall brightness Luminance in the center of the roun Cool color light source and continuous spectrum output
Spaciousness	Peripheral lighting (not affected by color)
Relaxation	Nonuniform, peripheral (wall) lighting
Attention	Intensity of light and contrast Recommended contrast ratios: 2/1: subliminal differences 10/1: minimum for significant focal contrast 100/1: dominating contrast
Privacy, intimacy	Lighting of background and/or inanimate objects (centerpieces)
Gaiety, playfulness	Visual noise and "clutter" such as sparkle, random patterns
Somberness	Dinness and diffusion of light

SEEING

Although many of the characteristics of quality seeing conditions are known, it is a difficult area to define precisely. Research continues in an effort to uncover knowledge of how people see and what kind of lighting conditions are most desirable for every situation.

RECOGNITION OF TASKS

The human ability to recognize detail generally varies with respect to (1) contrast hetween the details of a task and its immediate surround, (2) luminance (or brightness) of the task, (3) size of the task, and (4)

Maximum visibility is attained when the luminance contest of details against their lackground is greatest (e.g., black ink on white paper.) Significant savings of electric energy can occur when the task contrast is maximized because the level of illumination needed is reduced. The same opportunity occurs with task size fee a laces size type on a typeowriter sayes on the is reduced. The same opportunity occurs with lask size (e.g., large size (type on a typewriter saves on the need for illumination). The luminance of the task depends on the amount of incident illumination and the reflectivity of the task. A small amount of light on white paper may be as effective for seeing as a large amount of illumination on dark cloth. With increased time available for viewing, illumination levels can be reduced (e.g., when speed is not critical).

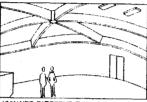
VEILING REFLECTIONS

Substantial losses in contrast, hence in visibility and visual performance, can result when light is reflected from specular visual tasks (the task is "veiled"). This is perhaps the most significant factor in poor seeing conditions. Three factors govern these veiling reflec tions: (1) the nature of the task, (2) the observer's

Benjamin H. Evans, AIA; Blacksturg, Virgini,



LIGHTING CAN DEFINE A CHANGE OF MOOD BETWEEN DESK AND MORE RELAXED BEATING AREA



LUMINAIRE PATTERNS THAT CONFLICT WITH STRUCTURE CAN DESTROY HARMONY OF SPACE

ILLUMINATION

Proper illumination depends on the establishment of design goals that define the desired environment, rather than on the equipment needed. Lighting is the most expressive tool available for setting the tone for perception of the environment. It should be thought of as a design tool and not as an "add on" to provide light, and its consideration should be fundamental to any design effort.

Light should be considered to be what we "see hy" and not that which we actually see, We do not see footcandles (the measure of quantity). We see luminance as a result of reflected or direct light. (When perceived rather than measured, it is called brightness. The lootlambert is the unit of measurement of bright

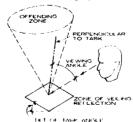
Of course, there must be enough light. (The unit of measure is the footcandle.) The quantities of illumination necessary for various visual tasks have been

orientation and viewing angle, and (3) the lighting

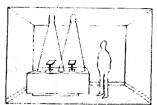
THE TASK

The luminance of the task (e.g., writing or printing on paper) depends on both the amount of light being reflected from it and the bright object or surface (e.g., huminaries) that may be reflected in it. Diffusing or turninaire) that may be reflected in it. Diffusing o matte papers and inks tend to reduce veiling reflections.

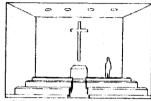
If the eye is in such a position that the rays of light from the "offending zone" are reflected toward it, veiling reflections will occur. This situation can usually be observed in a space by placing a sheet of clear acetate or some other glossy surface over the task



TABK LIGHTING



DOWNLIGHTS FOCUS ATTENTION ON OBJECT



LIGHT CAN DIRECT ATTENTION TO A SPECIFIC FOCAL POINT BY A SHARP CONTRAST OF LIGHT AND DARK SURFACES

recommended by the Illuminating Engineering Society (IES) based on research. But the quantity of illumination needed on walls, Iloors, ceilings, and so on for the creation of a heautiful and functional envi romment is very much left to the designer's logic experience, and intuition. The proper lighting of all tasks, whether functional or esthetic, is vital to a lotal design, and recommended footcandle levels should be considered only as targets.

PURPOSE

FUNPOSE. Lighting can define the intended use of a space by focusing on points of attention and subduing less important areas. It can be used to express structual concepts by silhouetting beams, arches, and columns or to emphastize unusual contours. Mechanical equip ment can be niside to visually recede with dark paint and the absence of light. Light can help to define space use changes through brightened ceiling areas or changes of light patterns on walls.

(such as a book or paper with writing or printing) and observing the reflections (if any). Sources of light in this offending zone should be minimized for best seeing conditions

LIGHTING SYSTEMS

LIGHTING SYSTEMS
The worst condition is a highly concentrated, bright source, above and forward, directed at the task. Paradoxically, it is also the condition under which the worker can most easily escape verifing reflections by tilting or reorienting the tasks to that the reflected rays do not reach the eye (e.g., as in turning the back so the light comes over the shoulded.) Placement of lightling equipment and fenestrations in the general area above and forward of the task (or desk) should be avuised. When the nature of the tasks and their location are known luminaines can be located to avoid incation are known luminaires can be located to avoid location are known, tuminares can be located to avoid the offending Zone. When task locations are not known and flexibility is necessary, as for speculative office space, general low level ambient lighting, which tends to negate the effects of veiling reflections, and task lighting can he provided by plug in units at the discre

EQUIVALENT SPHERE ILLUMINATION (ESI)

ESI is a unit adopted by the IES for measuring the ESI is a unit adopted by the IES for measuring the visibility potential of a particular task at a particular lask at a particular lask at a particular lask and unit of measurement just as is the meterstick. It is not a standard of quality, but a way of taking into consideration those elements by which quality is judged. ESI cannot be measured over the area of a room as simply as tawn forticustles, because ESI includes the property of the prop depends on a task, a location, an orientation, and a lighting system. A task has 50 ESI when it is as visible as it would be when illuminated by 50 ft-c of illuminated by 50 f nance produced by a photometric sphere.

Lighting

TASK AMBIENT LIGHTING

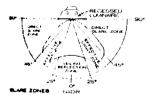
The present (EA) lighting systems have become provide higher intensity illuminapeace because they provide higher intensity stumma-tion only and lower levels of ambient light to the last only and lower levels of ambient light www.iceculation, thereby reducing electric energy imm. I'A extens are designed to give inculized disk for talk in thing and, isually, to project some per-design of illumination toward the ceiling for ambient. empose) lighting. A T/A lighting system to the foot of floor to the foot of th seen us write as 1.5 Wig 1); than does the conven-ment sweet pripring system top to 4 or 5 Wig 1; and has an be a system top to 4 or 5 Wig 1. and has an be a system to the curry awar. However, it is seen to 1 good legislary still apply, and not 1.7. A system streng roughting still apply, and not 1.7. A system streng roughting still apply, and not 1.7. A system store of the still apply of the system should at system executed bright spots of light on low saving and absent walls. Poor distribution of filters are as a system of the meter at room surfaces can be visually distribing to

LUMINAIRE SELECTION PARAMETERS

In maching a luminaire that will create good seeing demonstrate several factors should be considered:

- BABET GLARE is produced by excessive lumi-eares in the visual field that affect the visual system as the individual looks around the environ-ment. It is usually associated with the luminaire are from 45° to 90°. To minimize direct glare, to 90' zone
- I VISUAL COMFORT PROBABILITY (VCP) is the pacetur used to avaluate the direct glare zone area of iominance. Luminaries are given a VCP rating, which indicates the percent of people who, if seated a the most undesirable location, will be expected * And the luminaire acceptable from the standpoint direct glare texcessive luminances in the visual
- 3 Over giars may not be a problem if all three of the Section of the appropriate in all three of the section of conditions are satisfied: (a) The VCP is R or more, (b) the ratio of maximum to average sections of the ratio of maximum to average sections with the ratio of maximum to average (a) 64° 65°, 25°, and 85° from nadir crosswise and impresser (c) maximum luminaire luminances of

2250 ft L at 45° 1620 ft L at 55° 1125 ft L at 65° 495 ft L at 85"

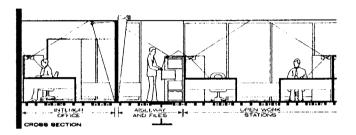


ASHRAF STANDARD 90-75

The American Society for Heating, Refrigeration, and Air Conditioning Engineers has established a procedure for determining a "Lighting Power Budget," which has been adopted in some areas as a mechanism for deter treen anothers in some areas as a mechanism for deler-mining how much electrical mengy will be allowed for lighting purposes in new buildings. The lighting power burget is intended only as a mechanism for encouraging energy conservation in lighting and is not a design tool. energy conservation in lighting and is not a design tool. Once the budget has been established, the designer is free to design the lighting system to achieve the best quality lighting within the budget and for the circum stances. Much can be done to conserve everyt while staying within the lighting budget.

MAINTENANCE AND DEPRECIATION

All elements of the building that affect light need to be kept clean. Luminaires, diffusers, lenses, window glass, lonvers, blinds; wall surfaces, and so on, tend to collect dust, which reduces their light controlling to collect thist, which reduces their light controlling efficiency. In the lighting furnulas below a Luminarie Dirt Depreciation (LDD) factor is used to account for collected dost and dirt. The LDD figure used will depend on the type of atmosphere in the room and the frequency of cleaning. Also, lamps depreciate with time, with their effective lumen output reduced, which is accounted for in the calculations with the application of the Lamp Lumen Debreciation (LLD) factor



SOME USEFUL FORMULAS FOR GENERAL LIGHTING DESIGN

footcandles desired x room area NUMBER OF LUMINAIRES = Toolcandles desired a room area

CU x LLD x LDD x lamps/luminaire x lumiens/lamps AVERAGE FOOTCANDLES = furners/famp x tamps/fuminaire x CU x LLD x LDD area of room (sq ft)

footcandles desired TOTAL ILLUMINATION (W/sq ft) * Overall lumens/watt x CU x LLD x LDD

where CU = Coefficient of Utilization LLD = Lamp Lumen Depreciation LDD = Luminaire Dirt Depreciation

NOTE

See manufacturer's photometric tables or the Lighting Handbook of the Bluminating Engineering Society for tables giving values of CU, LLD, LDD, lumons/lamps, and so on.

Room size 25 x 40 ft; ceiling height 9 ft; office area 70 ft c; 2 x 4 ft recessed troffers with 4 40 W T12 lamps (3100 lin) each. From IES tables, Room Index = E and CU = 0.67 (plastic lens):

70 x 25 x 40 NUMBER OF FIXTURES = $\frac{70 \times 25 \times 40}{0.67 \times 0.7 \times 4 \times 3100} = 8.4 \text{ (use 8 luminaires)}$

TOTAL ILLUMINATION (W/sq ft) = 8 x 200 W/luminaire - 1.6 W/sq ft 25 x 40

ES RECOMMENDED ILLUMINATION LEVELS (ESI AT THE TASK)

S PT C	10 FT C	20 F T C	30 FT C	50 FT-C	70 FT-C	100 FT C	150 FT-C	200 FT-C
Ests, at hise	Restaurant	Cleaning	Classrooms	Inspection	Commercial kitchen	Garage repair	Rough drafting	Fine drafting
fy wand	Parking garages	Hospital room	Waiting rooms	Rough factory assembly	General writing and reading	Office reading	Accounting	Engraving
John John 1	Hotel bath	Stairways	Restrooms	Bank totsby	Donnitury desk	Sewing	Office fine work	Color printing
	General Ho residential	Hotel bedroom	Entrance foyers	Church pulpit	Handicraft	Merchandising areas	Proofreading	Critical seeing
			Laundry	Checking and				
	!		Heading printed material	-				

Lighting

SOURCE

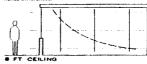
Daylight comes directly from the sun from the diffuse other surrounding objects. Direct sun penetrating into interior workspaces may cause excessive luminance contrasts. Direct sun should be controlled by proper orientation of the building, or by louvers, overhangs shades, blinds, or other levices. Diffuse light from the sty may cause excessive luminance contrasts when viewed by eyes concentrating on an interior task. In such cases, the sky should be filtered or shielded from view or the view of the task should be primited away from the windows. As much as half the light entering a space can be reflected from the ground.

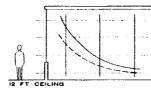
DESIGN GUIDELINES

interior than near the greetow. A rule of thurch is that daylighting can be effective for task illumination up to about 20 to 24 ft away from the windows, but this depends on the size and location of the windows. A window high in the fenestration wall will deliver light deeper into the interior than a fow window of the same size. Venetian blinds may be used to reflect daylight against the ceiling and into innre reinote areas of the space while preventing the penetration of direct suntight and view of excessively luminous areas on the exterior. The cross-sectional diagrams below show how the depth of the room affects daylight.

FINISHES

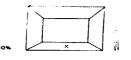
Finisher of interior surfaces are important in the con-trol of light and luminous ratios. Light colored surfaces, diffusely reflecting, will aid in the distribution of light and reduce luminance ratios. The diagrams below show how room surfaces affect daylight from a window. The celling is the most effective surface for reflecting light and should be very light in color (prefeably white). The floor is one of the least significant, and it is here that the designer has the greatest opportunity for use of darker colors, such as those found in carpets, although very dark colors may cause excessive lumi



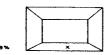


The higher and larger the window, the more light there the napid and surper the wholes, the total will be in the interior. The dashed dihumiation cover for the 8 ft ceiling can be compared with the solid curve for the 12 ft ceiling. Window areas below the level of the work surface are not effective in providing light on the task

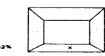
WINDOW HEIGHT



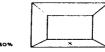
All room surfaces are white, and the illumination level at point x is 100%



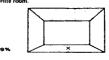
With the floor painted black the illumination level is 68% of the all white room.



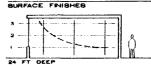
With the sidewalls painted black.



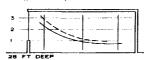
The back wall has been painted black, and the illumination level at point x is only 50% of that in the all-



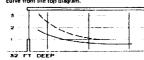
With the ceiling painted black.



The dashed curve indicates the illumination distribution

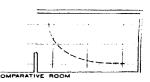


The solid curve indicates the illumination level for a 28 It deep room and can be compared with the dashed curve from the top diagram.

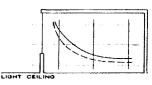


The solid curve indicates the illumination level for a 32 ft deep room and can be compared with the dashed curve from the top diagram.

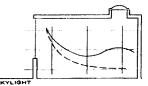
ROOM DEPTH



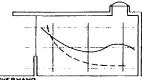
A particular room produces a distribution of daylight as indicated by the dashed curve (repeated below).



When the reflectivity of the ceiling is increased (painted white) the illumination level increases as indicated by the solid curve. The distribution curve flattens some what, since the increased ceiling reflectance increases

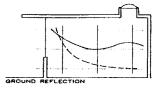


The introduction of a skylight near the back wall increases the illumination in that area. (A clerestory, or a high window in the back wall, would produce similar results.)



OVERHANG

An overhaig can he used to reduce the illumination near the windows to a gleater degree than in the back of the room. Another way to do this is with horizontal louvers on the exterior of the window wall or with interior venetian hillinds.



Increasing the ground reflectivity (e.g., with a concrete walk) outside the window will increase the general level of interior illumination.

DAYLIGHTING METHODS

Security

FUNCTION	BASE	DESCRIPTION
Controlled access	Real	An electronic system identifies precoded card. Per- forms real time function when reporting to author- ity in the immediate area. The card reader system will provide after the fact.
	- Cite	reporting when used in conjunction with outside reporting authority—Police Department, etc.
Controlled access	Real	Mechanical combination lock, access can only be achieved by selecting the correct push buttons in the correct numerical sequence
Intrusion fire	and alter	A system of key actuated switches in particular locations. Patrolmans will visually survey the area along a predetermined route. The patrolman must activate switches along the route in a predetermined time or the system will sound alarm. The most simple system is a watch clock that indicates each location activated and inspected at a later date to determine if the patrolman completed the route. The more sophisticated system is electronic reporting to a central console each time a particular location switch is activated, allowing the security supervisor to track the patrolman through the complete route.
Intrusion	After or real	Door switches on doors and conflucting tape on windows, any interruption of continuity causes alarm. When used with outside law enforcement agency may or may not provide real time base re- porting depending upon the response of the law en- forcement agency.
Intrusion	Real	Photocell receives light beam from seruler. Any in- terruption of beam sends alarm. The system is flexible for indoor or outdoor use and can be a sin- gle set of devices or many devices reporting to a central annunciator. Infrated detection is similar except that infrared is not visible light, which may have advantages in some instances.
Intrusion	Real	Balanced electronic circuit becomes unbalanced by the capacitance of an organic body in the immedi- ate area
intrusion (broad coverage) Intrusion (narrow coverage)	Real	A transmitte emitting high frequency sound to a receiver. Intruder unbalances system and indicated alarm. A real time base system when reporting to an authority in the immediate area. Similar to ultrasonic except that it uses microwaves instead of high frequency sound. Microwave will travel long distances (150-200 ft); ideal for long corridors, etc.
Intrusion	Real	Contact microphone system attached to particular object such as a safe. Any vibration or noise initi- ates alarm
Visual surveillance	Real	Video camera is connected to monitors. Design considerations include lighting levels, lens selec- tion, switcher networks, special enclosures, and ambient temperature range
Controlled access area monitoring	Real and after	A system of microphones, speakers, and amplifiers, such as intercom, public address—audio level sensing
Monitoring system for all building functions	Real and after	Provides complete status report of all building functions by use of a minicomputer and amministurs. Allows building engineer to handle building systems and security systems from the same console. Building security systems from the same console. Building security systems can be procured with princut to establish record of security sidal times for after the fact investigation. Software programs for the computer are available from all building control system manufacturers to establish almost any degree of software are available from all building control system and can thus better direct such conservitive action as calling the poline, the fire department, or local security, as well as advise the building occurators about what action to take for protection. Depending on the software program, the building engineer can also control the security access or energency evocasion routes in case of emergency to protect property or life.
	Controlled access Controlled access Intrusion fire Intrusion Intrusion Intrusion Intrusion Intrusion Intrusion Visual surveillance Controlled access area monitoring Monitoring system for all building	Controlled access Real After Controlled access Real Intrusion fire Real and after Intrusion After or real Intrusion Real Intrusion Real Intrusion Real Intrusion Real Intrusion Real Controlled access area monitoring after more all building and and after Real Monitoring system Real Monitoring system Real Monitoring system Real Monitoring system Real Intrusion Real

SECURITY SYSTEMS

Senarity systems can only perform the function of controlled access, intrusion alarm, personnel or mitruder identification, or fire watch. Some security sis tems perform one function while other scores as multifunctioning. In most cases, security systems are provided to improve the capability of a security guard system. The most effective is a trained security re-sonnel system. Any other system is usually merely a-aid and has been established as a compromise measure to limit the need for trained personnel

The design of a security system must be based on or

- 1. Type of security needed is based on the type of tatype of security needed is based on the type of 6 city, the company's public mage, focusing employing city, encountent, personnel safety, manufacturing crows; tays secret security, number of work whit, the type of people employed, internal security report ments, need for security from external source and in some instances even political ramifications or use. of secret or classified materials that may be succeed to espionage or sabotage.
- to espionage or salonage.

 2. The degree of security needed depends on name one factors, including the location of the factor, which roll is not low risk area, which could well-effect the degree of security needed from externationate and the need for internal security selected against the level of a stationage. The acceptance of the by citity in the neighborhood can have a great being on the degree of security needed. Employment of union tabor with the possibility of lock-one and strikes would also have a bearing on the degree of security.
- A building designed with security in mind with a duce the cost of an effective security system. The building area to site ratio is also a definet facto e security. Building access, type of building contrac-tion, the proximity of local law enforcement agen-cies, parking access, and control of planned expen-sion are all prime factors to be considered.
- sion are all prime factors to be considered.

 The extent and degree of sophistication but map a security system is normally controlled by the case of the security system results expected loans. A complete system of trained security guards not persisted and, in many cases, cannot be insisted therefore, other means of extending the guards as publishing air necessary compromes to keep the solen's cost in perspective with expected losses. Care may not always be the major factor in selecting e-curity systems, but in most instances a compromise results in the desire for system sophistication and
- cost.

 The availability of personnel to service and much tain the selected equipment should be throughly investigated. Companies that have service records and service records and service records and service. recommended by their customers should be aware the greatest consideration.
- A prime consideration is the response of the local law enforcement agency to a security alarm. When the local law enforcement agency cannot perform administry, other alternatives must be considered stuch as private investigation companies or in local. security personnel.
- 7. The time base of the security system that a me time time base of the security system that a my time or after the fact time, has a bearing Residue is the capability of notifying the enforcement as thority in charge in time to control the event. A he-the fact time is notification that an incustret a ec-curring, but that, because of the time required to respond, it cannot be controlled immediately. Se lection of a system must be based on the functions desired. Only one type of system may be required or a combination of many systems for large indead tions. If desired, all systems can be connected to pe off premises monitoring company or law enforce
- 8. If a large security system is contemplated, the new law enforcement agency and the local outsets reprinting agency should be consulted to determine what services they can provide. These pages on an arms. also advise the designer about the equipment and type of system that will best fit their particular method of operation. The manufacturers of me particular equipment must also be contacted and each type of equipment should be discussed in special cases, mockups should be required to a termine whether the particular equipment with A fact, perform as stated by the manufacturer, and will perform the desired function.

Security

