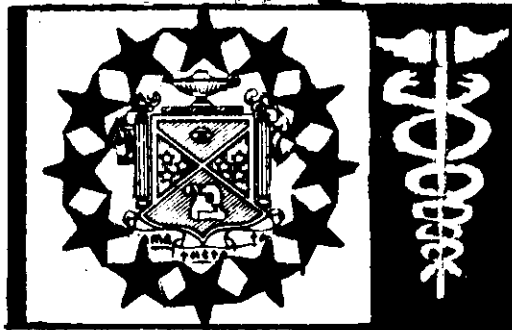


# sigma theta tau national headquarters

national honor society of nursing  
office building

Indianapolis, Indiana



## building program

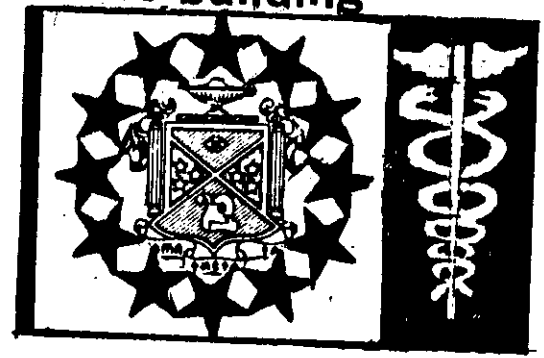
Brian Metzger  
Thesis 406

May 1980  
Prof. Koehler

Arch  
1944  
1945  
1946  
1947  
1948

**CONTENTS**  
**national honor society of nursing**  
**office building**

**1**



PROGRAM STUDY SEC. NO.

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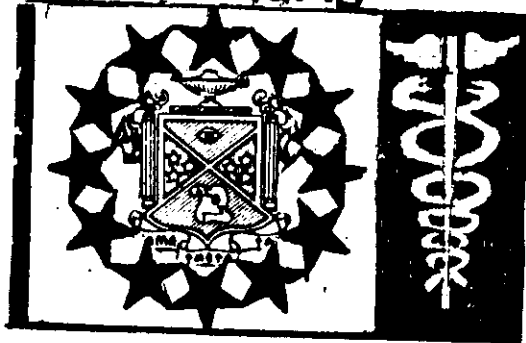
**DRAWINGS 17**

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**SUMMARY**  
**national honor society of nursing**  
**office building**

**2**



## Major Program Elements of Functions

There are various functions which will be important roles in the physical design of a new Sigma Theta Tau National Headquarters.

One role within the building program will be that of a host for visiting Sigma Theta Tau honorary nursing students and conference attenders. The national headquarters should facilitate within this aspect of the program, such activities as banquets, audio-visual seminars, committee and council meetings, facility tours, and informational services.

Another function within the building program is to provide for communication services. Such activities as reproduction and duplication services will provide a vital link to present and potential members of Sigma Theta Tau.

A third role within the building program will be the executive office functions which are necessary to achieving the national honorary's business goals and functions. The building should facilitate business management duties including record keeping and finances.

## The Site

The tentative site for the new Sigma Theta Tau National Headquarters is at the College Park office environment on the northwest side of Indianapolis. Access roads include West 86th Street south of the site as a primary vehicular route, and Purdue Road as a secondary business and service access route east of the site.

The adjacent business community offers many convenient and aesthetic features. Several small chain restaurants are convenient to the south, a shopping plaza to the west, the College Park Pyramids to the north, and national fraternity and sorority headquarters offices to the east. A feature of the tentative site is its prominent location at the end of Founders Road.

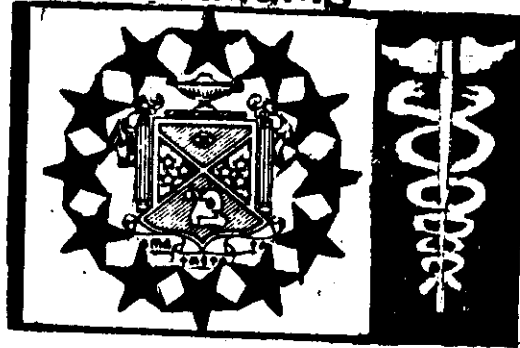
#### Client and Users

The client comprises official representatives and members of the Sigma Theta Tau National Council Governing Body who have an interest in the growth and expansion of a new, updated headquarters. Consultation will be with the Executive Officer of the Sigma Theta Tau National Honor Society in Indianapolis at the School of Nursing.

Communicative services and business management personnel as well as visiting members of the nursing honor society will be the particular set of users influencing the long term planning goals.

**INTRODUCTION**  
**national honor society of nursing**  
**office building**

**3**



The Sigma Theta Tau Headquarters Building  
National Honor Society Of Nursing  
Indianapolis, Indiana

Sigma Theta Tau National Headquarters Building is being proposed for the College Park office environment on the northwest side of Indianapolis. Access roads include west 86th street as a primary vehicular route, and Purdue Road as a secondary type business and service drive west of the site. The adjacent business community offers many convenient and aesthetic features. Several small chain restaurants are convenient to the south, shopping plazas to the west, the College Park Pyramids to the north and the fraternity-sorority offices to the east.

Selection of the site was born out of a number of criteria. First, the most economical site location became a determinate. Secondly, its location within the national fraternity-sorority office neighborhood seemed appropriate.

The client represents those official representatives, members of Sigma Theta Tau National Council governing body who have an interest in the growth and expansion of a new updated headquarters. Consultation on the building program is currently being conducted with the executive officer of the organization. Communicative services and business management personnel as well as a concern for visiting members of the nursing honorary will influence long term planning goals.

There are several aspects which have supported the validity of pursuing a design for the new Sigma Theta Tau headquarters. The National Honor Society of Nursing is presently establishing a building fund to accomodate the growth and expansion of a new building over a ten year period. In the second case, a new design proposal would help to inspire or motivate nursing honor society members and patrons to pledge their support to a headquarters building fund.

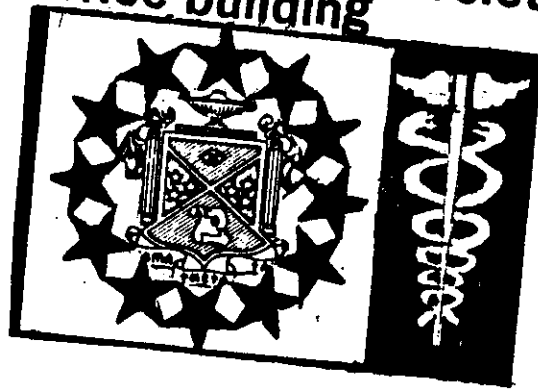
In the third case, there are problems which exist with the Sigma Theta Tau current facility. An over crowded one room office, the lack of individual privacy and sufficient storage space for records and supplies, as well as an absence of environmental type control of sun glare and ventilation which subtracts from a healthy business environment. Pursuing a design for a new building may be justified on this level of understanding these existing problems.

One of the strongest images within the selected Sigma Theta Tau site regional area is the College Park Pyramids.

There has been some discussion with the client that such an image may be an inference to a new headquarters vernacular. In addition there is some anticipation of interior garden court spaces as well as exterior versions. The concept of the future building will be dramatic one and through foresight and advanced planning with the client, a respectable image will be achieved.

**GOALS**  
**national honor society of nursing**  
**office building**

**4**



# ENVIRONMENTAL

Energy Concerns  
Passive Solar Heating  
Protective Entrances  
Human Scale Elements  
Natural Lighting Concerns

# CLIENT

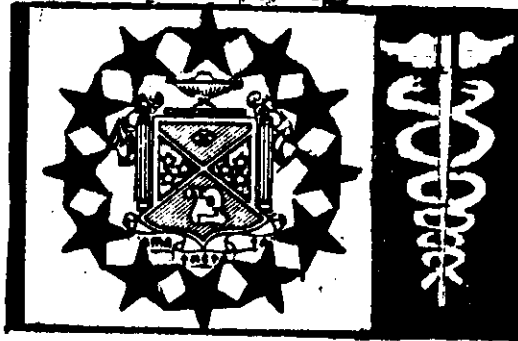
Maintenance Free Exterior  
Nature Observation  
Permanent Structure  
Dignified Image  
Conference Functions  
Respectful In Educating Public  
Limestone Structure  
Garden Landscape Concerns  
Economical Design  
Convenient Access By Users  
Room for Expansion  
Aesthetically Pleasing  
Low Utilities Cost  
Building Capturing Spirit  
Low Utilities Cost  
Captures Spirit of Nursing  
Cultural Design Influence

# PROFESSIONAL

Building Atrium Considerations  
A Visual Point Of Reference  
Concept As A Gateway To Area  
Emphasis On Various Vistas  
Monumental Influences  
Image Relationships  
Economical Site Location  
Prominent Location  
Future Addition Consideration

**ORGANIZATIONAL DATA**  
**national honor society of nursing**  
**office building**

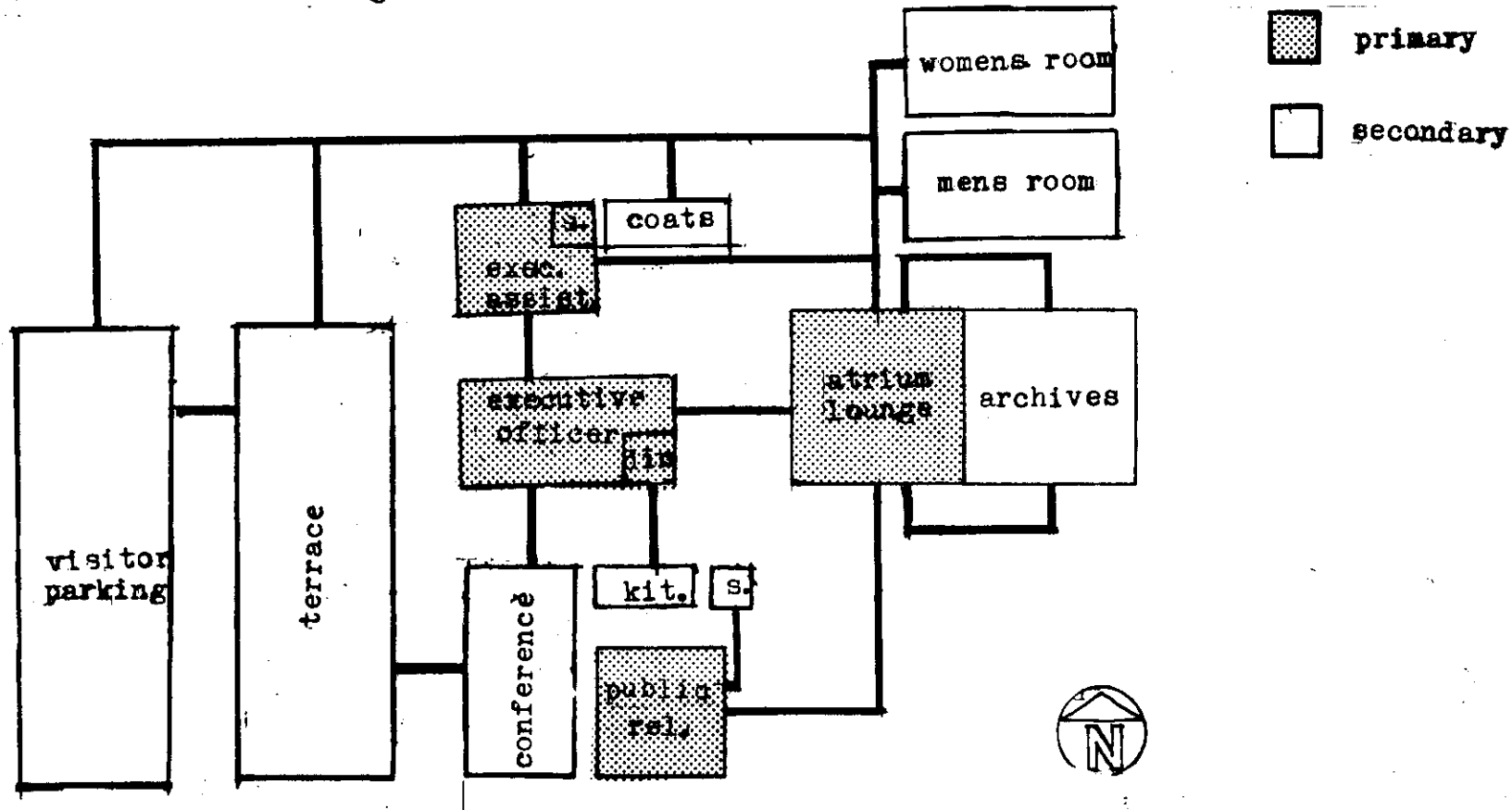
**5**



# EXECUTIVE OFFICES

## LEVEL 1

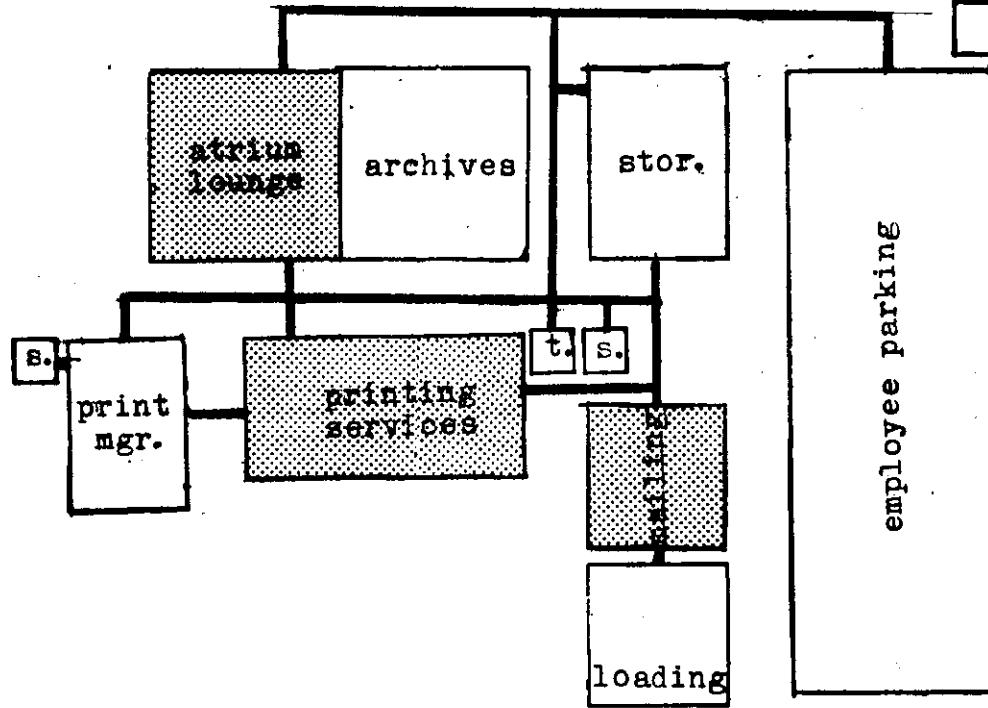
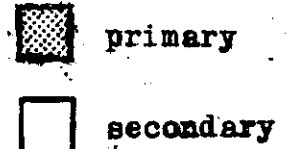
Organisational Chart Of Primary & Secondary Spaces





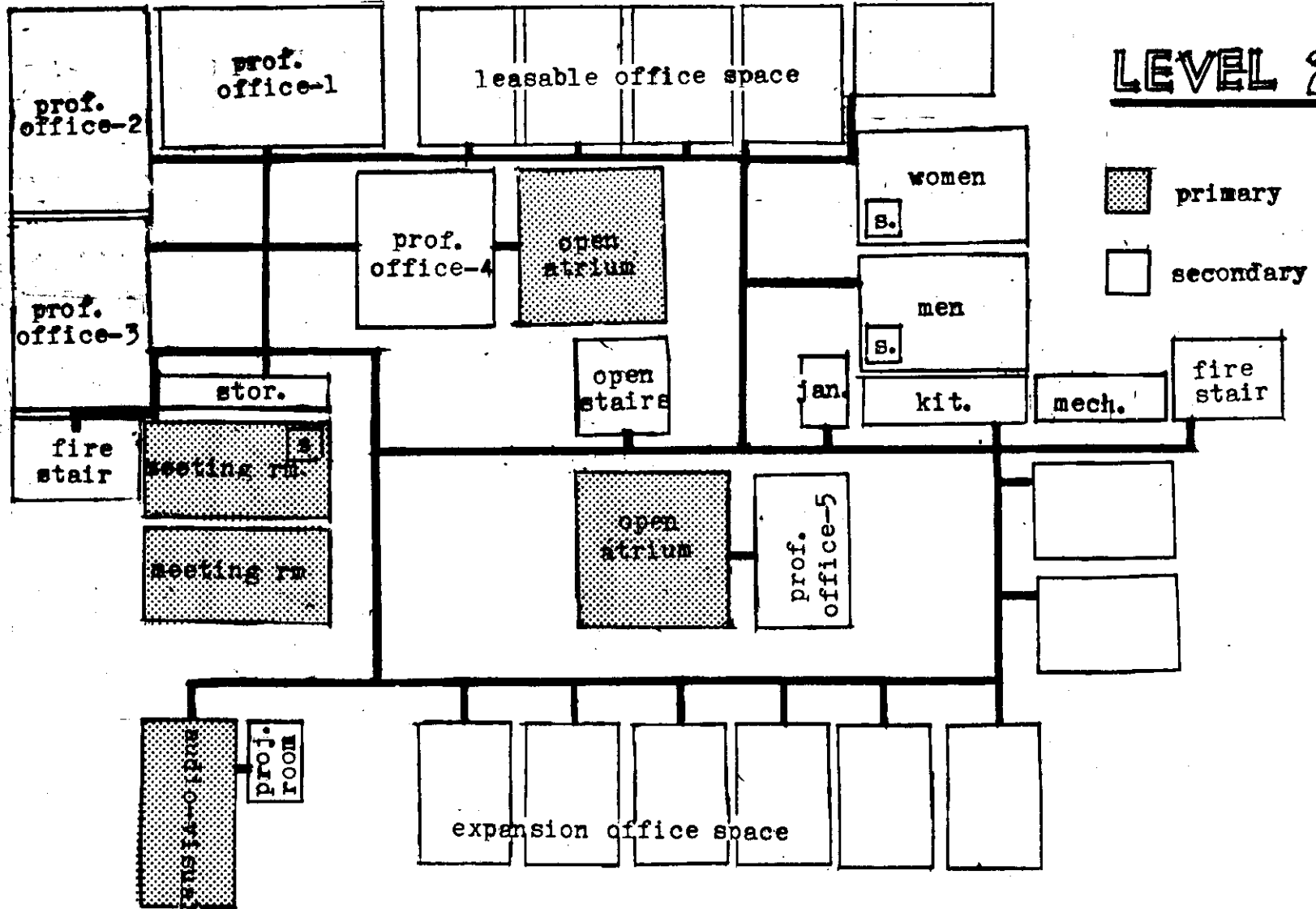
# COMMUNICATIVE SERVICES WING LEVEL 1

Organisational Chart Of Primary & Secondary Spaces



# LEASABLE OFFICE AND MEETING SPACES

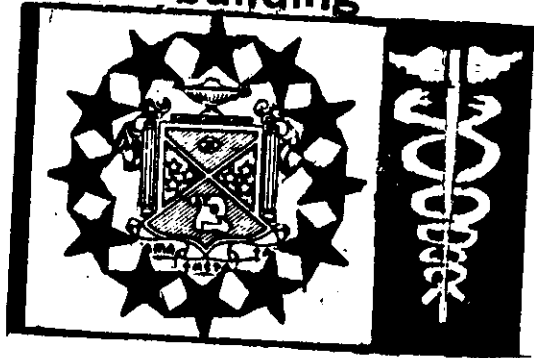
## LEVEL 2



Organizational Chart Of Primary & Secondary Spaces

SPACE SUMMARY  
national honor society of nursing  
office building

6



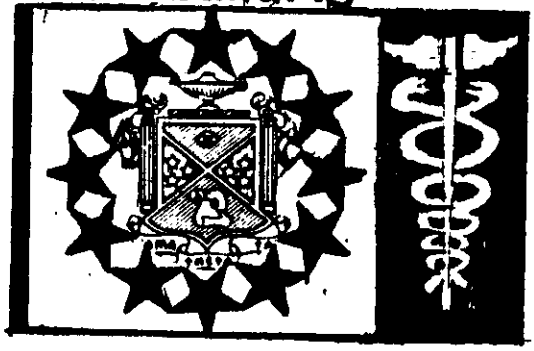
BUILDING PROGRAM OF SPACE REQUIREMENTS	Space Size	No. of Spaces	'Square Feet
<b>COMMUNICATIVE SERVICES</b>			
Audio-Visual Seminar Space	12'-0"x 34'-0"	1	408 sq. ft.
Conference Room	12'-6"x 25'-0"	1	313 sq. ft.
Equipment Storage Room	4'-6"x 9'-6"	1	42.75sq. ft.
Printing Services Office	22'-6"x 27'-6"	1	618.75sq. ft.
Printing Office Manager	13'-4"x 22'-6"	1	301.5sq. ft.
Mailing Room	15'-6"x 17'-0"	1	108.5sq. ft.
Meeting Room-1	13'-6"x 32'-6"	1	438.75sq. ft.
Meeting Room-2	14'-0"x 32'-6"	1	455 sq. ft.
Kitchenette	4'-0"x 20'-0"	1	80sq. ft.
Public Lounge & Exhibition	29'-0"x 29'-0"	2	1682sq. ft.
Receptionist	9'-0"x 11'-0"	1	99sq. ft.
Xerox Room	13'-6"x 18'-6"	1	549.75sq. ft.
Conference Reception	8'-6"x 32'-6"	1	276.25sq. ft.
Subtotal			5,373.25sq. ft.
<b>EXECUTIVE OFFICES SPACE</b>			
Executive Officer Space	14'-6"x 32'-6"	1	471.25sq. ft.
Executive Assistant Space	14'-6"x 21'-6"	1	311.75sq. ft.
Public Relations Office	13'-0"x 23'-0"	1	299.0 sq. ft.
Secreterial Office Pool	27'-6"x 50'-0"	1	1,375.0sq. ft.
Office Manager	26'-0"x 27'-0"	1	702.0sq. ft.
Filing Room	13'-4"x 26'-0"	1	348.4sq. ft.
Bookeeping Room	13'-6"x 26'-0"	1	117.0sq. ft.
Data Pricessing	20'-6"x 27'-8"	1	569.9sq. ft.
Field Staff Office	22'-0"x 27'-0"	1	594.0sq. ft.
Field Staff Research Deposit	5'-6"x 22'-0"	1	121.0sq. ft.
Archives	16'-6"x 29'-0"	1	478.5sq. ft.
Subtotal			5,397.80sq. ft.

BUILDING PROGRAM OF SPACE REQUIREMENTS	Space Size	No. of Spaces	Square Feet
<b>RENTAL OFFICES SPACE</b>			
Professional Office Space			
Office-1	26'-0 x 27'-0	1	602sq. ft.
Office-2	21'-0 x 27'-0	1	567sq. ft.
Office-3	27'-6 x 29'-0	1	783sq. ft.
Office-4	22'-4 x 28'-0	1	576.8sq. ft.
Office-5	16'-6 x 29'-0	1	481.4sq. ft.
Leasable Office Space	13'-6 x 22'-6	8	303.75sq. ft.
Future Expansion Office Space	13'-6 x 22'-6	5	303.75sq. ft.
Leasable Storage	7'-0 x 32'-0	1	224sq. ft.
Subtotal			3,841.7 sq. ft.
<b>SUPPORTIVE SPACE</b>			
Lobby-Reception Space	13'-0 x 18'-0	1	234sq. ft.
Paper and Supply Storage	2'-6 x 6'-0	2	30sq. ft.
Trash Rooms	4'-0 x 4'-0	3	48sq. ft.
Janitor	7'-0 x 12'-6	2	175sq. ft.
Coat Room	8'-6 x 10'-4	1	88.4sq. ft.
Womens Room	16'-6 x 21'-6	2	355sq. ft.
Mens Room	16'-6 x 21'-6	2	355sq. ft.
Vending Space	4'-0 x 14'-0	1	56sq. ft.
Main Office Storage	23'-0 x 28'-0	1	644sq. ft.
Kitchenette	13'-6 x 15'-0	1	675sq. ft.
Dining	6'-6 x 12'-0	1	79.2sq. ft.
Loading	11'-6 x 16'-6	1	190sq. ft.
Subtotal			2,630sq. ft.

Total Net Assignable Sq. Ft.			17,243sq.-ft.
Unassignable Sq. Ft.			
Circulation 16%			2,758sq. ft.
Mechanical 5%			862sq. ft.
Structure-walls, partitions 7%			1,207sq. ft.
			22,070sq. ft.
Total Gross Sq. Ft.			

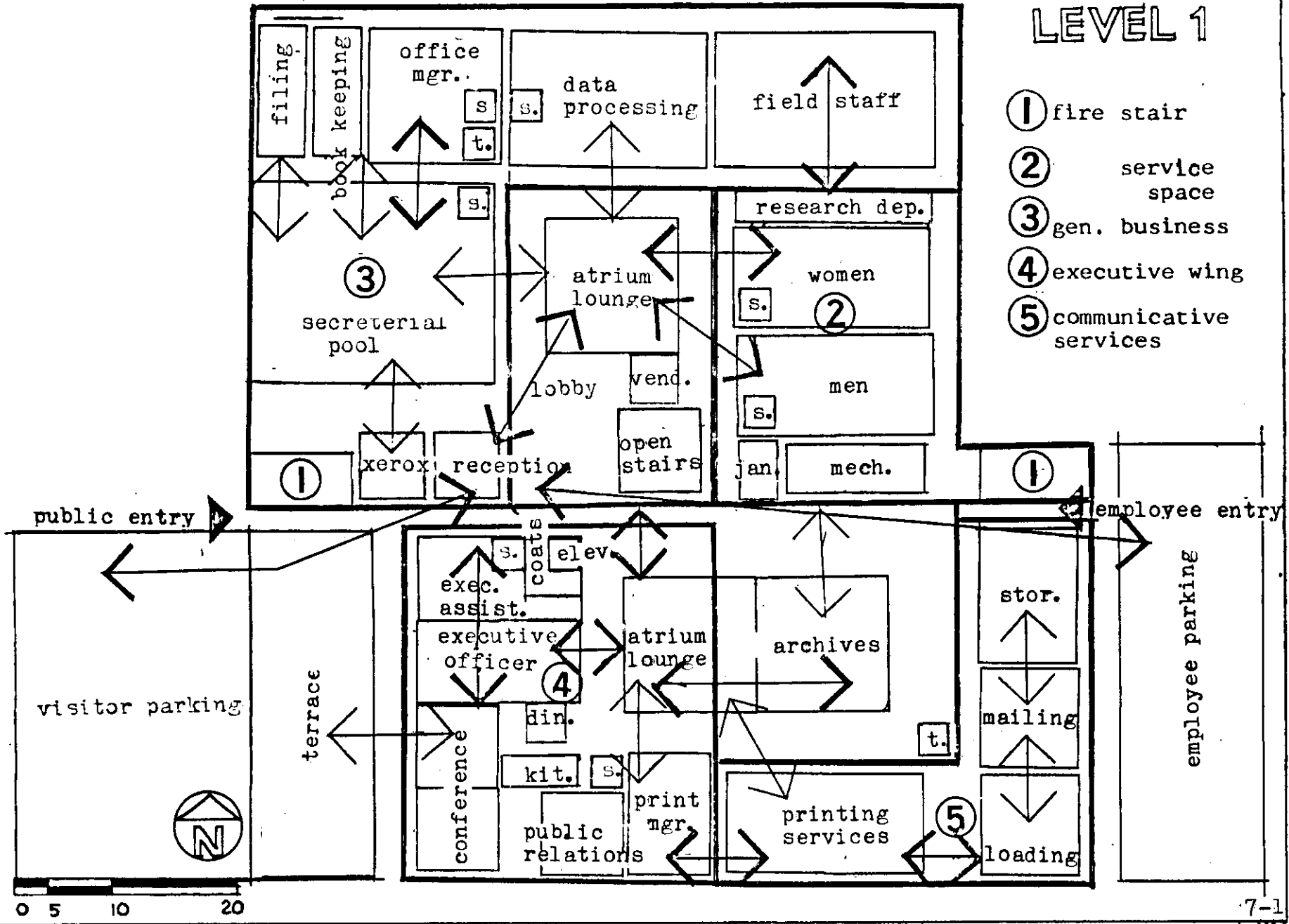
**SPACE RELATIONSHIPS**  
**national honor society of nursing**  
**office building**

**7**



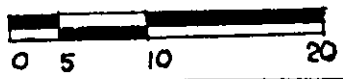
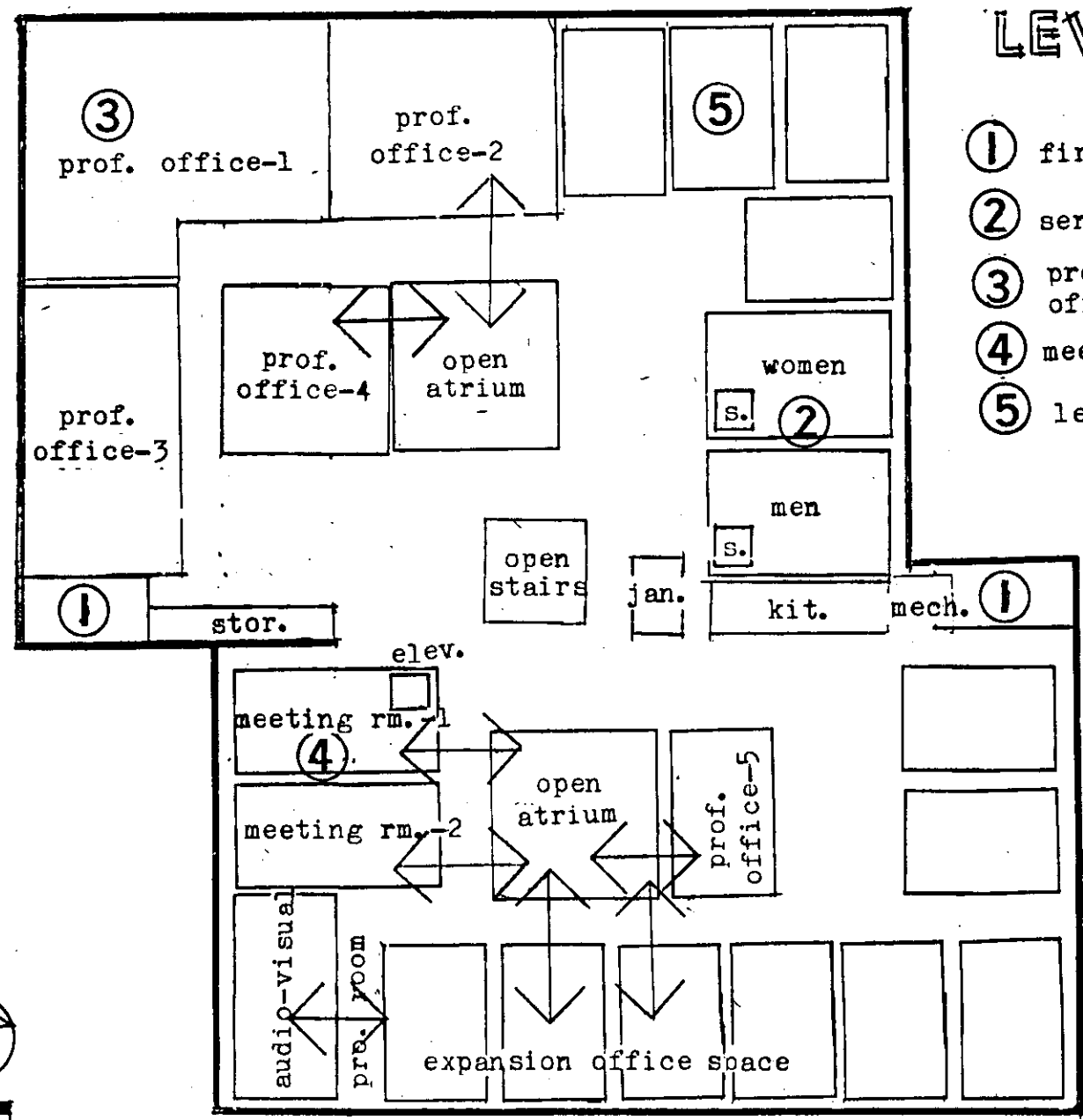
# LEVEL 1

- ① fire stair
- ② service space
- ③ gen. business
- ④ executive wing
- ⑤ communicative services



# LEVEL 2

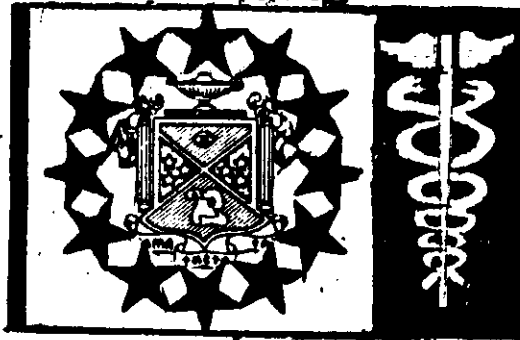
- ① fire stair
- ② service space
- ③ professional office wing
- ④ meetings
- ⑤ leasable office

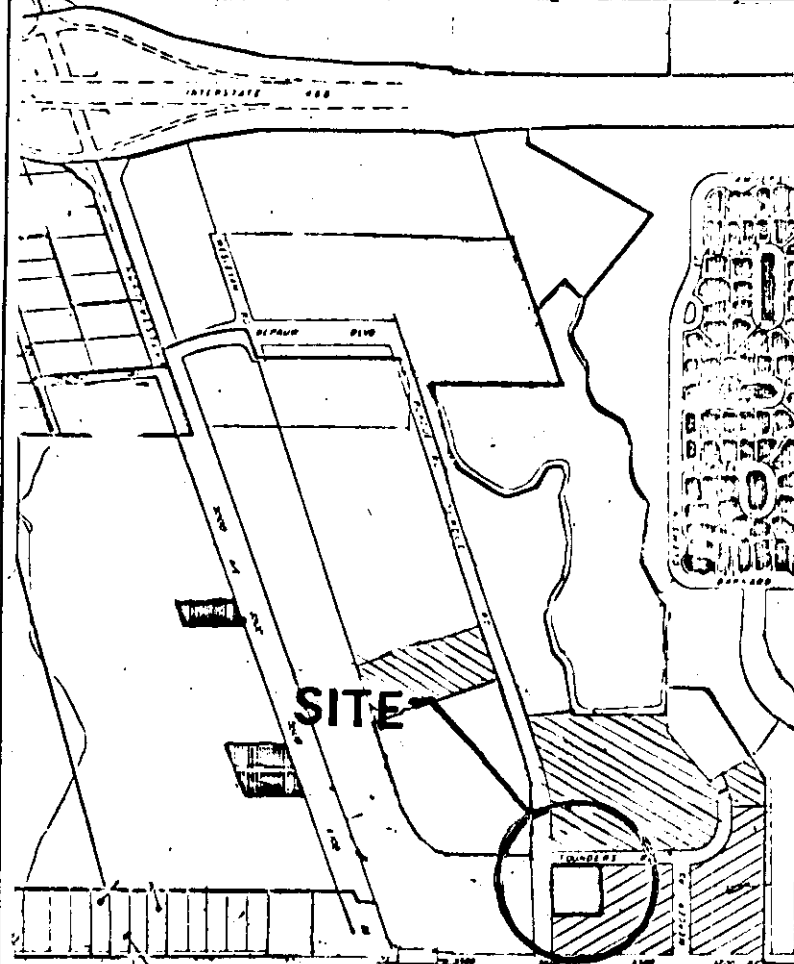


SITE DATA

**national honor society of nursing  
office building**

**8**





ORIENTATION



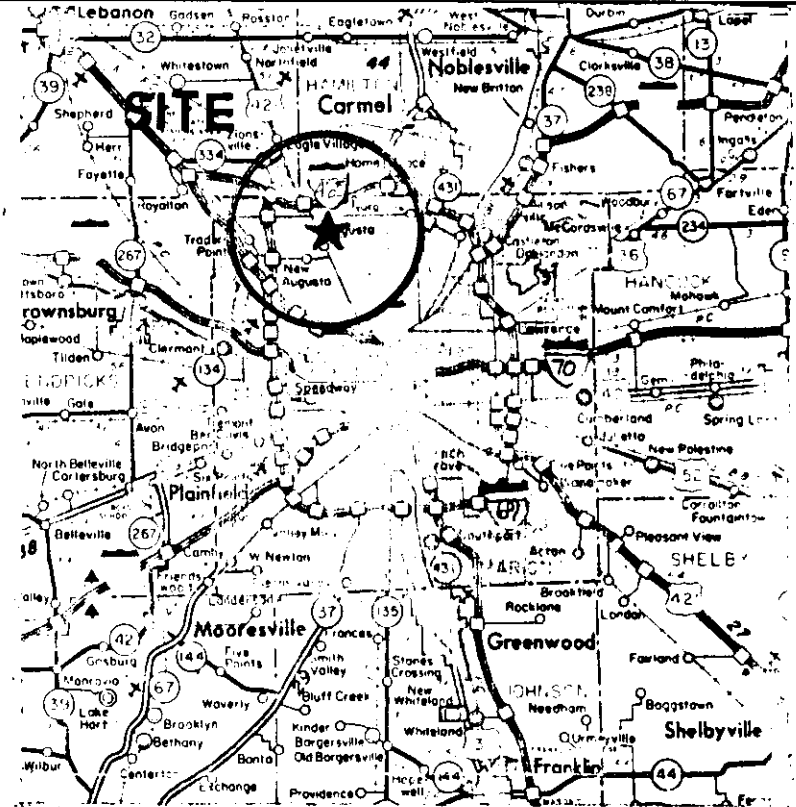
RESIDENTIAL



COMMERCIAL



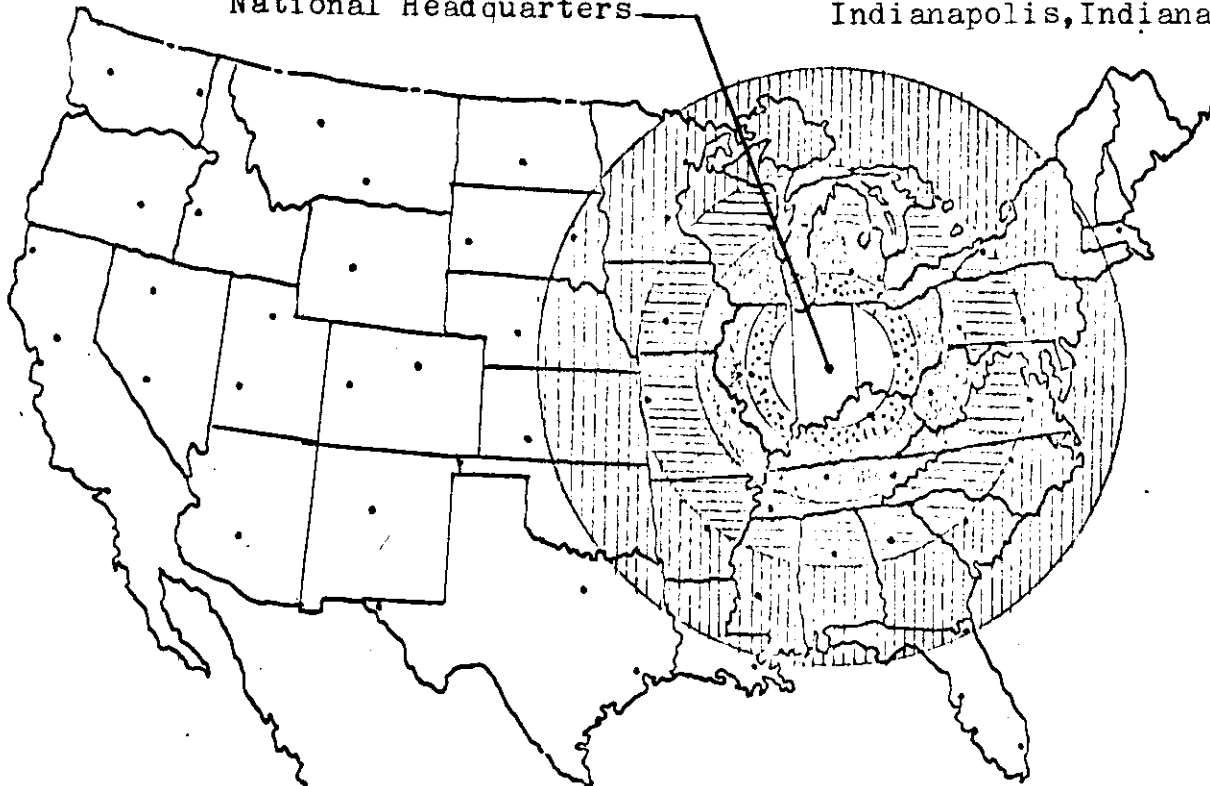
BUSINESS



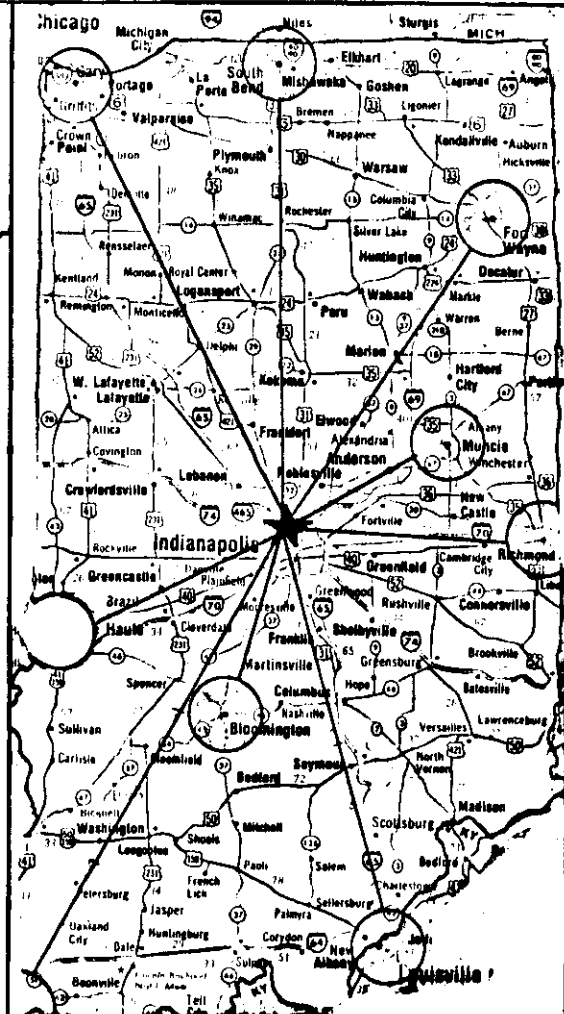
**SITE ANALYSIS: ORIENTATION**

The tentative building site for the Sigma Theta Tau National Headquarters is located at the College Park office environment on the northwest side of Indianapolis. In regards to site orientation to vehicular routes, access roads include West 86th Street south of the site, as well as Purdue Road immediately adjacent to the east. Northwestern Avenue, bordering the site to the west, provides convenient access to the Indianapolis downtown business community ten miles away.

Sigma Theta Tau  
 National Honor Society of Nursing  
 National Headquarters  
 Indianapolis, Indiana

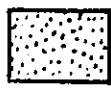


United States Regional Distances

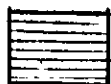


Indiana Regional Areas

**SITE ORIENTATION**



300 miles



550 miles



360 miles



900 miles

**185**

SO. BEND

**180**

EVANS.

**191**

GARY

**61**

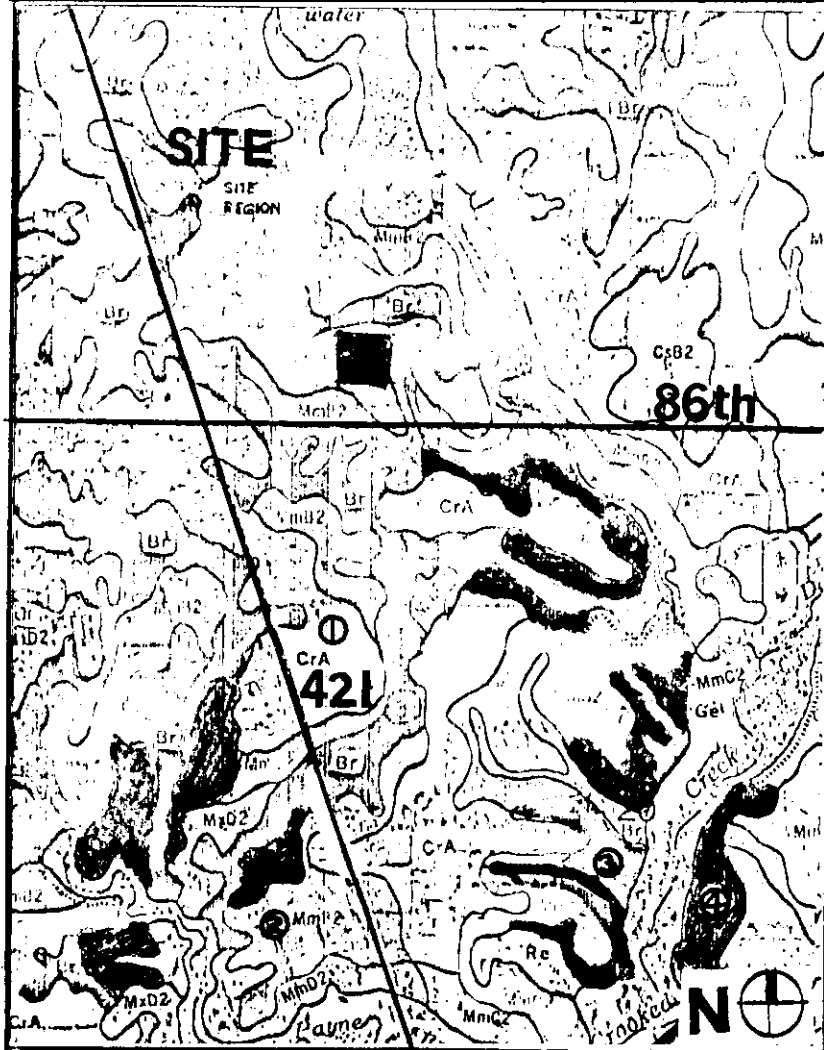
MUNCIE

**115**

FORT WAYNE

**120**

LOUIS.



Existing Soil Type

Crosby-Brookston association, whereby soils are deep and somewhat poorly drained. Nearly level with gently sloping terrain. Erosion hazard. A good topsoil.

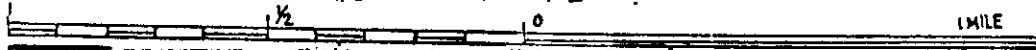
Existing Vegetation





Deciduous maple hardwoods 12' x 20' planted in linear fashion adjacent to site along Purdue Road. Site presently has two young hardwoods. No buffers exist between adjacent properties.

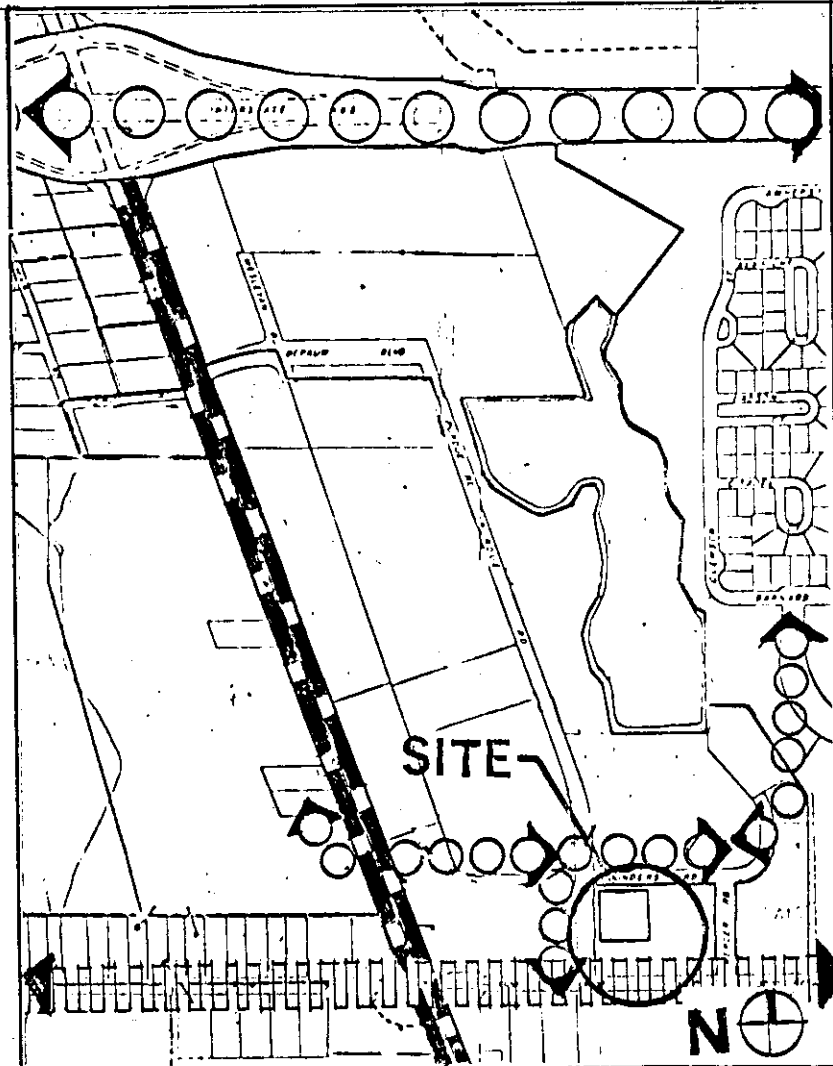
Special Features

Site appears to be mounded at the northwest corner and at the edges along Purdue and Founders Road.  
 Nice gradual slope away from street resulting in a five foot elevation difference.

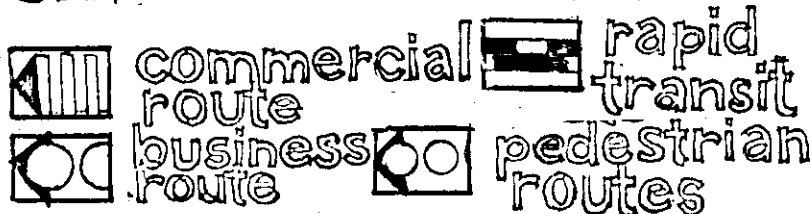
**SITE TOPOGRAPHY**



- |   |   |
|---|---|
|  |  |
|  |  |



## SITE ACCESSABILITY



In regards to the adjacent commercial, business, tourist, and residential benefits, the orientation of the site is appropriate because of its centralized location. To the south, within walking distance, are a few small food chain restaurants. Also, in the commercial area is a shopping plaza within one block to the west of the site.

Pyramid office environments, located approximately three blocks north of the proposed building site, provide a contribution as a tourist location and a landmark for the adjacent business office environs. An examination of the neighboring businesses to the east of the proposed site reveals a small business community of the national fraternity and sorority headquarters' offices.

### Accessibility

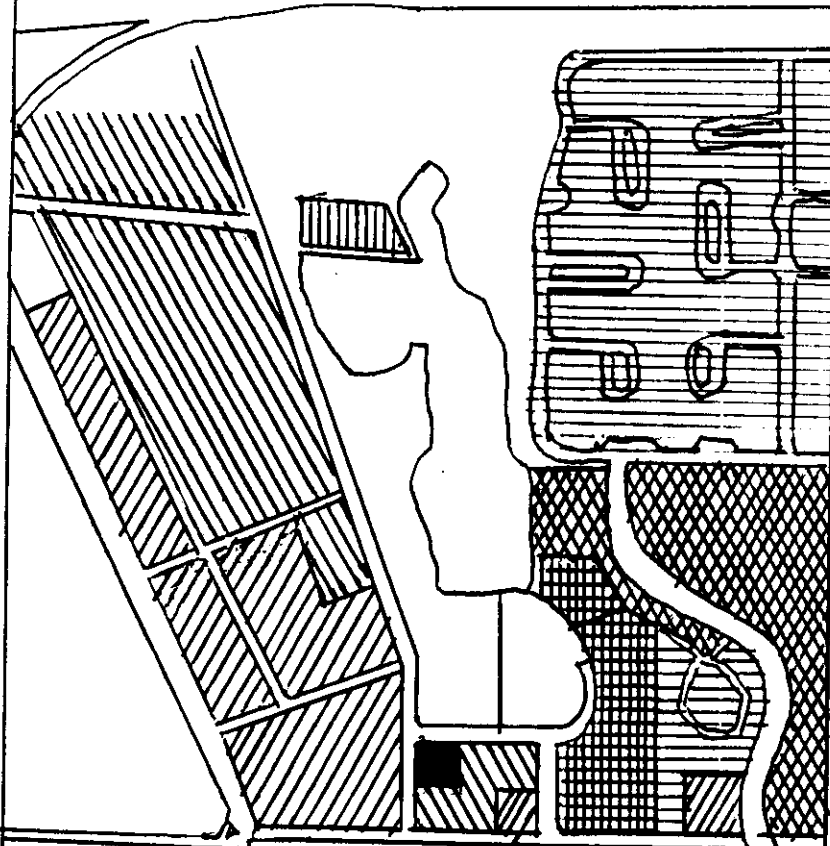
A Metro Coach provides regular bus service. Plans are underway by the developer to tie in the College Park with a helicopter commuting service from Indianapolis International Airport.

The primary auto corridors are West 86th street with 26,000 cars every 24 hours, average. JS 421 west of the site at the same figure. I 465 has 26,600 cars per 24 hour period.

The secondary auto corridors include Purdue Road, Mercer, and Founders Road.







Pedestrian arteries include a pedestrian bridge which links the residential neighborhood with the office neighborhood just east of College Park lake. There are worn paths from Collegiate Center, residential areas, and around the lake.

Interstate I-465



86th St.

Land Use Reference

 Office Sites	 Existing Housing
 Commercial	 Commercial Offices
 Multi-family	 Collegiate Center

The Office Environment

Physical--site is integrated in a development

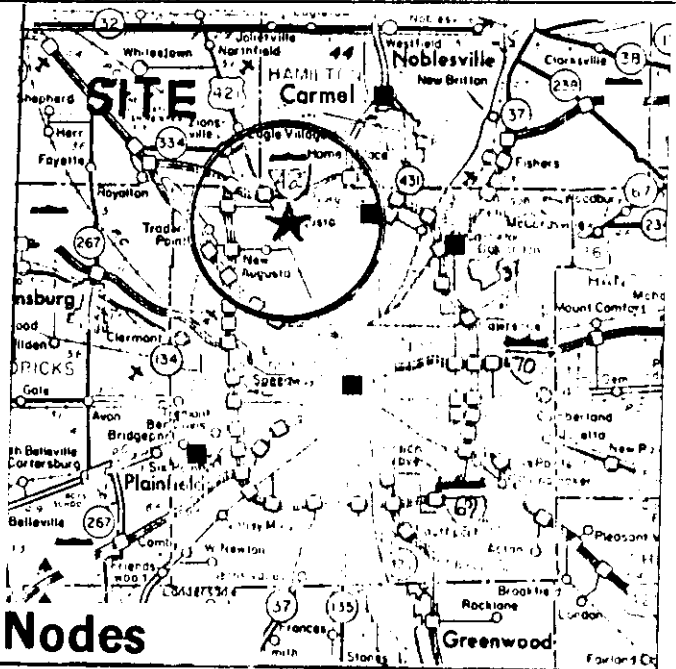
1. Project having commercial, retail, restaurant, lodging, and office.
2. A man-made lake exists one half block north of the site.
3. Residential multi-housing exists east of the site.
4. Office structures are also east and north of the site.
5. Presently being developed are commercial and office sites to the west.

Social

1. Feeling of a unified business environment; a quiet location and atmosphere
2. Buildings reflect through its materials, a professional, high quality business environment.

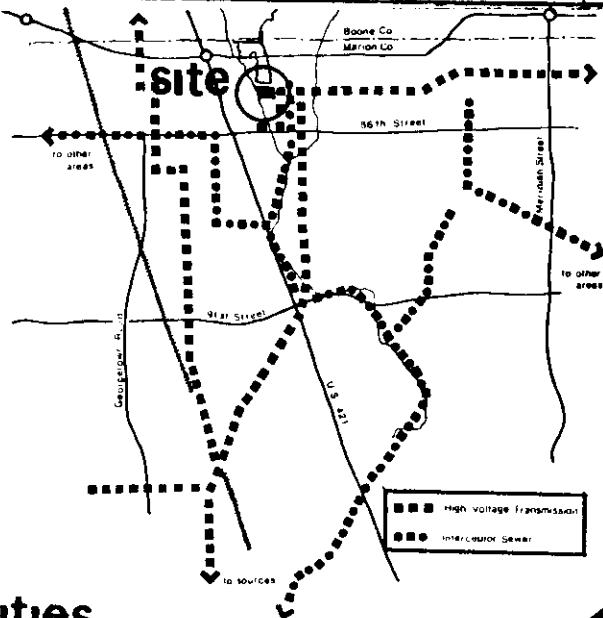
Emotional

1. High sense of technology; permanent feeling by materials used.
2. Feeling of security due to daily services. Easily accessible walking distance. Examples are neighboring food chains, shopping, and lodging within safe distances.



## Major Regional Activities and Nodes:

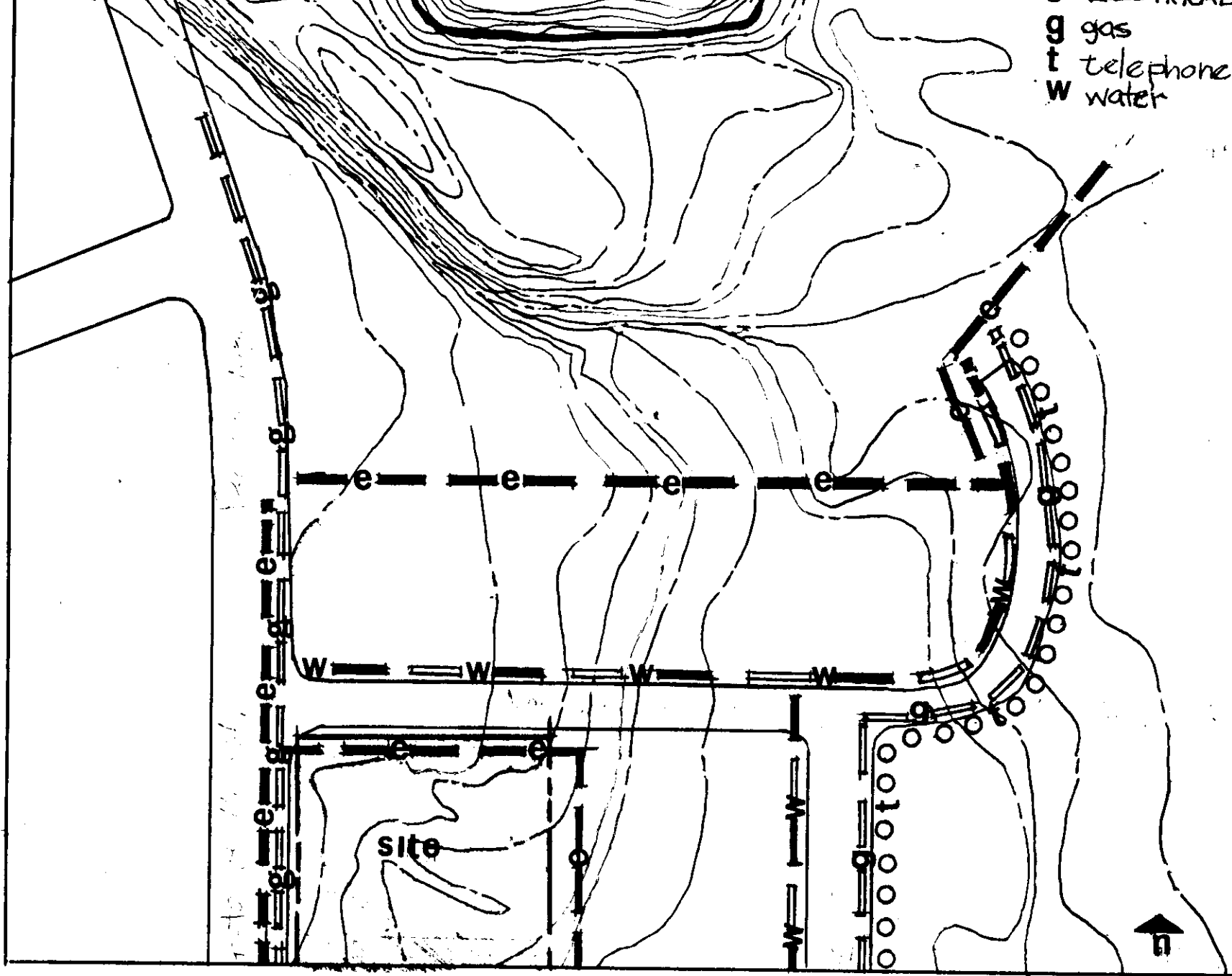
- A. Shopping Centers
  1. Nora Shopping Plaza east of site on West 86th Street.
  2. Westlane Shopping Mall on US 421 south of the site.
  3. Castleton Square east of the site off I 465.
  4. Zionsville
  
- B. City and Town Centers
  1. Downtown is ten minutes south of site.
  2. Zionsville is ten minutes west.
  3. Carmel is five to seven minutes northeast.
  4. Nora is ten minutes east.
  5. Westlane is three miles south.

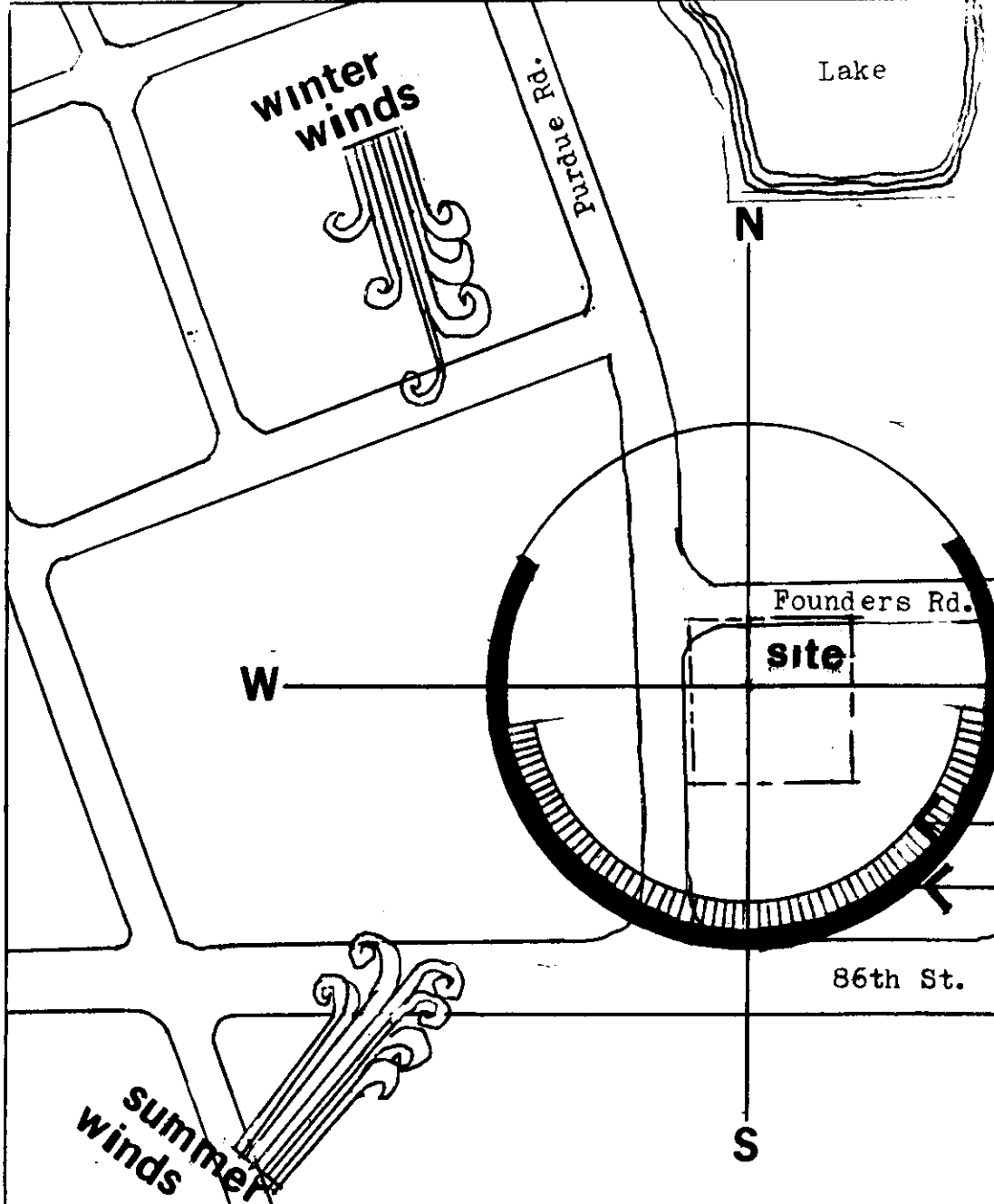


## Utilities

1. Underground telephone and electrical lines within the office neighborhood.
2. Sanitary as well as storm sewers serve office community.
3. Utility mainlines are located underground along 86th Street running east and west.
4. Various utility branches are as follows:
  - Electrical runs north on Purdue Road along south property line.
  - Gas--major branch runs along Purdue Road. Subsidiary branches are needed.
  - Water--main lines exist east of site property line
  - Telephone--access is easily available through an underground network.

g gas  
t telephone  
w water





**Average Temperature**

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1975	32.0	32.0	34.9	41.9	65.5	71.5	73.5	76.1	62.6	55.9	44.4	32.8	52.8
1976	23.9	34.8	44.6	53.4	58.8	71.3	73.9	71.3	65.6	49.7	34.7	24.4	50.4
1977	10.3	28.2	44.8	57.1	70.6	71.2	76.0	74.0	69.6	54.2	45.9	29.2	52.9
1978	18.2	17.8	34.7	55.2	65.5	74.0	77.2	75.0	70.4	52.7	45.7	34.4	51.7
RECORD MEAN	26.2	30.8	40.2	52.1	62.5	71.8	75.7	73.7	60.9	55.4	42.0	31.8	52.6
MAX	35.9	38.8	49.0	61.6	72.5	81.6	85.6	83.6	77.2	65.4	50.2	39.0	61.7
MIN	20.4	22.7	31.4	42.3	52.5	61.9	65.7	63.7	56.6	45.3	33.8	24.6	43.4

**Heating Degree Days**

INDIANAPOLIS, I

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1975-76	8	0	127	268	551	992	1265	724	564	363	203	1	512
1976-77	0	2	79	508	994	1249	1879	1025	547	276	48	19	436
1977-78	0	0	30	326	578	1104	1443	1313	873	292	150	4	611
1978-79	0	0	30	377	571	944							

**Cooling Degree Days**

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1975	0	0	0	1	100	222	291	359	71	14	0	0	1046
1976	0	0	0	21	15	198	284	205	43	4	0	0	776
1977	0	0	2	45	226	212	410	286	175	0	6	0	1363
1978	0	0	0	4	110	282	382	318	203	1	0	0	1300

**Snowfall**

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1975-76	0.0	0.0	0.0	0.0	4.5	8.1	5.8	0.6	2.3	0.0	0.0	0.0	21.1
1976-77	0.0	0.0	0.0	0.0	0.4	3.1	20.9	9.6	1.6	0.8	0.0	0.0	30.0
1977-78	0.0	0.0	0.0	0.0	2.6	15.2	30.6	3.9	5.4	0.0	0.0	0.0	57.9
1978-79	0.0	0.0	0.0	0.0	T	0.7							
RECORD MEAN	0.0	0.0	0.0	T	2.1	4.9	5.8	4.9	3.8	0.5	T	0.0	22.0

**Precipitation**

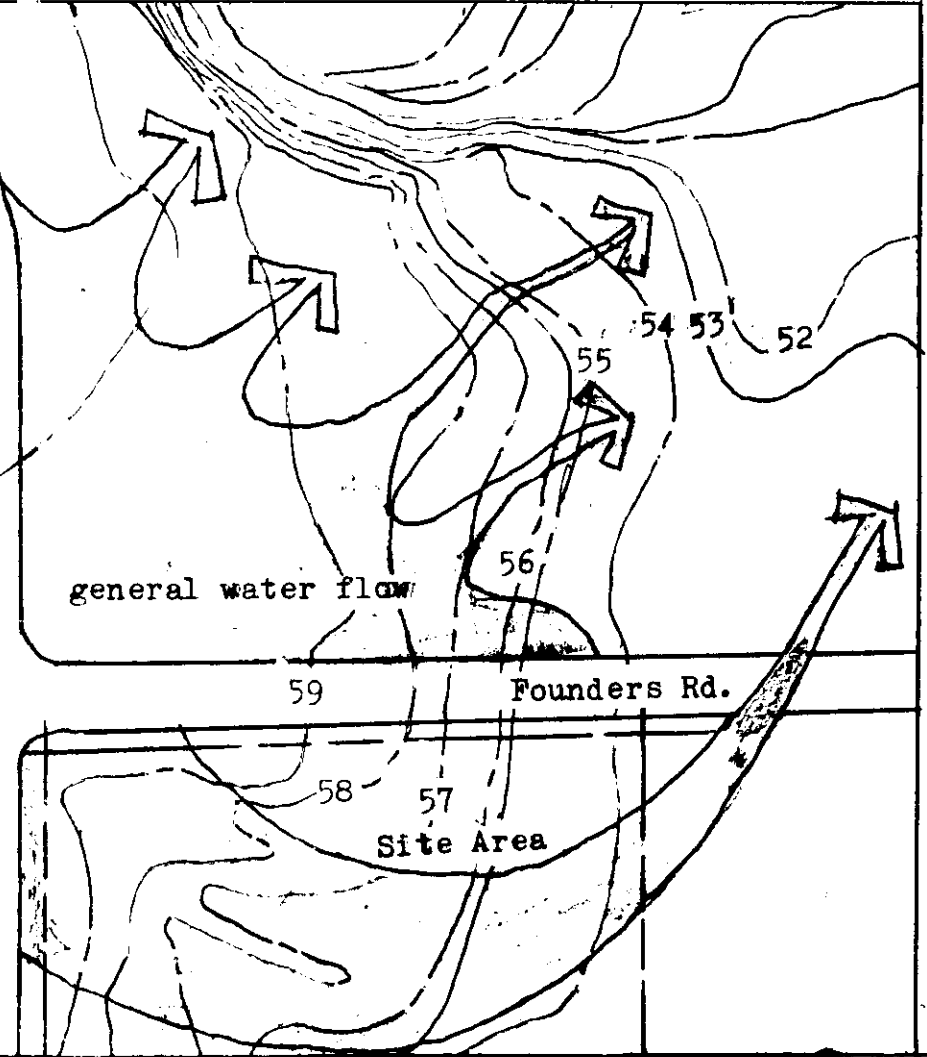
Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1975	2.29	2.96	3.46	0.98	3.10	3.97	3.09	7.95	2.02	2.79	0.82	0.45	33.82
1977	1.30	3.62	3.83	1.91	2.78	3.86	2.57	4.47	3.40	2.79	3.01	4.31	38.05
1978	3.80	0.36	3.54	3.59	4.21	4.43	5.04	6.89	0.85	3.82	2.38	4.03	42.94
RECORD MEAN	2.98	2.54	3.81	3.68	3.87	4.11	3.77	3.27	3.16	2.67	3.16	2.92	39.94

winter sun  
summer sun



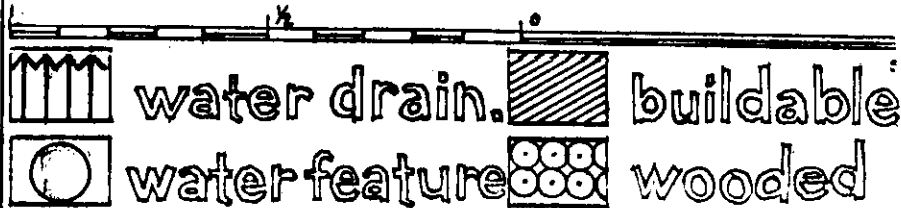
CONTOUR DETAIL

Purdue Rd.



Site Drainage  
 Water on the site runs from north-west towards the lake region, or down toward the creek then into White river. Much of the protective ground cover is available. Soil remains in tact around the site border.

TOPOGRAPHY

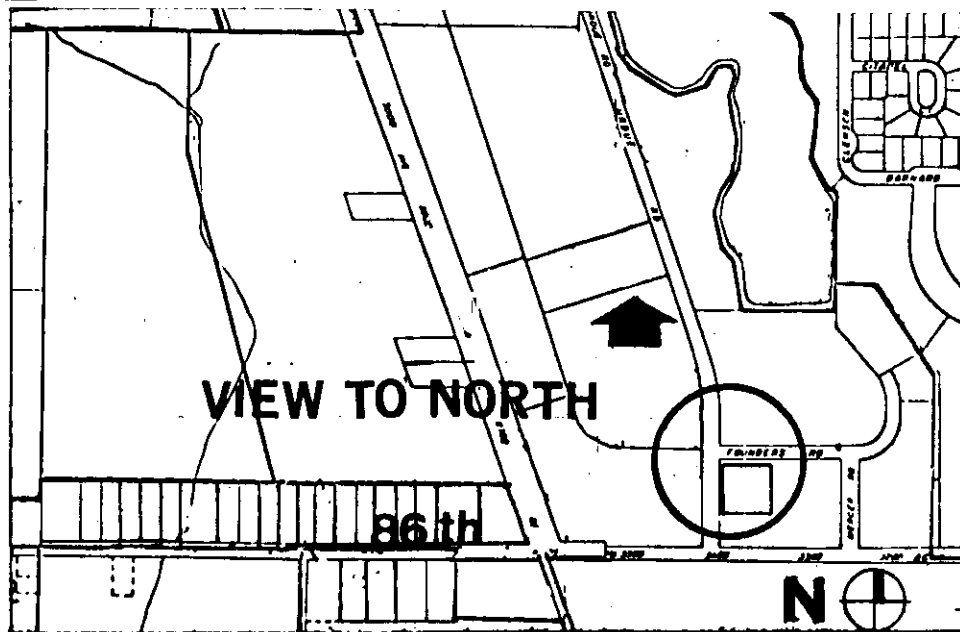


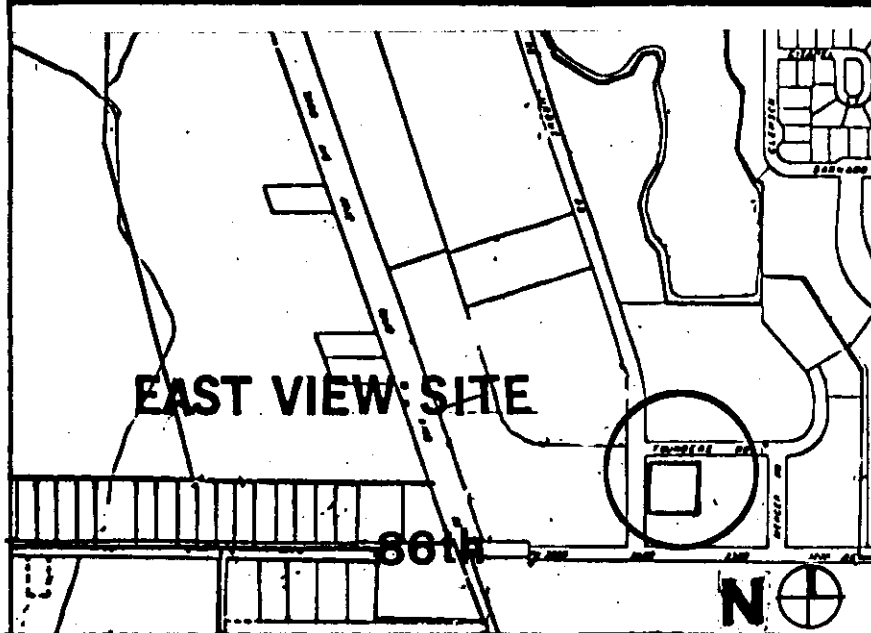
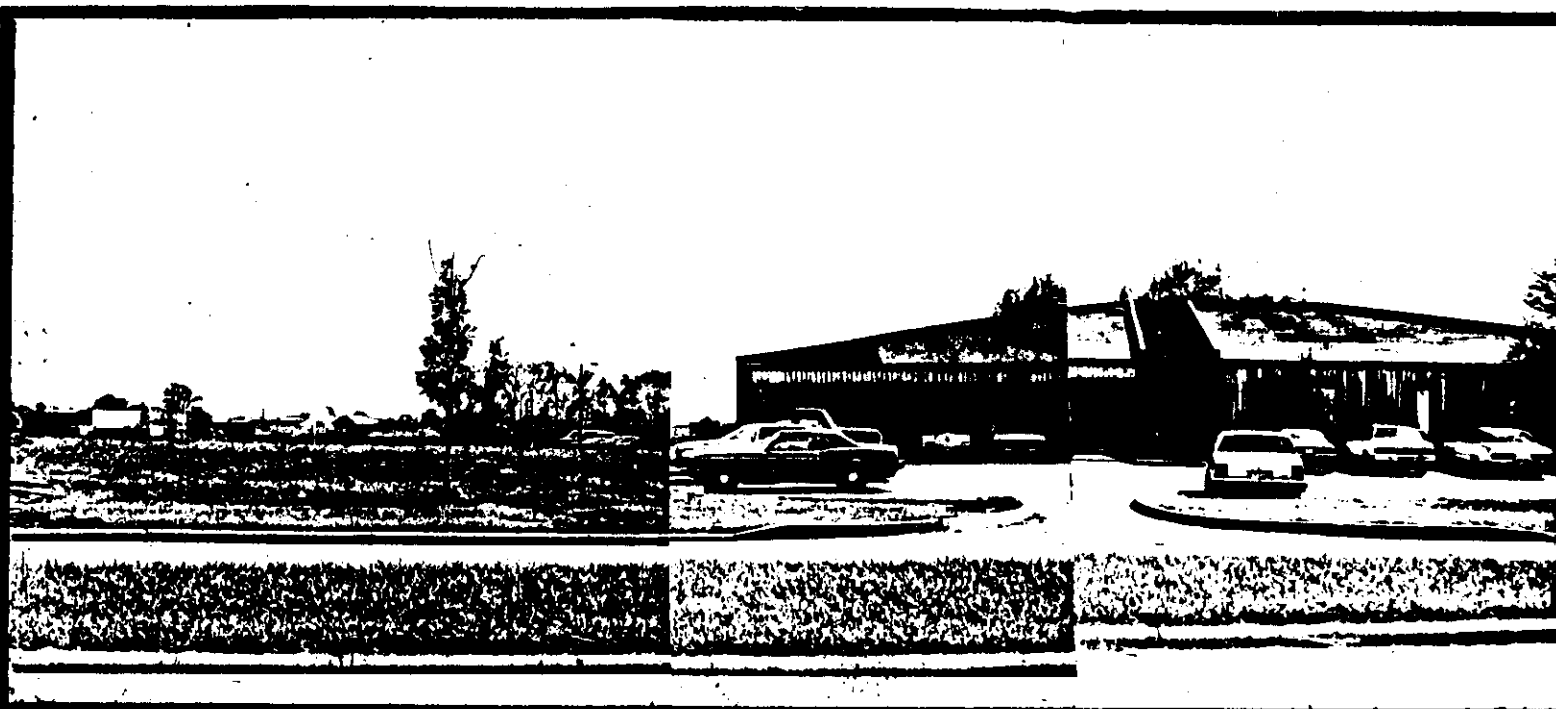


#### North Site View

One of the strongest images within the general site area to the north is the College Park Pyramids.

The newly proposed site location for Sigma Theta Tau's national headquarters building will offer an excellent view of the three pyramidal offices. This particular view illustrates the visual quality looking north from the site.

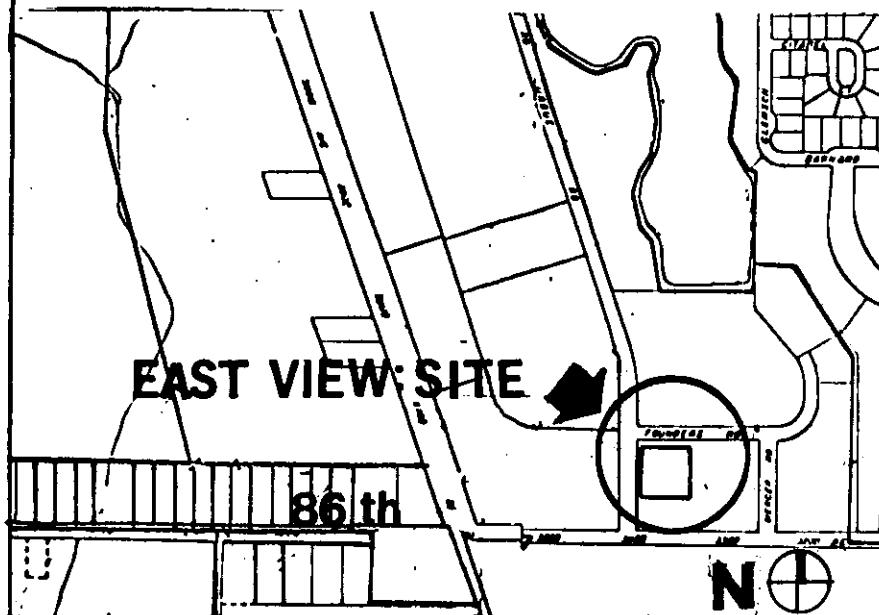
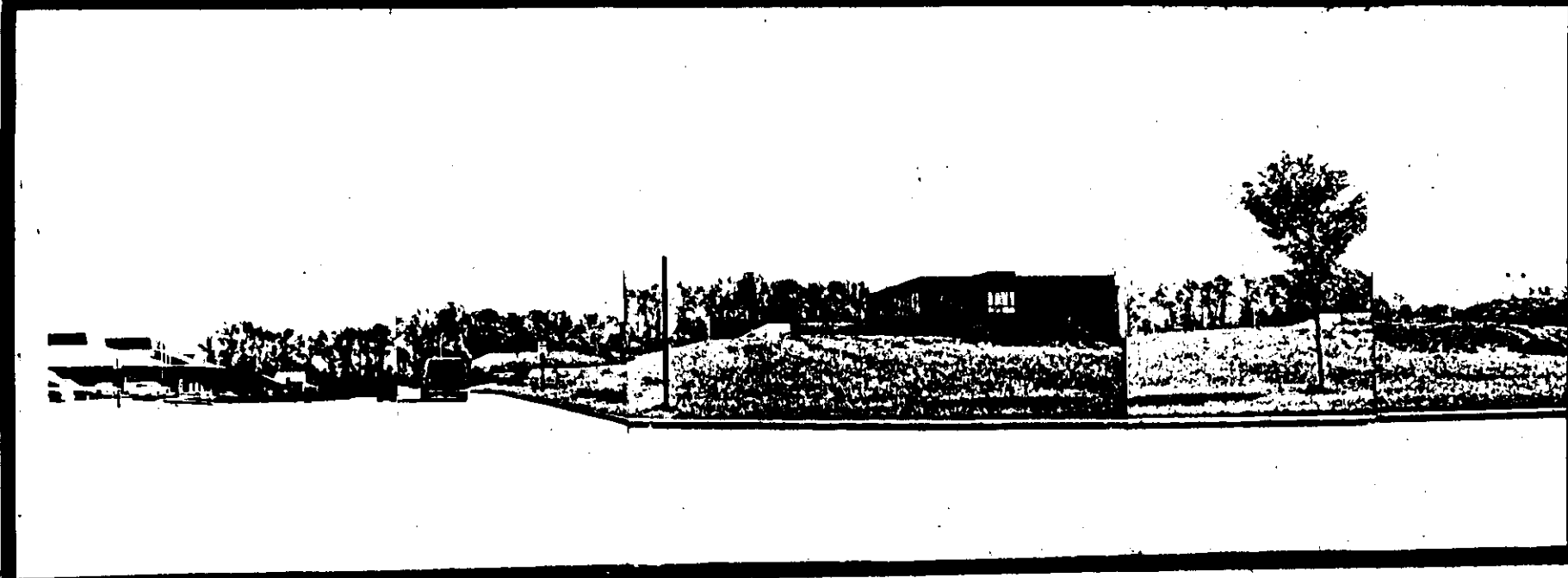




### Northeast Site View

The northeast view of the site reveals large open fields and neighboring residential areas. Views of the office environments are not fully emphasized since the parking is permitted in the front of the buildings instead of the rear.

One of the nice features which may be noticed is the introduction of grass medians which help to break up the large paving areas of the street. On another level, the buildings almost tend to loose their functional signi-



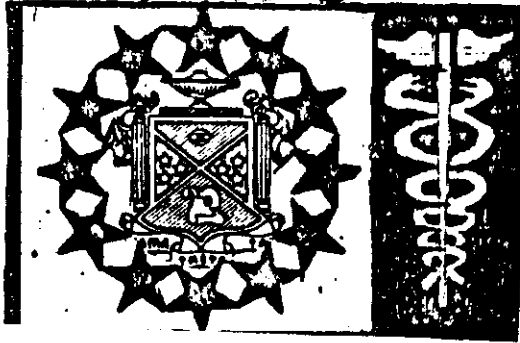
### East Site View

The view of the proposed site in a east direction reveals a clean, neat and orderly office environment from first impressions. Office buildings seem to relate in their various building materials to the natural context in which built.

There are no hard edges within the particular region since buildings are either set back away from the street or try to relate to human scale by the way the roof planes are formed.

The primary interest in respect to Founders Road seems to be the activity of seeing people walk to neighboring convenience food and retail centers, the movement of service vehicles on their daily runs.

**BUILDING TYPE ANALYSIS 9**  
**national honor society of nursing**  
**office building**

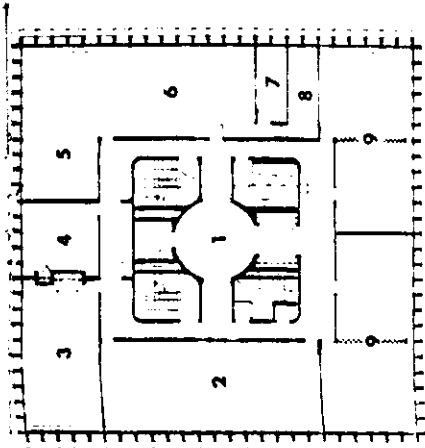


Building Prototypical Design-1:

Manitoba Headquarters Building, Teachers Society,  
Winnipeg, Canada.

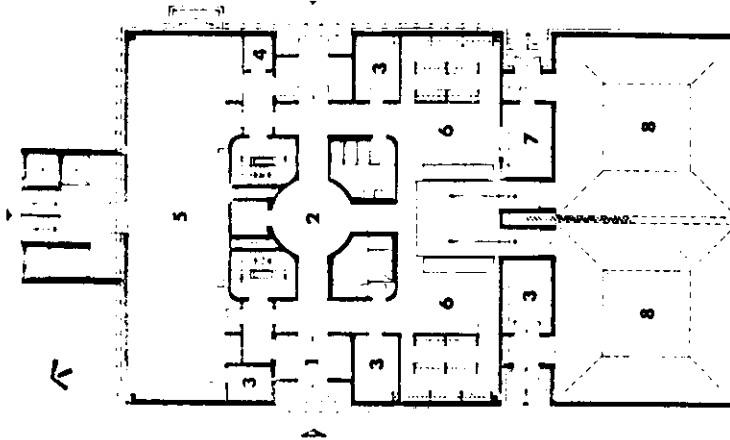
Architects: Libling, Michner & Associates

Size: 38,400 sq. ft. Parking @ 36 vehicles.



Second Floor Plan

1 main entry 2 foyer 3 storage 4 janitor  
5 printing room 6 coats 7 auditorium.



Ground Floor Plan

1 foyer 2 board room  
3 general staff room  
4 executive staff  
5 periodicals 6 library  
7 workroom 8 audio room  
9 committee room.

I. Building Archetype: Co-Variant

- A. Open ended form system; potential for additive/subtractive building units.
- B. No identifiable relationship between form of building to the form of its spaces.
- C. Design process implications.
  1. Design of separate spacial structural units- (as building blocks), with separate functional organizations.
  2. Informal, flexible organization of spaces.
  3. Column-free structural approach allows for spacialness and opportunities for creative partitioning approaches.

## II. General Functional Organization

### A. Reception & Informational Space

1. Serves as **centroidal axis** for the purpose of orientation at the foyer area.

2. Circular functional plan infers a **congregatory space function**.

### B. Business Communication Aides Space

1. Printing functions separated from other primary functions by a separate block of building space- noise reduction considerations

2. Easily accessible to the service entry; maintains a private **secondary circulation corridor** for its personnel.

### C. Formal/Informal Public Meeting Space

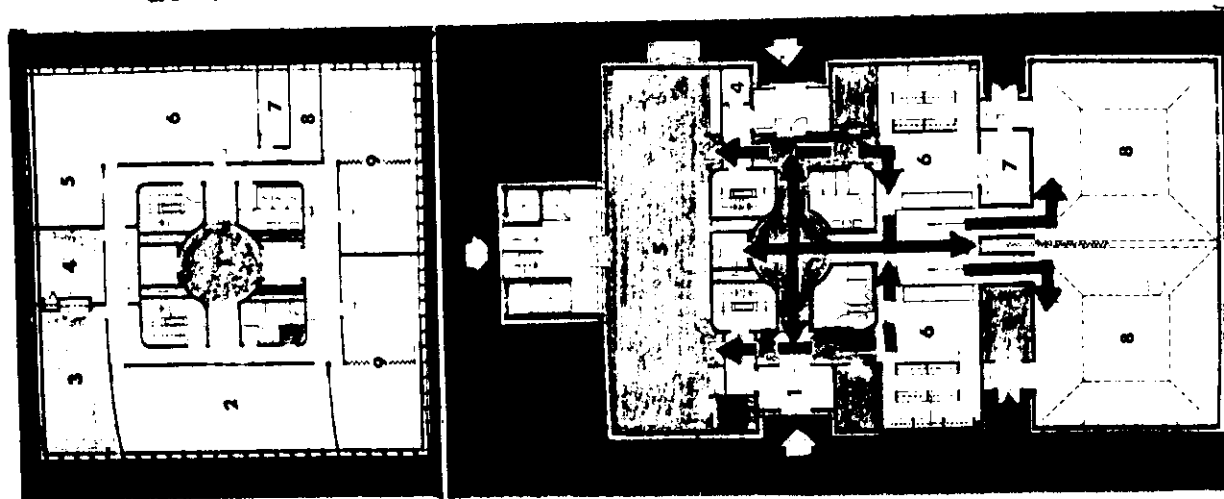
1. Well defined entrances and exits for efficient flow of people.

2. Considerations for relief, service and storage facilities adjacent to major meeting space.

### D. Executive Business Office Space.

1. Passive second floor space effectively separated from active ground floor functions.

2. Primary business office functions oriented for convenient access and minimum traffic congestion closest to stairs.



Manitoba Headquarters Building Functional Plan & Circulation

■ reception/informational

□ executive business offices

▭ public meeting space

← primary circulation

▨ business communication aides

← secondary circulation

### III. Circulation Concept

#### A. Building Occupants

1. Centroidal oriented concept; asymmetrical primary circulation axis, in relation to building plan.
2. Secondary circulation corridors designed as a double loaded system for efficient flow of large masses of people, minimum congestion.

#### B. Auto

1. Depressed parking concept minimizing visual clutter of the site and emphasizing building importance.
2. Pedestrian safety an important goal.

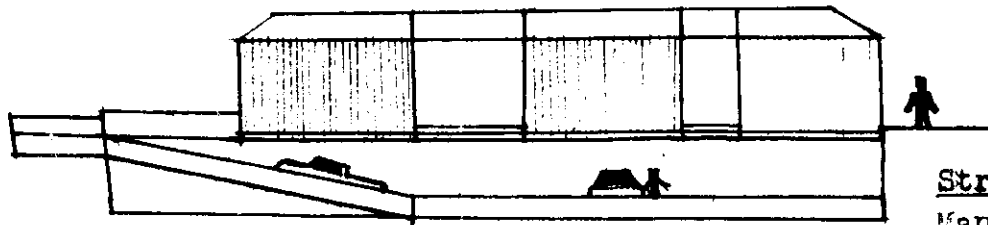
### IV. Structure

#### A. Component Utilization

1. Square grid ordering system allowing for considerations for column free open space, through concrete construction.
2. Modularity in exterior building form; simplistic approach.
3. Textured concrete exterior - metal seam and batton roof.

#### B. Structure Appropriateness

1. Maintenance free considerations.
2. Energy cost efficient due to the absence of windows on the ground floor, and low profile.
3. Maintains a residential scale appropriate to suburban residential setting.



Structure Concept  
Manitoba Headquarters  
Building, Canada

### V. Environmental Systems Concerns

#### A. Internal Response Capabilities

1. Multi-zone h.v.a.c. system appropriate to a diversity of functional space requirements. Example: Public auditorium or an executive office space.

B. External response Capabilities

1. Geared to energy efficient design-particularly good resistance to cold environmental winds and air infiltration.
2. Sheltered,protected entrances and exits from the weather.

VI. Site and Context

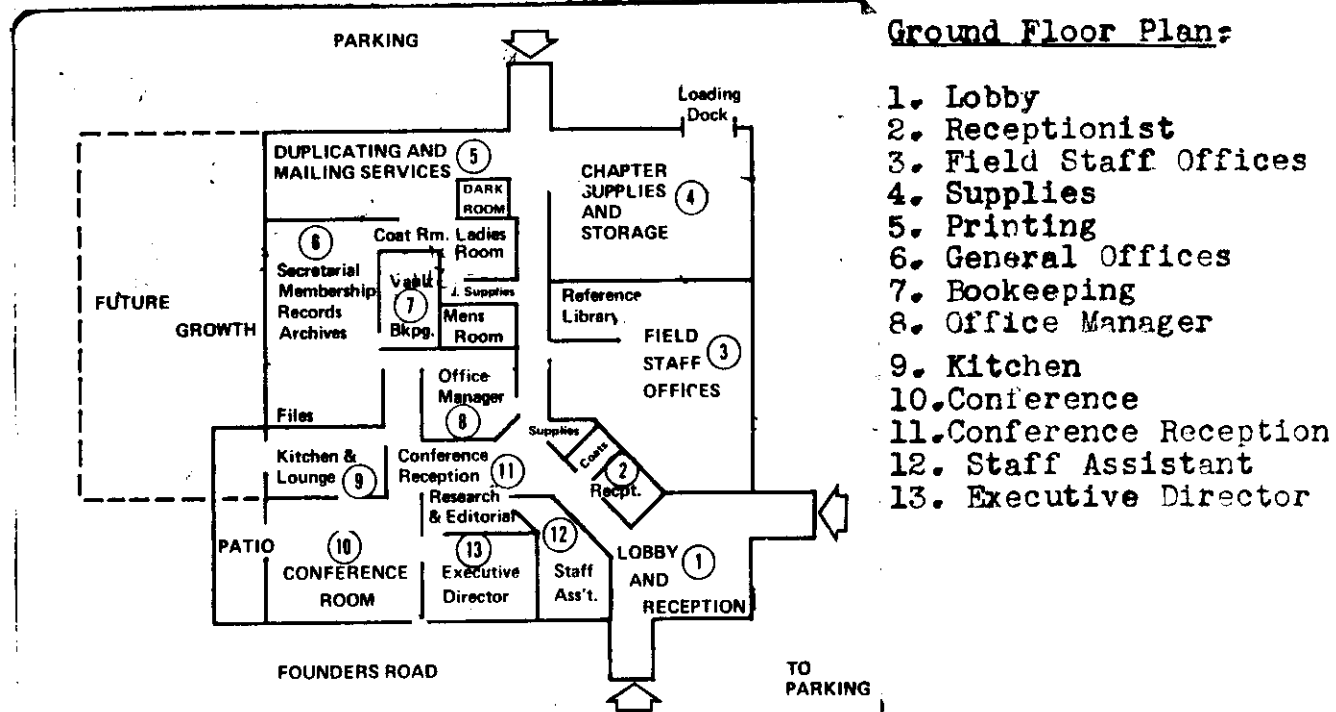
A. Building Relationships

1. Adoptable to most non-sloping sites, with a conservative profile.Maintains a low residential scale in a suburban site.
2. Preservation of site green space considered through the use of depressed parking concept.

B. Building Context

1. A seperate entity related to adjacent low rise office buildings through use of a concrete skin and concern for human scale.
2. Pavillion cluster type arrangement infers a community of buildings; appearance representative of a community of people.

Building Prototypical Design-2:  
 Delta Upsilon Fraternity  
 International Headquarters  
 Indianapolis, Indiana  
 Architects: James Associates  
 Size: 60,000 sq. ft. Parking @ 42 vehicles



I. Building Architype: Unitary

- A. Building type has the characteristic where by the form unit of structure is the same as the form unit of space.
- B. Building type has specific features where by volumes of the structure additively form a larger; more complex structure.
- C. Design Process Implications:
  1. A non-flexible organization of spaces. Organization of plan layout of building in terms of geometry is similar to the building exterior geometry.
  2. Unified organizational concept around a central court yard space is the traditional pattern.

## 11. General Functional Organization

### A. Conference and Supportative Services Space

1. Provides space for visiting members attending conference functions.

2. Considerations for informational library, kitchen, and reception area adjacent to major meeting spaces for the purpose of supportative services.

### B. Business Communications Services Space

1. Easily accessible to the service entry; maintains a non-congested flow of personnel. Printing supplies easily obtainable with minimum time wasted.

2. Located at rear of building as a primary space by which major equipment may be periodically transported for servicing conveniently.

### C. Executive Office Functions

1. Active secretarial pool space is effectively separated from quiet zones in the building such as conference and office manager space through thoughtful partitioning. Noise problems considered.

2. Primary business office functions oriented for quick, convenient access from employe entrance and minimum congestion of traffic.

### D. Major Office Storage and Supplies Space

1. Office supplies units are strategically placed through out building, serving the specific types of supply needs of specific specialized functions conveniently.

2. Considerations for fast, efficient means of receiving goods and mailing has been considered in making the major office storage and supply space very functional.

## III. Circulation Concept

### A. Building occupants

1. Considerations for public, private and service entry into the building. Attempt to monitor and segregate traffic for purposes of security, convenience and efficiency.

2. Lobby and reception may have intentions of pooling people in an aesthetic collective space since its space is the most visually stimulating in the over all building.

3. Circulation concept is the linear-node organizational.

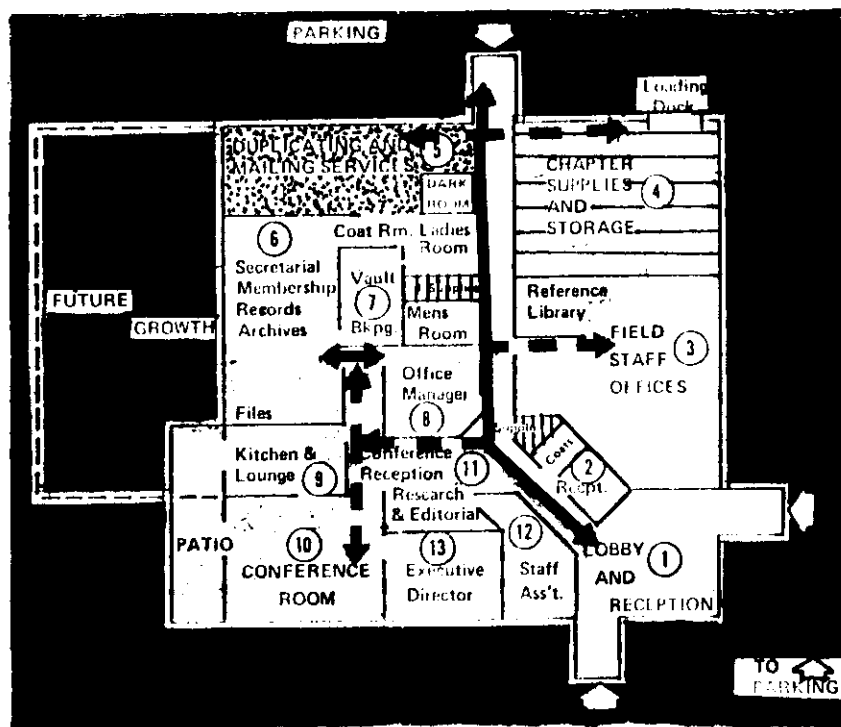
B. Auto Access

1. Vehicular access to the rear of building; emphasis on building exhibition verses visual clutter of autos in front of building.
2. Drop off entry area which the building provides is a desirable feature in adverse weather conditions.
3. Convenient loading dock accessible to deliveries is desirable for business efficiency.

Building Prototype Analysis (con.)

National Headquarters Office Environments

Delta Upsilon Fraternity International Headquarters



General Functional Organization & Circulation Concept

Delta Upsilon Fraternity Headquarters

- Conference & Supportive Spaces
- Business Communication Services Space
- Executive Office Related Functions
- Major office Supplies & Storage Space
- Minor Supply Units
- Primary Circulation
- Secondary Circulation

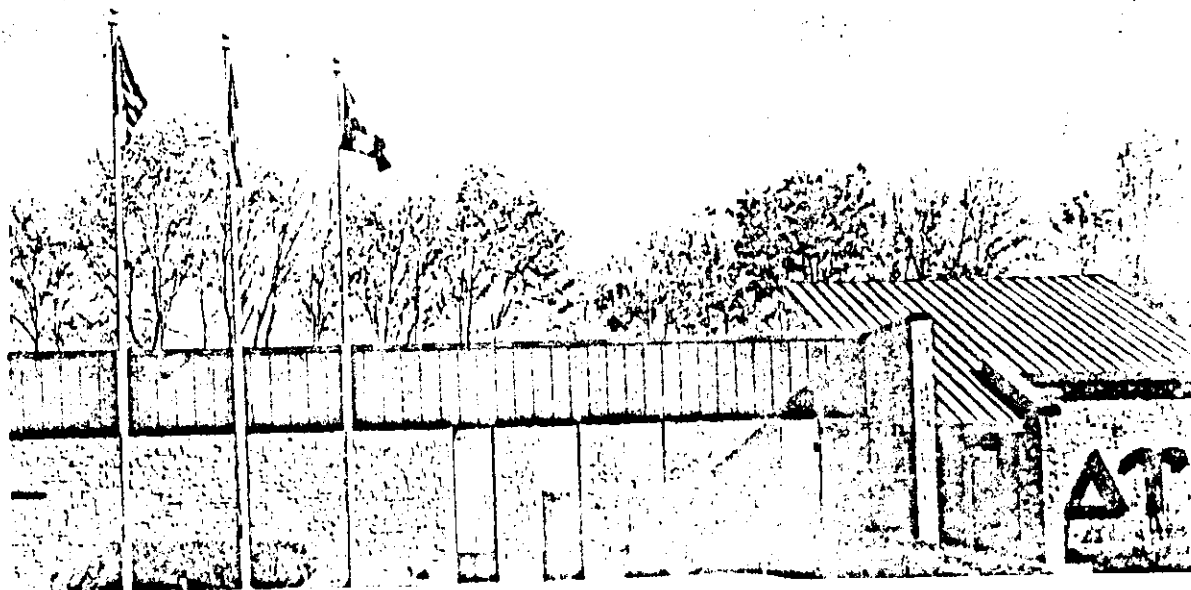
#### IV.. Structure

##### A. Component Utilization

1. Steel joist on bearing wall construction except for the cathedral space at the lobby and reception area.
2. A conglomerate of building forms exemplifying the unitary archetype pattern of organization; complex approach.
3. Limestone and aluminum exterior.

##### B. Structure Appropriateness

1. Maintenance free considerations in utilization of the building materials; maintains a residential scale which is appropriate to the suburban residential setting.
2. Minimum number of windows to prevent heat loss; Energy efficient.
3. Continues the contemporary design theme dictated by the adjacent office environments as well as similar use of materials.
4. Multiple entrances are inappropriate when they do not in some manner, define the types of pedestrian traffic for specific building entrances.



Structure: Delta Upsilon Headquarters  
Building, Indianapolis, Indiana

## V. Environmental Systems Concerns (con.)

### A. Internal Response Capabilities

form relieves the reception and lobby areas of excessive temperatures through air convection properties.

### B. External Response Capabilities

1. Geared to energy efficient design with particularly good resistance to cold air infiltration due to exterior.
2. A system of entry vestibules at the front and back of the building structure eliminate potential heat loss due to external adverse weather conditions.

## VI. Site and Context

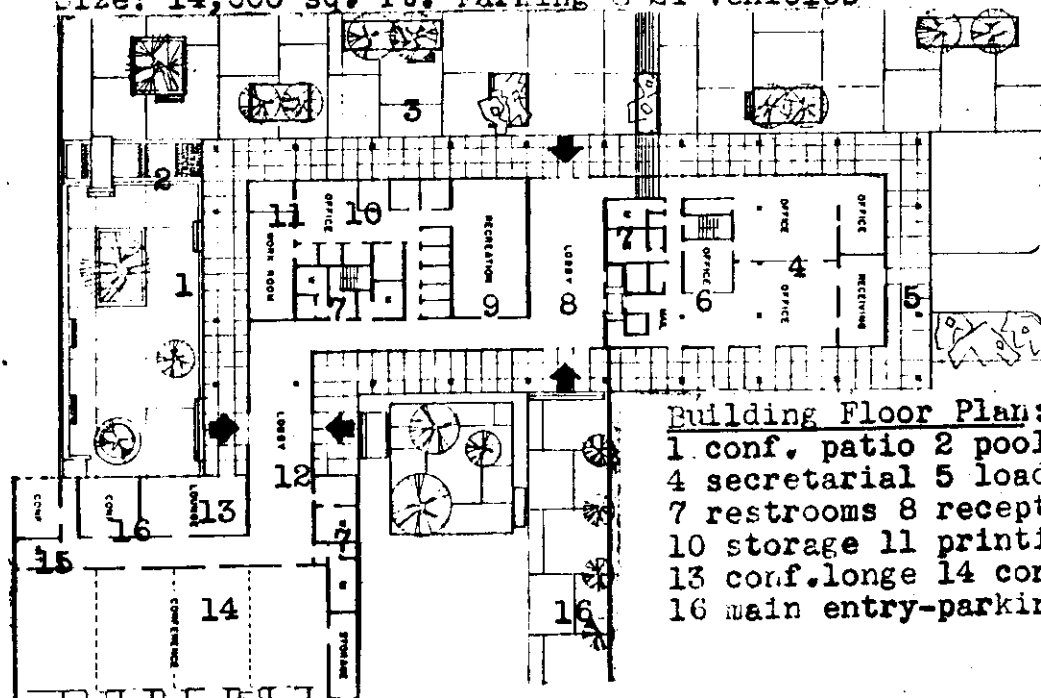
### A. Building Relationships-Site

1. Flood level considerations were an issue in the safe design of building with site. Potential hazards exist; therefore architect used a built-up site effectively.
2. Preservation of green space considered through the concept of utilizing site space at rear of building.

### B. Building Context

1. Use of natural limestone indicates a sensitivity of designer to the adjacent building fabric. Also, a concern for maintaining the natural character of an adjacent wooded area.
2. Building serves as a visual point of reference or landmark due to its strategic location at a road terminus.

Building Prototypical Design-3:  
 Headquarters Building For The  
 California Teachers Association  
 Architects: Welton Becket & Associates  
 Size: 14,000 sq. ft. Parking for 24 vehicles



Building Floor Plan:

- 1. conf. patio 2 pool 3 terrace
- 4 secretarial 5 loading 6 mail
- 7 restrooms 8 reception 9 recreation
- 10 storage 11 printing 12 lobby
- 13 conf. longe 14 conf. 15 kitchenette
- 16 main entry-parking

**I. Building Architype: Co-Variant**

**A. Physical Features Qualifying Building as Co-Variant**

1. Due to the Association Headquarters utilization of separate functional sets of organization within separate spacial, structural units, the plan is Co-Variant
2. Potentials for additive/subtractive building units.

**B. Functional Features Qualifying Building as Co-Variant**

1. Resolution of interior functional space within the basic building rectilinear block is complexly organized.
2. Most of the interior functional space may be increased at any time without complications.

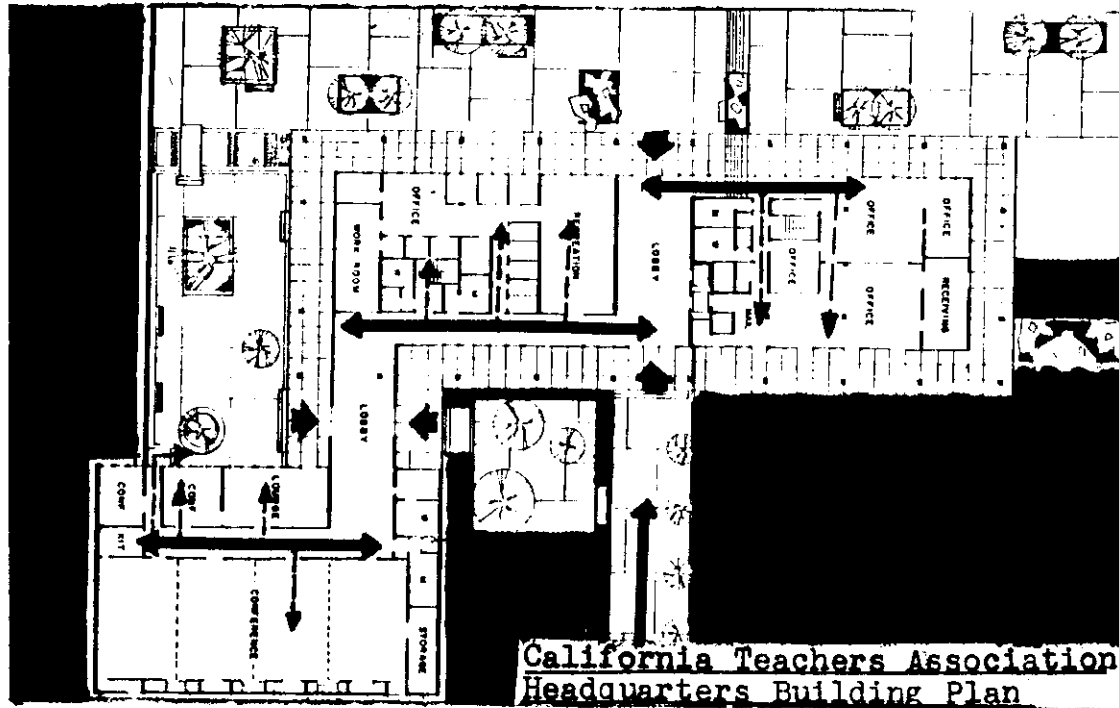
**C. Design Process Implications**

1. Advantages of this architype is the informal, flexible organization of spaces in the design process.

## II. General Functional Organization

### A. Lobby & Orientation Space

1. The lobby satisfies humanistic needs by providing a source of recreation, relaxation, and information.
2. Both lobby concepts employed function as passive space.



### B. Communications Media Processing & Storage

1. Printing functions are ideally segregated with storage facilities for convenient, efficient access.
2. Ideally isolated from other functions of the building to reduce noise problem potentials.

### C. Association Conference & Seminar Rooms

1. Considerations for storage, food service, and relief facilities adjacent to major meeting spaces.
2. Provides flexible alternatives for large or small group meetings through flexible partitioning within the conference area.

#### D. General Office Staff Wing

1. Active general office wing is effectively separated by relief facilities from passive lobby space.
2. Primary business office functions oriented for convenient access to building entrances and exits.

### III. Circulation Concept

#### A. Building Occupants

1. Lobby and reception area tend to be oriented from the adjacent parking areas in a convenient manner.
2. Building circulation concept if its occupants tends to be in the linear-node organizational pattern.

#### B. Auto Considerations

1. Convenient loading dock directly accessible to delivery and mailing functions for convenience.
2. Auto parking oriented away from site tending to reduce visual clutter of parked vehicles adjacent to building

### IV. Structure

#### A. Component Utilization

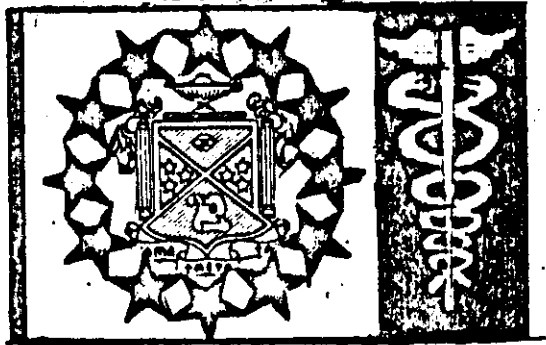
1. Utilization of a concrete two-way grid system allowing for considerations for column free space and alternative lighting arrangements.
2. Modularity in building concept is employed as an efficient, economic structural idea.

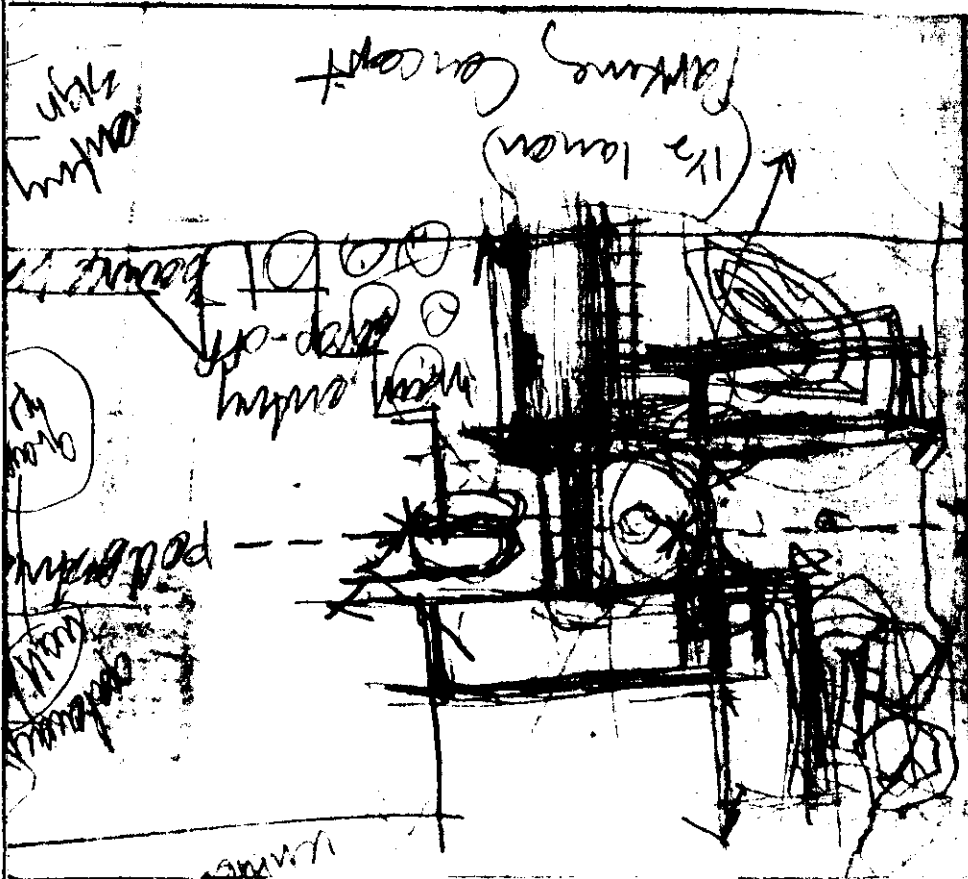
#### B. Structure Appropriateness

1. Minimum use of windows for a building of large scale, thereby energy efficient due to eliminating to some degree, cold air infiltration.
2. Considerations for maintenance free exterior and interior floor materials.
3. Maintains a low residential scale, expanding the structure outward on the site instead of upward.

CONCEPT SKETCHES  
national honor society of nursing  
office building

10

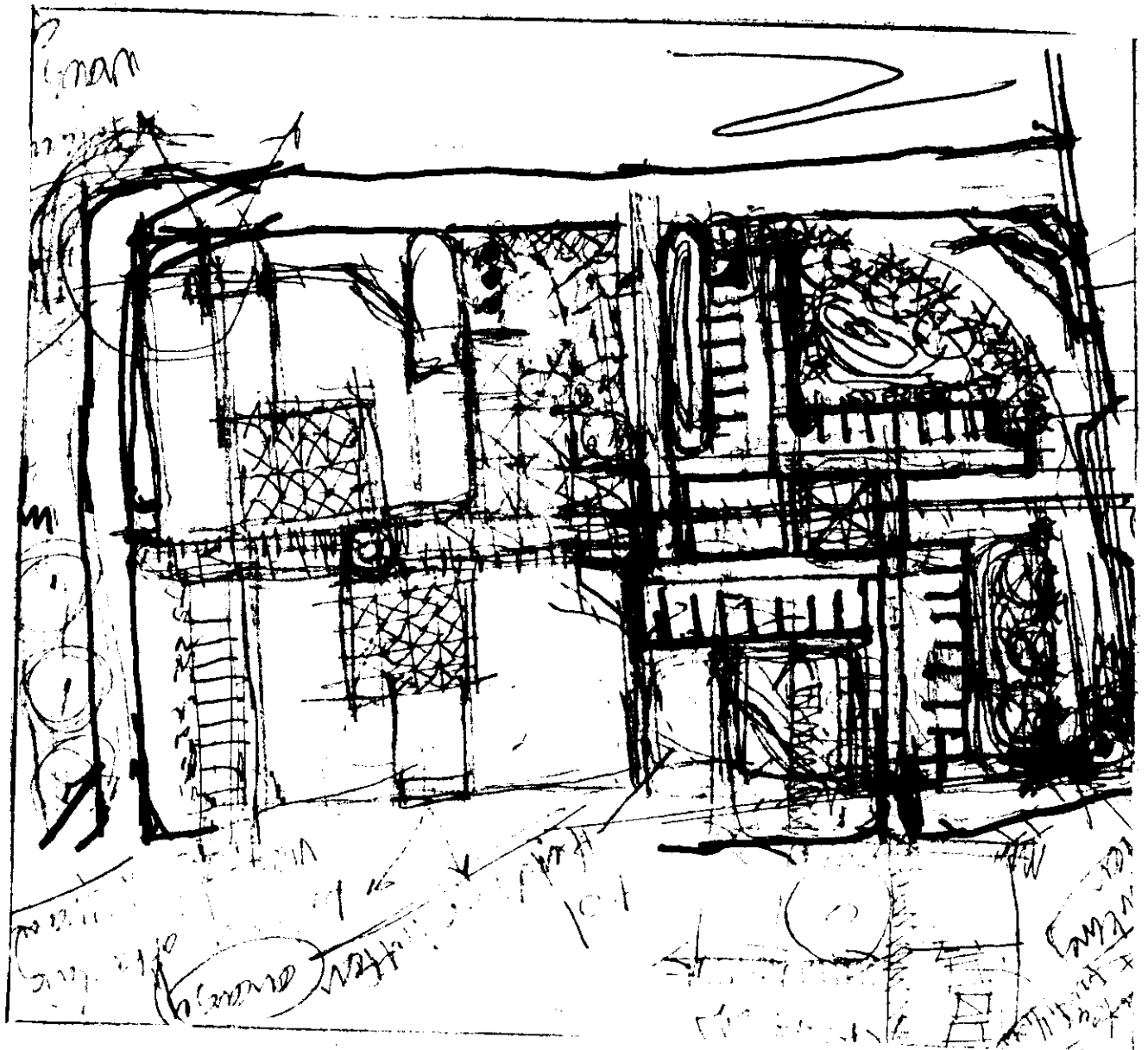




Site Plan and Parking Study

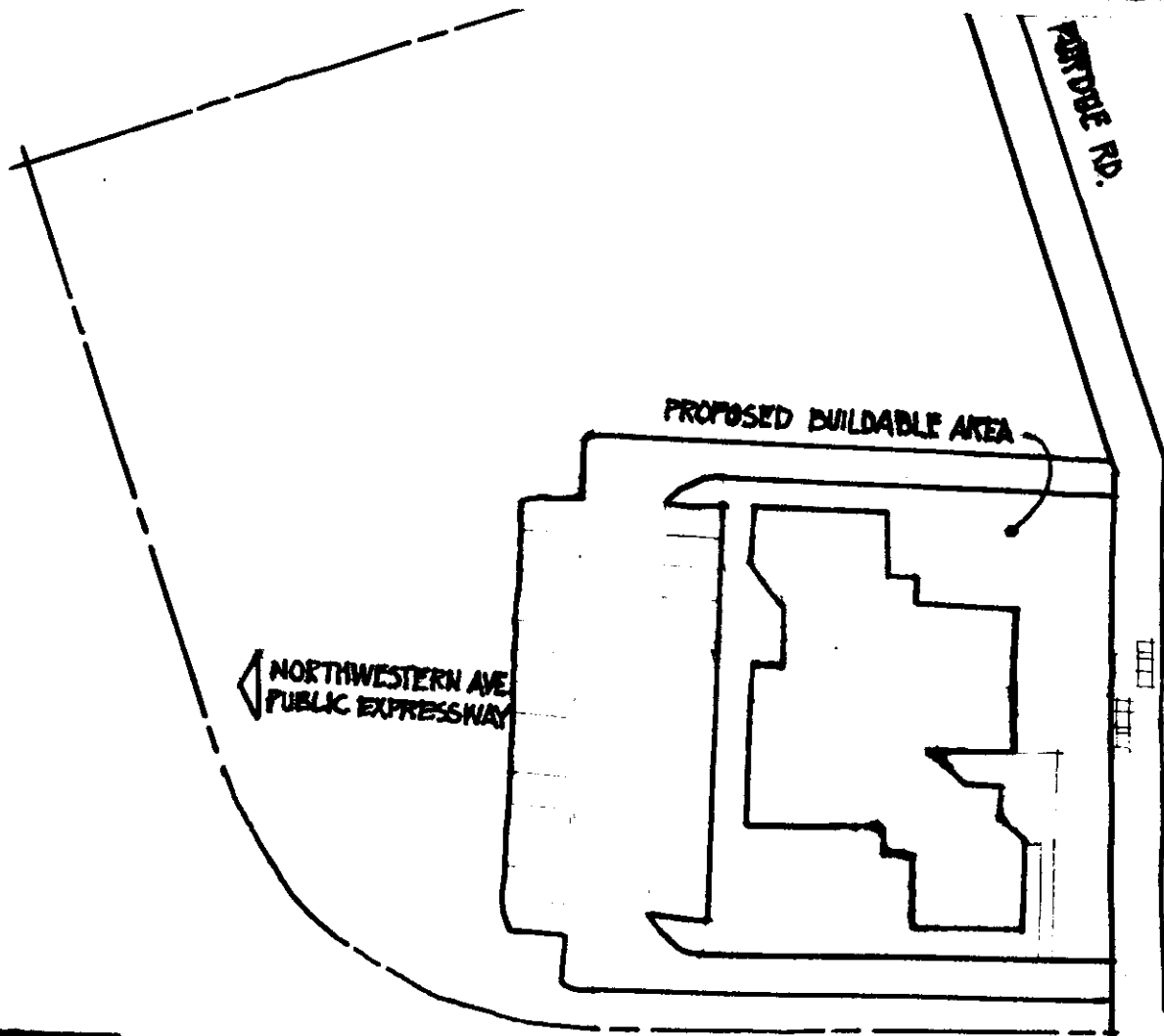


Site Plan Landscape Study



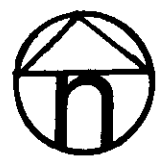
Auto Circulation, Landscape and Parking  
Intensive Study

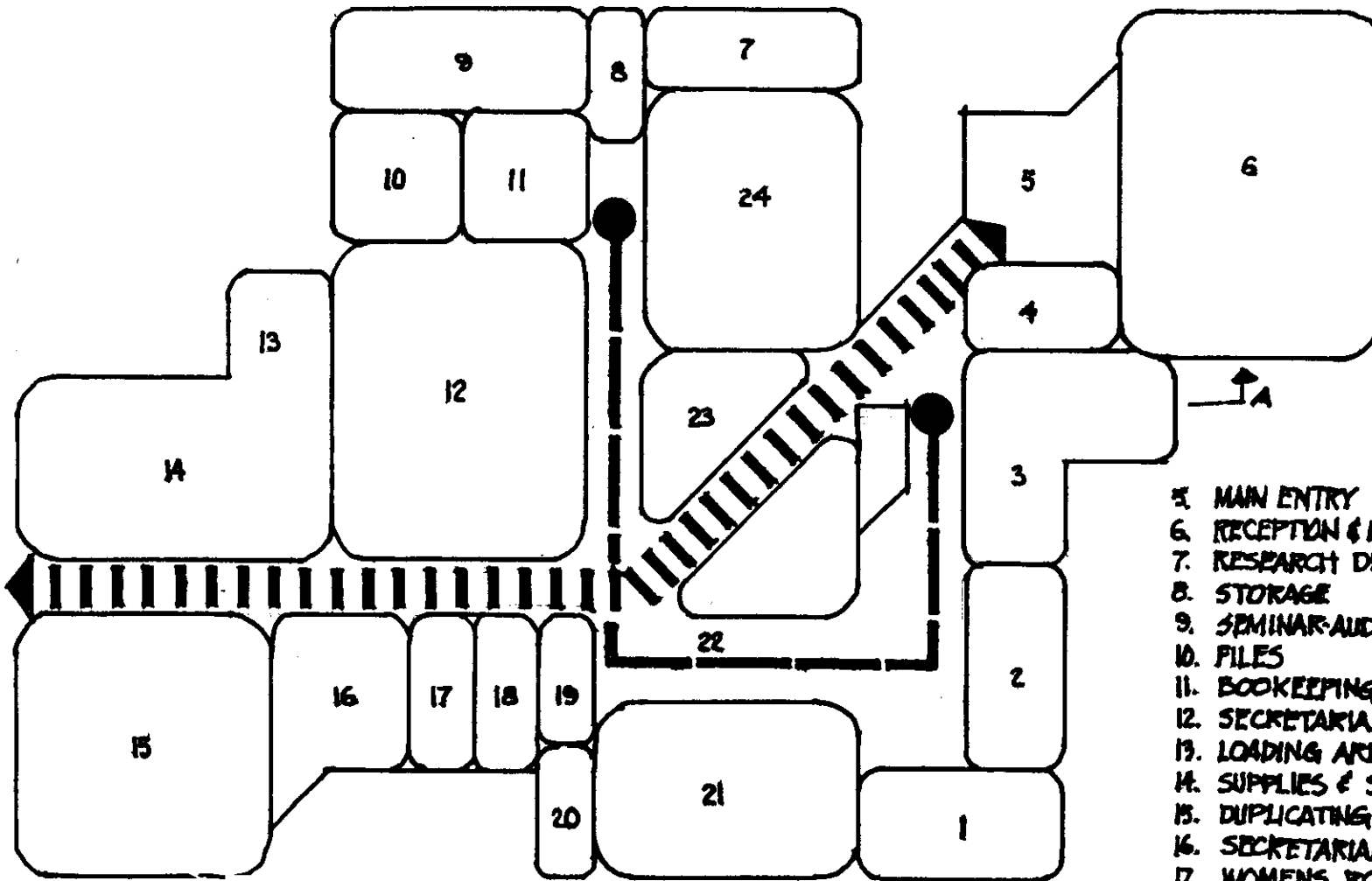






# schematic site plan

1:60  
BRYAN METZGER





- 5. MAIN ENTRY
- 6. RECEPTION & LOUNGE
- 7. RESEARCH DEPOSITORY
- 8. STORAGE
- 9. SEMINAR-AUDIO-VISUAL
- 10. FILES
- 11. BOOKKEEPING
- 12. SECRETARIAL OFFICE
- 13. LOADING AREA
- 14. SUPPLIES & STORAGE
- 15. DUPLICATING & PRINTING
- 16. SECRETARIAL ADM.
- 17. WOMENS ROOM
- 18. MENS ROOM
- 19. COIN CAFE
- 20. KITCHENETTE
- 21. CONFERENCE
- 22. RECEPTION
- 23. ATRIUM SPACE
- 24. FIELD STAFF OFFICE

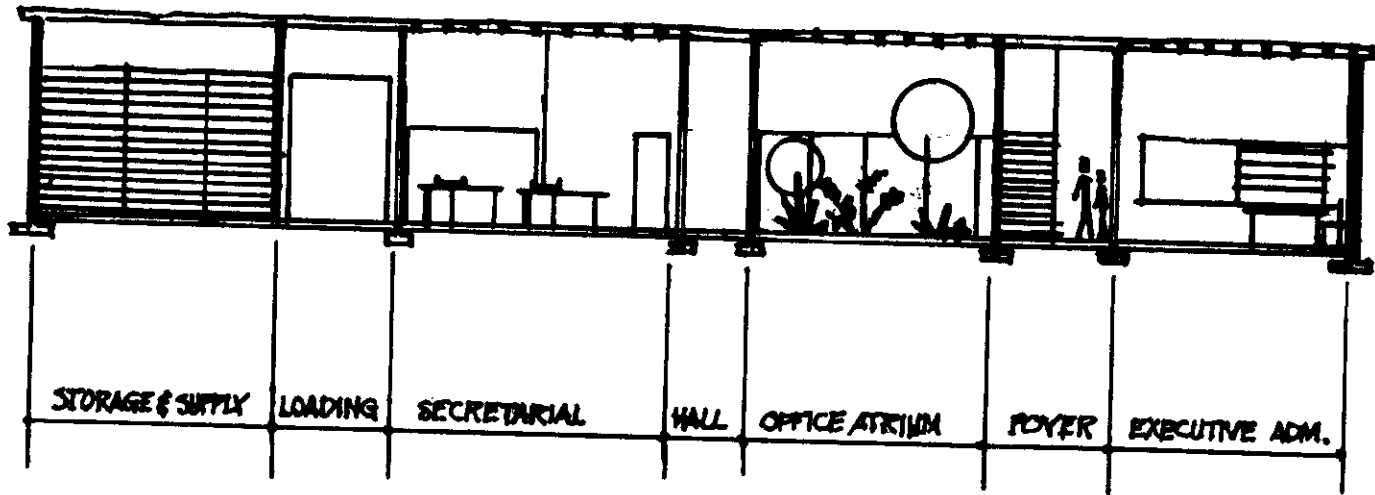
 PRIMARY CIRCULATION  
 SECONDARY CIRCULATION

- 1. MEETING
- 2. PUBLIC RELATIONS
- 3. EXECUTIVE DIRECTOR
- 4. ARCHIVES

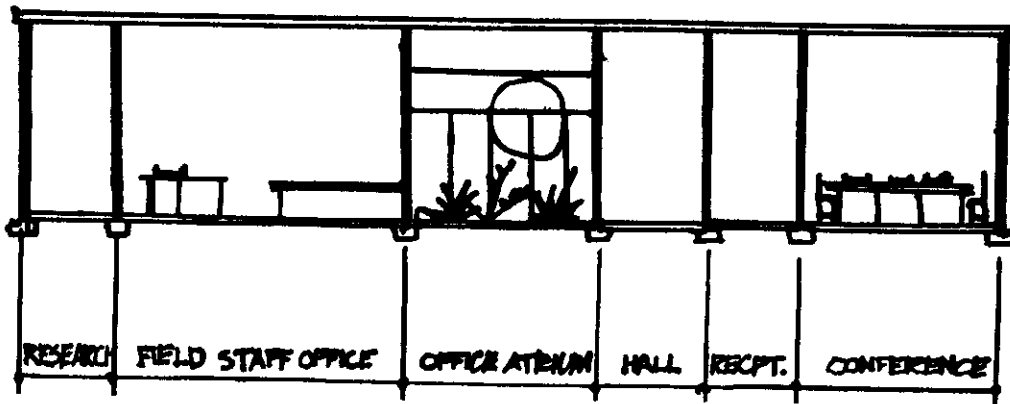
# schematic plan

1/16" = 1'-0"

BRIAN METZGER



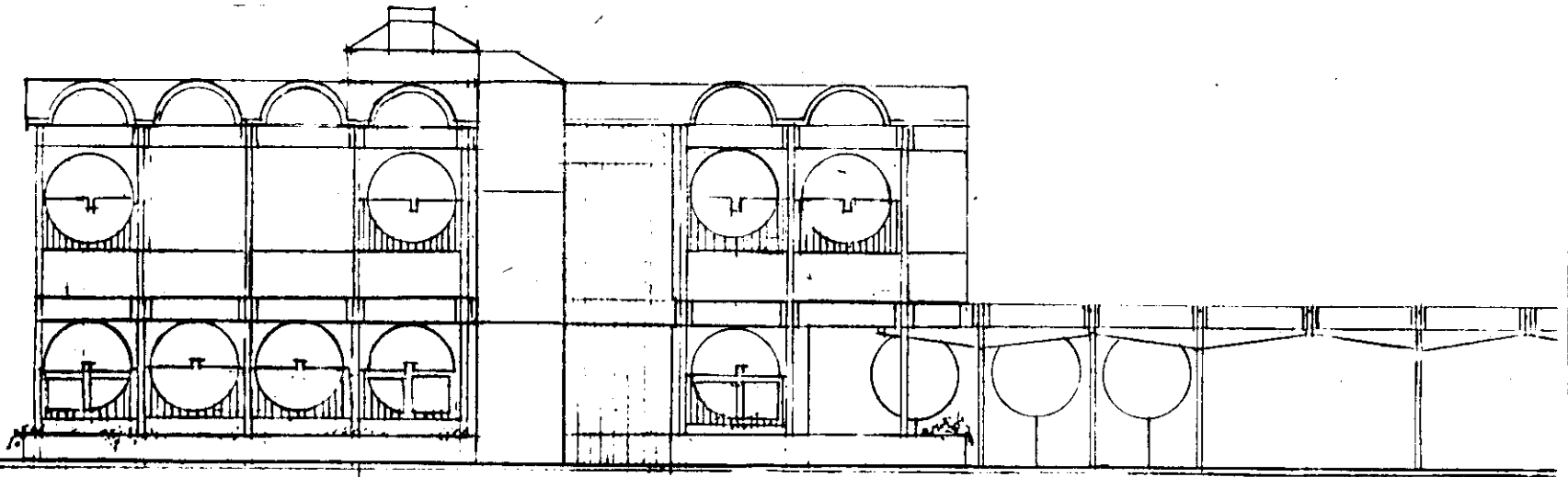
SECTION A-A



SECTION B-B

# building section schematic

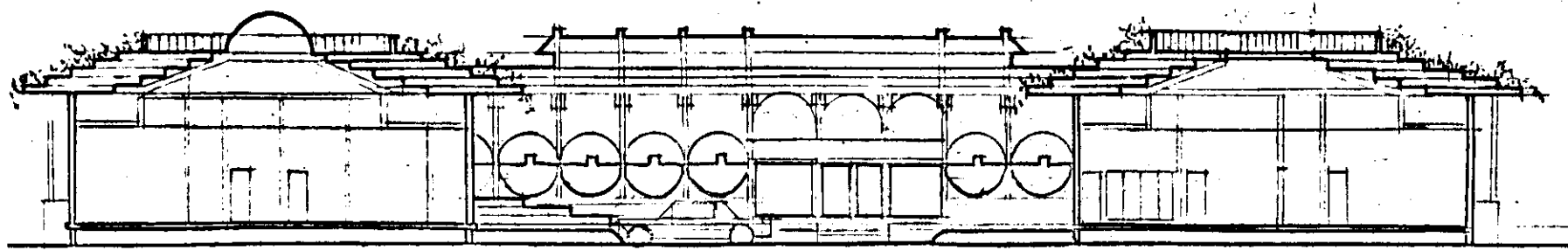
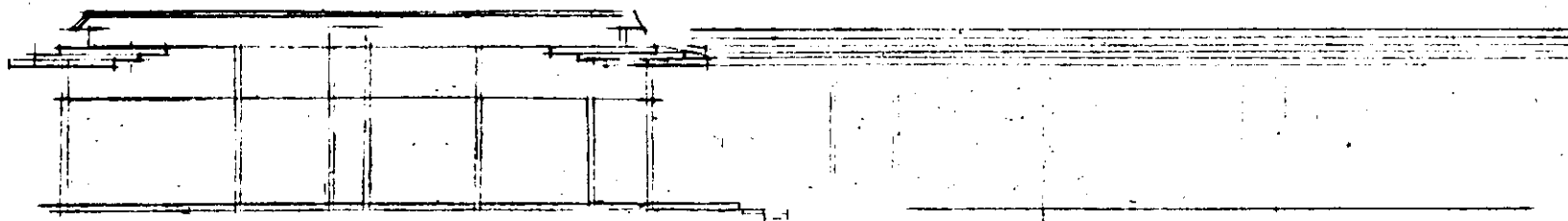
1/16" = 1'-0"

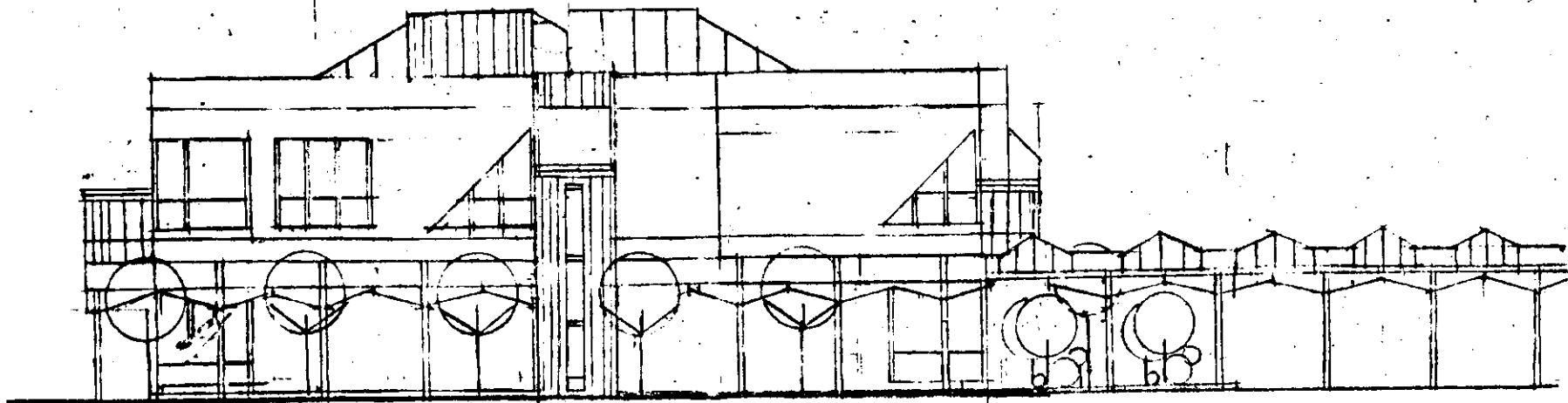
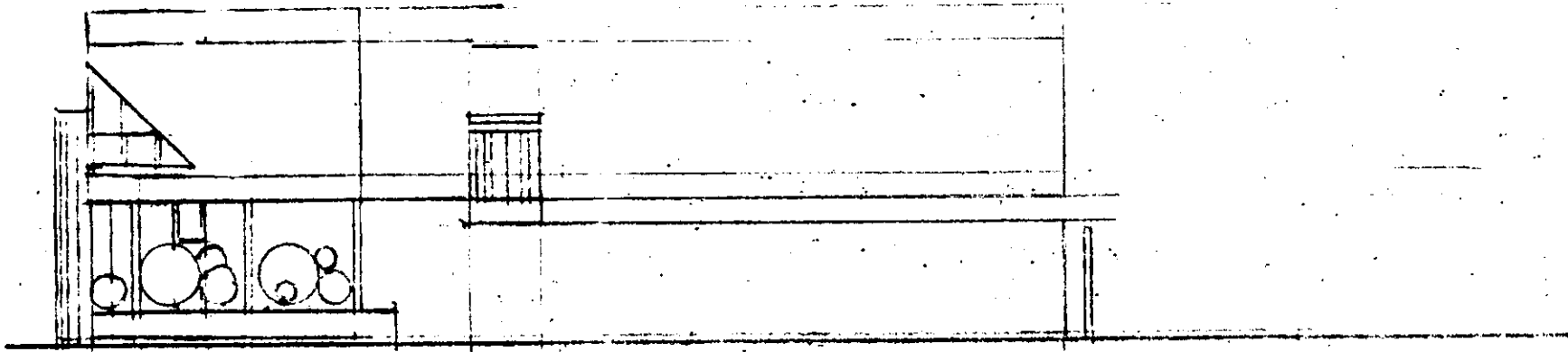


SOUTH ELEV



EAST ELEV

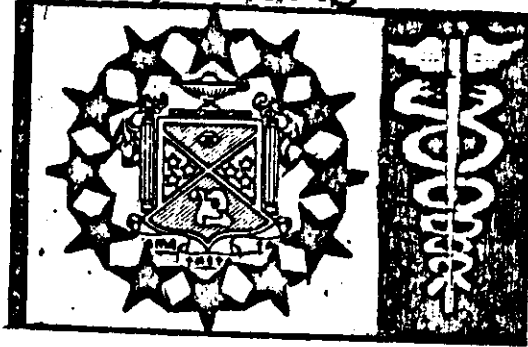




SOUTH ELEVATION

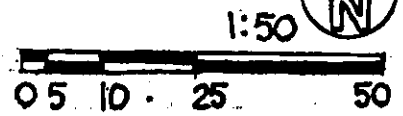
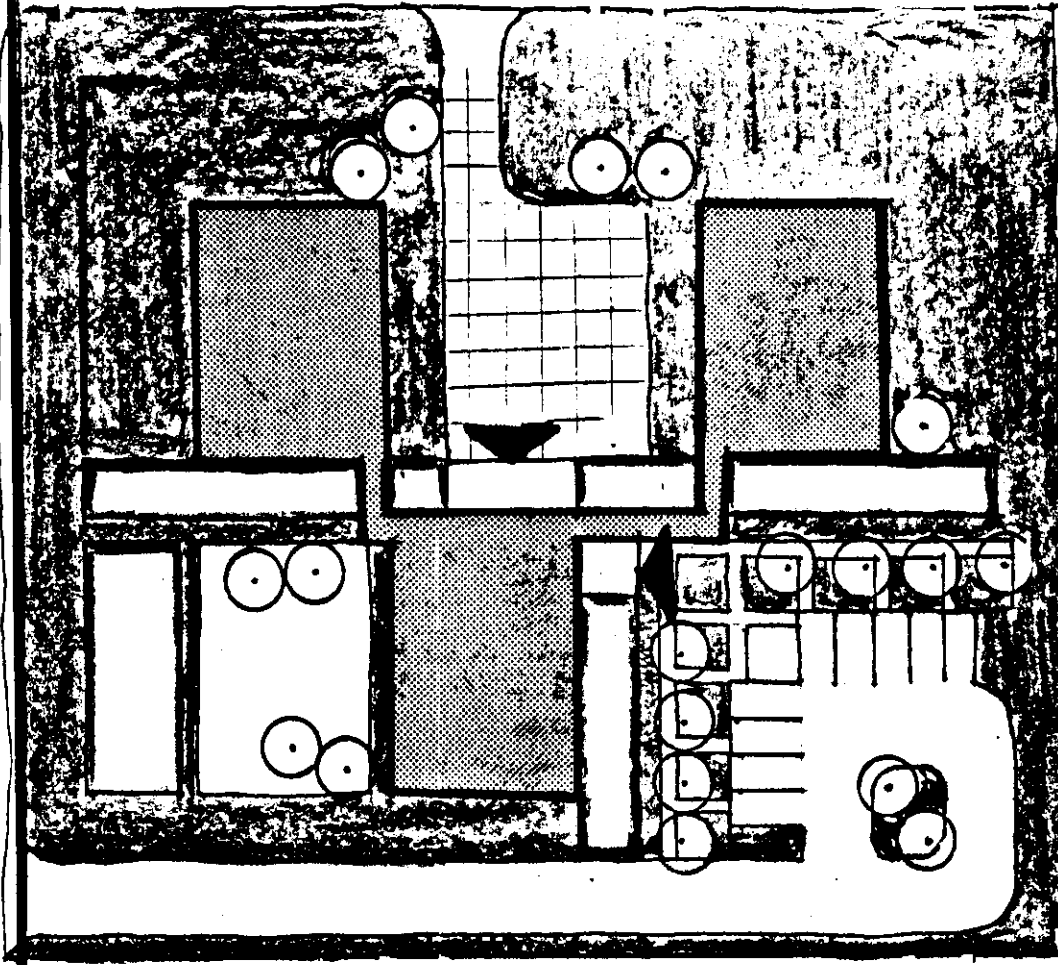
**SITE PLAN SCHEMATIC**  
**national honor society of nursing**  
**office building**

**11**



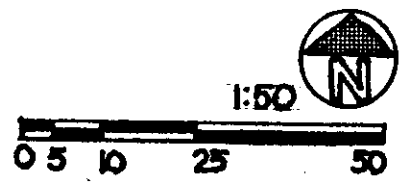
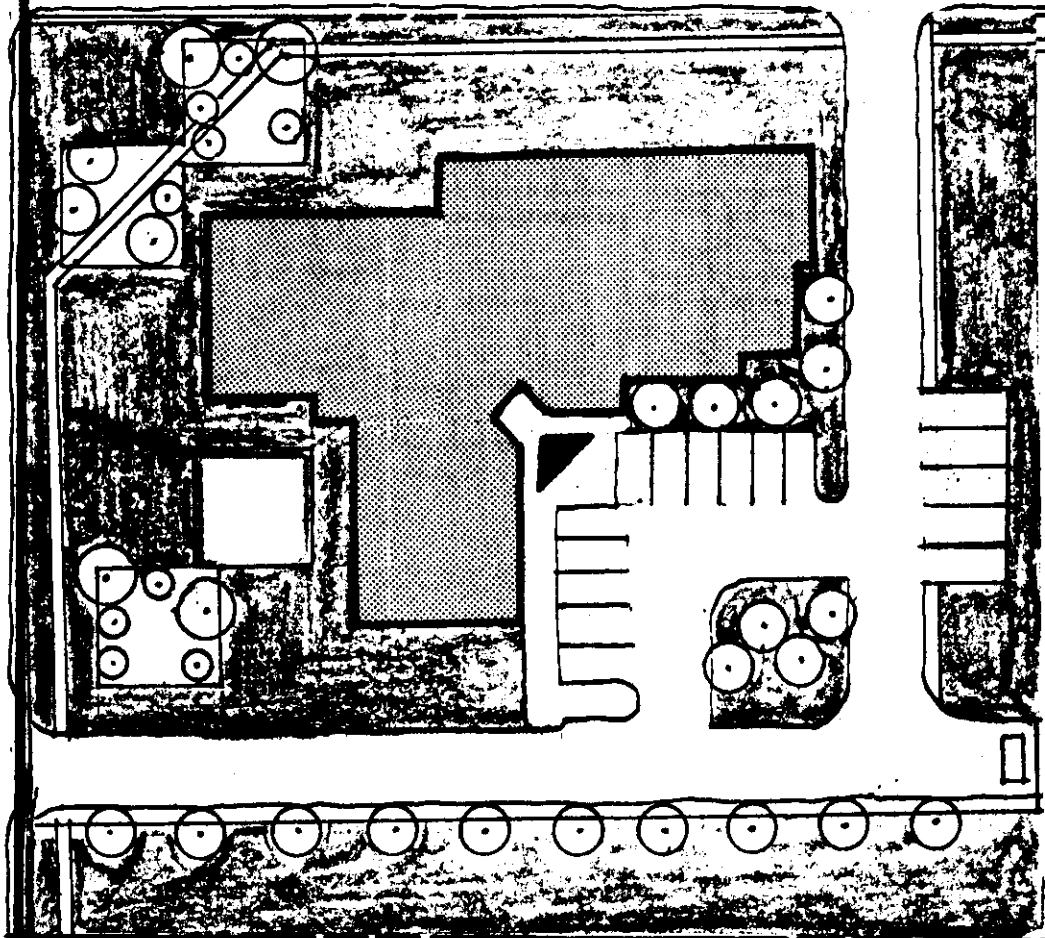
PURDUE RD.

FOUNDERS RD.



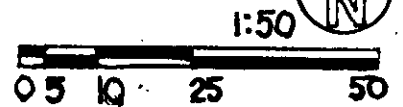
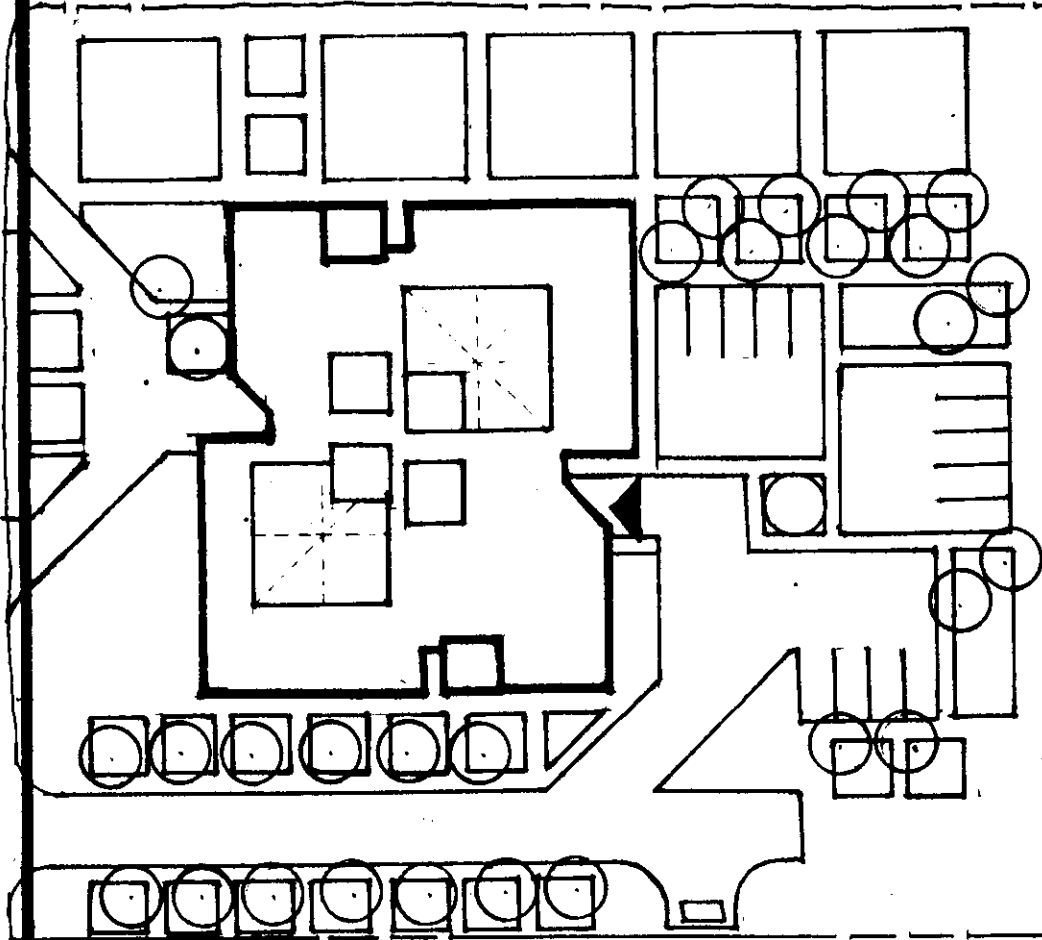
PURDUE RD.

FOUNDERS RD.



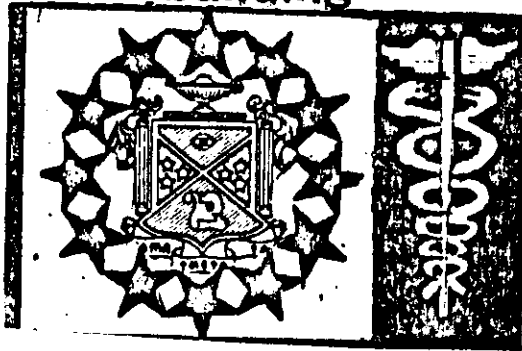
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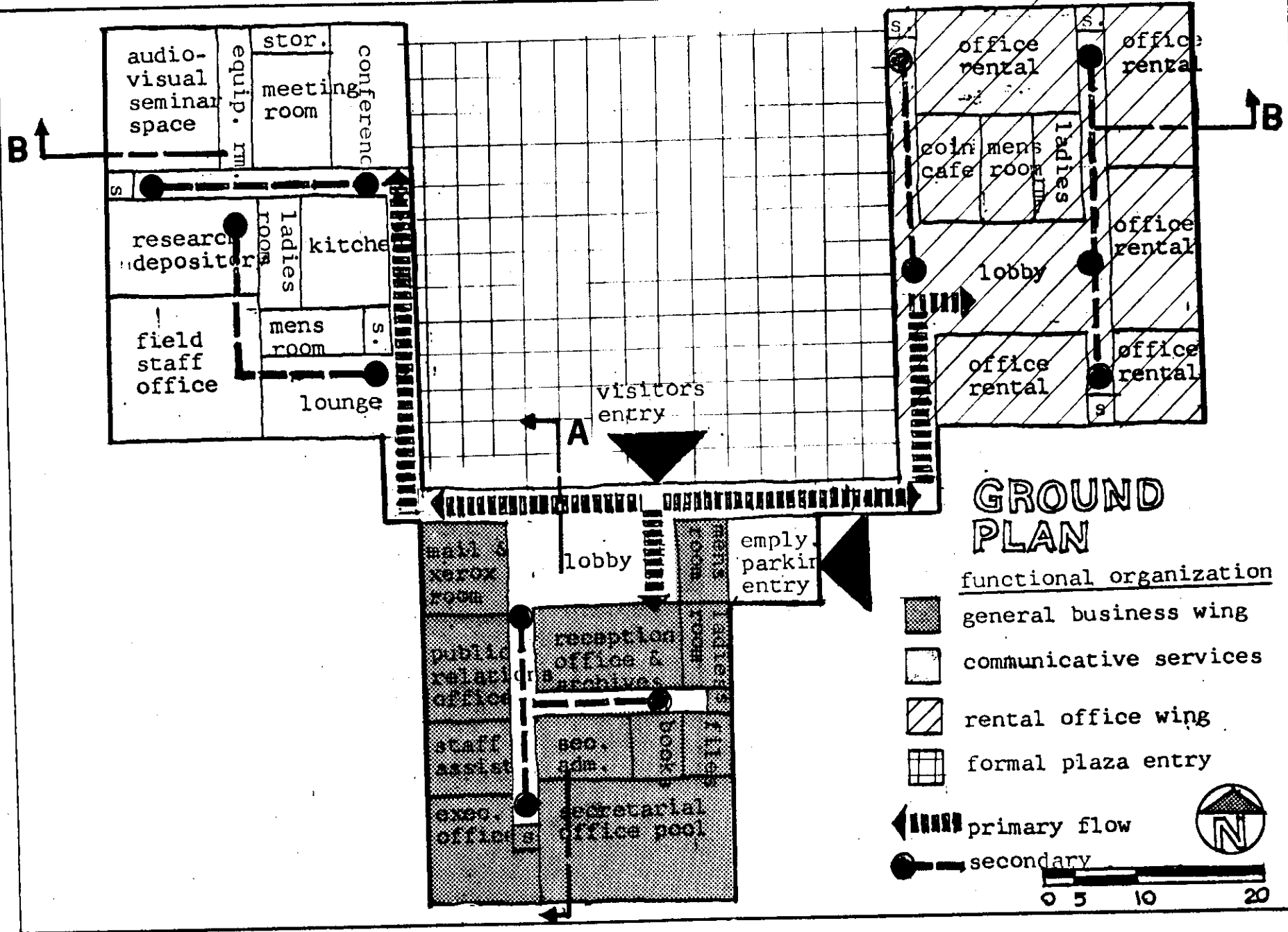
FOUNDERS RD.



PLAN SCHEMATIC  
national honor society of nursing  
office building





12






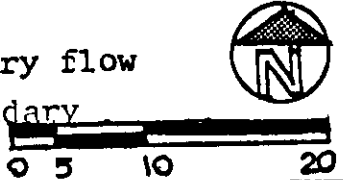
# GROUND PLAN

functional organization

-  general business wing
-  communicative services
-  rental office wing
-  formal plaza entry

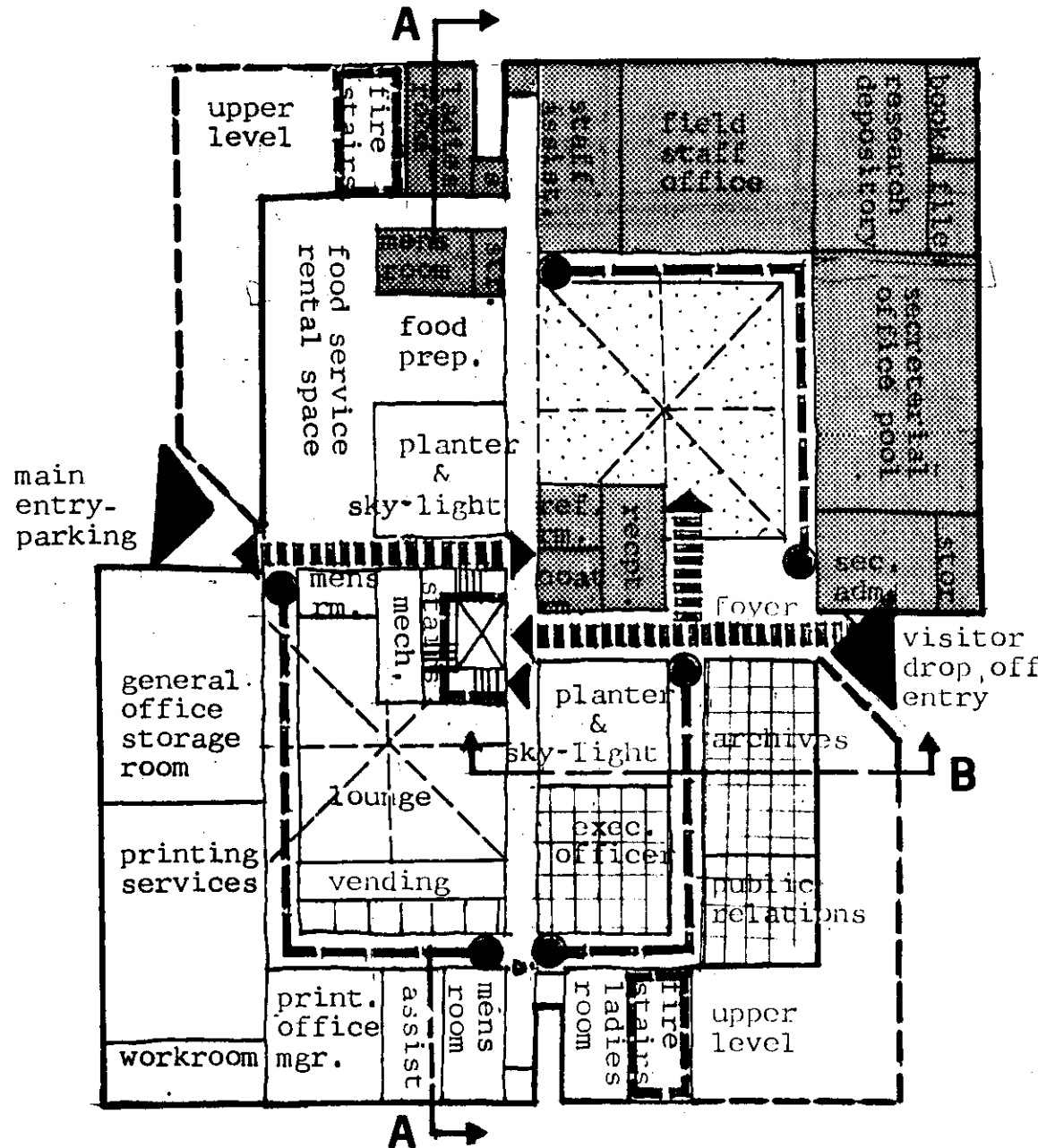
 primary flow







 secondary





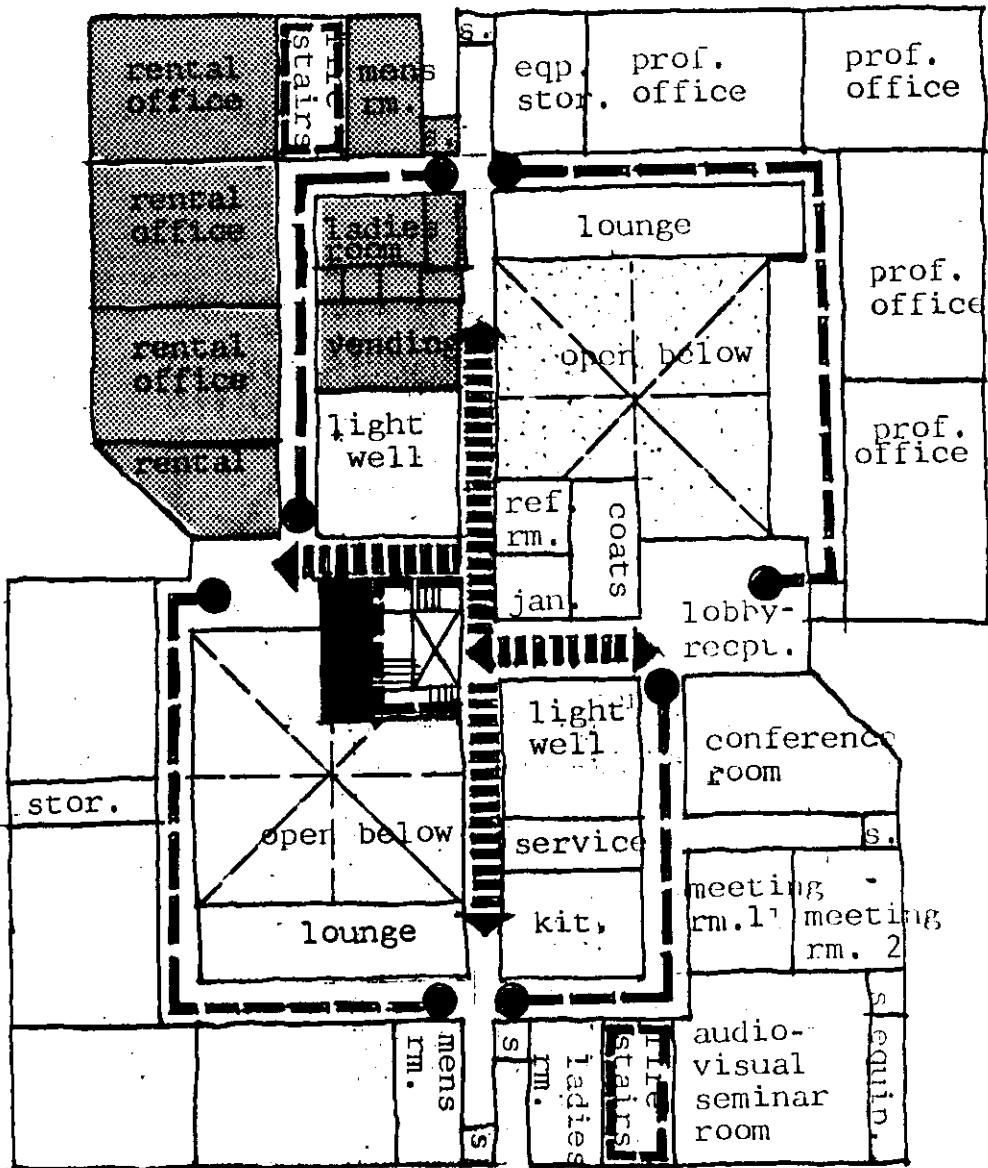
# LEVEL 1









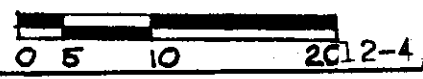
-  general business wing
-  communicative services
-  formal atrium lobby
-  executive officer wing
-  primary circulation
-  secondary traffic



# LEVEL 2

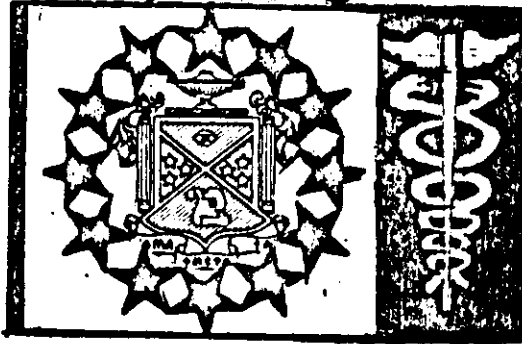


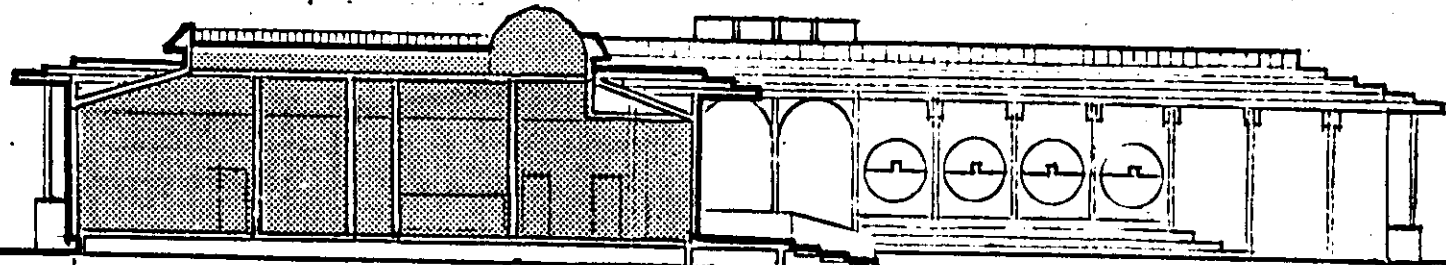
-  communicative services
-  rental office wing
-  professional offices
-  mechanical rooms
-  primary people flow
-  secondary people flow



SECTION ELEVATIONS  
national honor society of nursing  
office building

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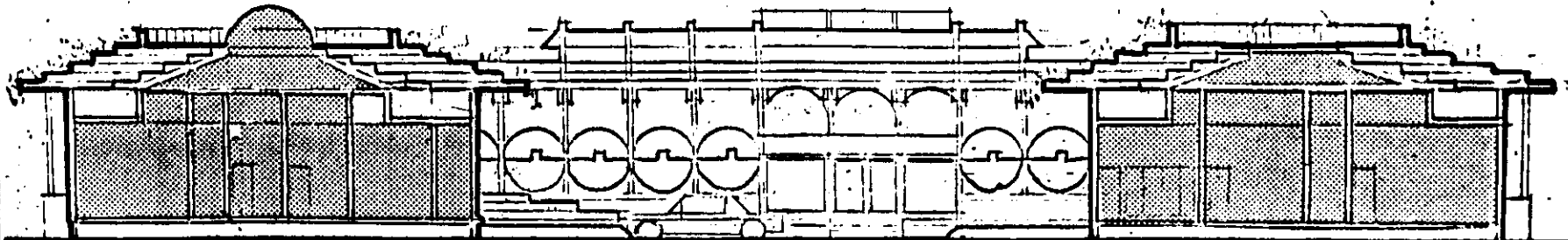




executive office wing

visitor entry | plaza space

**SECTION A-A**



office rental wing

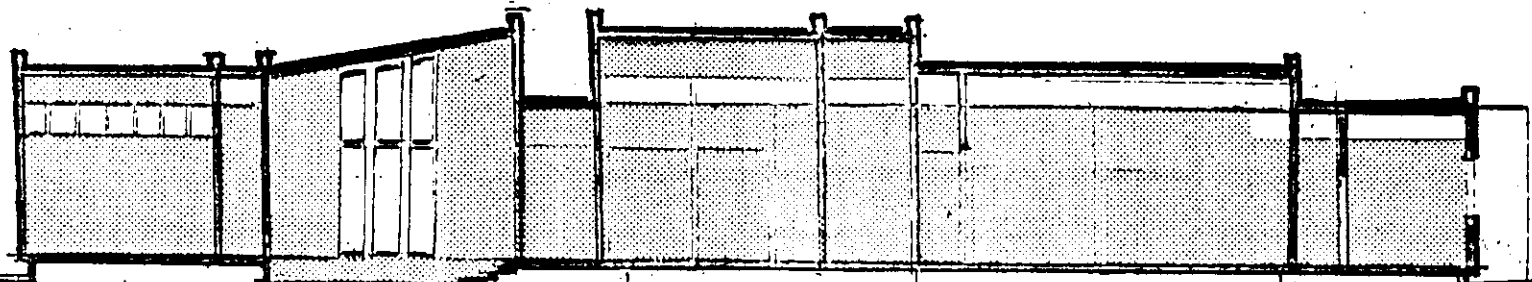
court entry

communicative services

**SECTION B-B**

scale: 1:20





audio-  
visual

lounge-  
exhibits

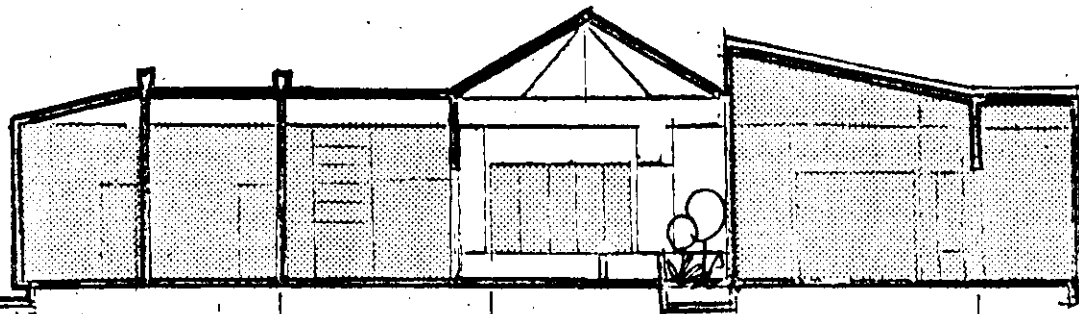
coat  
room

secreterial

executive  
offices

printing  
office

SECTION A-A



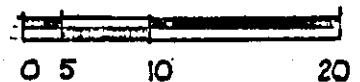
rental  
offices

archives

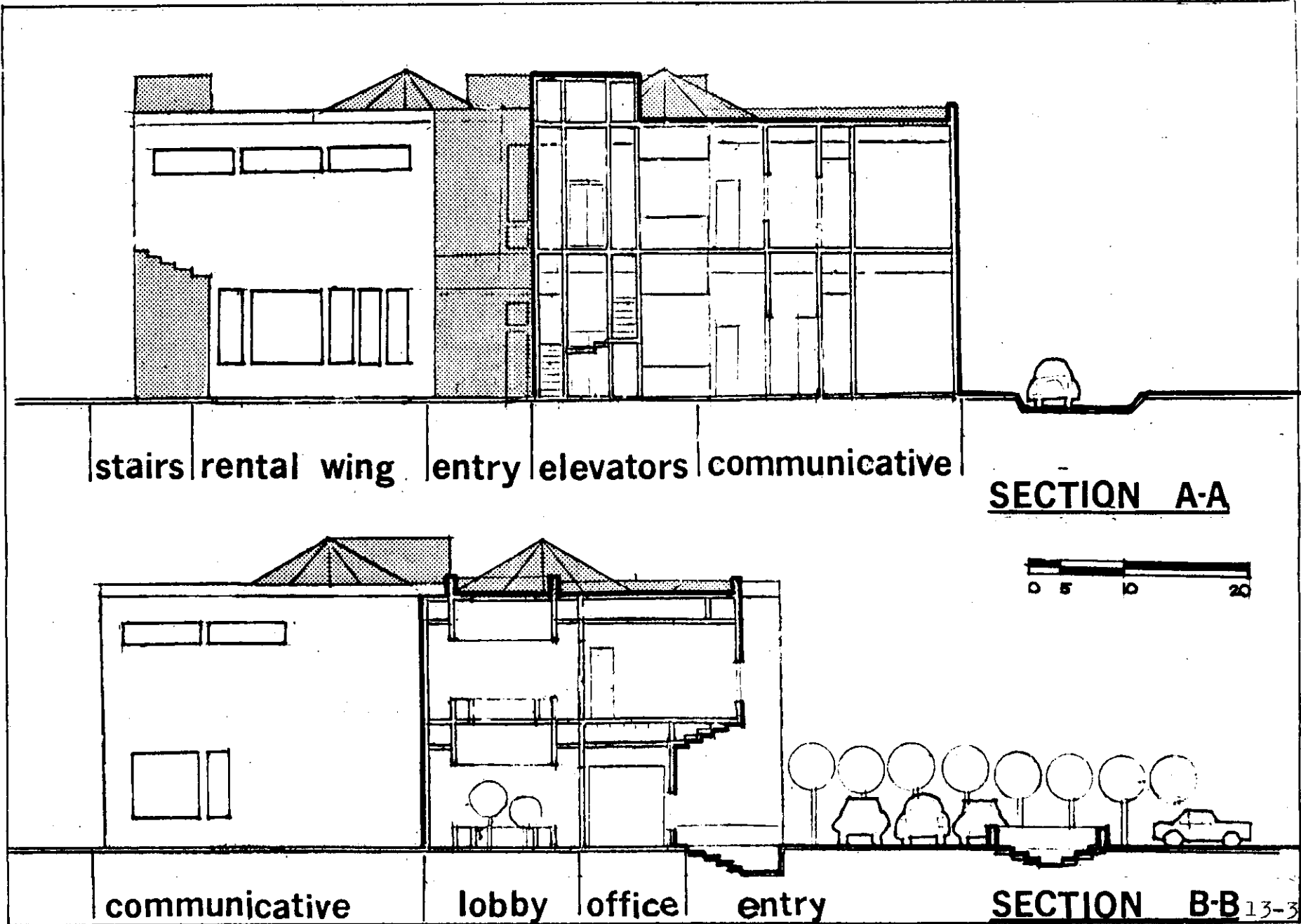
atrium  
lobby

executive  
offices

filing

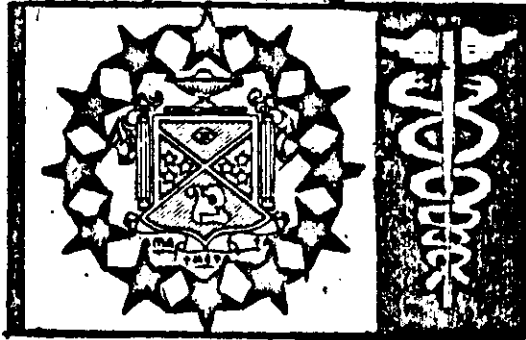


SECTION B-B



**MASSING SCHEMATIC**  
national honor society of nursing  
office building

**14**

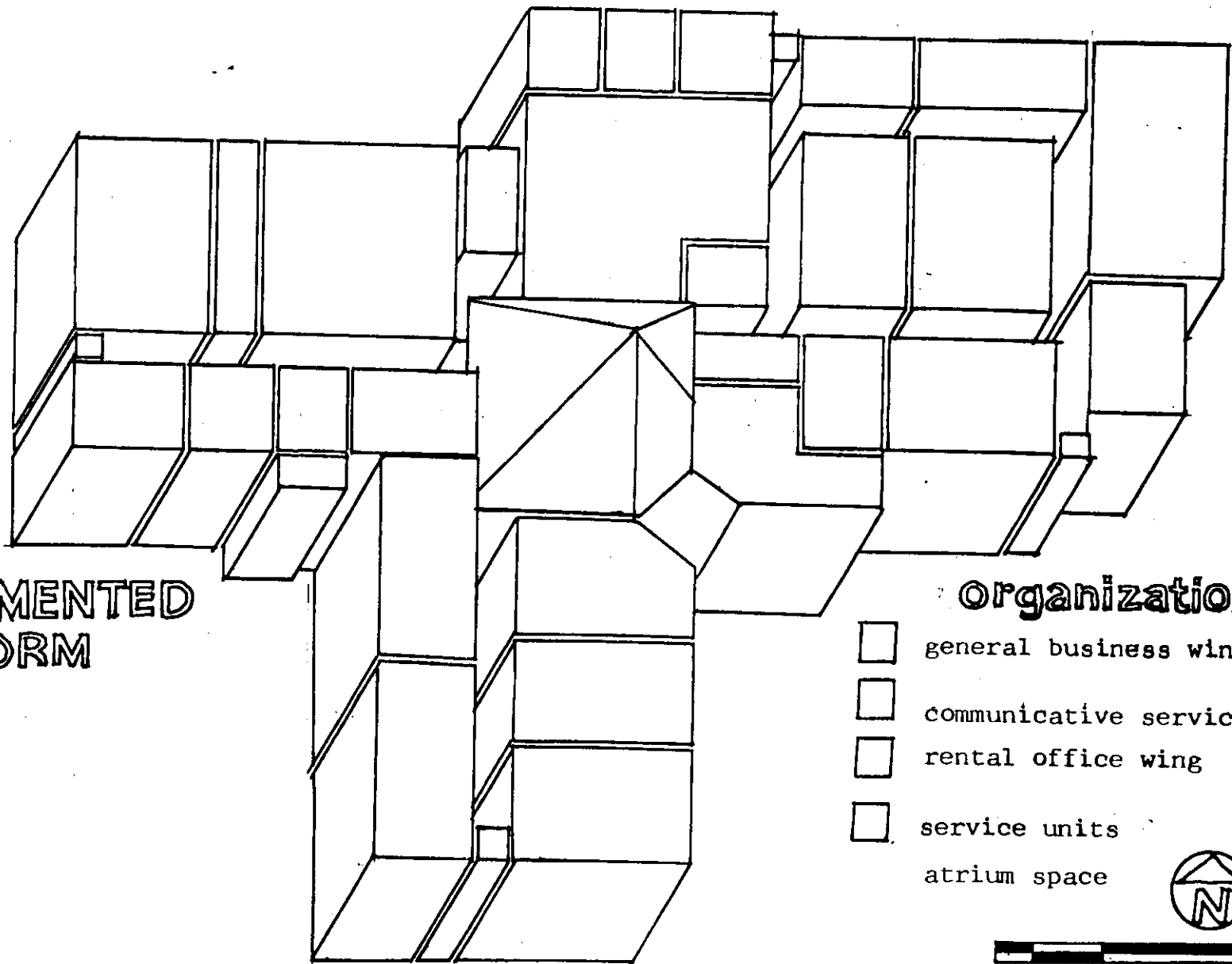


PAVILLION  
FORM

organization

- general business wing
- communicative services
- rental office wing
- service units



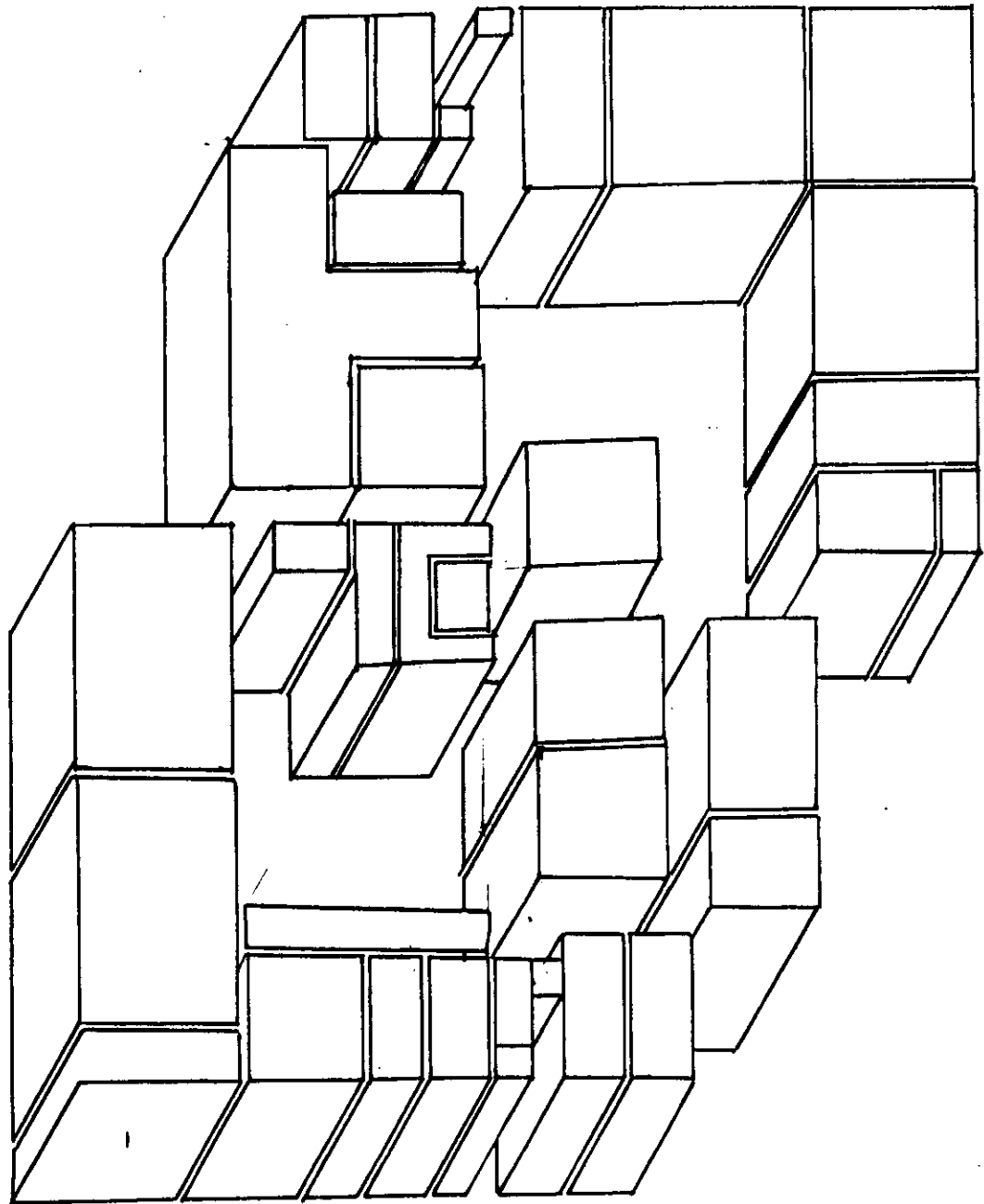


SEGMENTED  
L-FORM

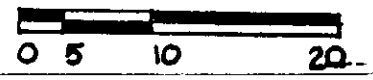
- Organization**
- general business wing
  - communicative services
  - rental office wing
  - service units
  - atrium space



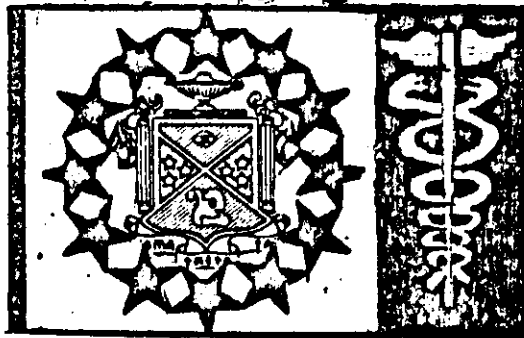
# LEVEL 1



- general business wing
- communicative service
- rental wing
- service units



**CIRCULATION SCHEMATIC 15**  
national honor society of nursing  
office building



secondary route

Founders Road

# OBJECTIVES

1. Building layout should be separated into separate units determined by the differing functions therefore minimizing unwanted noise and congestion.

2. Building interior circulation should originate from a central main entry area for the purpose of providing reception services for the visitors as well as monitoring security.

3. Emphasis on minimizing views of on site parking.

Purdue Road

to office areas

pool

canal

landscaped

pool landscape court

to commercial areas

primary route



Main entry-visitors



Interior circulation



General business



Employee parking entry



Communicative services building



Rental office wing

1:50



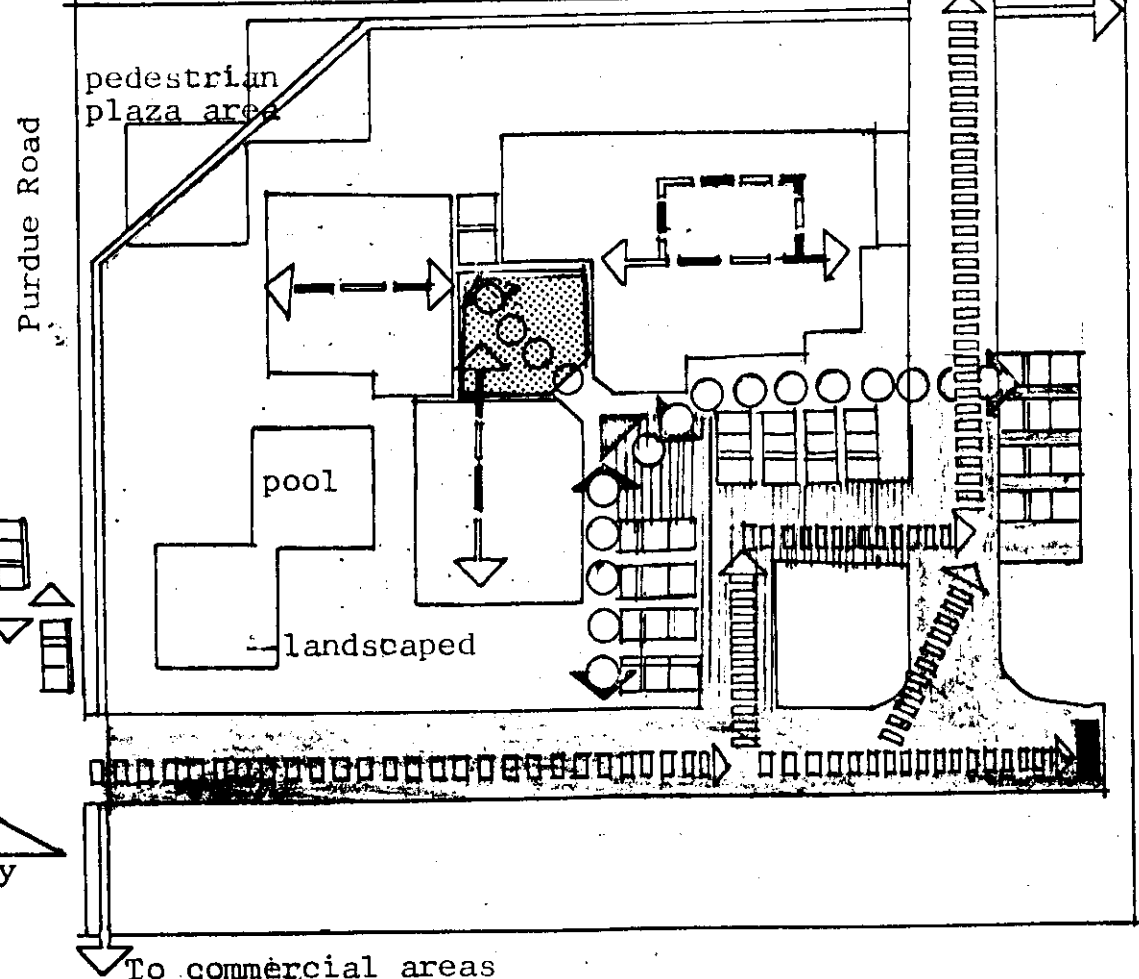
secondary route



Founders Road to office areas



# OBJECTIVES



- 1.. Isolate from view on site parking by locating the flow of cars to the south side of the building.
2. Maintain a trend in energy consciousness by providing protected main entry from the elements.
3. Building interior circulation should orient itself from a central atrium and reception space for greater convenience.
3. Incorporate some development for pedestrians coming from offices to the commercial area

primary route



 Entry- employee parking  
 Interior circulation

 Entry-visitor  
 Pedestrian walk

 Central atrium-reception space.  
 Service- trash

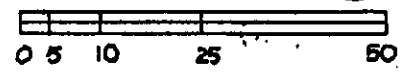
secondary route

Founders Road to office areas

Purdue Road

# OBJECTIVES

- 1: Building interior circulation should orient itself from a central reception-atrium space.
- 2: Considerations for pedestrian pathways to pass through site as a convenience for those traveling from office areas to the commercial.
3. Provisions for a visitor drop-off and delivery service vehicular circulation area.
4. Isolate from view on site parking by locating behind building.



Main entrance-visitor & service

Main interior circulation & stairs

Central atrium - receptionist space

Employee parking

Pedestrian walk

Service-refuge

primary route

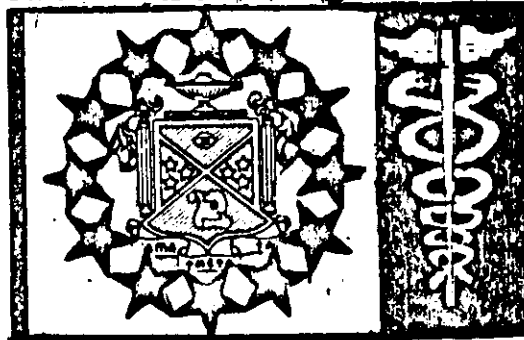
fire exit

fire exit

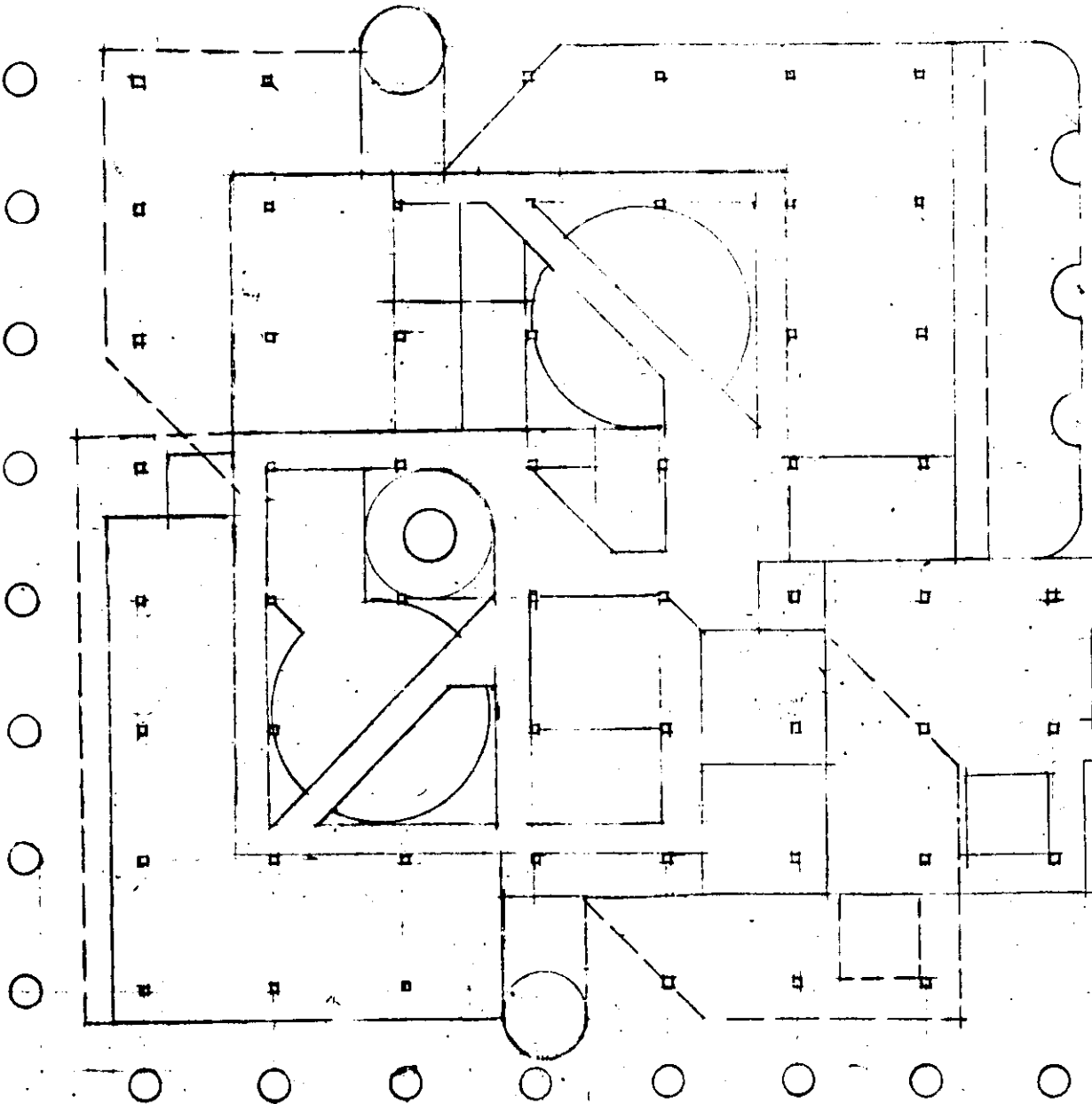
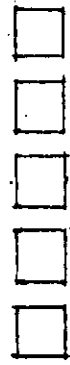
to commercial areas

**STRUCTURAL**  
national honor society of nursing  
office building

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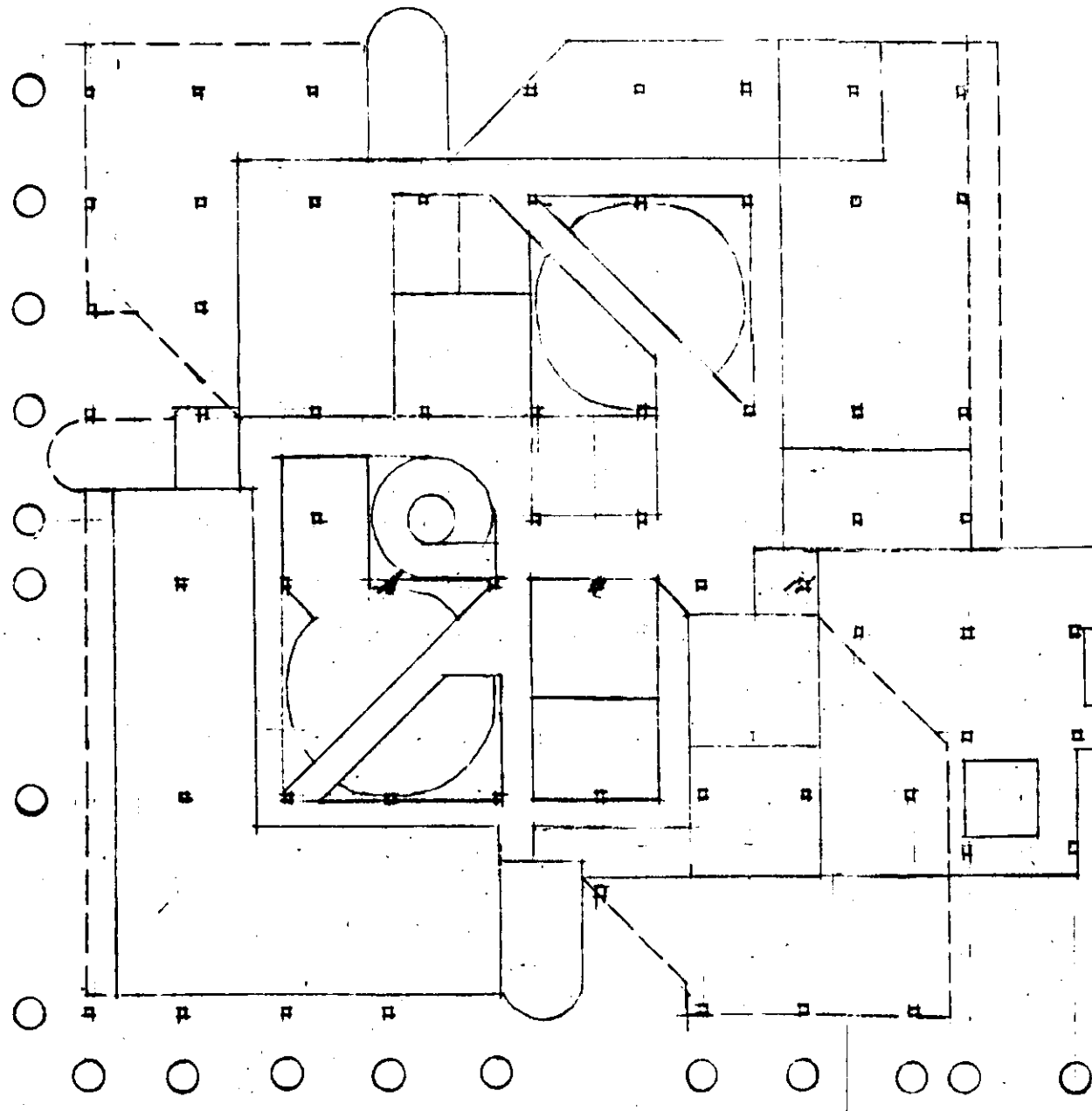
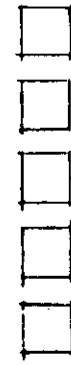
# LEVEL I ANALYSIS



## C COSTS

C COSTS

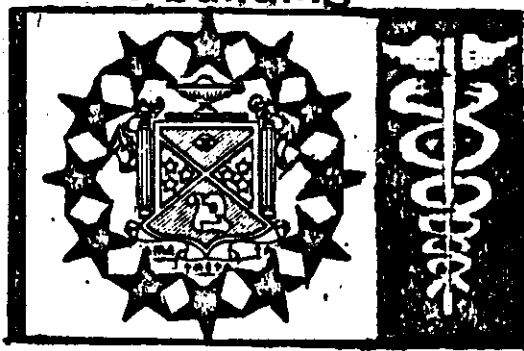
# LEVEL I ANALYSIS

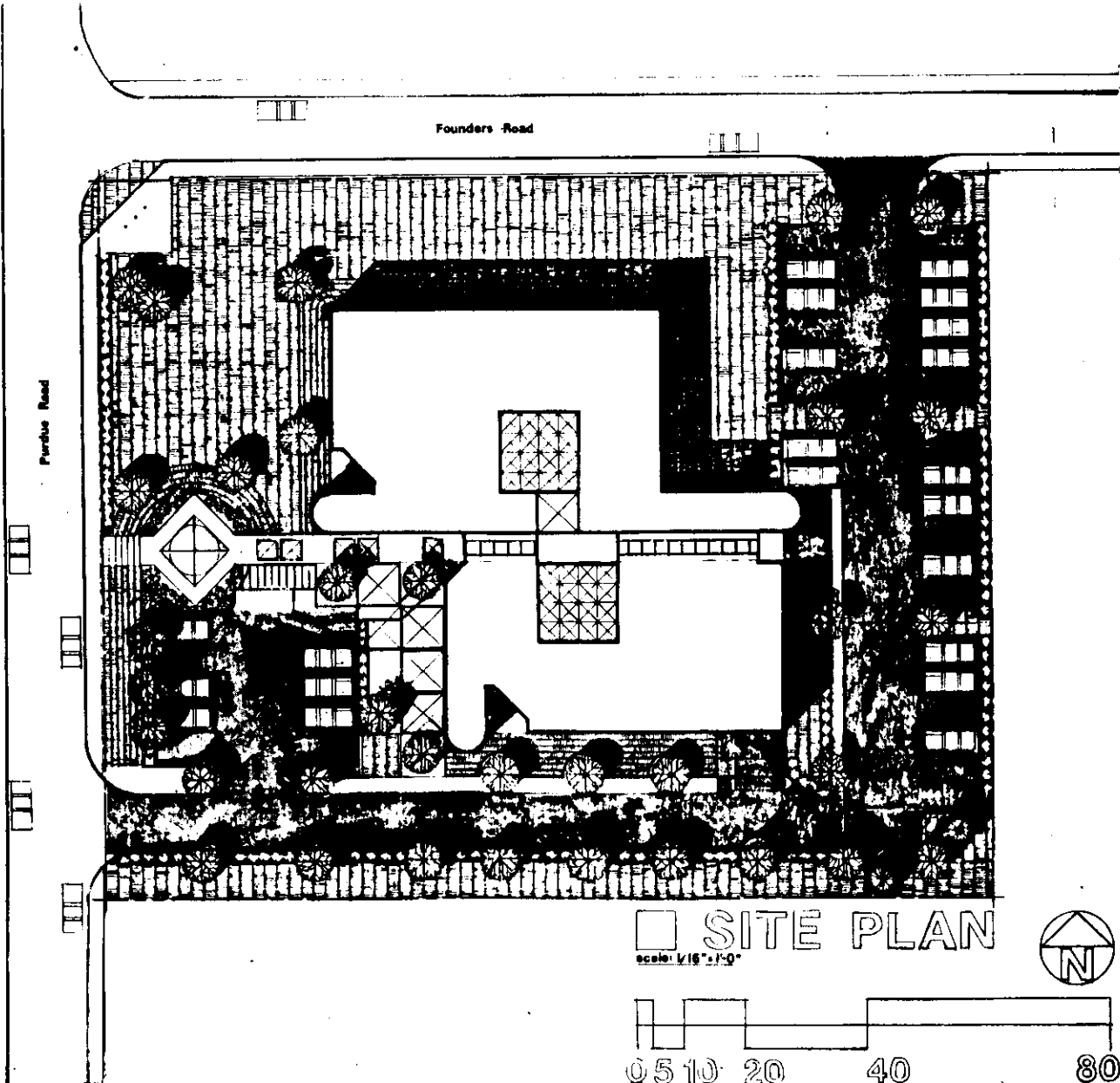


## COSTS

**DRAWINGS**  
national honor society of nursing  
office building

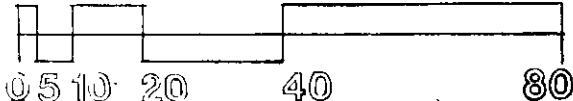
**17**

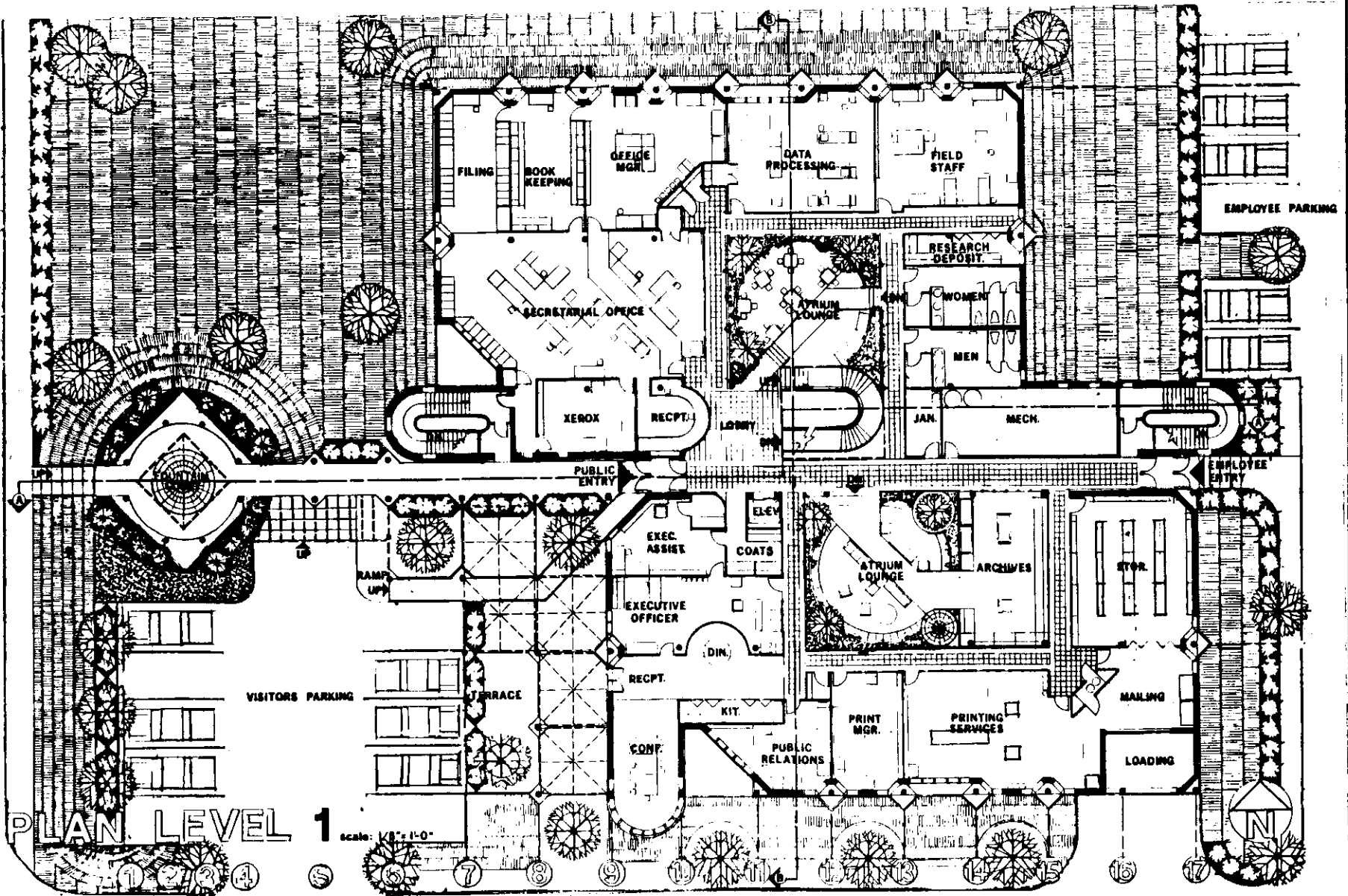


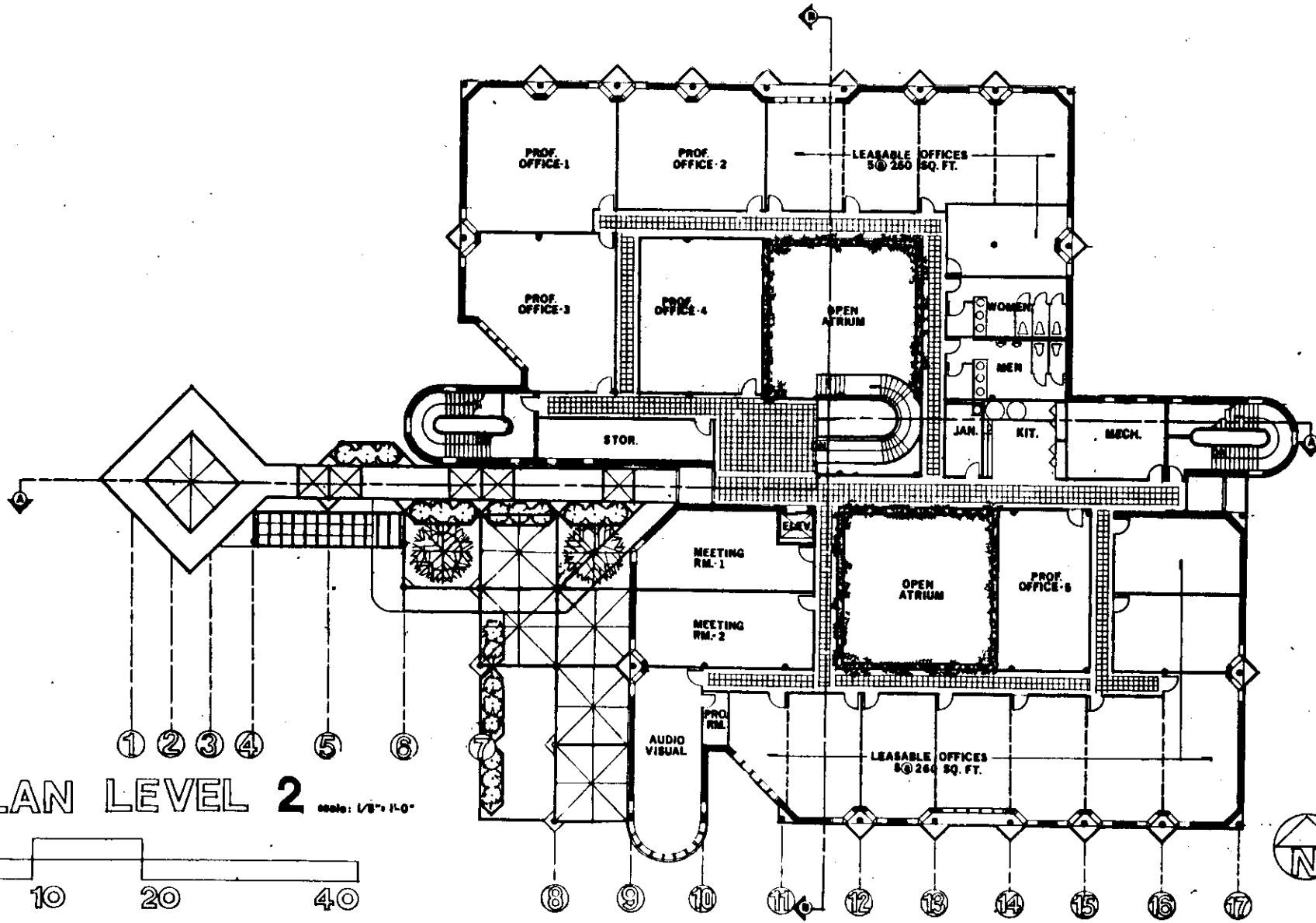


□ SITE PLAN

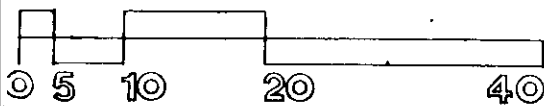
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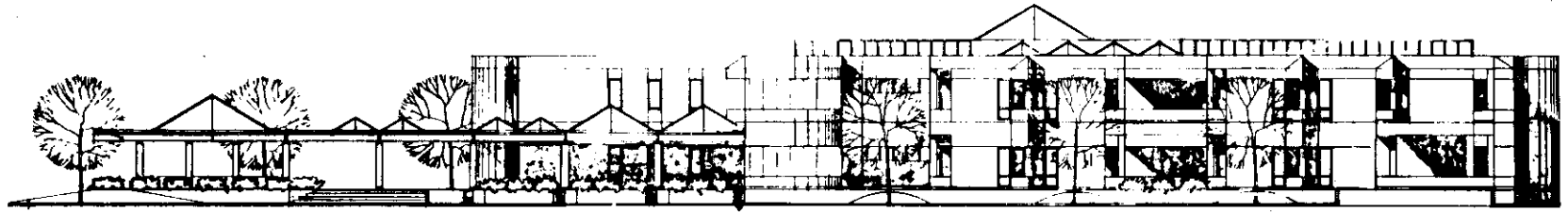






PLAN LEVEL 2 scale: 1/8" = 1'-0"

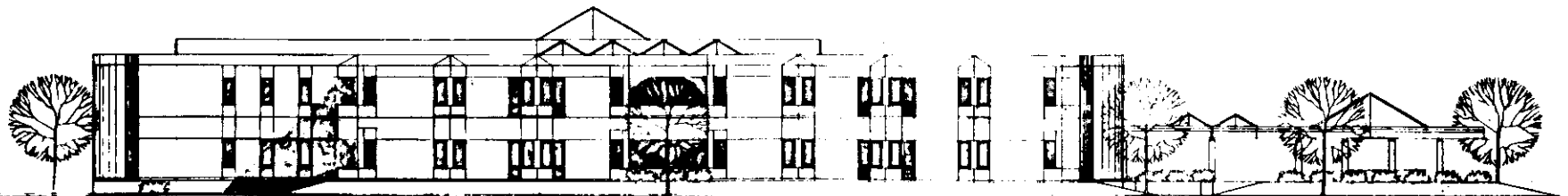




SOUTH ELEVATION



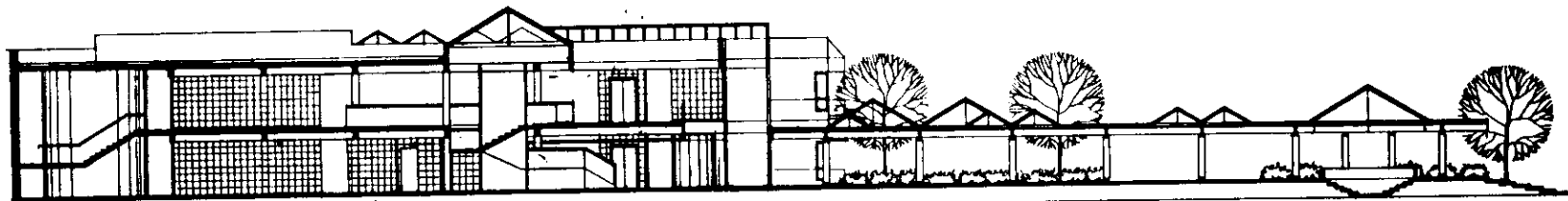
WEST ELEVATION



NORTH ELEVATION



EAST ELEVATION

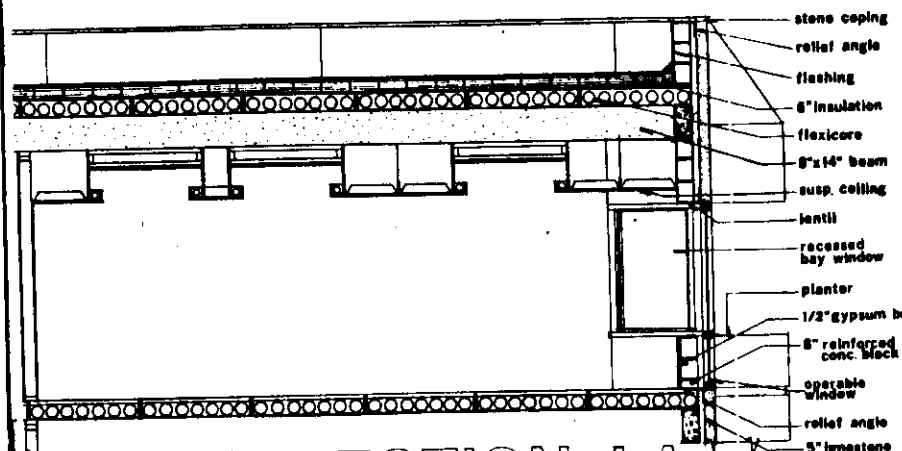
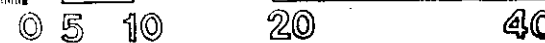


SECTION A-A

scale: 1/8"=1'-0"

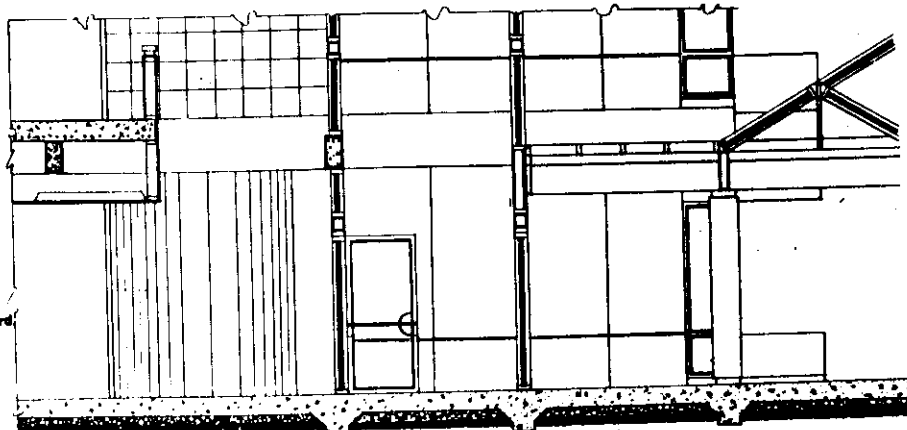


SECTION B-B



DETAIL SECTION 1-A

scale: 1/2"=1'-0"

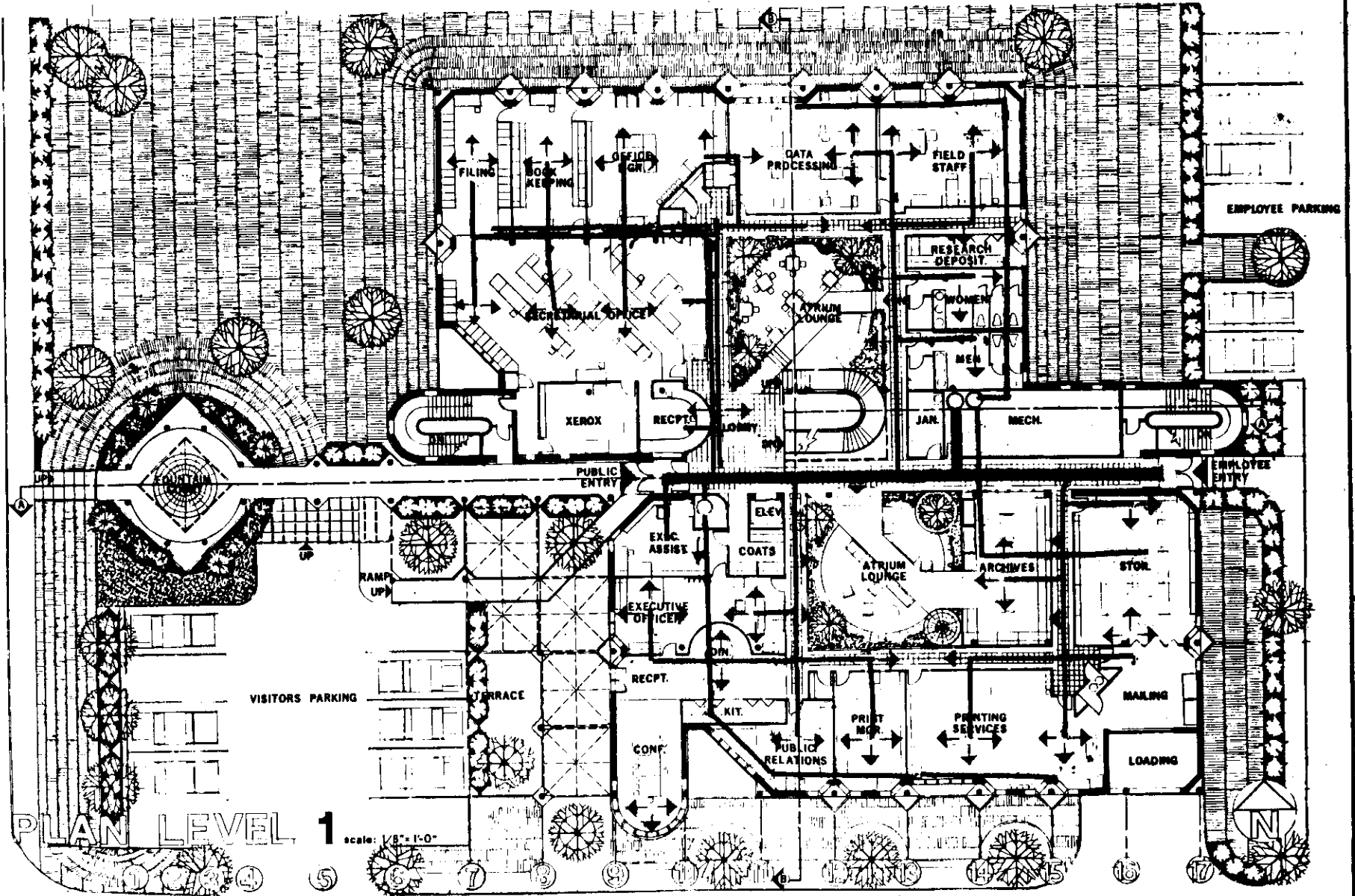


DETAIL SECTION 1-B

scale: 1/2"=1'-0"



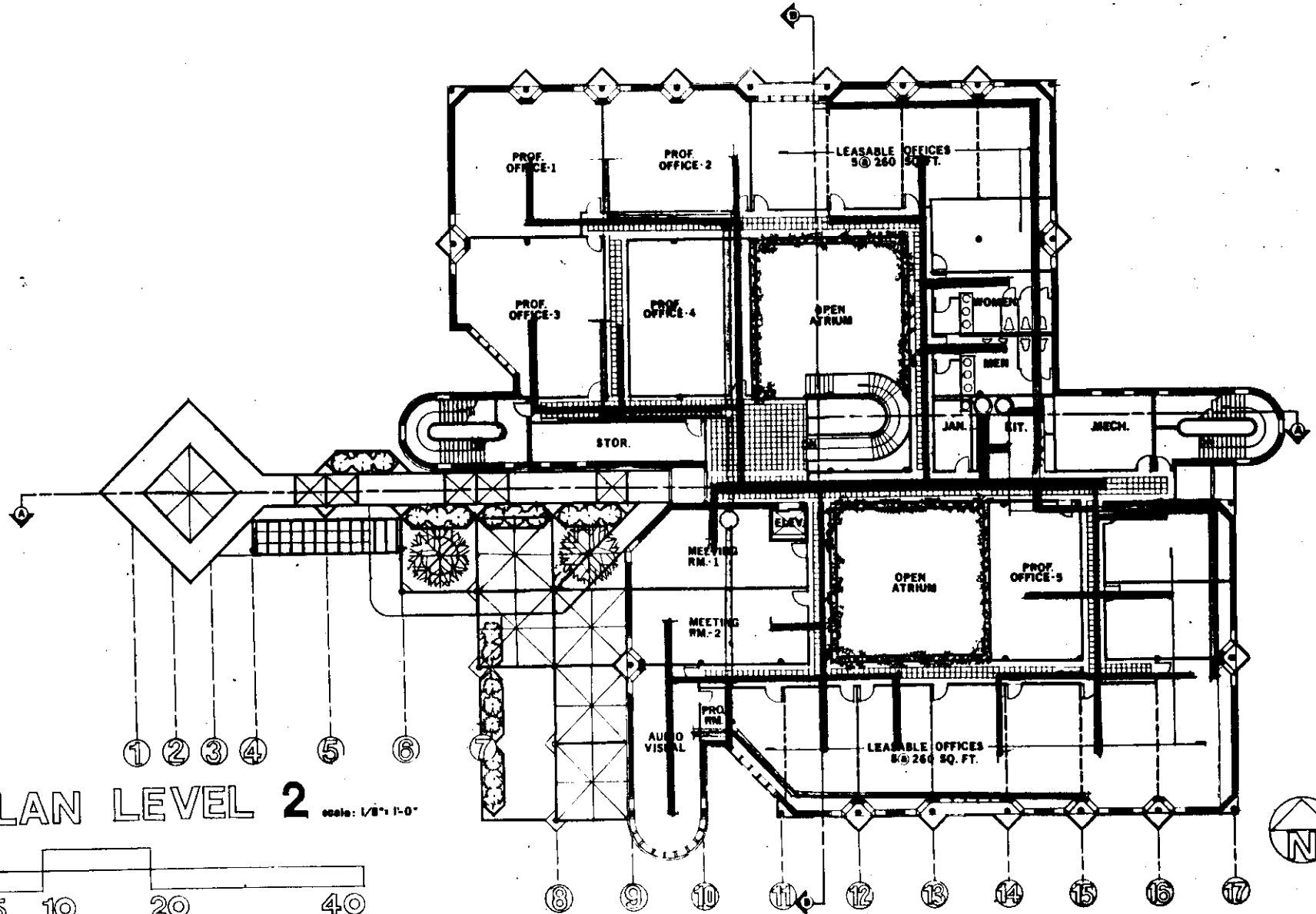
■ air supply ■ air return



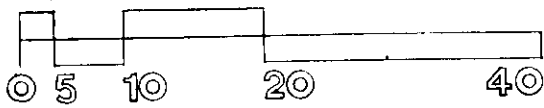
PLAN LEVEL 1

scale: 1/8" = 1'-0"

■ air supply ■ air return



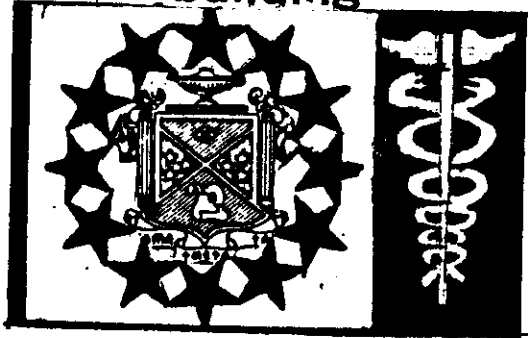
PLAN LEVEL 2 scale: 1/8" = 1'-0"

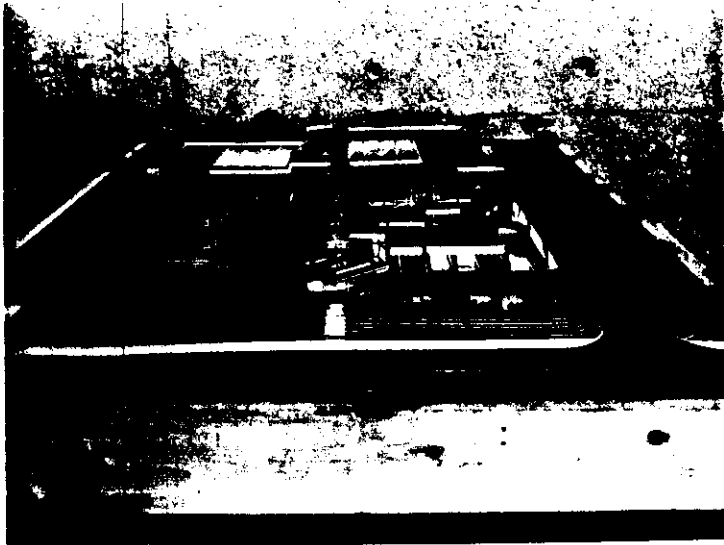


**MODEL**

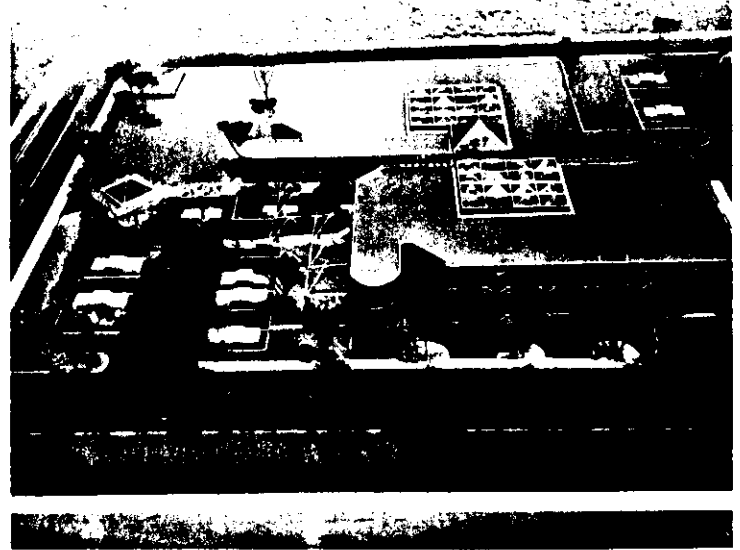
**national honor society of nursing  
office building**

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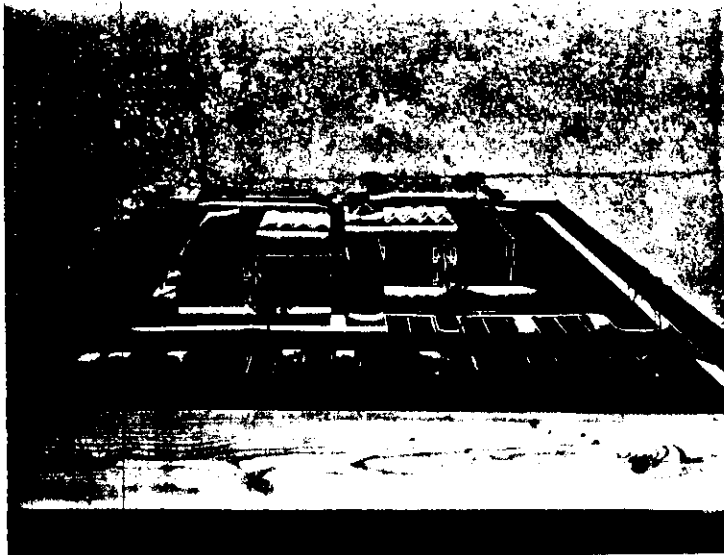




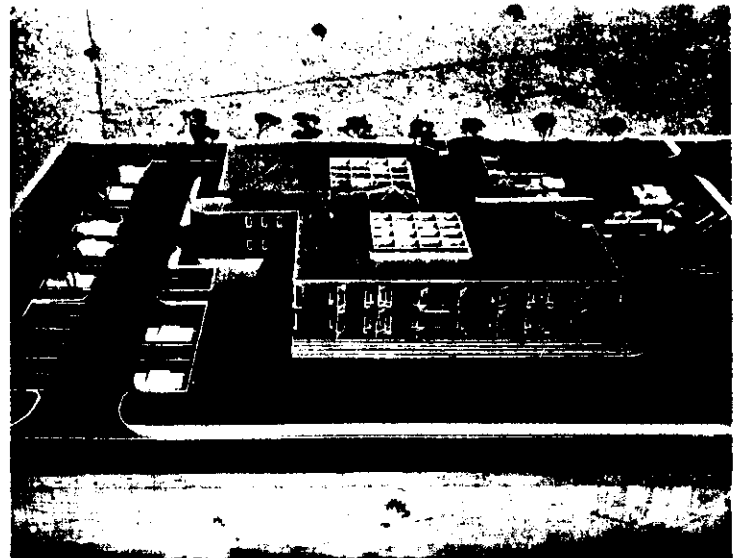
**west**



**south**



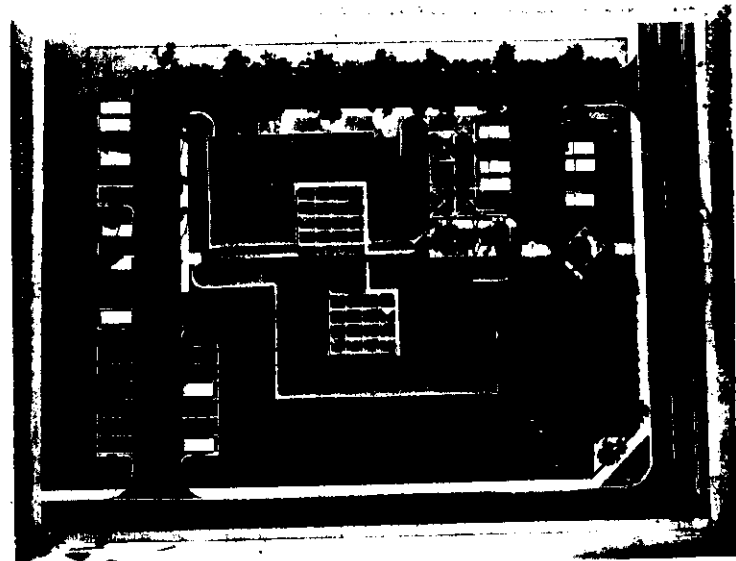
**east**



**north**



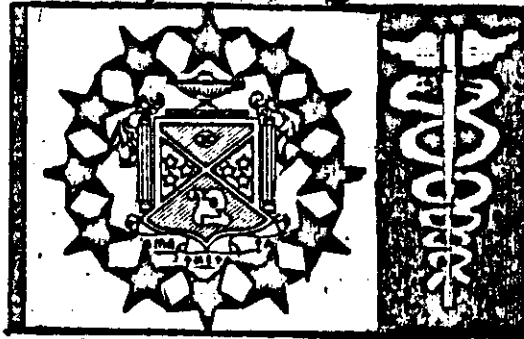
**birds eye  
view**



**site**

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