UNIT F
1604.31

UNIVERSITY OF *Minnesota*

COLLEGE OF PHARMACY • MINNEAPOLIS, MINNESOTA 55455

July 16, 1971

Mr. Paul Maupin
Health Sciences Planning Coordinator
Box 1 Mayo
University of Minnesota

Dear Paul:

In regard to your inquiry regarding approval authorities within the College of Pharmacy for the 1/8" scale plans and the 1/4" scale equipment plans, we have developed the following guidelines.

1. Departmental chairmen will provide final authorization of the plans for their respective departments.

2. The Dean of the College of Pharmacy will provide final authorization of plans involving shared facilities and College administrative areas.

3. I, as Planning Coordinator for the College of Pharmacy, will work with these individuals in the final authorization and will provide the second signature for final approval of each segment of the plans.

The individuals responsible are as follows:

18.1 - Shared Facilities
Lawrence Weaver / Keith Johnson
18.2 - Pharmacognosy
John Staba / Keith Johnson
18.3 - Medicinal Chemistry
Taito Soine / Keith Johnson
18.4 - Pharmaceutics
Ed Rippie / Keith Johnson
18.5 - Pharmacy Administration
Hugh Kabat / Keith Johnson
18.6 - Clinical Pharmacy
Hugh Kabat / Keith Johnson
18.8 - College Administration
Lawrence Weaver / Keith Johnson

Sincerely,

Keith W. Johnson
Planning Coordinator

cc: John Scott, TAC; HSAE; Hugh Peacock; Lawrence Weaver; John Staba; Taito Soine; Ed Rippie; Hugh Kabat

1973 LEGISLATIVE REQUEST
UNIVERSITY OF MINNESOTA HEALTH SCIENCES EXPANSION
UNIT F -- COLLEGE OF PHARMACY

Existing and Projected Student Population

The present enrollment figures (1971-72 academic year) for the College of Pharmacy are:

Undergraduate
- Bachelor of Science*.....319
  - 1st year**.....41
  - 2nd year.....112
  - 3rd year.....81
  - 4th year.....85
- Doctor of Pharmacy***.....8

Graduate.....41

At the time when Appleby Hall was renovated and occupied (1959), it was projected that we would have a maximum of 80 students per class. This projection has not been adequate for quite some time to meet the needs of the State. As the only institution in Minnesota offering a degree in pharmacy and as the only institution in the Upper Midwest offering the Doctor of Pharmacy degree, the facilities of the College of Pharmacy are generating a much greater usage demand than will be able to be provided with present facilities. For all practical purposes, we are very close to capacity level at this time.

Projected enrollment figures for the new facility (Unit F) are 139 students per class within 3 years of building occupancy (3 @ 139 = 417) with an additional 25 students in the 6th year of the Pharm.D. program. A maximum undergraduate class size of 150 is anticipated (3 @ 150 = 450). In addition, an expansion of the space for the graduate programs will allow for 85 students at one time, again being attained within 3 years of building occupancy.

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*The Bachelor of Science degree is a 5-year program, the first two years being designated as pre-pharmacy (taken at any accredited institution the student chooses) and the final three years being structured within the College of Pharmacy.

**This figure is based on the 1-4 curriculum classification (one year of pre-pharmacy and four years of professional school status). Both the 1-4 and 2-3 programs were acceptable in the past; however, the 1-4 program is being phased out in favor of the 2-3 program only. This transition will be complete next year and these students will then be a part of the first professional year of the 2-3 program.

***The Doctor of Pharmacy degree is a 6-year program, the first two years being pre-pharmacy and the remaining four years being professional (with an increased emphasis on the clinical nature of pharmacy during the final two years). This program was initiated in 1971.

Program Breakdown

The three year professional curriculum (or 4 year curriculum in the case of the Doctor of Pharmacy program) is closely integrated with the other units of the Health Sciences. This association has been strengthened in recent years because of the emphasis placed on the clinical aspect of pharmacy (the Department of Clinical Pharmacy was established in 1969) and because of the development of the health team concept in our health care delivery system.

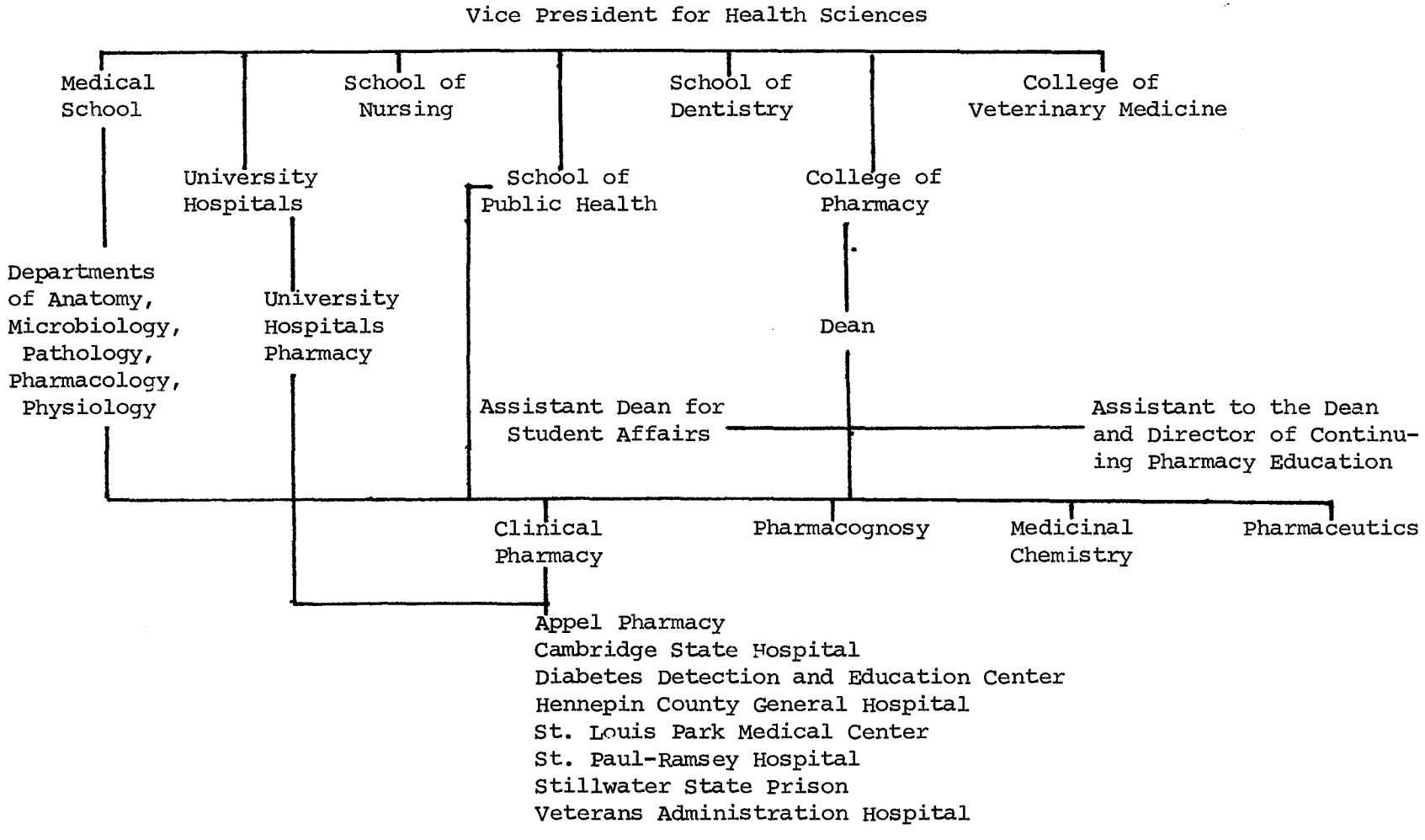
Of the 240 quarter credits required to graduate with a Bachelor of Science degree in Pharmacy, 80 of these are of a general or prepharmacy nature and an additional 31 credits are open as electives. This leaves 129 required quarter credits which are a part of the professional curriculum. These 129 credits are broken down as follows:

Pharmaceutical Sciences Department	Quarter Credits
Medicinal Chemistry	28
Pharmacognosy	10
Pharmaceutics	30
Clinical Pharmacy	27
Basic Health Sciences	34
Total	129

The basic health science group includes courses in anatomy, human physiology, microbiology, pharmacology, toxicology, and public health. All of these courses are drawn from other areas of the Health Sciences (see accompanying chart). In addition, a sizable proportion of the 27 credits in Clinical Pharmacy, although administered by the College of Pharmacy, are directly related to functions of the University of Minnesota Hospitals and other clinical sites.

The pharmaceutical science credits are typically pharmacy and must be provided from within the College itself. It should be emphasized that these credits cannot be fulfilled in other areas of the University system.

The new facility will provide much needed space for implementing NEW PROGRAMS OF A CURRICULAR NATURE recently developed by the College. For several years, the College has experimented with programmed instruction approaches as well as with various audio-visual aids, particularly television. This most certainly (and necessarily) will increase as the initial soundings have proven successful. Such programs have necessitated greater dependence on small group interactions and independent student study. The present facility is not designed for the kind of instruction we foresee as being applicable to pharmacy education. In addition, rapid expansion in the near future of continuing education programs and educational development programs will emphasize the need for additional space.


Vice President for Health Sciences
Medical School
School of Nursing
School of Dentistry
College of Veterinary Medicine
University Hospitals
School of Public Health
College of Pharmacy
Departments of Anatomy, Microbiology, Pathology, Pharmacology, Physiology
University Hospitals Pharmacy
Dean
Assistant Dean for Student Affairs
Assistant to the Dean and Director of Continuing Pharmacy Education
Clinical Pharmacy
Pharmacognosy
Medicinal Chemistry
Pharmaceutics
Appel Pharmacy
Cambridge State Hospital
Diabetes Detection and Education Center
Hennepin County General Hospital
St. Louis Park Medical Center
St. Paul-Ramsey Hospital
Stillwater State Prison
Veterans Administration Hospital

DEPARTMENT	REQUIRED UNDERGRADUATE CREDITS	ELECTIVE UNDERGRADUATE CREDITS AVAILABLE*	CURRENT NUMBER OF GRADUATE STUDENTS	PROJECTED NUMBER OF GRADUATE STUDENTS	PRESENT SPACE AVAILABLE	PROPOSED SPACE
Medicinal Chemistry	28	6	17	34	7,022	18,861
Pharmacognosy	10	5	4	8	7,376	11,514
Pharmaceutics	30	12	9	25	8,547	22,408
Clinical Pharmacy**	27	12	--	--		2,238
Pharmacy Administration***	--	--	11	18	719	4,751
College Administration	--	--	--	--	2,118	4,440
Shared Support****	--	--	--	--	6,135	20,870
TOTALS			41	85	31,917	85,082

*Not including special problems for which credit is arranged.

**An undergraduate department only.

***A graduate department only. The numbers of graduate students include those in Hospital Pharmacy which is a consortium of Pharmacy Administration, Clinical Pharmacy and Pharmaceutics.

****Shared space within the College such as instrument space, animal rooms, lounge facilities and student locker facilities.

Several things seem certain -- the shortage of all health professionals will not be corrected in the near future and will likely become more severe; a team approach to health care will evolve which will take advantage of the special backgrounds and skills of all health professionals; and the trends in health care will require a much closer and more effective interprofessional relationship than has existed in the past. It is imperative that this interprofessional cooperation be initiated in the training years if present patterns are to be broken.

Building and Cost Breakdown

Unit F will consist of 9 floors of space located directly north and east of and adjoining Unit A (now under construction). Three of these floors are below ground level with the remaining six stories above grade. The building will house the College of Pharmacy in toto, except for certain clinical functions which will remain in various areas of affiliated institutions (e.g., University Hospitals; St. Paul-Ramsey Hospital; Veterans Administration Hospital; Cambridge State Hospital). Limited classroom space will be incorporated into the facility with additional classroom needs of a health sciences shared nature being directly available through Units A and B/C and Diehl Hall (Bio-Medical Library), all of which are interconnected.

Gross Square Footage.....156,837

Assignable Square Footage
- Undergraduate Teaching....53,180
- Graduate Teaching.....27,051
- Research.....4,851

Total.....85,082

BUDGET INFORMATION
12. ESTIMATED FACILITY BUDGET

A. Building identification: _____
(if more than one structure)

B. Budget Line	C. New construction	D. Other (identify)	E. Total
1. Building work			
a. General construction	$ 6,184,284	$	$
b. Plumbing	775,000		
c. Heating, air cond., ventilation	1,650,000		
d. Electrical work	1,309,500		
e. Elevators	265,000		
f. Other building work (attach list and itemization of costs)	10,000		
g. TOTAL FOR BUILDING WORK	10,193,784		
2. Site work			
a. Site preparation	82,285		
b. Site development ~~and parking facilities~~	219,487		
c. Utility connecting lines			
d. Special use items			
e. TOTAL FOR SITE WORK	301,772		

ESTIMATED FACILITY BUDGET (Cont'd.)

B.	Budget Line	C. New construction	D. Other (identify)	E. Total
3.	Off-site work			
	a. Connecting lines to central utility plant	$	$	$
	b. Other items (list and itemize costs)	22,382 29,992 52,374		
	c. TOTAL FOR OFF-SITE WORK	52,374		
4.	Central utility plant (prorata share for this structure)	149,568		
5.	TOTAL–CONSTRUCTION COSTS	10,697,498		
6.	Built-in equipment	1,245,000		
7.	Architectural and engineering costs			
	a. Architect's basic fee	810,714		
	b. Supervision and inspection (project representative)	142,985		
	c. Surveys, tests, and borings	75,000		
	d. Other items (list and itemize costs)	148,700		
	e. TOTAL–ARCHITECTURAL AND ENGINEERING COST	1,177,399		

ESTIMATED FACILITY BUDGET (Cont'd.)

B. Budget Line	C. New construction	D. Other (identify)	E. Total
8. Movable equipment	$1,838,642	$	$
9. TOTAL COST FOR CONSTRUCTION FIXED EQUIP. A/E FEES AND MOVABLE EQUIPMENT	14,958,539		
10. Contingency	343,164		
11. Purchase of Land	1,070,000		
12. Purchase of Buildings			
13. Other (list and itemize)			
14. Subtotal-Lines 9 to 13 incl.			
15. Works of Art			
16. TOTAL DEVELOPMENT COST	$16,371,703	$	$

UNIT "F" APPLICATION

New Construction

B	Budget Line		Total	Eligible For Federal Assistanc
1.	Building Costs and Fixed Equipment			
	A. General Construction		6,184,284	
	B. Plumbing		775,000	
	C. Heat, Air Conditioning, Vent		1,650,000	
	D. Electrical		1,309,500	
	E. Elevators		265,000	
	F. Other Building Work, Keying, Fire Alarms, etc.		10,000	
	G. Total for Building Work		10,193,784	10,193,784
2.	Site Work			
	A. Site Preparation 1. Cut off utilities 2. Remove electric service for parking ramps, temporary walks			
	Site Work Subtotal	82,285	82,285	79,800
	B. Site Development 1. Permanent street lighting, walks, curbs, streets and landscaping, electrical feeder systems			
	Site Development Subtotal		219,487	43,992
3.	Offsite Work			
	Switch Gear (ProRata)			
	$\frac{156,837 \text{ sfg}}{1,330,123 \text{ sfg Phase I}}$ X $189,837 = 22,382			
	Control Center			
	$\frac{156,837 \text{ sfg}}{1,330,123 \text{ sfg Phase I}}$ X $254,353 = 29,992			
	Total Offsite Work		52,374	52,374

4.	Central Utility Plant			
	$\frac{14,500\#/hr.}{175,000\#/hr.\ Phase\ I}$ X 1,805,125 =		149,568	149,568
5.	Total Construction		10,697,498	
6.	Built In Equipment		1,245,000	1,245,000
7.	A. Architect and Engineer Fees			
	7% x 11,438,784	800,714		
	Redesign	10,000		
	B. Supervision and Inspection			
	1½% x 11,438,784	142,985		
	C. Surveys and Test Borings	75,000		
	D. Other Items - Consultants, Printing, Travel, University of Minnesota Engineering Reviews and Miscellaneous Engineering	148,700		
	Total Architectural/Engineering Costs		1,177,399	1,177,399
8.	Moveable Equipment	1,698,642		
	Furnishing Consultant	40,000		
	Specification Consultant	100,000	1,838,642	1,838,642
9.	Total Cost of Construction and Fixed Equipment, A/E Fees and Moveable Equipment		14,958,539	14,780,559
10.	Contingency - Total Building Costs and Built In Equipment - 11,438,784 x 3%	11,438,784	343,164	343,164
11.	Land Purchase Including 3 Apartment Buildings and Church	1,070,000	1,070,000	
	Total Development Costs for New Construction		16,371,703	15,123,723

14. COSTS ELIGIBLE FOR FEDERAL PARTICIPATION (BY PROGRAMS)

A. Budget line	B. Total cost (col. E, item 12)	C. Total eligible cost	D. Amounts eligible for Federal participation (for each grant program)			
			1) Program code % from item 13E__ or 13G__	2) Program code % from item 13E__ or 13G__	3) Program code % from item 13E__ or 13G__	4) Program code % from item 13E__ or 13G__
1g. Building work	$10,193,784	$10,193,784	$ 10,193,784	$	$	$
2e. Site work	301,772	123,792	123,792			
3c. Off-site work	52,374	52,374	52,374			
4. Central utility plant	149,568	149,568	149,568			
6. Fixed equipment	1,245,000	1,245,000	1,245,000			
7e. A/E costs	1,177,399	1,177,399	1,177,399			
8. Movable equipment	1,838,642	1,838,642	1,838,642			
10. Contingency	343,164	343,164	343,164			
11. Purchase of Land	1,070,000					
12. Purchases of Building(s)						
13. Other						
15. Works of Art						
16. TOTALS (1g through 15)	$16,371,703	$ 15,123,723	$ 15,123,723	$	$	$
17. Amount of Fed. Assist Requested			$ 10,082,986	$	$	$
18. Fed. Share Request—Percentage			66.67%	%	%	%

F Grant applic.
3

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
4103 Powell Hall
Minneapolis, Minnesota 55455
(612) 373-8981

March 8, 1974

FROM: Paul J. Maupin, Health Sciences Planning Coordinator

The attached Exhibit C is in reference to the preparation of the Unit B/C and F grant from an eligibility cost standpoint.

cc: Ted Jage
John Scott
Jerrald Olson
Vic Scott
Paul Kopietz

EXHIBIT C

The following costs of construction are designated "eligible" or "ineligible" for Federal participation in the construction of teaching facilities; library and research facilities essential for teaching; and teaching hospitals or outpatient facilities. Certain costs of construction which are eligible for Federal participation under credit assistance, but ineligible for grant assistance, are so identified. Similarly, costs of construction which are eligible, subject to certain conditions, are also identified.

The costs of construction listed below are those commonly associated with the development of facilities under this program. However, the construction costs listed should not be construed in any way as being all inclusive or exhaustive.

CONSTRUCTION COSTS ELIGIBLE FOR FEDERAL PARTICIPATION

Acquisition of Existing Buildings

Acquisition of existing buildings with respect to a project, including access and egress, and the remodeling and renovation thereof: The cost of land and offsite improvements are not eligible for Federal participation. Please refer to the instructions in this appendix for "Acquisition of Existing Buildings."

Advertising Costs--Construction Bids

Advertising, publication and related costs incurred in obtaining competitive bids for the construction of the project.

Architect's Fees

Fees for architectural services rendered in connection with the project, not exceeding prevailing rates in the locality for similar services (or in accordance with approved rate schedules established by the American Institute of Architects). Note: If all or any portion of architectural fees are paid under a special program (i.e., alteration and renovation to an existing facility under Start-up Assistance), to the extent architect's services are paid for thereunder, such fees are not eligible for Federal participation.

Bonds

Cost of contractor's performance bond and a contractor's payment bond, if not provided by the contractor.

Consultant's Fees

Fees for services rendered by consultants in connection with the programming of space, selecting of special equipment, planning of libraries, and similar assistance requiring the services of individuals or firms specializing in an area of knowledge. Only fees or such portion for services with respect to the project will be determined eligible.

Contingency Fund

A sum not exceeding five percent (5%) of the total of: Construction (or Acquisition of an Existing Building); fixed equipment (if not included in the construction contract cost); initial movable equipment; and architect's fees, may be budgeted to provide for any unforseen increment in construction costs. Immediately subsequent to award of the construction contract, the contingency fund is reduced to two percent (2%), or may be eliminated if there exists no forseeable need.

Demolition--Site Preparation

Costs of demolition and removal of existing buildings and improvements; clearing, grubbing, removal of existing utility lines; and fill and grading required for preparation of the project site. Relocation of existing utility lines is not an eligible cost. If any buildings and improvements to be removed from the project site have a salvage value, such value should be reflected in the contract bid price with respect to such work performed.

Equipment

The cost of equipment which is necessary for the functioning of the facility or project portion, with respect to which Federal assistance is made, but not including items of current operating expense such as glassware, chemical, food, fuel, drugs, paper, printed forms and materials, and dispensable housekeeping items.

Inspection and Supervision

Costs of resident inspection of construction or such other similar architecutral and engineering inspection and supervision at the construction site to insure that the construction is being carried out in compliance with the plans and specifications. If such resident inspection and supervision is being performed by the applicant's staff (e.g., clerk-of-the-works), the eligible cost must be based on a documented time and wage rate for actual work performed. However, only architects, engineers, draftsmen and inspectors retained by the applicant for inspection and supervision will be considered as an eligible cost of construction.

Insurance During Construction

Costs incurred for insurance maintained by the applicant during construction of the facility covering the following risks and hazards (to the extend such insurance is not maintained by the contractor or subcontractor);

Public Liability and Property Damage Insurance, in amounts and on terms necessary to provide adequate protection over the life of the contract;

Builder's Risk Insurance (fire and extended coverage) on 100 percent basis (completed value form) on the insurable portion of the facilities for the benefit of the applicant; and

Insurance (comprehensive coverage) coverage to protect equipment (not otherwise insured) purchased by the applicant for the project against loss or damage.

Relocation Assistance

In the case of a public school, institution or other public applicant having a project which involves the displacement of a person or business whose real property has or will be taken, all expenses, payments and other costs and assistance or costs of relocation as may be provided pursuant to the Uniform Relocation Assistance Act of 1970 (Public Law 91-646), and all applicable provisions of the regulations issued thereunder 45 CFR 15, as added by 36 FR 18838 (September 22, 1971).

Taxes

Any nonrefundable sales tax, and any Federal excise tax, paid by the applicant in connection with the constructing and equipping of an approved project or facility.

Site Improvements--Utility Connections

Costs of rough and finished grading of the project site. Cost of seeding or sodding of the project site (seeding and sodding will be determined eligible depending on site conditions). Cost of installation of exterior water, sewage and gas lines beyond the project site (5 feet from building lines), extended to and connected with the nearest public utility service lines, including tap-on fee costs; and electric service from existing public service lines to connections with weather-head service entrance on building. Site landscaping costs are not eligible.

Central Utility Plant

The percent of Federal participation (eligible cost of) in the total cost of a central utility plant (if the central utility plant is determined to be a sound investment of Federal funds) is equal to the proportion between the energy demand of the buildings (teaching facilities, outpatient facilities, etc.) and the design capacity of the proposed central utility facility. THE COST OF UTILITY LINES FROM THE CENTRAL PLANT TO THE BUILDINGS IS INELIGIBLE.

Costs Incurred Prior to Project Funding

Only those necessary costs of construction incurred prior to the grant award, or entering into any loan guarantee or interest subsidy agreement, which are necessary to the planning and design of the project; and are otherwise incurred by the applicant in proceeding to the start of construction of the project without undue delay. APPLICANTS ARE ADVISED TO CONSULT WITH THE STAFF IN CONNECTION WITH ANY QUESTIONABLE EXPENSES PRIOR TO THE PROJECT FUNDING.

Other

Cost escalation although not an identifiable line item in a project budget is a cost of construction inherent in all construction projects by reason of the time interval between development of the construction budget, start of construction and purchase of equipment. Applicants are counseled to advise their architect (or such other person making project cost estimates) to include in each construction cost item provision for cost escalation which may be expected to occur between preparation of the initial project budget and the start of construction. The estimated budget should reflect the higher cost.

Certain legal fees and other costs in connection with the acquisition of existing buildings (exclusive of the site) may receive consideration, on an individual project basis, as eligible costs for Federal participation. For example: the acquisition of an existing building on a site not owned by the applicant may involve question of leasehold or other estate or interest for purposes of compliance with the period of Federal interest; access and egress; or air rights. As previously noted, each such project will be considered individually.

COSTS ELIGIBLE FOR FEDERAL PARTICIPATION:
LOAN GUARANTEES AND INTEREST SUBSIDIES ONLY

Legal Counsel

Fees attributable to services rendered by legal counsel, including preliminary memorandum of counsel submitted with the application for loan guarantee and interest subsidy assistance, preparation of the debt instrument, and the final approving legal opinion delivered to the Secretary upon consummation of the loan.

Title Opinion

Cost of an opinion rendered by the title counsel, when and if required by legal counsel in order to render an unqualified final approving legal opinion. The cost of title insurance as may be required by legal counsel or the non-Federal lender is not eligible for Federal participation.

Financial Advisor

Fees attributable to services rendered by a financial advisor with respect to the project, in planning and preparing details of the long-term financing for which loan guarantee and interest subsidy assistance is requested. Assistance in securing long-term financing for the applicant on the most favorable terms.

Interest During Construction

A sum equal to interest payable on the principal amount of funds borrowed during the period of construction. This cost is eligible only if permanent

financing is to be effected following completion of construction. Interest during construction on a permanent loan is not eligible for Federal participation.

Securing the Non-Federal Financing

Cost of advertising for public sale of applicant's long-term debt (where loan is sold publicly). Printing of bonds or other debt instruments. Costs of preparing brochures, prospectus, official statement, trust instrument in connection with the loan for which the guarantee or subsidy is requested. Costs of recording a lien on real property. Points charged in the case of private placement of a loan, or commitment fees charged by certain non-Federal lenders are not eligible for Federal participation.

CONSTRUCTION COSTS INELIGIBLE FOR FEDERAL PARTICIPATION

General: All construction costs designated eligible for Federal participation in the construction of a facility, including consultants, equipment, inspection and supervision and insurance, are eligible only with respect to all or that portion of a facility which is an approved project. Architect's fees for services performed on a portion of a facility which is not a part of the project are not eligible. Similarly, consultant's fees in connection with the equipping of a facility are eligible only to the extent such equipment constitutes a cost of an approved project. All costs in connection with a loan guarantee or interest subsidy are eligible only with respect to that portion of a facility or project for which the loan guarantee and interest subsidy is requested and approved.

Acquisition of Land and Site

Costs incurred in the purchase, lease or other estate or interest, in land or the site of the facility or project, including the land or site on which existing buildings for remodeling and renovation are acquired.

Architect's Fees--Disapproved Project; Abandoned Project

Fees for services rendered by an architect-engineer in connection with a facility or project which is disapproved, not put under contract, or otherwise suspended, discontinued or abandoned.

Bonus Incentives--Contractor

Any costs attributable to bonus or similar incentives paid to the contractor for work on the project and facility, performed and completed in advance of established or scheduled timetables.

Donated Materials and Services

The pecuniary value of any materials, equipment, and services donated from whatever source with respect to the approved project and facilities, is not an eligible cost. The applicant or any other recipient of such donated materials, equipment or services may include the value as a cost of construction, but may not request reimbursement for all or any portion.

If all or any of the cost items in the estimated construction budget appear significantly above costs for similar projects, the applicant will be required to substantiate the cost disparity. Depending on the outcome, the eligible amount of certain costs may be negotiated downward. If the lower eligible cost items are acceptable to the applicant, the staff will obtain the necessary revised budget pages of the application prior to reviewers' consideration or Council action (as the case may be). If a downward revision in cost estimates is not deemed justified and sanctioned by the applicant, the reviewers will be presented with original cost estimates, the staff summary and the applicant's justification for the cost item or budget.

Fund Raising

Costs attributable to fund-raising campaigns, or other costs incurred in connection with an applicant securing matching funds for the total construction of the facilities and project. Note: Certain costs of securing non-Federal construction funds under a loan guarantee or interest subsidy may be eligible costs for securing matching funds. Applicants should refer to eligible costs for loan guarantees and interest subsidies.

Legal Proceedings--Damages Against Applicant

Costs attributable to damages against the applicant on account of the constructing and equipping of the facility or project, without regard to the manner of settlement (viz., court proceedings, out-of-court settlement, negotiation, arbitration or other means).

Unfinished or Shell Space

The cost (or prorated cost) of any unfinished space or partially finished shell space in the proposed facility, whether or not scheduled to be used for teaching and other eligible purposes.

Environmental Analysis of The Project

Applicants have the primary responsibility for identifying and assessing the environmental impact of the proposed project, and must submit an Environmental Analysis with the application. The Government's primary concern and interest in the environmental aspects of the project is that the design, construction, and operation of the project will result in the least disturbance to the environment.

Under the provisions of the National Environmental Policy Act of 1969 (Public Law 91-190; 42 U.S.C. 4321 et.; 83 Stat. 852), [including also the Clean Air Act (42 U.S.C. 1857), and the Federal Water Pollution Control Act (33 U.S.C. 4660], the probable environmental consequences of any undertaking, with respect to which a Federal action is involved, must be assessed. This includes all construction projects supported in whole or in part under the Health Professions Educational Assistance Program, without regard to the form of assistance (i.e., grants, loan guarantees or interest subsidies).

All applications for construction assistance must be accompanied by the applicant's own environmental analysis of the project and supporting facilities. The environmental analysis should be bound separately to facilitate review and evaluation by the technical staff. No application may be approved, nor any other similar action (such as construction clearance) taken prior to review and approval of the environmental analysis.

Environmental Standards; Project Design and Development

Applicants are advised to employ project design features and techniques which will result in the least disturbance to the surrounding environment for the best alterative project from an environmental standpoint. Applicants having projects in the latter state of design or with final drawings completed are urged to review all aspects of project design and development for compatibility with environmental standards.

Environmental standards with respect to project design must meet Federal, State and local requirements, and where Federal, State or local environmental codes and ordinances may differ, the most severe standards must be incorporated into the project design.

Although many, if not most, design standards and other environmental requirements in connection with development of the project will be met through compliance with published rules, regulations, codes and ordinances, certain environmental considerations relative to the project will call for the use of subjective judgment on the part of applicants.

Tentative
UNIVERSITY OF MINNESOTA
School of Nursing

B. Redman
March 29, 1974
Revised May 6, 1974

Building Plans

Long Range Projections (1975-1985)

Long range goals of the School, which were influenced by the Regent's Mission Statement*, produce needs for space that are quite different in scope and character from those of the past. Those changes and their implications for space are outlined below:

Changes	Space Implications
1. Appointment of clinical faculty, most of whom will have a primary affiliation with a health care agency. These people are crucial to the link between the School and the Community, including the community of practioners.	1. There are likely to be at one time, 25 clinical faculty active in the School's instructional program. Since their appointment requires commitment to participate in School programs of teaching, service and research, they will need to have limited office space on campus (13 double office).
2. The School is now doing a considerable amount of demonstration project work as part of its instructional mission and of its service mission to other schools.	2. It is likely that at any one time there will be three - four such projects going on, requiring office space for an additional 15 persons: 3 work rooms to be used for instructional material development, simulated clinical testing, and conference room.
3. There will be increasing numbers of learners, participating in both continuing education and degree credit offerings, who will study independently in other geographic areas and come to the Mpls. campus for concentrated instruction. This kind of model is essential to serving the learners and to goals of upgrading preparation of health care workers in all parts of the state and region. For example, the following instructional programs might well be offered on a rotating bases if only using the independent study - on campus intensive experience.	3. In addition to extra demands made on classroom and learning lab space, carrel (50), small group (8), and lounge space is essential to optimizing these students' time on campus. The space will be used continuously, through careful scheduling of offerings.

*"Health Sciences Mission Statement and Proposed Structural and governance", July, 1970

model:
- Intensive preparation to be a faculty member in a school of nursing
- Preparation and update for role of nursing school administration
- Think Tank for Nursing Leaders
- Preparation and update for clinical nursing roles such as the following:
  - nurse midwifery
  - mental health clinician
  - respiratory nurse clinician
  - CCU clinician
  - nurse perinatologist
- Portions of baccalaureate or masters preparation in which intensive on-campus experience is desirable.

4. Because of the expansion of the nursing role and the number of tools which nurses now need to learn, the old "nursing arts lab" concept has to be completely re-thought. It is essential to provide space for learner practice and for testing in simulated clinical situations. This space has to serve not only degree-bound students but also many more continuing education students who need to learn these skills for the first time or for update.

4. Labs should be organized by the type of nursing function and all equipped with TV
   A. 1 Critical care lab
   B. 2 Intermediate Care Labs
   C. 2 Helping relationship labs for observing, assessing and intervening with groups of patients.
   D. Lab space with 25 individual spaces for observation, assessment and intervention with individual patients.
   E. 1 lab for all kinds of assessment and intervention with children.
   F. Adult Health Assessment Lab
   G. A central learning center is crucial for viewing of instructional materials and immediate practice. This does not replace use of the Learning Center in B-C but rather is used for testing and instruction directly related to activities in the lab - for example AV testing to see if student has competency necessary to enter the lab instruction for the day.

5. Nursing Clinics. There are a number of services, especially in the area of health, promotion, that can be operated independently by nursing or in conjunction with other disciplines. In addition, faculty members often carry patients on a long term basis and need a place where they can see them. Examples: family therapy, gross screening and promotion of growth and development in children, patient education.	5. Clinic activities could be scheduled on different days of the week so that facilities would be most fully used. 3 rooms the size of large private offices, where nurses would work with 1-2 patients at a time. 2 rooms for small group teaching also to be used as a staff conference room. A reception desk. These kinds of services are essential for teaching of nursing students.

Enrollment Projections

		1975	1978	1980	1982	1985
Enrolled on Minneapolis Campus						
Undergraduate program		450	450	450	450	450
Graduate program		100	120	150	200	220
Total		550	570	600	650	670
Continuing Education students on campus some of the time		100	200	200	200	200
Degree-bound students in off-campus centers returning to campus for concentrated experiences		50	100	150	100	100
Total		150	300	350	300	300
Projected Teaching faculty numbers	U.G.	30	30	30	30	30
	Grad.	15	18	22	30	33
	CE	2	3	3	3	3
Faculty to teach off-campus degree bound students (These would be figured in with the degree level in which they fit.	approx.	2	3	4	3	3
		49	54	59	66	69
Professional Administrative staff		4	4	4	5	5
Core Civil Service staff (excluding center and project civil service staff)		6	7	7	8	8

Space Implications

Each staff person needs to have a private office and telephone answering services. 5 conference rooms will be necessary for staff activities. All classrooms should be available from a central source, except those special purpose areas outlined elsewhere in this document.

<table>
<tr><td>Adult Health Assessment Lab</td><td>Intermediate Care Labs</td><td>Critical Care Lab</td></tr>
<tr><td rowspan="2">Helping relationship group Labs</td><td>Learning Center Print, Non-print for 8 instructional tasks</td><td>Children Lab</td></tr>
<tr><td>Individual Labs</td><td>Helping Relationships</td></tr>
</table>

Permanent Instructional Labs

	Space Research
6. A commitment to research in nursing The School has recently been awarded a Faculty Research Development Grant by which the faculty will begin to develop their own research interest. As these interests develop there will be increasing space requirements for their research.	Office space for six, modular laboratories for six and a large conference room.
Plans are in the process for the development of a nursing research center within 3 to 5 years. The center would provide the support system necessary for long term commitment to nursing research.	Office space for 4, laboratories for 4, 2 conference rooms.
	Space
7. Service to Community Center. Often, health care agencies wish to receive consultation from the School and if the request meets the goals of the School as well (policies re this to be developed by the Public Service Committee), projects will be accepted.	Office space for 4 individuals, 2 conference rooms for 10 people each.
8. Student space Separate Locker rooms are needed for women and men.	Women's locker room for all female Sophomore, Junior, Senior and Graduate Students equipped with: 1. lockers for clothes (uniforms, coats, boots), books, purses: 2. dressing room for changing clothes--mirrors, chairs or benches: 3. rest room with stools, lavatories, mirrors. Men's locker room (currently 18 men are enrolled and the number is rising) equipped with chairs or benches, and rest room.
A commons room for undergraduate students to gather in small groups in out-of-class hours, to talk, to relax, or for student committee meetings.	A lounge, open to both women and men, with upholstered furniture, tables and straight chairs, sink, coffee making facilities pop vendor. Telephone.
Quiet study rooms - each to serve 10-12 students at one time.	3 rooms for undergraduates with library tables and chairs, 4 students per table. 1 room for graduate students.
Mail boxes for students	
Separate bulletin boards for:	1. Graduate students 2. Seniors, 3. Juniors, 4. Sophomores 5. RNs 6. Student government 7. student organizations 8. Messages and notices

School of Nursing Committee

9. Admissions and Records space:

A conference room is needed where faculty can brief groups of prospective students about undergraduate and graduate programs. The room could also be used by faculty committees who work on admissions and on scholastic standing.	Room to seat 20-25 informally. Screen, projector hookup. Bulletin board for displays. Bookcase with literature for handouts. The room should be located near the admissions and records staff offices.
10. Placement Office	Computer access terminal
Information center about the use of the computer job matching service for students in the health sciences.	Desk Shelves for supplies Telephone

BR: scg
5/7/74

funding file Unit F.

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

JUL 3 1975

Unit 7 - N.E.Pr.

Our Reference: 05C000077-01 NUC05

Clinton T. Johnson
Assistant Vice President
Business Administration and Treasurer
University of Minnesota
302 Morrill Hall
Minneapolis, Minnesota 55455

Dear Mr. Johnson:

I am pleased to inform you that the National Advisory Council on Nurse Training has recommended approval of your Construction Grant application, 05C000077-01 NUC05, at its June, 1975 meeting.

We wish to call to your attention that the purpose of this letter is only to inform you of the Council's action and is not a notification of award of funds. Many factors, such as the number and the priority rating of other approved applications and the amount and availability of Federal funds, influence the order and timing as well as the amount of the actual awards.

If you authorize your architect to proceed with preliminary and/or working drawings, please advise the Regional Office, Facilities Engineering and Construction (ROFEC). They must approve preliminary and working drawings and contract documents.

Ms. Susan Dudas, Nursing Consultant, will be contacting you regarding any administrative details still pending on your application. If you have any questions, please feel free to call Ms. Dudas at 312/353-1761.

Sincerely yours,

M. Ethel Payne
Chief, Health Manpower Branch

cc: Dr. Isabel Harris
Dean, School of Nursing

HSAE		
REC'D	7/[illegible]/77	
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HCA	KP	
FILE	04.33	

MEMORANDUM
7/5/77

TO: Lyle A. French, M.D.
Vice President for Health Sciences

FROM: Irene G. Ramey, Dean
School of Nursing

RE: Research Space for School of Nursing in Unit F

Recent discussions with the architects regarding research space in Unit F for the School of Nursing have not lead to resolution of the question of adequate space for research. The space was reduced last year when it was relocated from the first to the second floor.

Not only was there under-planning for this to begin with, but now there is a reduction from the amount of square footage designated in the grant proposal. In retrospect, I regret very much that nursing consultants were not brought in to assist in that planning in early 1975.

The needs for space for conducting research, and for support staff (research assistants, secretaries, etc.) are increasing steadily in the school. Attached is a table listing present, and projected nursing faculty and staff for the 6th and 7th floors of Unit F which shows the number of research associates, assistants and secretaries now on grants, and the number projected for 1978-79. Attached also is a new listing of space needs for the next 3 years for research projects, some of which have been funded, and others which are being developed. A total of 26 projects are listed which include space needs for 18 project directors, 46 research associates and assistants, and 19 secretaries.

If no additional space can be wrung out of Unit F, I hope that space elsewhere in the Health Center can be made available, beginning this fall or early spring at the latest.

Enclosures

PRESENT AND PROJECTED NURSING FACULTY & STAFF FOR OFFICES ON 6TH AND 7TH FLOORS OF UNIT F

	Present 1976-77			Projected 1978-89	
Undergraduate Faculty				46	= 70
Graduate Faculty				24	
Total head count	~~61~~*	+19	=	80	- (NOT INCL. DEANS.)
FTE FULL TIME EQUIV.	57	+13	=	~~70~~ 75	
Full-Time	49	+21	=	70	
Part-time	12	-2	=	10	
Research Assistants & Associates	6			30	
Secretaries 0100 (PERMANENT STAFF)	3*			4	
Secretaries (Grants)	8			15	
Clinical Appointments	4			5-10	

*This does not include administrative staff nor secretaries working for deans or in Admissions & Records Office. (FLOOR 5)

16R
6/30/77

SPACE NEEDS FOR RESEARCH

1. Albrecht, Marie
   -Interventions for Widowed Persons- $ 30,050 3 years

   Staff: 1 Project Director
   1 Secretary

   Space needs: 1 office for each of the two above mentioned.
   Laboratory space

---

2. Anderson, Janice
   -Nursing Children: Cancer Therapy
   and Body Change- $183,238 3 years

   Staff: 1 Project Director
   2 Research Associates
   1 Secretary

   Space needs: 1 private office for secretary
   1 office for project director
   1 office for research associates
   Laboratory space

---

3. Burns, Kenneth
   -Behavioral & Psychological Changes
   after Vasectomy- $ 13,850 1 year

   Staff: 1 Project Director
   1/2 Secretary
   Laboratory space

---

4. Crisham, Pat
   -Nursing Intervention with Suicidal
   and Depressed- $ 30,000 1 year

   Staff: 1 Project Director
   1 Secretary

   Space needs: 1 office
   Laboratory space

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5. Lundin, Dorothy
   -Medication Taking of the Independent
   Elderly- $100,000 3 years

   Staff: 1 Project Director
   1 Research Associate
   1/2 Secretary

   Space needs: 2 offices
   Laboratory space

6. Martinson, Ida M.
-Home Care for Child with Cancer- $250,000 3 years

Staff: Principal Investigator
4 Consultants
7 Staff Members

Space needs: 1 private office for secretary
3 offices, each with 2 desks
1 conference room for staff meetings, consultant and principal investigator use, interviews with 35 families per year, averaging 8 interviews per family, other general use.

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7. Martinson, Ida M.
-Psychological Impact of Childhood Cancer- $135,000 2 years

TOTAL STAFF OF 13 (PROJECTS 6-8)

Staff: 1 Secretary
1 Project Director
1 Psychiatric Nurse

Space needs: 3 offices

---

8. Martinson, Ida M.; Reese, Carol; Jorgens, Carol
- Nursing Support for Parents of Children with Cancer- $270,000 3 years

Staff: 1 Secretary
5 Staff Members

Space needs: 1 private office for secretary
3 offices for 5 staff members
1 conference room to be shared with Supplement to Faculty Research
Laboratory space

NOT FUNDED

9. Martinson, Ida M.
- Supplement to Faculty Research- $ 90,000 2 years

Staff: 2 Research Associates

Space needs: 2 offices plus conference room to be shared with staff of Nursing Support for Parents of Children with cancer.
Laboratory space

9B MARTINSON, IDA M. $400,000 5 YEARS
-FACULTY RESEARCH (CONSULTANTS TO FACULTY RE RESEARCH)
STAFF: 5 + IDA

SPACE: 4 OFFICE
1 SEC
1 CONF (10 PERSONS)

10. Maykoski, Kathleen
-Effect of Relaxation Techniques on Control in Stable Adult Onset Diabetics- $ 40,000 2 years

Staff: 1 Project Director
1 Research Assistant
1/2 Secretary

Space needs: 2 offices
Laboratory space

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11. Plawecki, Judy
-Attitudes & Behaviors of Nursing Personnel Toward Hospitalized Mentally Retarded Children- $ 15,000 1 year

Staff: 1 Project Director
1 Secretary

Space needs: 2 offices

---

12. Ramey, Irene G.
-Development of Plan for Nursing Education & Nursing Service- $1,500,000 3 years

Staff: 10 persons

Space needs: 6 offices
Conference room

---

13. Rising, Sharon
-Consumer Satisfaction with Health Care Delivery System- $100,500 3 years

Staff: 1 Project Director
3 Research Associates
1 Secretary

Space needs: 5 offices
Laboratory space

---

14. Rode, Sally
-Longitudinal Nursing Intervention with Birth Defects- $105,920 3 years

Staff: 1 Project Director
2 Research Associates
1/2 Secretary

Space needs: 3 offices
Laboratory space

15. Ryden, Muriel
-Self Esteem, Locus of Control & Changing Life Events in Cancer Patients — $150,000 — 5 years

Staff: 2 Research Associates

Space needs: 1 office
Laboratory

---

16. Sime, Marilyn
-Entering Behavior Project- McKnight Grant — $ 45,865 — 2 years

Staff: Secretary - 1/2 time
Research Fellow - 1/2 time

Space needs: 1 office for staff
1 work/storage space
1 interviewing room

---

17. Sime, Marilyn
-Relationship of Preoperative Information to Recovery from Surgery
(grant-in-aid Graduate School -- potential federal funding) — $150,000 — 3 years

3,000 FUNDED NOW

Staff: 1 Secretary
1 Project Director
2 Research Associates
+ 2-3 Faculty

Space needs: 1 office for secretary and storage
2 offices for research associates
1 office for work space for faculty

---

18. Snyder, Mariah
- Knowledge of Nursing Care for Seizure Patients- — $ 60,000 — 2 years

Staff: 2 Research Associates
1/2 Secretary

Space needs: 2 offices
Laboratory space

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19. Urueta, Romana
- Health Education Program between Students in Health Professions and Field Elementary School Children- $ 15,000 1 year

Staff: 1 Research Associate

Space needs: 1 office

---

20. Egan, Ellen
-High Risk Infant's Impact on the Family- $ 732,048 3 years

Staff: 9 Staff Personnel

Space needs: 2000 sq. ft. for staff personnel, conference room and work room. (No on campus space required)

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21. Harris, Isabel
-Aging: Needs of Never Married Women- $ 90,000 3 years

Staff: 1 Project Director
1 Research Associate
1/2 Secretary

Space needs: 2 offices

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22. Bossenmaier, Monica
-Aging: Intergenerational Family Living- $ 90,000 3 years

Staff: 1 Project Director
1 Research Associate
1/2 Secretary

Space needs: 2 offices

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23. Taylor, Gene
-Aging: Supporting the Supporters of the Elderly $ 90,000 3 years

Staff: 1 Project Director
1 Research Associate
1/2 Secretary

Space needs: 2 offices

---

24. Ryden, Muriel
-Aging: Growth in Senior Years (Psycho-Social) — $ 90,000 — 3 years

Staff: 1 Project Director
1 Research Associate
1/2 Secretary

Space needs: 2 offices

---

25. Anderson, Janice
-Aging: Perceived Strength of Senior Citizens (Psycho-Social) — $ 90,000 — 3 years

Staff: 1 Project Director
1 Research Associate
1/2 Secretary

Space needs: 2 offices

---

26. Clatworthy, Stephanie
-Anxiety of Hospitalized Children- — $ 50,000 — 2 years

Staff: 1 1/2 Research Assistant
1/2 Secretary

Space needs: 2 offices

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
REGION V
300 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

PUBLIC HEALTH SERVICE
Div. Resources
Development

Our Reference:
05C000063-01 PEC05

JUL 21 1975

Mr. Clinton T. Johnson, Asst. Vice Pres.
Business Admin. and Treasurer
University of Minnesota
302 Morrill Hall
Minneapolis, Minnesota 55455

Dear Mr. Johnson:

We are pleased to advise you that your construction grant application for assistance in fiscal year 1975 for the development of all purpose facility has been approved and placed on the Active Funding List, in an amount not to exceed $4,288,811 for the School of Pharmacy.

Such advice of approval and placement on the Active Funding List should not be construed as the Notice of Grant Award. This letter constitutes an assurance that the grant funds specified above are available for obligation and have been reserved for the funding of your project, contingent upon the compliance with all Program Regulations, policies, and procedures, including the availability of matching funds and environmental clearance. Also the project must be developed to the point of construction bid advertising within twelve (12) months from the date of this letter. The construction grant will be offered after (1) the results of bidding have been obtained; (2) the Construction Project Cost Report (PHS-6008-2) has been submitted; and (3) the Federal concurrence to award the construction contract has been issued.

It is requested that you advise us within 30 days from the date of this letter, your acceptance or declination. If we have not received a response, then we will remove your institution from the Active Funding List.

Upon receipt of your letter accepting the grant commitment, we will contact you at an early date to arrange a meeting at which time we will discuss procedures relating to federally assisted construction and provide you with a Program Guide, and the applicable Minimum Standards of Construction.

Please do not hesitate to communicate with this office or my staff, if any questions should arise in connection with your project.

Sincerely yours,

Catherine T. Bartley, Chief
Grants & Contracts Management Br.

cc: V.E. Scott, Federal Projects Coordinator
Robert F. Hendrickson, Ph.D., Ed. Specialist

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
Box 75 Powell Hall
4103 Powell Hall
Minneapolis, Minnesota 55455
(612) 373-8981

August 4, 1975

Mr. John Scott
The Architects Collaborative
46 Brattle Street
Cambridge, Massachusetts 02138

Subject: Unit F and Jackson/Owre/Millard/Lyons Remodeling

Dear John:

The above subject projects have been approved by HEW and placed on the active funding list. These two projects must be developed to the point of construction bid advertising by July 21, 1976.

Unit F - Health Sciences Total project estimated $20,948,938.
Federal Project #05C000063-01-HP 05000077-01-N

Funding:	$318,000	State Appropriation '69
	1,351,400	State Appropriation '71
	4,288,811	Federal Grant - Pharmacy
	4,395,412	Federal Grant Request - Nursing
	10,595,315	Proposed '76 State Legislative Request
	$20,948,938	

Remodeling - Jackson/Owre/Millard/Lyons - Total project est. $7,499,488.
Federal Project #05C000070-01

Funding:	$200,000	State Appropriations '73
	2,362,338	Federal Grant '75
	4,937,150	Proposed '76 State Legislative Request
	$7,499,488	

The above obviously dictates the development of a rigid design schedule we must all adhere to. Therefore please indicate in writing your acceptance of these projects, design schedule, funding schedule required between now and July 21, 1976, and your key personnel for each project.

AUG 29,1975

Item I UNIT F $11,014,727

HISTORY

1969 State Appropriation	$ 318,000
1971 State Appropriation	1,351,400
1975 HEW grant commitment - Pharmacy	4,288,811
1975 HEW grant commitment - Nursing	3,976,000

DETAIL OF THIS REQUEST

Funds are requested for constructing and equiping Unit F. East This structure will consist of eleven floors of space located directly ~~north~~ of and adjoining Unit A. Three levels are below grade. The building will house the College of Pharmacy and the School of Nursing. Through Unit A, Pharmacy and Nursing will have direct access to the remainder of the Health Sciences Center.

The building will have an assignable net square footage of 111,584. The Pharmacy program requires 50% of the total assignable square feet or 56,384 n.s.f. A 37,457 net assignable square footage area will house the School of Nursing program and classrooms. Auditorium and other spaces designed for sharing by all Health Sciences students in accordance with the concept of the Master Plan and implemented in Unit A and B/C, are contained in the remaining 17,743 n.s.f.

BASIS FOR REQUEST

The concept of the Master Plan developed for the expansion of the Health Sciences responded to the University's goal of physical and curricular integration of the Health Sciences educational programs.

An updating of the Master Plan and a decision to consolidate the School of Nursing and the College of Pharmacy resulted in a strong interdisciplinary program and plans for the joint use of the resources in Unit F.

As a major component of the health sciences facilities expansion, the plan for consolidating the facilities for Nursing and Pharmacy enabled the Health Sciences to successfully compete for federal construction funds for this project.

The present College of Pharmacy facility (Appleby Hall) is a renovated School of Mines building, located several blocks from the Health Sciences Center. All available stockroom, classroom and ends of corridors in the present building have been converted to faculty offices and laboratory use. Interim facilities are being provided in an old apartment building on the Unit F site to house Pharmacy Administration faculty, graduate programs, the Doctor of Pharmacy Program, a number of clinical faculty, and the continuing education staff.

The School of Nursing is housed in Powell Hall, an early 1900 dormitory facility. Remodeling efforts over the years have not rendered the building appropriate for academic programs. Basic necessities such as lighting levels must be constantly updated. No learning resources capability exists. Because of the inadequate space, some faculty are housed in another building and students are fragmented throughout the Health Sciences. Additional interim space is being arranged in a third partially converted dormitory for some faculty.

COST ESTIMATE

Construction	$15,757,517
Non-Building Costs	5,191,421
TOTAL	20,948,938
Less 1969 Legislative appropriation	318,000
Less 1971 Legislative appropriation	1,351,400
Less 1975 HEW Pharmacy grant commitment	4,288,811
Less 1975 HEW Nursing grant commitment	3,976,000
TOTAL THIS REQUEST	$11,014,727

Construction costs are estimated at $73.97/g.s.f. for 213,039 g.s.f. and $141.22/n.f.s. for 111,584 n.s.f. mid-construction date July, 1977.

SPACE RELEASED FOR OTHER USE

Appleby Hall will be released for non-health related assignment by administration.

The portion of Powell Hall vacated by the School of Nursing will be available for re-assignment.

DEPARTMENT OF HEALTH EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
HEALTH RESOURCES ADMINISTRATION
BETHESDA, MARYLAND 20014

September 18, 1975

Our Reference: 05C 000077-01

DATE	SEP 22 1975
CH	
J.E.B	9/25
FILE	✓

Please Return

Dr. Clinton T. Johnson
Assistant Vice President
University of Minnesota
302 Morrill Hall
Minneapolis, Minnesota 55455

Dear Dr. Johnson:

We are pleased to advise you that the construction grant application for assistance in the development of an education building for the school of nursing has been approved and placed on the Active Funding List, in an amount not to exceed $3,976,557.

This letter of advice should not be construed as the Notice of Construction Grant. It constitutes an assurance that the grant funds specified above are available for obligation, and have been reserved for the funding of the above referenced project, contingent upon the compliance with all program regulations, policies, and procedures, including the availability of matching funds and environmental clearance. Also, the project must be developed to the point of construction bid advertising within twelve months from the date of this letter.

The construction grant will be offered after (1) the results of bidding have been obtained; (2) the Construction Project Cost Report (NIH Form 249-2) has been submitted; and (3) the Federal concurrence to award the construction contract has been issued.

Upon receipt of your letter accepting the grant commitment, we will contact the appropriate DHEW Office of Regional Operations Facilities, Engineering and Construction, to request that a meeting be arranged with you to discuss procedures relating to federally assisted construction.

Please let me know if any questions arise in connection with the project.

Sincerely yours,

Jessie M. Scott
Assistant Surgeon General
Director
Division of Nursing

cc:
Dr. Isabel Harris, Dean, School of Nursing
Mr. Melvin Fisher, Regional Engineer, ROFEC/DHEW

copy to A. H. Chase

MINUTES OF

UNIT F USER MEETING

DATE: SEPT 8, 1975

PLACE: 4112 Poh

PRESENT: Dean Reamey - Paul Sodergren - Sheila Corcoran - Gary Zaworski

SUBJECT: User meeting - Faculty representative

This meeting was a basic fact finding session:

Mr. Zaworski gave a background summary of Unit F.

Mr. Zaworski identify the Unit F faculty representative responsibility and duty.

A general discussion of the responsibility followed.

It was established that Sheila Corcoran would represent the School of Nursing.

MINUTES OF

UNIT F USER MEETING

DATE: SEPT 9, 1975

PLACE: 4112 Poh

PRESENT: Dean Ramey - Paul Sodergren - Sheila Corcoran - Gary Zaworski

SUBJECT: User meeting - Proceeder

This meeting was a basic fact finding session:

Mr. Zaworski gave a summary of the Unit F building schedule.

A general discussion of key date in the scheduled followed.

It was established that all meeting would be schedule through the H.S.P.O. and that all information and question should be direct through and toward the H.S.P.O. from the SChool of NUrsing.

UNIVERSITY OF MINNESOTA
TWIN CITIES

Office of the Assistant Vice President

Physical Planning
340 Morrill Hall
100 Church Street S.E.
Minneapolis, Minnesota 55455

file
Hewitt 7
adv. comm

September 12, 1977

TO: Cherrie Perlmutter

FROM: Clint Hewitt

As I indicated last week, my review of the Pharmacy/Nursing plans with Vikmanis went very well and he appeared satisfied with the progress we have made to date. He, however, made a special point of questioning the number of offices that have been assigned to the School of Nursing. He felt that there had not been an occupancy accounting for all of the offices that are being planned.

I think you and I should sit down with Dr. French to discuss this issue which potentially could be a real problem; especially if we proceed to increase the number of faculty offices for Nursing. It's very crucial that we reach a resolution as soon as possible.

CNH/kh

cc: Dr. Lyle French

MINUTES OF

UNIT F USER MEETING

DATE: SEPT 15, 1975

PLACE: 3303 Poh

PRESENT: Dean Ramey - Paul Sodergren - Sheila Corcoran - Gary Zaworski

SUBJECT: User meeting - Grant review

This meeting was a basic fact finding session:

Mr. Zaworski summarized the Grant and H.S.P.O. planning approach.

A general dicussion of the grant followed.

A dicussion of existing condition and location of the present facilities followed.

It was agreed to meet later to continue a review of the Grant and the dicussion of the function, activities and the relationship to other units of the School of Nursing.

Ray Buchanan Woodcock Dudora

- as of grant proposal
- reduced size (grant proposal)
- Option E ↑ #
- Current

UNIVERSITY OF MINNESOTA
HEALTH SCIENCES EXPANSION
PHARMACY/NURSING FACILITY

PROJECT NUMBERS: 05C 000063-01 Pharmacy
05C 000077-01 Nursing

R.O.F.E.C. MEETING
20 September 1977

Rae

AGENDA:

10:00 A.M.
300 MORRILL HALL

1. Introduction of Participants
2. Intent of Meetings - advise HEW of project status thru review of Design Dev. Doc. and Contract Documents for ECX Const. package
3. Overall H.S. Project History
   - .1 Master Plan Components - General Description Site Plan.
   - .2 Components Implemented - completed or under construction.
   - .3 Description of Bldg. Framework and Systems.
   - .4 Utilities - Description of H.S. Central Plant.
   - .5 Expansion -
4. Pharmacy/Nursing Facility
   - .1 Funding History - # Grants, Extension, ?
     - Federal
     - State
   - .2 Project Description - General Review
     - Program - Space Tabulation by Program
     - Building Organization by Function -
       - Site Plan
       - Section
       - Floor Plans
     - Occupancy Classification
       - Rated Partitions Plan
   - .3 Project Schedule - (General Review)
     - Phased Construction Sequence & Contracts
     - Target Dates
   - .4 Project Costs - (General Review)
     - ~~Construction~~
     - ~~Non-Construction~~

12:00 - 1:30 P.M. 5. Adjourn for Lunch

1:30 P.M.
POWELL HALL

6. Separate Review Meetings to be Scheduled for Afternoon/Participants

.1	.Program	Dean Ramey, Dean Weaver, Cherie Perlmutter
.2	.Architectural	K. Rogness, H. Zinter, J. Scott, P. Maupin
.3	.Engineering	G. Hall
	Mech/Elec.	H. Wilcox
.4	.ECX Contract Documents	D. Blanchard
	Plans	
	Specs.	

State of Minnesota
HOUSE OF REPRESENTATIVES
MARTIN OLAV SABO, Speaker

STATE CAPITOL
ST. PAUL, MINNESOTA 55155

September 23, 1975

Mr. James F. Brinkerhoff, Vice President
Finance, Planning and Operations
University of Minnesota
301 Morrill Hall
Minneapolis, Minnesota 55455

Dear Mr. Brinkerhoff:

I would like to receive from your office the following information concerning the University's building requests to the 1976 Legislature.

Pharmacy and Nursing

1. Total cost and source of funds.
2. Proposed space in new building--gross and net assignable square feet.
3. Cost per N.A.S.F. and G.S.F.
4. What was the rationale or formula used in determining space needs?
5. Type and amount of space in proposed building, i.e., classroom, office, etc.
6. Total gross and net assignable square feet presently occupied by each program.
7. Type and amount of space in existing facilities.
8. Enrollments in pharmacy both by headcount and FYE students for past 5 years.
9. Utilization rate of present space.
10. What will released space be used for?

Pharmacy and Nursing (continued)

11. Will released space require any remodeling?

12. If yes, at what cost?

13. Number of faculty and support staff.

The above information should be provided separately, where appropriate, for Pharmacy and Nursing.

Remodeling of Jackson, Owre, and Millard Halls

1. Total cost and source of funds.

2. Total gross and net assignable square feet in Jackson, Owre, and Millard.

3. Present assignment of existing space.

4. Amount of gross and net assignable square feet scheduled for remodeling in each building.

5. Cost per N.A.S.F. and G.S.F.

6. What was the rationale or formula used in determining the amount of space to be remodeled as well as the total space needed?

7. Specific purpose for which space will be remodeled, i.e., laboratories, classrooms, offices, etc.

8. Amount and type of space presently assigned to Basic Sciences in Unit A, Unit B/C, Jackson, Owre, Millard and any other locations.

9. Enrollments in headcount and FYE for past 5 years.

10. Utilization rate of present space.

11. Number of faculty and support staff.

First part of [illegible] 7

I would also like to review the requests for the Minneapolis and St. Paul heating plant conversions with you or members of your staff and visit both heating plants as soon as possible.

If you have any questions regarding the above requests please let me know.

Sincerely,

Vic Vikmanis
Legislative Fiscal Analyst

cc: Fred Norton
Howard E. Smith
George Robb

NURSING ADMINISTRATION

Student Records

Registration

Admissions

Advisement

G. Park

I. LAYOUT

Offices requiring entrances on major student traffic corridors:

Registration and Student Records Office

Admissions Office

Continuing Education Office

Offices that students will be visiting regularly:

Advisement Offices (n = 5)

All other offices may open on interior corridors

Connecting suites of offices:

Student Records Office
Records Workroom (perhaps not connected directly)
Admissions Workroom
Copy Machine Room
Audio-Visual carrels

Data Processing Room
Keypunch Room
Conference Room

The suite containing the Registration-Records-Admissions offices should be entered from the main corridor and at the back have an interior corridor which leads to the offices of the Registrar and the Director of Admissions.

II. FACILITIES AND FUNCTIONS

A. Registration and the Student Records Office (20' x 30')

(The design is similar to the one in Dentistry)

Entrance on a main corridor -- preferably opposite elevators
Exit leads to an inter ior corridor which serves the offices of the Registrar and the Director of Admissions
Also a door leading to the data processing suite
Private corridor leads to the Copy Room and beyond to the Admissions Workroom

File cabinets along 20' of wall behind the 3 desks for clerks
Seating along the walls in an "L" shape, low table in corner
Table for faculty to study student records
Desks for 3 clerks, with typewriters

1. Info on Graduate Programs and admissions
   Registration of enrolled graduate students
2. Info on Undergraduate admissions
   Registration of Sophomores
3. Secy. to Registrar
   Registration of Seniors and Juniors

Bulletin boards on walls behind the 2 tables in a corner.
Tables (2) to seat 11 people for writing registration materials.

B. Records Workroom (10' x 15')

Shelves on one wall for books, 10" deep
File cabinets along 10' of wall space
Table and chairs for faculty to use the records and for the Registrar to use to prepare reports, etc.
Table on which to put the microfiche reader--used by staff and faculty
Microfiche storage cabinet

C. Admissions Workroom (10' x 15')

Desks for receptionist and a secretary, with typewriters
Work table for processing admissions applications

An adjacent room equipped with 3 carrels in which to view and listen to information about admissions and nursing--slides and tape

D. Copy Room (10' x 10')

Does not open directly on records office, but on a private corridor between the records office and the admissions workroom
Equipped with a Xerox copier and a table
Shelves on the wall to store stationery

E. Data Processing Room (20' x 10') Secure Area -- limited access

Computer terminal
Storage of IBM cards
Desk
Table for a work area

Adjacent to the Keypunch Room, connecting door

F. Keypunch Room (10' x 10') Sound insulated

Keypunch machine
Verifier
Desk
Card cabinet for storage of IBM cards
Print out rack
Sorting machine (space for one)
Table for a work area

G. Registrar's Office (10' x 10')

H. Office of Director of Admissions (10' x 10')

I. Advisement Offices (n = 5, each 10' x 10')

These offices may be placed wherever they fit on this floor.

J. Continuing Education Office

Entrance on a major corridor
For giving information and registering students after hours

Georgia Park

Sept. 26, 1975 School of Nursing

Administration — Lounges, [redacted], staff, and faculty

Assumption: space to be shared with faculty + staff of Pharmacy

I FUNCTION

Socializing, bag lunches, coffee breaks

Light reading, such as MinnDaily, mpls newspaper, Chronicle of Hi Ed. other general periodicals

Special occasion receptions and casual entertaining of general interest

II ACTIVITIES

Socializing + relaxing

Eating

Receptions for visiting prospective faculty

~~Small group meetings~~

III RELATIONSHIP TO OTHER UNITS

Shared with Pharmacy

Accessible to: {Nursing administration and faculty offices
{Pharmacy " " " "

IV PERSONNEL

Faculty + ~~staff~~ — both Nursing + Pharmacy

V SUMMARY OF REQUIRED SPACES

An adjacent small quiet room as a rest area

Rest rooms for women + men

Lounge area -- a rectangular space, with kitchen equipment segregated in some manner, but a pass thru for serving -- or similar device.

VI FUNCTIONAL DIVISION

→ Storage closet or small room for folding tables + chairs in reserve (see 555 Diehl for type needed).

Kitchen available also from main hall so that it may be used without passing thru the lounge area.

VII INTERNAL RELATIONSHIPS

VIII OTHER DESIGN CONSIDERATIONS (future) ?

Equipment: mini kitchen unit, ie refrigerator, sink coffee maker, hot plate

---

Lounges, student:

The general lounge on 2nd floor of "HSA" plus the study room near the first floor of "HSA" cafeteria will not be sufficient lounge space, when shared with all HS students. Will there still be a CHH Lounge somewhere? Some space for Nursing + Pharmacy students in the new bldg on 1st floor near coat checking needed -- with a non-pay outgoing phone for Nursing students to phone about their clinical ~~assignments~~ assignments off campus.

Special Requirements

Department: Administration

Sheet No.

Room Title: Lounge for Nursing & Pharmacy

Room No.

Room Function: Faculty ~~& N.S.F.~~

Vented kitchen

Lounge well ventilated because some people will smoke there.
How to deal with pipes and cigars?

Fixed Equipment

Carpet
Telephone - outgoing calls
Magazine racks
Counter in kitchen, Formica top
Mini kitchen unit (preferably one that may be easily relocated)

Movable Equipment

Lamps
Lounge furniture
Drapes
End tables
Eating tables to seat - various sizes round & square
1 intercom to receptionist
Pop vending machine
Paintings

Furnishings

Microwave oven
Canopener
Refrig with freezer space
~~Rug~~
Pictures for walls
Garbage can
Waste paper baskets

G Park

Nursing Administration

Reception Area near administrative offices

I FUNCTION

A waiting room for those having appointments with School of Nursing administrators

II ACTIVITIES

Sitting, reading

III RELATIONSHIP TO OTHER UNITS

Near information desk where receptionist is located who has intercom to secretaries to announce arrival of visitors & tell visitors when they may go in.

IV PERSONNEL

Visitors

V SUMMARY OF REQUIRED SPACES

VI FUNCTIONAL DIVISION

VII INTERNAL RELATIONSHIPS

VIII OTHER DESIGN CONSIDERATIONS

GPark

Special Requirements

Department

Sheet No.

Nursing Administration = Reception Area

Room Title

Room No.

Room Function

N.S.F.

Fixed Equipment

Magazine rack for display of School of Nursing bulletins & pamphlets

Movable Equipment

Portraits of past deans and directors

Large map of health science complex

Furnishings

Chairs + end tables

Lamps

Carpets

Drapes (if windows)

Waste baskets

Ash trays

G Park

Faculty Floor
Nursing

I FUNCTION

Bulletin boards

II ACTIVITIES

III RELATIONSHIP TO OTHER UNITS

IV PERSONNEL

V SUMMARY OF REQUIRED SPACES

VI FUNCTIONAL DIVISION

VII INTERNAL RELATIONSHIPS

VIII OTHER DESIGN CONSIDERATIONS

At different places where traffic will be heavy:

1. Bulletin board 4'x 10' for committee notices
2. " " " " professional notices
3. " " " ~~[redacted]~~ news items about faculty members, social events
4. " " 4'x4' -- ten of them scattered locations -- to be used to post information of interest to particular groups of faculty

G Park

Student Area on First Floor

Nursing

Student Services

Coat check facility, also to check purses

Bathrooms for women and men

Phone for placing outgoing calls so that students can call their clinical placement, call a babysitter, etc. Free.

Bulletin boards on different walls

Lounge area -- chairs and tables and lamps

J Park
9-25-75

MINUTES OF

UNIT F USER MEETING

DATE: SEPT 29, 1975

PLACE: 4324 Poh

PRESENT: Sheila Corcoran - Gary Zaworski

SUBJECT: User meeting - Unit F program working paper review

This meeting was a basic fact finding session:

A general review and discussion of all information gather by the faculty and staff for the program.

Then dicussed the various options involed in reguard to the function and relationship of the School of Nursing.

Agreed to meet again as soon as possible after this information was developed, with Dean Ramey and Paul Sodergren in attendance.

MINUTES OF

UNIT F USER MEETING

DATE: OCT 1, 1975

PLACE: 4112 Poh

PRESENT: Dean Ramey - Paul Sodergren - Sheila Corcoran - Gary Zaworski

SUBJECT: User meeting - Unit F working paper review

This meeting was a basic fact finding session:

All information gather by all department was review and discuss with the following in mind;

1. Function
2. Activities
3. Relationship to other units
4. Personnel
5. Summary of required space
6. Functional division
7. Interal relationships
8. Other design considerations

(see program working paper)

Mr. Zaworski presented various options that could be shared space between the two school.

1. Admissions and Records
2. Copyroom, workroom
3. Faculty lounge
4. Small conference room or interview room

The above was discuss and determine that Mr. Zaworski would voice the

OCT-9-1975

UNIVERSITY OF MINNESOTA
School of Nursing

MEMO

To: Sheila Corcoran
From: Karen Brand and Ida Martinson
Re: Additional Space for Research

In the attempt to plan research space that is sufficiently flexible to accommodate a wide variety of nursing investigations, the following functions and activities for the two rooms designated for research are offered for consideration.

It is suggested that one room have facilities for a controlled environment laboratory. The lab should have facilities and capabilities which permit the study of subjects experiencing altered temperature, auditory, visual, and social stimuli. The laboratory would require a control room or panel to adjust these conditions. It could be designed and equipped to accommodate varied investigations with minimal - if any - structural modifications. A laboratory of this type would allow for replication of studies in a controlled setting. Examples of nursing research requiring a controlled environment include:

- utilization of continuous physiological recordings to measure changing states of consciousness;
- effects of humidity and air temperature on subjects with COPD (chronic occlusive pulmonary disease);
- determination if specified information given during a period of sensory deprivation has more effect on subjects than the same information given under normal sensory conditions;
- confirmation of the slowing of Alpha waves in EEG recordings as a function of sensory deprivation and comparison of the relative decrements observed during repeated sessions of sensory deprivation on the same subjects;
- comparison of change in average body temperature following application of ice bags - or use of a hypothermia blanket;
- effects of sensory deprivation on behavior;
- effects of prolonged/continuous auditory stimuli or light intensities on behavior;
- changes in temporal experience/perception resulting from structure patterns in the auditory environment for persons on bedrest;
- measurement of restlessness for subjects confined to bed;
- effect of noise and heat on monitoring equipment and recording accuracy; assessment of factors that interfere with valid electrical measurement, artifacts in recording;
- effect of noise on EKG patterns; effect of white noise;
- effect of breathing and relaxation exercises on the number of PVC's evidenced in an apparently healthy person;
- body heat loss under various environmental conditions;
- relative probability of contamination in relation to various nursing procedures and equipment.

The second room designated for research purposes could accommodate inquiries relevant to human behavior other than those of a physiological nature requiring a controlled environment. The laboratory could be flexible and multi-functional that would permit studies of one-to-one and group interactions as well as provide space for interviewing, testing, and patient teaching. Of major importance would be the flexibility of the room such that simulated settings could easily be set up (e.g., living quarters, a children's playroom, a hospital room, a classroom). A necessary requirement for this room would be a one-way viewing window.

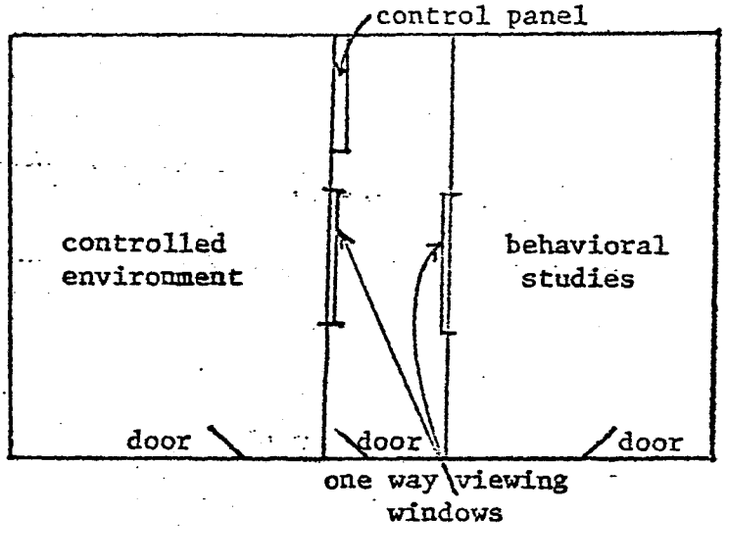
Examples of investigations which would be accommodated in this laboratory include:

- spacing behavior studies (i.e., the protective mechanism used to maintain boundaries between interacting persons);
- effects of a chronic illness or disability in a parent on young children;
- small group interaction studies to assess variables such as stress, coping mechanisms, tolerance levels;
- simulated living quarters in which rehabilitation equipment and structural modification needs can be assessed for handicapped subjects (e.g., paraplegics, quadraplegics, arthritics, amputees, CVA);
- study of parent-child communicative interaction patterns;
- study of effectiveness of patient teaching in groups vs. individual;
- measurement of subjects' ADL (activities of daily living) capabilities and limitations;
- study of psychological and sociological needs of patients receiving chemotherapy;
- effectiveness of support groups for: rape victims, parents after the birth of a defective infant, obese teenagers;
- exploration of interdisciplinary approaches to patient education;
- exploration of comfort-care measures for persons caring for a terminally ill family member;
- study of effective patient teaching methods (e.g., audiotape, reading material, familiarization with related equipment and procedures, oral presentations);
- study of communication processes of self action, interaction, and transaction;
- teaching of visually impaired diabetic children, self-administration of insulin;
- psychomotor skills;
- interviewing and testing former patients to investigate variables such as responses to illness, patient education, stress and anxiety.

In conclusion, the School of Nursing can expect a growing and diverse research program which will require flexible and functional laboratory space. A controlled environment laboratory and a behavioral studies laboratory would accommodate increasingly varied nursing investigations. Further, studies like those mentioned above cannot realistically be conducted in the skills and health assessment laboratories designed for classroom teaching because of the irregular and infrequent availability

of these teaching laboratories for ongoing research purposes. Without appropriate and adequate facilities for nursing research, researchers are severely limited in the type and scope of questions they can ask and explore.

A possible use of the space:



TO: Faculty

FROM: Sheila Corcoran, Faculty Representative on Unit F Planning Group

RE: Additional Data Needed

I need your help again!

In order to make more specific plans for the nursing portion of Unit F, the architects need information about each course. I'm contacting you as a representative of the faculty teaching the course identified on the attached form.

Please complete the forms by Wednesday noon, October 29th, if at all possible. We need to describe how space will be used, so please be as specific as you can.

If you have other information that you think might be helpful to justify our needs for amount and type of space, please add it at the end of the form!

Thanks! I know this is another rush job, but we have no choice if we want input.

10-24-75
SC:ls

Faculty Providing Data _____

1. Course #
2. Course Title
3. When is it offered?

Quarter	Day of Week	Hour of Day
Fall		
Winter		
Spring		
SSI		
SSII		

4. What is the average number of students taking the course? _____
5. What is the average number of faculty teaching the course? _____
6. Does the class meet as a whole? No _____

   Yes _____ How often? _____
7. Does the class meet in sections? No _____

   Yes _____ How often? _____

   # students/section _____

   # faculty/section _____

8. In the section below, please indicate the types of activities that take place during the class to accomplish the course objectives. In the space provided place

a - if the activity takes place almost every class

b - if the activity takes place during the majority of the class sessions

c - if the activity takes place a few times during the quarter

TEACHING STRATEGIES	STUDENT ACTIVITIES
_____ Lecture	_____ Listening to lecture
_____ Lecture-Discussion	_____ Small group work
_____ Discussion	_____ Small group discussion
_____ Work Groups	_____ Autotutorial Instruction
_____ Demonstration	_____ Skills Practice in a nursing laboratory
_____ Video taping	_____ One-to-One
_____ Other (Please specify)	_____ Group
	_____ Care of a Client in a Clinical Setting*
	_____ Independent Study
	_____ Other (Please specify)

* If the student activities include care of a client in a clinical setting, is space needed in the nursing building for pre and post conferences? _____ No

_____ Yes

If yes, for how many students? _____

How many groups? _____

What days? _____

What hours? _____

9. Please indicate the kinds of equipment and instructional materials used during the class. In the space provided, place an

a - if the materials are used almost every class

b - if the materials are used for a majority of the class sessions

c - if the materials are used a few times during the quarter

EQUIPMENT & INSTRUCTIONAL MATERIALS
_____ Video tape monitor
_____ Video tape recorder
_____ Overhead projector
_____ Movie projector
_____ Screen
_____ Chalk Board
_____ Cork Board
_____ P.A. System
_____ Podium
_____ Stationary arm chairs
_____ Movable chairs
_____ Stationary tables
_____ Movable tables
_____ Study carrels
_____ Demonstration Area
_____ Display Area
_____ Models
_____ Mechanical Equipment to (e.g., respirators, incubators, IV equipment, etc.)
_____ Other (Please specify)

10. As you think about the new facility, would faculty and students move from one geographic area to another within a given class period?

(e.g., meet in a large group and then break up into small discussion groups, or meet in large group for introductory portion and then go to bedside or taping room for practice)

_____ No movement

_____ Yes, there would be movement

Please describe.

10-24-75
SC:ls

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
Box 75 Powell Hall
4103 Powell Hall
Minneapolis, Minnesota 55455
(612) 373-8981

October 31, 1975

TO: Sheila Corcoran

FROM: Gary F. Zaworski

SUBJECT: Unit F Proposed Time Schedule for Fixed and Movable Equipment and Furnishing List Development

Over the next several months, my office will require detailed equipment lists, mechanical requirements, room layouts, etc. for all space in Unit F.

I am requesting that you coordinate, with the necessary faculty and staff, the development and/or updating of detailed equipment requirements for the School of Nursing facilities in Building F. These lists must be reviewed and approved by the Health Sciences Planning Office and forwarded to the architect. It is important that this time schedule be met so that the architectural layouts, for utilities and equipment, can be done as soon as possible enabling the equipment purchasing procedure to be initiated early to reduce inflationary factors.

The following items are included with this letter:

1. General information/procedure
2. Departmental room number listing
3. Floor plan (1/8") outlining departmental floor space
4. Detailed room plan (1/4") outlining fixed (Group I)/ moveable (Group II) equipment and the equipment's specific location within a specific room.
   (Note: Detailed room plans have not been prepared for all Unit F Rooms. Therefore, many of the departmental rooms may not at this time have 4 1/4" detailed room plan).
5. "Unit F equipment schedules - 1975"
   Forms to be completed by the department

Available funds for equipment may be greatly limited due to inflationary price increases. Note that the lists for movable equipment and furnishings equipment require that all new items to be purchased must be assigned a rank number based upon priority of need. An updated list of existing equipment that can be moved to Unit F is vital to ensure that the building's budget is not exceeded.

Please begin to develop and/or update all department equipment needs as soon as possible. Utilize the "Unit F equipment schedules - 1975" forms for this activity.

I will contact you and we will contact each department within the next few weeks to discuss these completed equipment lists. In the interim, please contact me if I can be of any assistance to you.

General Information/Procedure

A. Equipment Categories

Each department is requested to prepare three separate lists of all equipment requirements - (1) fixed, (2) movable and (3) furnishings. These equipment categories do not include minor equipment and supplies which normally are included in the departmental operating budget.

I. Fixed Equipment (Group I)

Fixed equipment includes all equipment being furnished as part of the general contract for construction and is primarily limited to items which are permanently fixed to the building. This category includes fixed casework, standard fume hoods, large sterilizers, glasswashers, environmental rooms and folding partitions (room divider).

II. Movable Equipment (Group II)

Movable equipment consists primarily of items not permanently attached to the building and fixed items not covered in the general contract.

Note: Furnishings are not to be included in this list.

Some examples of movable equipment include: exam tables, carts, tape recorders, tv monitors, standard wast receptors, towel and soap dispensers.

III. Furnishings (Group III)

The furnishings category consists of items that may be considered office type furniture (to include wastebaskets and clocks) for all rooms such as exam rooms, conference rooms, seminar rooms, reception/waiting areas and lounges.

B. General Procedure - Completion of "Unit F Equipment Schedules - 1975"
This form has been designed to facilitate transcribing the information into the computer. Proper use of the form will be of great assistance in this task.

The following information is requested.

1. Equipment Category:
Prepare a separate sheet for each category of equipment as noted in the top section of the form - fixed, moveable, furnishings. Check appropriate box.

2. Room number and room name:
List all equipment to be placed in a specific room - taking the rooms in numerical order.

3. Equipment Name:
Be specific and list all items required in each room. Include existing as well as new - need to purchase items. Give the general name of the equipment (eq. typewriter, utility cart, centrifuge high speed, and exam table-procto).

4. Equipment Description:
Give the company's name and up-to-date model number (this information is required for bidding procedures and for utility requirements).
Do not fill in this column for furnishings.
Use as many lines as necessary to fully describe an item. Skip a line between each item.

5. Architectural Equipment Number:
Refer to the detailed room plan (1/4"). In the equipment key section (right side of sheet), the "key no." is the same as the architectural equipment number. Indicate this"key no." for each item in "architectural equipment number" column of this form.

6. University Equipment Number:
Do not complete. This column to be used by the planning office.

7. Quantities:
   A. Required -
   Indicate number of items required for each room. This number should include both existing available and new-need to purchase.

B. Available -
Indicate the number of the existing units which will be or could be relocated to Unit F plus any additional units that the department will acquire from separate fund sources either before or after occupying Unit F.

C. New -
Indicate the number of new units to be purchased from Unit F funds.

8. Unit Cost:
Indicate unit cost of the item at current 1975 prices: complete only for new quantities.

9. Total Cost:
Indicate unit cost times the number of new items to be purchased.

10. Utilities and special requirements:
A. Indicate utilities required - some examples are (use symbol for coding):

- air (A)
- gas (G)
- vacuum (V)
- oxygen (OZ)
- drain (D)
- water
  - cold hot (CHW)
  - cold (CW)
  - hot (HW)
- electric (120V or 208V)

B. Indicate special requirements required - place special requirement notes in the "special requirement" section at the bottom of the form. Use footnote numbers for reference.
same special requirements include:

- lighting
- exhaust
- temperature control
- equipment finish
- floor stress (for heavy items)
- radiation protection
- security
- special drug and chemical storage needs (state volume, how to store, special locks and special ventilation)

11. Available equipment location:
If the item is currently available (see 6B above), note the room number where the equipment is presently located.

12. Rank:
Upon completion of the movable equipment list and the furnishings list of the total department, all new equipment must be ranked based upon priority of need-to-purchase.
For example, if there are 23 items on the list, then the items should be ranked from 1 through 23.

THE MOVEABLE EQUIPMENT LIST AND THE FURNISHINGS LISTS ARE TO BE RANKED SEPARATELY -- NOT AS A COMBINED LIST.

GFZ:jam

UNIVERSITY OF MINNESOTA
TWIN CITIES

Graduate Program in Hospital Pharmacy
College of Pharmacy
Minneapolis, Minnesota 55455

MEMORANDUM

To: C.A. Johnson

From: C.M. King, Jr.

Re: Hospital Pharmacy Requests in Unit F

Date: October 31, 1975

As a result of our discussion regarding the space needs of the Graduate Program in Hospital Pharmacy in Unit F, I am supplying the information you requested.

In trying to project the future, I would estimate that we will probably have between 10 and 15 students requiring study or work space at any one time. With regards to faculty, there could be a maximum of 5 with primary appointments in Hospital Pharmacy of which there are now 3. In addition, we have 2 other with multiple appointments and 1 part-time faculty member. I would suggest that a total of 4 offices be provided, one for the Director of Graduate Studies and three to be used as community property for all others requiring a place to work in private and to counsel and advise students. In addition, storage space would be required for records, educational material, etc.

We will have need for small group meeting or conference rooms and may get involved in some of the social science labs. Video tape equipment may also be a future possibility.

Traffic patterns for the faculty will be from Unit to Mayo, Unit A, B/C and other areas on campus. The students will probably be using the library frequently as well as Mayo, Unit A and other areas on campus.

Our ranking priorities for relative location within the Building are as follows:

1. Conference Rooms
2. Pharmacy Library
3. Pharmacy Administration
4. Clinical Programs
5. Computer Terminals
6. Instructional Media Center
7. Easy Access to Mayo
8. Pharmacokinetics Labs
9. Drug Information Center

cc: H.F. Kabat

Unit F- Funding

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
Box 75 Powell Hall
4103 Powell Hall
Minneapolis, Minnesota 55455
(612) 373-8981

November 11, 1975

TO: Dean Irene Ramey
Mr. Vic Scott
Mrs. Cheri Perlmutter

FROM: Paul J. Maupin

SUBJECT: Attached HEW report

The attached is a revised edition of Nursing participation for Unit F for your information and review.

rm

Attachment

cc: Linda Satorius
Gary Zaworski

18. COSTS ELIGIBLE FOR FEDERAL PARTICIPATION
(BY PROGRAMS)

Revised June 1975 U. of Minnesota

A. Budget line	B. Total cost *(col. E, item 16)*	C. Total eligible cost	D. Amounts eligible for Federal participation *(for each grant program)* B.	G. CEP	Pharmacy
			1) Program code 43 , 18.78% from item 17E — or 17G —	2) Program code 43 , 10.84% from item 17E — or 17G —	3) Program code 43 , 00.74% from item 17E — or 17G —	4) Program code 41 , — —% from item 17E — or 17G —
1g. Building work	$ 14,474 670	$ 14,328,055	$ 2,690,809	$ 1,553,161	$ 106,028	$
2e. Site work	219,000	216,799	40,715	23,501	1,604	
3c. Off-site work	-	-				
4. Central utility plant	239,817	237,378	44,579	25,731	1.757	
6. Fixed equipment	824,030	815,679	153,185	88 410	6,036	
7e. A/E costs	1,418,235	871,235	163.618	94,442	6 447	
8. Movable equipment	2,293,155	2,149,208	403,621	232,974	15,904	
10. Contingency	458,631	930,918	174,826	100.912	6,889	
11. Purchase of Land	1,021,400	-				
12. Purchases of Building(s)						
13. Other						
15. Works of Art						
16. TOTALS *(1g. through 15)*	$ 20,948,938	$ 19,549,272	$ 3,671,353	$ 2,119,141	$ 144,665	$ 13 614,113
17. Amount of Fed. Assist Requested			$ 2,459,807	$ 1,419,824	$ 96,926	$
18. Fed. Share Request—Percentage			67 %	67 %	67 %	%

Total Federal share (Nursing) $3,976,557

17. SPACE ALLOCATION BY GRANT PROGRAM

Revised June 1975 U. of Minnesota

A. Building identification *(if more than one structure)* Bldg. "F" Nursing/Pharmacy

B. Gross area in facility 213,039 S.F. C. Net area in facility 111,584 S.F.

Alternate I	GRANT PROGRAMS				APPLICANT
	1) 43 Bacc. PROGRAM CODE	2) 43 Grad PROGRAM CODE	3) 43 C.E. PROGRAM CODE	4) 41 PROGRAM CODE	5) SPACE
D. Net area by program(s)	(1) 20,954 SF	(2) 12,100 SF	(1) 827 SF	56.384 SF	21,319 SF
E. Cost allocation ratio by programs *(D/C X 100—to two decimals)*	18.78 %	10.84 %	00.74 %	50.53 %	19.11 %
Alternate II					
F. Gross area by program(s)	SF	SF	SF	SF	SF
G. Cost allocation ratio by programs *(F/B X 100—to two decimals)*	%	%	%	%	%

(1) Space requested

(2) Maximum space fundable (range 10,800 s.f. to 12,100 s.f.)

TAC

THE ARCHITECTS COLLABORATIVE INC.

JEAN B. FLETCHER
1945 1965
WALTER GROPIUS
1945 1969
NORMAN FLETCHER
JOHN C. HARKNESS
SARAH P. HARKNESS
LOUIS A. McMILLEN

RICHARD BROOKER
ALEX CVIJANOVIĆ
HERBERT GALLAGHER
WILLIAM J. GEDDIS
ROLAND KLUVER
PETER W. MORTON
H. MORSE PAYNE
ERNEST L. BIRDSALL
TREASURER

ROBERT F. CRANE
HOWARD ELKUS
ALLISON GOODWIN
BASIL HASSAN
JOHN HAYES
JOSEPH HOSKINS
LEONARD NOTKIN
RICHARD SABIN
DAVID SHEFFIELD

QAZI B. AHMED
ROBERT BARNES
KENDALL P. BATES
SERGIO BERIZZI
SERGE CVIJANOVIĆ
ROYSTON DALEY
ROBERT DeWOLFE
GREGORY DOWNES
GAIL HAVIARAS
THOMAS LARSON
RALPH MONTGOMERY
PERRY NEUBAUER
MICHAEL PRODANOU
RICHARD PUFFER
WALTER ROSENFELD
JOHN J. SCOTT
EDMUND SUMMERSBY
KENNETH TAYLOR
MALCOLM TICKNOR
ROBERT TURNER
ROBERT WILSON
LAURENCE ZUELKE

1 December 1975

Mr. O. J. Nelson
Assistant Supervising Engineer
Engineering and Construction
26 Folwell Hall
Minneapolis, Minnesota 55455

Regarding: University of Minnesota
Health Sciences Expansion
Unit F TAC Job No. 75036

Dear Jerry,

At a recent meeting you expressed a concern regarding the overlap of the upper cantilevered floors of Unit F with the property line and the right-of-way of Highway 12, Washington Avenue.

I have not searched our files in depth, but have found and am enclosing for your information copies of correspondence which coincides with my understanding that this issue was discussed and resolved in the initial planning effort.

Please advise us if your research indicates the matter is still unresolved and requires further assistance on our part.

Very truly yours,

THE ARCHITECTS COLLABORATIVE, INC.

John J. Scott

cc: Paul Maupin
Eugene Kogl
Kurt Rogness

46 BRATTLE STREET, CAMBRIDGE, MASSACHUSETTS 02138, U.S.A.
TELEPHONE: (617) 868-4200 TELEX: 921494 TACCAM CABLE: TACCAM U.S.A.

UNIVERSITY OF *Minnesota*

ENGINEERING AND CONSTRUCTION
20 FOLWELL HALL • MINNEAPOLIS, MINNESOTA 55455

U. OF MINN.
DATE: 5/17/71

	COPY	ATTN.	INIT.
JCH			
RK	X		
RT			
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JS	X		
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JB			
JSL			
TS			
FILE	0423		
	X272		
	X660		
ED	X		

May 13, 1971

Mr. John Scott
The Architects Collaborative
46 Brattle Street
Cambridge, Massachusetts

Re: "F" Unit Location and Description

Dear Mr. Scott:

Enclosed please find a sketch and description concerning the "F" unit location. The sketch and description have been forwarded to the University attorney for legal action.

Sincerely,

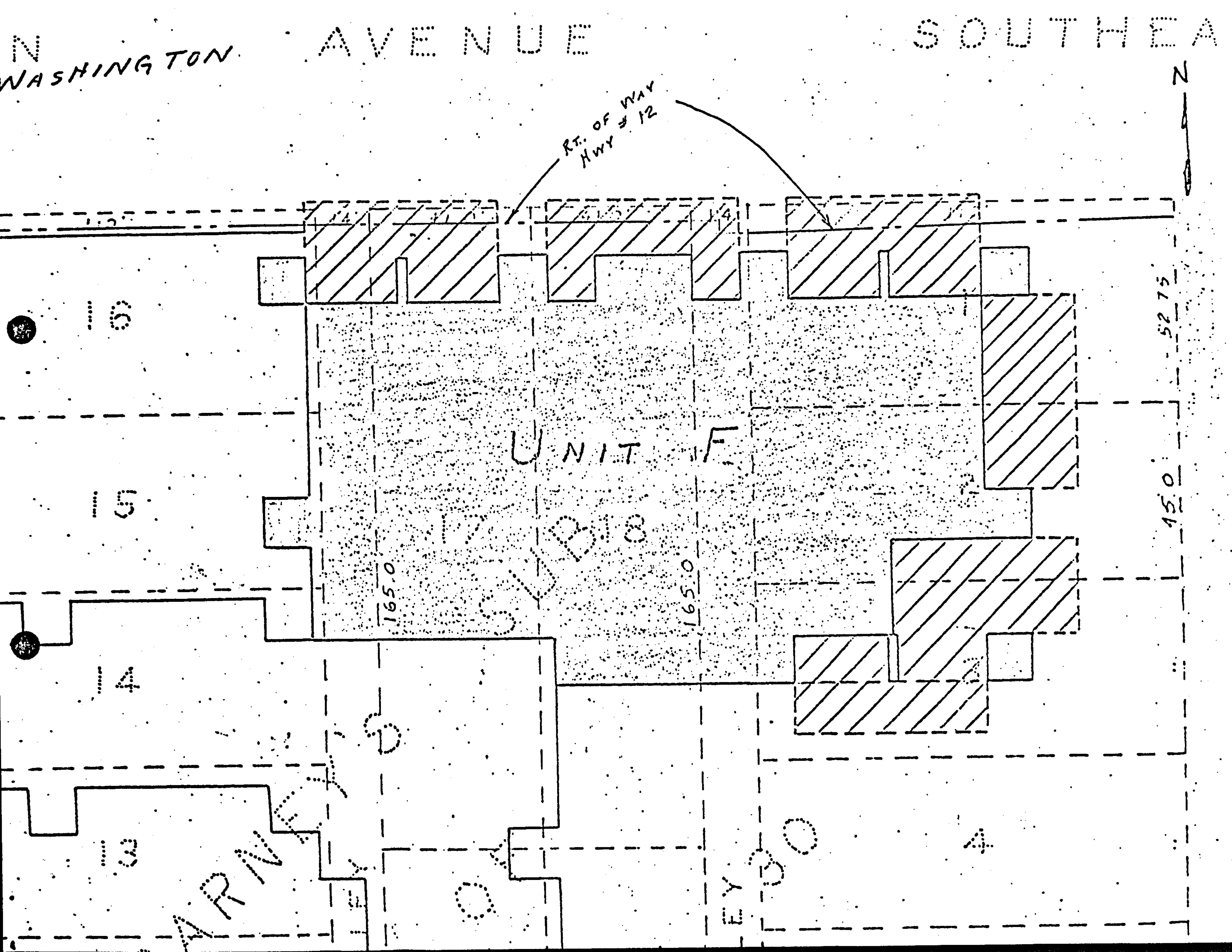
Kenneth H. Tidemann
Construction Superintendent

KHT:kdj

Enclosure

U. OF MINN.
DATE:

H. G. S. P.	
P. P. & D.	
H. S. - CCDU	X
H. S. A. F.	X
H. J. S. A.	
LERCH	
BOHN	
FLYNN	
C. D. M.	
[illegible]	X


N
WASHINGTON
AVENUE
SOUTHEA
RT. OF WAY
HWY # 12
N
16
15
14
13
UNIT F
17
18
165.0
165.0
4
52.75
15.0

UNIVERSITY OF Minnesota

ENGINEERING AND CONSTRUCTION
20 FOLWELL HALL • MINNEAPOLIS, MINNESOTA 55455

May 12, 1971

TO: Joel Tierney

FROM: O. J. Nelson, Assistant Supervising Engineer

SUBJECT: Site Description of Property to be occupied by Health Science Unit F

The following is a description of the property for Unit F of the Health Science Facility.

All of the northerly 187.75 feet of "Barney's Subdivision of Block 30" City of St. Anthony as on file in the office of the Register of Deeds, Hennepin County, Minneapolis, Minnesota lying south of the southerly right of way line of Minnesota Highway #12.

The property covered by the above description is presently owned by the University of Minnesota except for Lots 1, 2, 3 and 4 and the alley adjacent to the westerly property line of said Lots 1, 2, 3 and 4.

It should also be noted that floors 6, 7 and 8 of the proposed Unit F will encroach on the right of way of Minnesota Highway 12 to a point approximately two feet north of the south property line of Washington Avenue as shown on the plat of "Barney's Subdivision of Block 30" City of St. Anthony.

OJN:HBG:jcn

O. J. Nelson

cc: Marcia Cushmore
E. A. Kogl
Vic Scott
Howard Heck

THE ARCHITECTS COLLABORATIVE INC.

3 May 1971

Mr. Ken H. Tidemann
Engineering and Construction
26 Folwell Hall
University of Minnesota
Minneapolis, Minnesota 55455

Re: University of Minnesota
Health Sciences Center Expansion
TAC Job No. 70048 - Unit F

Dear Ken,

As per our telephone conversation last week we are enclosing a sketch of the Unit F site plan showing the approximate site limits as they will be submitted in the forthcoming grant application.

We hope this suffices until next week when we will have an accurate site drawing which we will also forward to you.

Very truly yours,

THE ARCHITECTS COLLABORATIVE, INC.

John J. Scott

JJS/bb
Enclosures

CC: P. Maupin
K. Johnson
HSAE

U. OF MINN.

DATE:	
H. G. S. P.	
P. P. & D.	
H. S. - COOD.	X
H. S. A. E.	X
H. J. S. A.	
LERCH	
MAIN	
FLYNN	
C. D. M.	
Johnson	X
Tidemann	O

U. OF MINN.

DATE: 5/3/71

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RG	X		
JJ			
KR	X		
MG			
JB			
JSL			
TS			
FILE		278	
GD			

46 BRATTLE STREET, CAMBRIDGE, MASSACHUSETTS 02138
TELEPHONE: (617) UNIVERSITY 8-4200 CABLE: TACCAM CAMBRIDGE

MINUTES OF

UNIT F USER MEETING

DATE: NOV 26, 1975

PLACE: 4112 Poh

PRESENT: Dean Ramey - Paul Sodergren - Sheila Corcoran - Gary Zaworski

SUBJECT: User meeting - Equipment schedule

Mr. Zaworski summarized the equipment schedules and outline the time schedule.

It was established that the H.S.P.O. would require detailed equipment lists, mechanical requirements, room layouts, etc., for all space in Unit F.

Dean Ramey, Paul Sodergern and Sheila Corcoran identify the faculty and staff member that would represent the department.

Mr. Zaworski said he would schedule a meeting as soon possible with the department representative.

ESTIMATED SPACE REQUIREMENTS AND COSTS FOR UNIT F

December 8, 1975

Opportunities for Donors		Amount of Gift
Deans Office	300 sq. ft.	22,500
Deans Conference Room	430 sq. ft.	30,100
Senior Faculty & Staff Offices	170 sq. ft.	12,750
Faculty Offices	130 sq. ft.	9,750
Conference Room	225 sq. ft.	15,750
Secretary Pool	530 sq. ft.	37,100
Staff Lounge	900 sq. ft.	67,500
Auditoriums	200 sq. ft. 500 sq. ft.	20,000 55,000
Classrooms	400 sq. ft.	28,000
Seminar	500 sq. ft.	30,000
Lobby	1,200 sq. ft.	132,000
Lab	2,400 sq. ft.	288,000
Cold Room	50 sq. ft.	12,500
Envir. Control Lab	150 sq. ft.	37,500
Central Supply Room	600 sq. ft.	57,000
Central Equip. Room	900 sq. ft.	85,500
Res. Lab Bench (typical)	12 lin. ft.	2,000
Elev.	1 unit	110,000
Escal.	per unit	110,000

FINISHING COSTS PER COMPONENT

December 8, 1975

Opportunities for Donors	Amount of Gift
Dean Office	7,000
Dean Conference Room	3,000
Senior Faculty & Staff Offices - each	4,000
Faculty Offices - each	1,700
Conference Room - each	2,000
Executive Secretary - each	1,700
Secretary - each	1,000
Staff Lounge - each	3,000
Auditoriums - each	25,000
Classrooms - each	4,000
Seminar Rooms - each	2,500
Waiting/Reception Area	1,500
Art Work - per item	100
Carpet - per sq. yd.	20
Lobby	7,500

MOVABLE EQUIPMENT COSTS PER ITEM

December 8, 1975

Opportunities for Donors	Amount of Gift
Microscope	1,700
Decuriter	25,000
Spectrophotometer	14,000
Spectrometric	12,000
Cardiac Moniter	5,000
Defibrillater	500
ECG Machine	895
Treadmill	5,200
Freezer	250
Refrigerator	275
Analyzer, Co_2 Gas	3,950
LIG Scintillation	21,600
Radioactive TLC & Strip Scanner	4,050
G-C Prep	5,400
Radioisotope Storage Unit	600
NMR - 100 Megacycle & Accessories	121,500
ESR Spect.	20,250
Atomic Absorp. Spect.	8,100
Mass Spect. - GC	81,000
ORD - CD (Cary-60)	67,500
LIG Chromatography	6,750
Spectrophotofluorometer	10,125
Polygraph and Components	6,750
Multi-Gallon Fermentor (50 liter) Fermacell	17,550

Opportunities for Donors	Amount of Gift
Fluorescent Microscope Unit	5,000
Microscope Photography Unit	1,200
Laminar Flow Unit	1,620
UV Unit, GBG Beckman	5,400
IR Unit & Tablet Press & Accessories	5,400
Recorder for ACTA-II	1,200
Analytical GC	9,500
Prep GC	5,400
Filter Fluorometer & TLL Measurement - Accessories	3,000
Ultracentrafuge	16,200
Immuno-Diffusion Electrophoresis	2,100
Elect. Calculator	4,000
Drying Oven	1,620
Fitz Mill	1,620
NMR - TGO (Varian)	32,400
Fluorometer	1,850
Polarimeter & Accessories	11,000
Recording Titrator	3,475
Psychotherm Incubator	3,475
Oscilloscopes	1,350
X-Y Recorder	2,025
Steri-Val Gas Sterilizer	3,600
Automatic Titrator/PH Stat	3,375
X-ray Diffraction	20,250
16 MM MAG/OPT Projector	2,025

Andy Johnson

UNIVERSITY OF MINNESOTA
TWIN CITIES

College of Pharmacy
115 Appleby Hall
Minneapolis, Minnesota 55455

December 18, 1975

Minutes from the faculty discussions regarding the latest in Unit F developments.

GENERAL DISCUSSION AND UNDERGRADUATE LABS: This discussion was attended by Rippie, Staba, Monem, Soine, Abul Hajj, King, McRae, Portoghese, D. Miller, Ken Miller, K. Johnson, A. Johnson, DiGangi and Dean Weaver.

Keith Johnson discussed the layout possibilities for each floor of Unit F, and how they differ from the first proposals. He stressed the importance of being able to justify classroom utilization when appealing to the Legislature. One of the main concerns is to keep the same size shell as originally planned, with the intent that rooms may be finished or converted later if building costs exceed the budget. Dean Weaver reported that by bringing Nursing into the plan we do loose some space, but benefit in cost sharing. Approximately 17,000 square feet of classroom space will be shared with provisions made for Nursing to use some laboratory facilities. Bids are up 10% over the expected cost and the cost per square foot has risen from the original $74 to $80 at present with the possible increase to $85. We are presently asking the State Legislature for $11 million. Dean Weaver expressed optimism about State Legislature approval but stressed that we must not take it for granted. They will be looking closely at our space utilization and taking into consideration the past allocations made to the Health Science Units. The consolidation of the nursing and pharmacy facilities should present a strong front to the Legislature. They will in some cases be working together, and where more appropriate, separately. Dean Weaver also stressed enlisting the support of the other Health Science colleges of Dentistry, Medicine, Vet. Med. and Public Health.

After much discussion, it was basically decided that the need for undergraduate laboratory space would best be served by constructing two 60-man laboratories with a central supply station and a smaller 36-man lab on the second and third floors. Concern was expressed by all that we not build ourselves into limitations and single-purpose facilities, which could easily become outmoded with constantly changing curriculums and areas of emphasis. The 36-man lab could have the versitility of more extensive hospital pharmacy emphasis and be used in the parenteral products area. An effort was also made to group like-uses together in a workable area to avoid duplication of facilities. All agreed that a central supply room with organized inventory control would be advisable.

MEDICINAL CHEMISTRY: This discussion was attended by Keith Johnson, Portoghese, Monem, Soine and Andy Johnson.

Portoghese noted that since increased involvement in biological research is being done, lab space is of prime importance. A new floor plan was presented to Keith Johnson which increased the capacity of graduate students and made adjacent

faculty offices. Keith Johnson will take it up with the architects and find out what arrangements are possible. The central supply room again was unanimously endorsed, probably to be located on the first floor. The need for an equipment room was discussed and decided it would be valuable, while the need for a hydrogenation room was questionable and could be dispensed with if necessary. Dr. Monem is to get a count of the present and projected 1978 faculty, graduate students, post doctorates, and technicians. The use of a chromotography room came under some question and it was decided that the Med. Chem. and P'Cog people (Abul Hajj, Staba, Vince, Monem, Portoghese, and Soine) will meet Monday from 1-2 p.m. to discuss use of shared space.

ANIMAL FACILITIES: Those present at this discussion were Abul Hajj, K. Miller, Rippie, Sawchuck, Staba, Weaver, D. Miller, K. Johnson and Andy Johnson.

Dr. Pat Manning, who is the University Vet. has expressed great concern over the animal facilities area, its location and construction. One of his main points is the need for a cage washer, the other is its central location.

It was decided that a positive statement could be made stating that the only animals we would wish to house in our animal facilities would be small rodents, cats and dogs. Anyone wishing to work on primates or large animals would, thus, do so through arrangements made at the research animal hospital.

Ken Miller was appointed the College Representative and would speak to Dr. Manning of the college's concerns and desires concerning the facilities in general, its location, and the inclusion of a cage washer.

The general consensus was that the location of the animal facilities on the first floor is OUT. The penthouse ranks as the prime choice and Floor No. 9 would be the next choice. One of the main concerns here would be the added expense of increasing the building footage by 3000 square feet at $80/sq. ft.

CLINICAL PHARMACY, HOSPITAL PHARMACY, AND PHARMACY ADMINISTRATION SPACE: Those present at this discussion were Kabat, King, Wertheimer, K. Johnson and A. Johnson.

The general consensus was that the clinical pharmacy, hospital pharmacy, and pharmacy administration areas as presently designated met the approval of all.

PHARMACOGNOSY: Those present at this discussion were Abul Hajj, D. Miller, Staba K. Johnson and A. Johnson.

Much discussion centered around the biological suite and what facilities it should contain. Staba mentioned that the environmental room would take priority over the greenhouse. He mentioned that P'Cog has need for a cold room and the chromotography room.

Several differing solutions as to location of facilities were proposed. Staba advocated having the support area and faculty on one floor and graduate students integrated with the Med. Chem., while Abul Hajj felt it would be better to have the faculty separated from the biological core unit.

Dan Miller proposed having the concept of one "biological floor" with function designation rather than departmentalization. Anyone concerned with the certain biological functions served would then come to that floor to work.

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Dan Miller proposed having the concept of one "biological floor" with function designation rather than departmentalization. Anyone concerned with the certain

PHARMACEUTICS: Those present at this discussion were McRae, Nelson, Rippie, Sawchuck, King, Miller, K. Johnson and A. Johnson.

It was noted by Nelson that the parenterals Lab should be adjacent to the dispensing lab. Some open room will be incorporated into the undergraduate labs with the intent that equipment may be moved out into the work space as the need arises. Manufacturing capabilities should be left open if the need arises to teach them. The milling and drying facilities could be shared with the P'Cog biological unit.

The Pharmaceutics graduate space as planned has room for 23 graduate students and 9 faculty. The projection of future needs is to be turned in.

The idea of a central stockroom gained the general support of everyone.

MEDICINAL CHEMISTRY - PHARMACOGNOSY: Those present at this discussion were Keith Johnson, Staba, Abul Hajj, Monem, Portoghese, Andy Johnson and Dean Weaver.

The discussion centered around graduate space that will be available and the make-up and location of the Bio-processes unit. The possibility of more room being available because of moving the animal facilities to the penthouse is becoming further from reality because of two factors: 1) the time factor is getting more pressing, and 2) with the addition of the extra floors, the mechanical works are taking up a good share of the penthouse room.

The use and purpose of an instrument room was discussed and decided necessary. There shall be a larger instrument room with a small office space for a controller and a small cold room. A separate instrument room would be used for smaller instruments. Drs. Staba and Abul Hajj supported the fact that a chromotography room was needed. The room would also have a constant temperature control and fume control.

It was basically decided that the graduate space and faculty space should be designated by needs and not attached to departmental labels. Those people associated with biological functions should be situated closest to the Bio-processes unit, while others could be located up one floor.

Respectfully submitted,

Darlene M. Ryan
Secretary

copies to:

Abul Hajj	Portoghese	K. Miller
Kabat	Rippie	DiGangi
King	Soine	Sawchuck
McRae	Wertheimer	Keith Johnson
Monem	Staba	Andy Johnson
Nelson	D. Miller	Dean Weaver

Unit F - Funding
Paul
2/5/76

UNIT F

BASIS FOR REQUEST

The College of Pharmacy is presently housed in Appleby Hall, a renovated School of Mines building, located several blocks from the Health Sciences Center. Interim facilities are being provided in an old apartment building on the Unit F site to house Pharmacy faculty, staff and various programs that could not be accommodated in Appleby Hall.

The School of Nursing is housed in Powell Hall, an early 1900 dormitory facility. Remodeling efforts over the years have not rendered the building appropriate for academic programs. Faculty and students are scattered throughout the Health Sciences in other interim space.

The College of Pharmacy and School of Nursing have attempted to remodel their respective facilities throughout the years; however, their efforts have remained to burden them with inadequate space in obsolete facilities. Their recent efforts in planning for consolidating the facilities for Nursing and Pharmacy have resulted in a strong interdisciplinary program and plans for the joint use of the resources in Unit F.

FUNDING

State funds for land ?

1969 State Appropriation	$ 318,000
1971 State Appropriation	1,351,400
1975 HEW grant commitment - Pharmacy	4,288,811
1975 HEW grant commitment - Nursing	3,976,000

SCOPE OF PROJECT

The Unit F structure will consist of eleven floors of space located directly north of and adjoining Unit A. Three levels are below grade. Through Unit A, Pharmacy and Nursing will have direct access to the remainder of the Health Sciences Center.

The building will have an assignable square footage of 111,584. The Pharmacy program requires 50% of the total assignable square feet or 56,384 a.s.f. The Nursing program and classrooms will be accommodated in 37,457 a.s.f. Auditorium and other spaces designed for sharing by all Health Sciences students are contained in the remaining 17,743 a.s.f.

COST ESTIMATE

Construction	$ 15,757,517
Non-building costs	5,191,421
TOTAL PROJECT COST	$ 20,948,938

BUILDING SCHEDULE

Schematic Design	January	21, 1976
Design Development	March	1, 1976
Contract Documents	June	1, 1976
Bid Award	September	1, 1976
Construction Completed	June	1, 1978

MTG NOTES 3 S. CALLAHAN, L. MACKINNON, K. BRAND, C. DWIGHT, P. JOHNSON
2/11/76 E. IPS, H. ZINTER

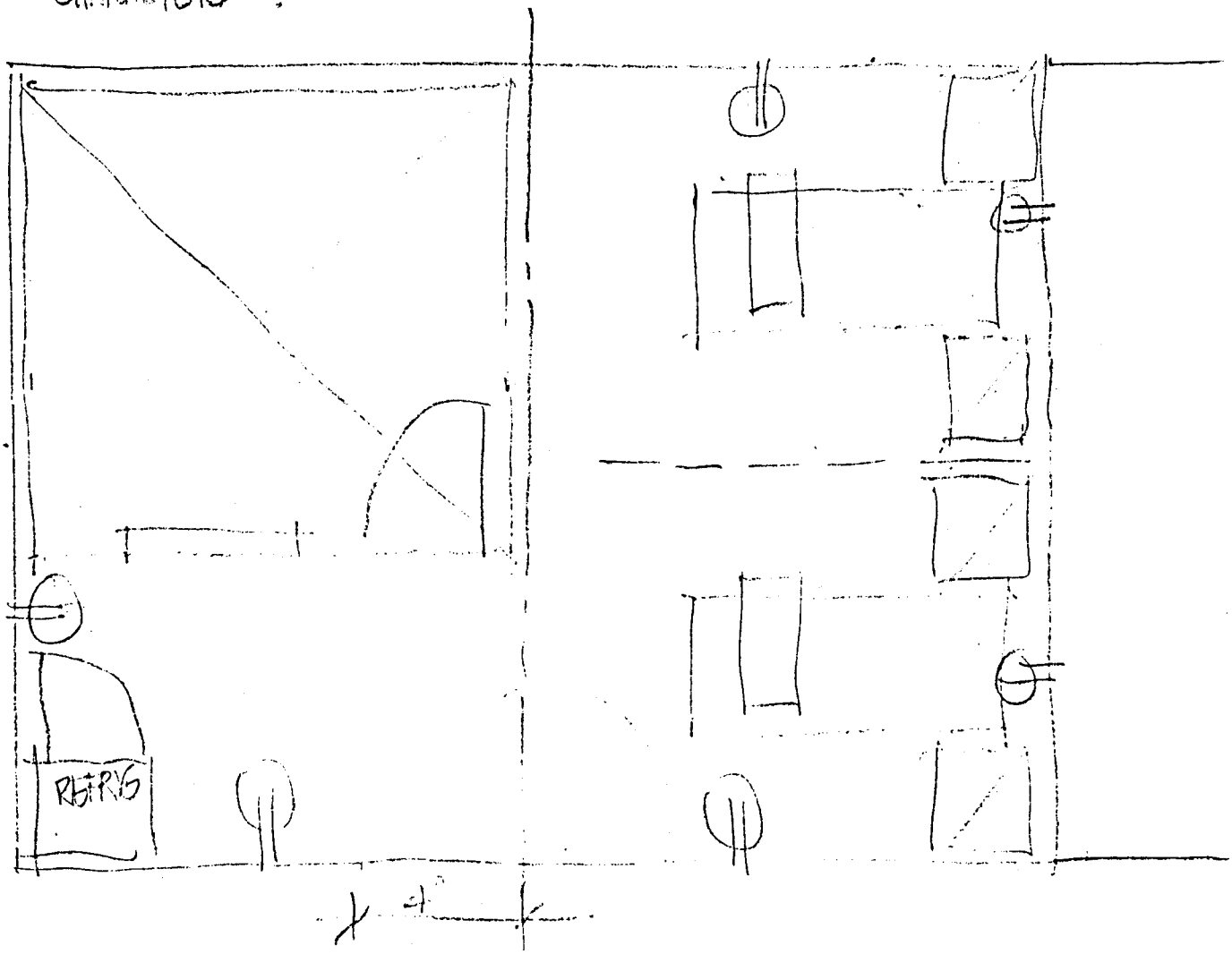
NUR. REG
ED DEV

1. DISTRIBUTION OF NURSING PROGRAM
2. NURSING LAB
   a. POST DOC. LAB : NOW NURSING LAB (VERIFY)
   b.

3. NURSING EDUC. DEVEL.
   a. REDUCTION OF PROGRAM
   b. USE OF SPACE @ LEVEL 1 (LOCKER SPACE)
   c. CONSIDER MULTIPURPOSE TO BE ONLY ENVIRONMENTAL LAB
      18'x24' = 432 deduct 125 for ISOL RM = 307
      + 432
      ±740

   d. BEHAVIORAL LAB (REFERENCE EQUIP. LIST) 373-7724
      LARGE STORAGE REQUIREMENT / KAREN BRAND

CHARACTER ?



MTG NOTES
3/23/70

S. CORCORAN, T. SOMERVELL
I. MARTINSON, K. BRAND, G. [illegible]
E. IBS, H. ZINTER

NUR. RESEARCH

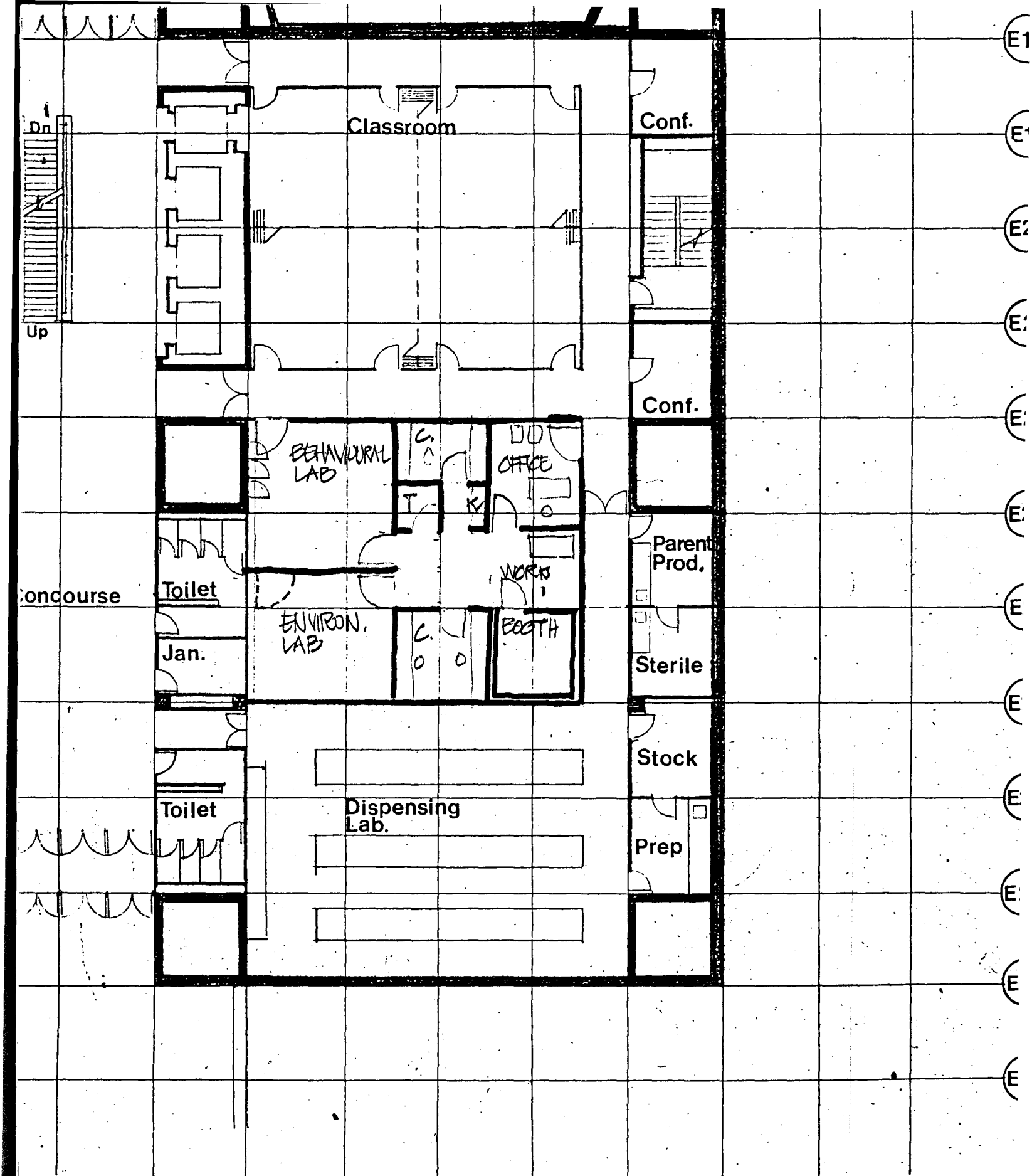
NURSING RESEARCH

1. REVIEW OF LOCATION FOR NURSING RESEARCH
   a. ACCESS/EGRESS REQUIREMENTS
   b. [illegible]

2. REFERENCE PROGRAM & FLOOR PLAN(S) OF PHYSIOLOGICAL HYGIENE (UNITA)
   a. PROPOSED JOINT USE
   b. BLDG SYSTEMS COST FOR ENVIRONMENTAL

3. RESEARCH PROGRAM

	AREA	NUMBER	TOTAL	
FLOOR 9				
PHYSIOLOGY LAB				
ANIMAL PHYSIOL. LAB	600	1	600	
ANIMAL " "	300	1	300	
OFFICES	150	2	300	
				1200
FLOOR 7				
BEHAVIORAL STUDIES LAB	420	1	420	
ENVIRONMENTAL LAB	215	1	215	
SHIELDED ROOM	125	1	125	
VESTIBULE	90	1	90	
CONTROL (3 TEAMS)	400	1	400	
TOILET				
STORAGE				
KITCHENETTE				
TECH. OFFICES (2 DESKS)				
DATA ANALYSIS	150	2	300	
				1560
FLOOR 6				
OFFICE, DIR.	150	1	150	
OFFICE, SEC.	150	1	150	
CONF. & READING	150	1	150	
OFFICE, SUPPORT	450	1	450	
				900



REVISIONS.	JOB NO. 75036	SHEET TITLE	SHEET NO
	DRAWN BY	Unit F: Floor 2	3
	CHECK BY		

Unit F - Funding Unit F

Chris
2/16/76

Pharmacy and Nursing

1. Total cost and source of funds.

$ 318,000	1969 State appropriation
1,351,400	1971 State appropriation
4,288,811	1975 HEW grant commitment - Pharmacy
3,976,557	1975 HEW grant commitment - Nursing
9,934,768	Total funds committed
11,014,170	1976 Legislative Building Request
$20,948,938	Total development cost

2. Proposed space in new building--gross and net assignable square feet.

Gross square feet	213,039
Net assignable square feet	111,584

Nursing	37,457 net assignable square feet
Pharmacy	56,384 net assignable square feet
Health Sciences shared (auditorium, classrooms, student study areas, etc.)	17,743 net assignable square feet

3. Cost per N.A.S.F. and G.S.F.

Total project costs, based on mid-construction date, July 1977, are estimated at $98.33/gross square feet and $187.74/net assignable square feet. Construction costs are estimated at $73.97/gross square feet and $114.22/net assignable square feet.

4. What was the rationale or formula used in determining space needs?

In the three areas of space planned for Unit F--nursing, pharmacy, and health sciences shared-use facilities--program needs were translated into physical space requirements using quantitative measurements, where possible, such as student enrollment; teaching needs, dictated by the curriculum; number of faculty; class sizes; university space standards and federal guidelines.

Available federal standards, such as those included in U.S.P.H.S. Publication #1182 for nursing educational units which suggest 118'/ student, are designed for free standing units and do not reflect the efficiencies which have been incorporated into a multiple-discipline building designed for shared-ues facilities.

Allocation of space within the University is guided by a set of policy guidelines established with the counsel and advice of a faculty advisory committee. Actual allocations are based upon the guidelines which are modified by statements of programmatic needs submitted by faculty and administrators at the Departmental and Collegiate levels.

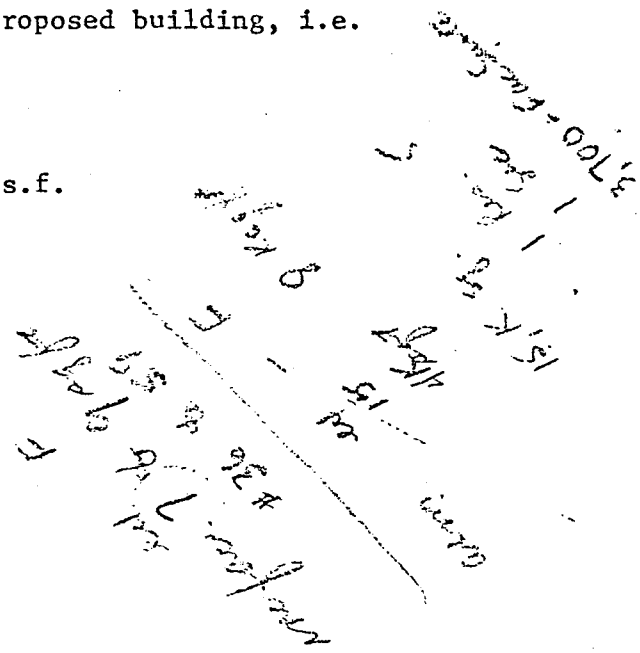
Examples of space guidelines are:

Dean's Office	300 square feet
Assistant Dean	300 square feet
Assistant to Dean	100 to 130 square feet
Department Head	195 square feet
Department Assistant Head	195 square feet
Departmental Multi-purpose	100 square feet and up (400 maximum)
Faculty Office	130 square feet
Double Faculty Office	195 square feet
First Secretarial Position	195 square feet (1 person and files)
(General Office)	65 square feet (for each additional person)
Classroom	15 square feet per student station
Study Room	25 square feet (up to) per student station

The Health Science "shared" space in Unit F designed for use by all health science students, including nursing, pharmacy, dentistry, medicine, public health and allied health programs, includes two 150-seat auditoriums and two classrooms for 75 students each. The need for this space was determined during the initial master planning for Health Sciences. An increased health science student body required facilities to accommodate larger single groups of students. Included in the plan at that time was the expectation of increased number of larger class sizes as faculties identified common course content that could be taught simultaneously to students in two or more disciplines. In addition, the increased technological capability planned for the Health Sciences, such as closed circuit television and other innovative teaching techniques enables the faculty to present some course material to larger groups. The planning also recognized the need for small group teaching necessary in health professions. It was therefore determined that, although total student enrollment of each unit of the Health Sciences demanded larger facilities, utilization of such facilities would be greatly increased if the larger classrooms and auditoria were designated as Health Sciences "shared" space rather than being devoted to a single discipline.

5. Type and amount of net assignable space in proposed building, i.e. classroom, office, etc.

Nursing	
Offices	21,866 n.a.s.f.
Conference rooms	1,820
Laboratories	10,880
Support services	2,226
Storage/miscellaneous	665
	37,457
Pharmacy	
Offices	11,979
Conference rooms	2,794
Laboratories	29,858
Support services	8,857
Storage/miscellaneous	2,896
	56,384



Health Sciences Shared Space

Auditoria	5,350
Classrooms	3,192
Learning Resources	762
Drug Information	887
Conference Rooms	280
Support Services	4,742
Student Study Areas	530
	17,743

6. Total gross and net assignable square feet presently occupied by each program.

Nursing 17,157 assignable square feet

Pharmacy 45,227 assignable square feet

7. Type and amount of space in existing facilities.

Nursing

Classrooms	1,989
Laboratories	2,771
Offices	10,751
Support services	1,646
	17,157

Pharmacy

Classroom	1,350
Laboratories	22,118
Offices	11,234
Support services	10,525
	45,227

8. Enrollments for past five years.

Nursing

	1971	1972	1973	1974	1975
2nd-year students	122	126	150	125	144
3rd-year students	101	115	109	108	112
4th-year students	61	71	99	117	111
R.N. specials	24	20	34	30	54
Adult specials	6	11	4	12	12
Graduate students	63	62	71	77	87
Total	377	395	467	469	520

Pharmacy

	1971	1972	1973	1974	1975
1st-year students	169	120	123	123	123
2nd-year students	112	111	120	127	123
3rd-year students	43	80	105	120	130
Pharm D	4	14	16	18	27
M.S./Ph.D.	42	55	54	66	70
	370	380	418	454	473

9. Utilization rate of present space.

Hard data regarding the utilization rates of space controlled by Nursing and Pharmacy; namely, offices, laboratories and support areas, are not available.

Laboratories and offices assigned to individual faculty may or may not be in use 100% of the time, as is the case for required support and service areas, in accordance with the function.

Most classrooms used by nursing and pharmacy, as well as other health science schools, are shared-use facilities and assigned by central university scheduling.

The College of Pharmacy has only one classroom in Appleby Hall and that is under central scheduling.

The classrooms controlled by the School of Nursing include two teaching areas and two class laboratories in Powell Hall. The nursing utilization of all four rooms is in excess of 90%.

New classrooms in Unit F will accommodate the nursing and pharmacy needs and partially replace the seven classrooms in the Jackson-Owre-Millard complex which will be renovated for basic science departments.

The combined shared use classrooms, auditoria, student areas and learning resources in Units A, B/C and F mostly located on the lower levels of the three units, are designed as one building and planned for the total health science student body. The completion of Unit F is important to the students in dentistry, medicine, public health, and allied health as well as nursing and pharmacy. The health sciences concept, around which the facilities were designed, of achieving maximum sharing of resources and integration of all disciplines will be significantly advanced with the completion of Unit F.

10. What will released space be used for?

Space released by the School of Nursing will be available for re-assignment within the Health Sciences.

Of the 17,157 net assignable square feet occupied by nursing, 756 square feet of space assigned to nursing is located in a dormitory, Frontier Hall #137, 139, 141, and 143, and will revert to dormitory use, leaving 16,391 square feet of assignable space to be reassigned.

The space to be reassigned will continue to be used as offices which will not require remodeling.

Possible space assignment which will be determined on a priority ranking will consider immediate needs.

Space released in Appleby Hall by the College of Pharmacy, 25,049 assignable square feet, will be available for re-assignment by the University to non-health science collegiate units.

During the construction of Unit F, interim space assignment will be required for programs now housed in the apartment buildings on the Unit F site.

Pharmacy	10,734 net assignable square feet
Health Sciences	3,578 net assignable square feet
Medical School	14,312 net assignable square feet

In addition, the Health Science units are currently assigned 13,959 net assignable square feet of dormitory space in Frontier and Centennial Halls. The School of Nursing is currently assigned 756 net assignable square feet of dormitory space.

It is anticipated that current demand for campus housing will require that dormitory space be available for student housing assignment as of the fall quarter, 1976.

Following the completion of Unit F, which will accommodate the program needs of the School of Nursing and the College of Pharmacy, the net need for space now housed in dormitory space and apartment space is 31,093 net assignable square feet.

In addition to the priority needs of the health science unit programs which have expanded ahead of the construction of facilities, other considerations of space needs include off-campus rented space.

Gould Building	39,226	(Medical School)
1633 Eustis	7,145	(Medical School)
302 Oak Street	688	Public Health
Park Plaza	1,794	AHEC
Park Plaza	3,022	Family Practice
Park Plaza	2,041	Laboratory Medicine
Park Plaza	2,034	Surgery
Park Plaza	1,215	Biometry
Park Plaza	630	Physical Medicine
Park Plaza	5,500	Public Health
Park Plaza	2,270	Epilepsy
Stone Building	13,983	Medical School

Total, exclusive of the Stone Building, which is owned by the University and intended for long-term use, is 65,565.

Explain the changes in Unit F as now proposed compared to the original proposal.

What was rationale for change?

What are the deficiencies of existing Nursing/Pharmacy space?

What effect will this change have on the long-range plan for Health Sciences space use and assignment?

Project number enrollment for Pharmacy and Nursing following completion of Unit F.

Is increased enrollment consistent with projected manpower needs?

What is projected number of faculty and support staff?

UNIVERSITY OF MINNESOTA
TWIN CITIES

Engineering and Construction Division
Physical Planning Office
26 Folwell Hall
Minneapolis, Minnesota 55455

ROUTE TO	
DBK	
EBM	
OJN	
JG	
VES	
EAKX	
Date	2/23/76

February 19, 1976

Mr. Tom Maegher, Administrator
Major Accounts
Northern States Power Company
1515 Chestnut Avenue North
Minneapolis, Minnesota 55403

Subject: Meeting of February 17, 1976 To
Cover Various Items Including Unit F
Health Science Building Construction
Minneapolis Campus

Dear Mr. Maegher:

This letter confirms points of our meeting of February 17, 1976 at which you and Bob Ericksen of the Northern States Power Company were present, along with Ken Erpelding and myself.

Item 1 concerned the necessity of relocating an underground and overhead line in the alley west of the apartments and a church building on Harvard. Ken Erpelding indicated it would be necessary to relocate this line when Unit F construction starts. You proposed that we leave the underground and overhead line in to take care of the B/C construction power and the church until the Unit F construction start requires removal. Ken will check tentative schedules and inform you of these.

Item 2 concerned the relocation of service provided by the line under Item 1. A problem exists for the Northern States Power Company to serve the church building after the line is removed. Northern States Power Company will review proposals for changing service to the church building. Ken Erpelding will send any available information on the Unit F site and construction to Tom Maegher to assist in this relocation planning.

Item 3 concerned the Lauderdale Computer Center. Dave Kerkow indicated that Univac is having considerable trouble getting their computer installation to function correctly and that we should leave no stone unturned to assure that the Northern States Power Company supply is not involved in any of the problems. The University Computer Center, located in the same building, has also experienced some frequent problems recently. Tom Maegher will have Northern States Power Company people check and evaluate service to this building. I would appreciate receiving any information they have on their line operation covering service which feeds this building.

Very truly yours,

David B. Kerkow
Assistant Supervising Engineer

DBK:IEJ

CC: Paul Kopietz
Ken Erpelding
Hugh Thibodeau

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
Box 75 Powell Hall
4103 Powell Hall
Minneapolis, Minnesota 55455
(612) 373-8981

February 17, 1976

TO: Paul Sodergren
Nursing

FROM: Gary F. Zaworski

SUBJECT: Unit F

In an effort to establish building code interpretation priorities and traffic patterns, this office requests a total personnel report from each school and department in the unit. We would appreciate a list including the following by floor and department.

Occupancy - total personnel by floor and department

Faculty - full time
part time

Student - undergraduate
graduate

Staff - administrative
technical

GZ:jam

MTG. NOTES
3/3/76

S. CORCORAN, P. SOLBERGHEIM, R. BURNS
G. ZAWORSKY
E. ITO, H. ZINTER

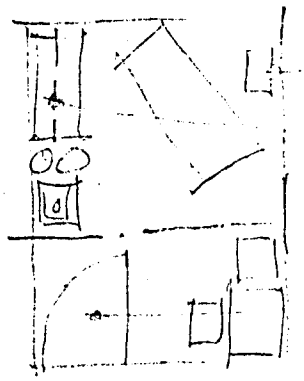
NUR-HEA-45585

HEALTH ASSESSMENT

1. REVIEW OF MTG. NOTES 2/12/76

2. OBSERVATION ROOM
   a. TWO-WAY MIRROR WITH ITOPLUS LIGHTING ENABLES ROOM TO USE AS OBSERVATION & AS AN APPROVED ROOM.
   b. HOWEVER, CHANGES THIS ROOM TO "STORAGE" FOR SKILLS LAB & HEALTH ASSESSMENT & USE 10'x12' CONF ROOM IN HELPING REL. AS "OBSERVATION" ROOM (VIEW INTO LARGE CONF. RM. TO EAST).

3. EXAM ROOM



BASIC ARRANGEMENT IS OK
(ADD FOOT STOOL)

—— PED SCALES ON CART (3 ROOMS), INSTALLED

—— DELETE SHELF
(LINEN STORED IN EXAM TABLE)

. CHANGE DOOR SWING ON 1/16" SCALE DWGS

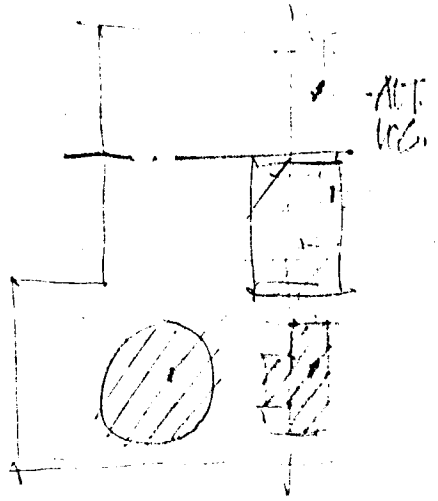
MTG. NOTES 3/5/70 — I. MARTINSON, K. BAMID, S. CORCORAN, P. [illegible] (PART TIME), E. IRS, H. [illegible]

NURSING RESEARCH

1. REVIEW OF SCHEMES 1 & 2 (DATED 3/4/70)
   ASSUMPTIONS (DESIGN CRITERIA)
   a. NEED 2 CONTROL (OBSERVATION) ROOMS FOR SEPARATE LIGHT CONTROL
   b. MAIN ENTRANCE TO SUITE FROM NORTH CORRIDOR / MAINTAIN CONTACT WITH DATA ANALYSIS ROOMS / SEPARATE SUITE (PUBL. CLASS) MINIMIZE TRAFFIC)

2. WORK SESSION: DEVELOPMENT OF SCHEME 2 (ATTACHED)

3. RESEARCH SUPPORT (FLOOR 6)

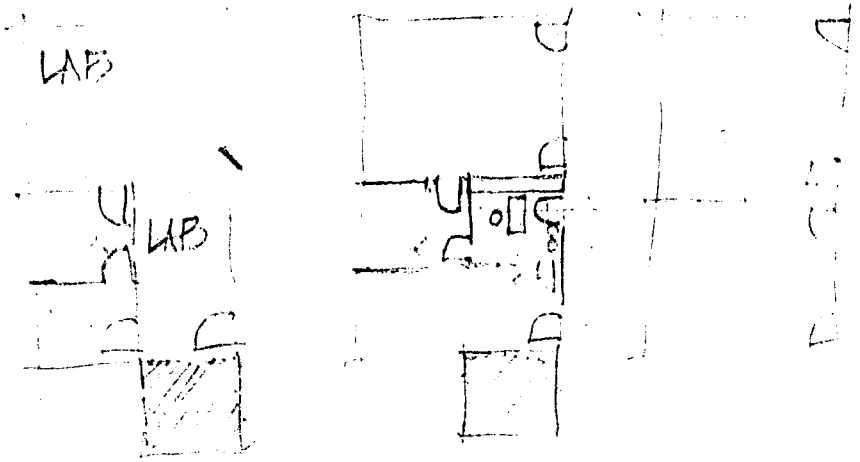


EXPLORE FEASIBILITY (DEPENDENT ON RETAINING SOME FACIL. PROGRAM FOR FAC. OFFICES):

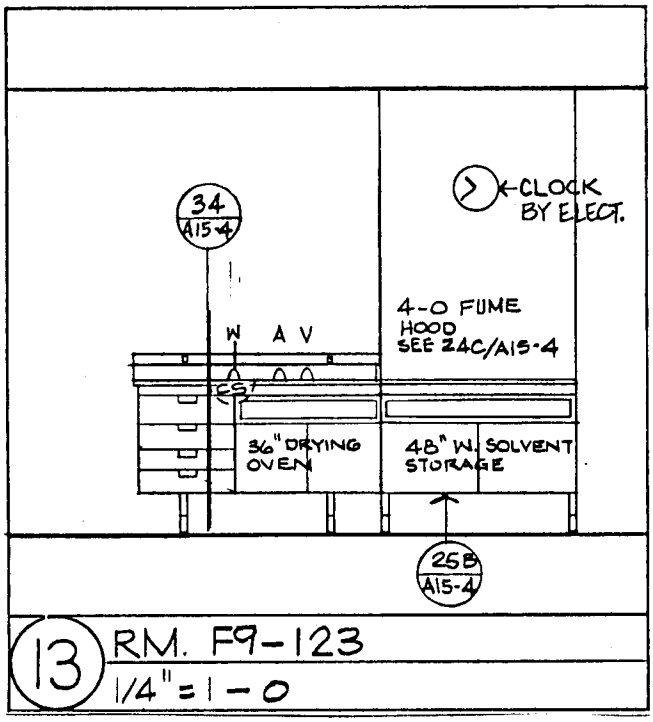
- REASSIGN TO TYPING POOL
- REASSIGN TO SMALL FAC. OFFICES

REASSIGN TO RESEARCH SUPPORT

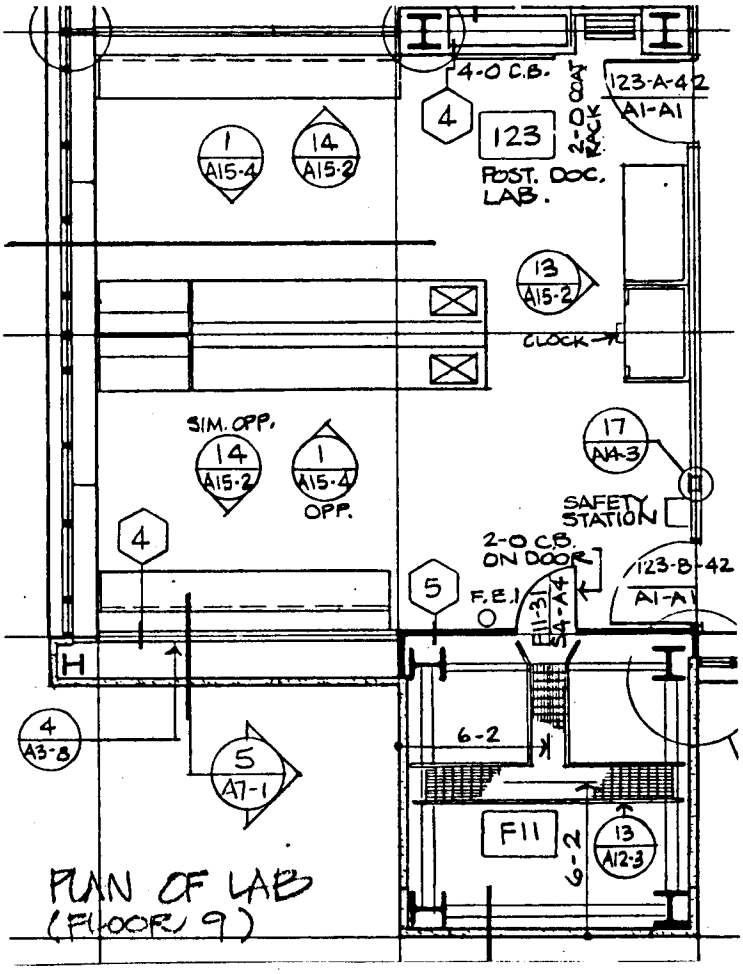
4. ANIMAL LABS (FLOOR 9)

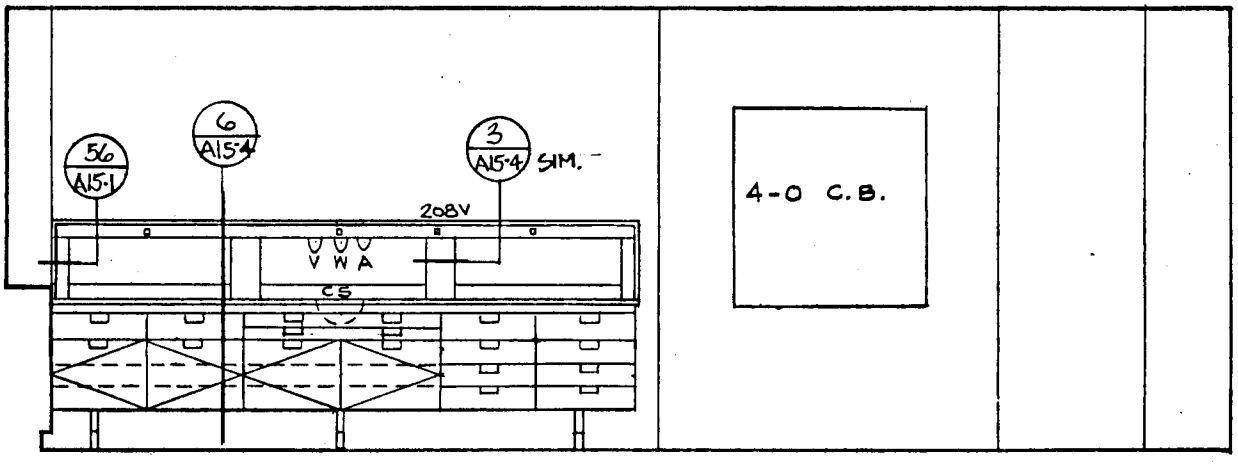


1. MARTINSON TO COMPLETE EQUIP. LIST FOR THESE LABS. (TO MODIFY LABS AS PREVIOUSLY DESIGNED FOR PRIMATES).



13 RM. F9-123
1/4" = 1-0



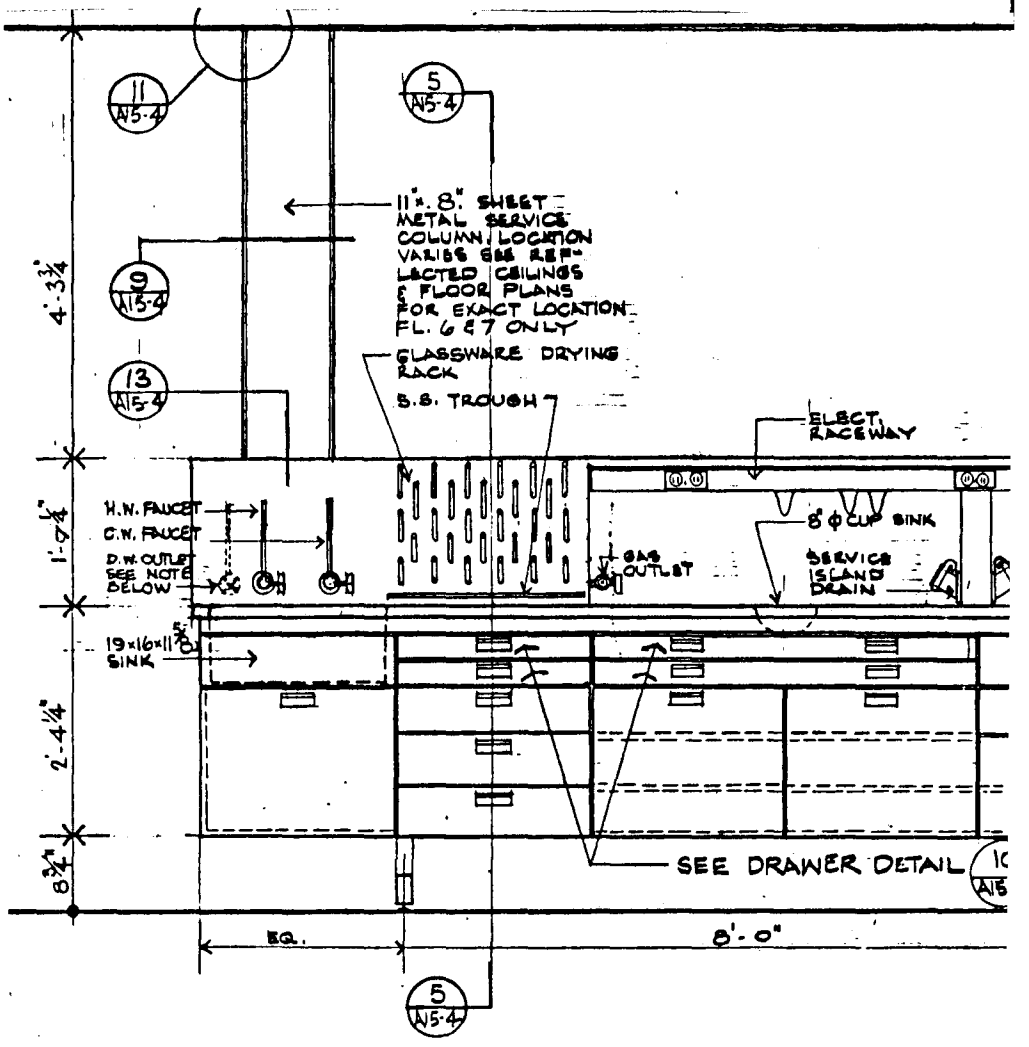


14 RM. F9-123
1/4" = 1-0

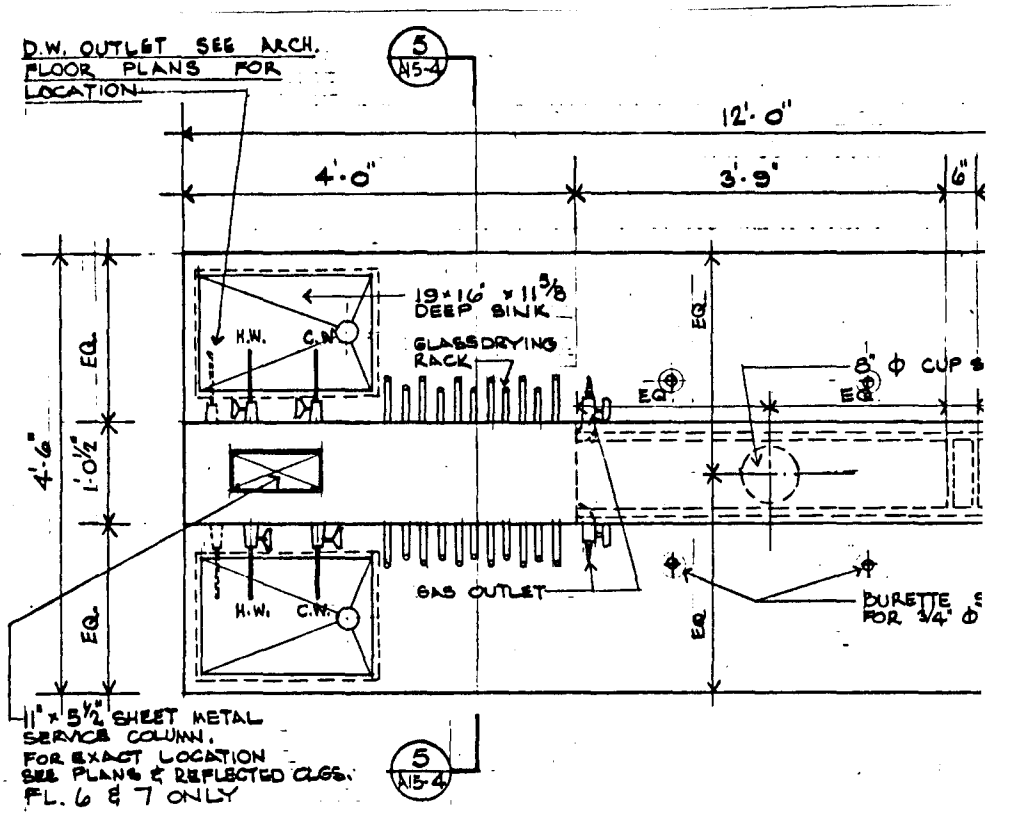
UNIT F REDESIGN/
DETAILED PROGRAMMING

Standard Lab Station

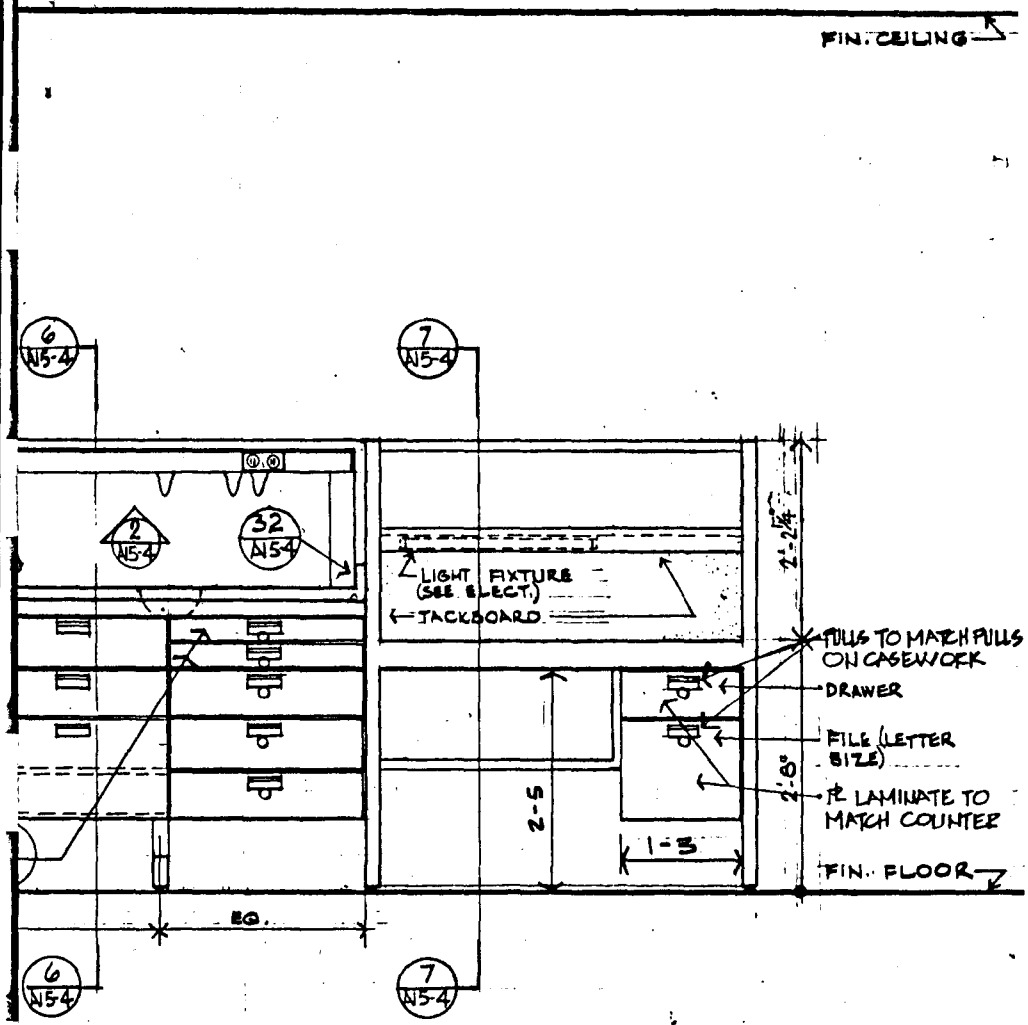
NURSING RESEARCH & EDUCATIONAL DEVELOPMENT

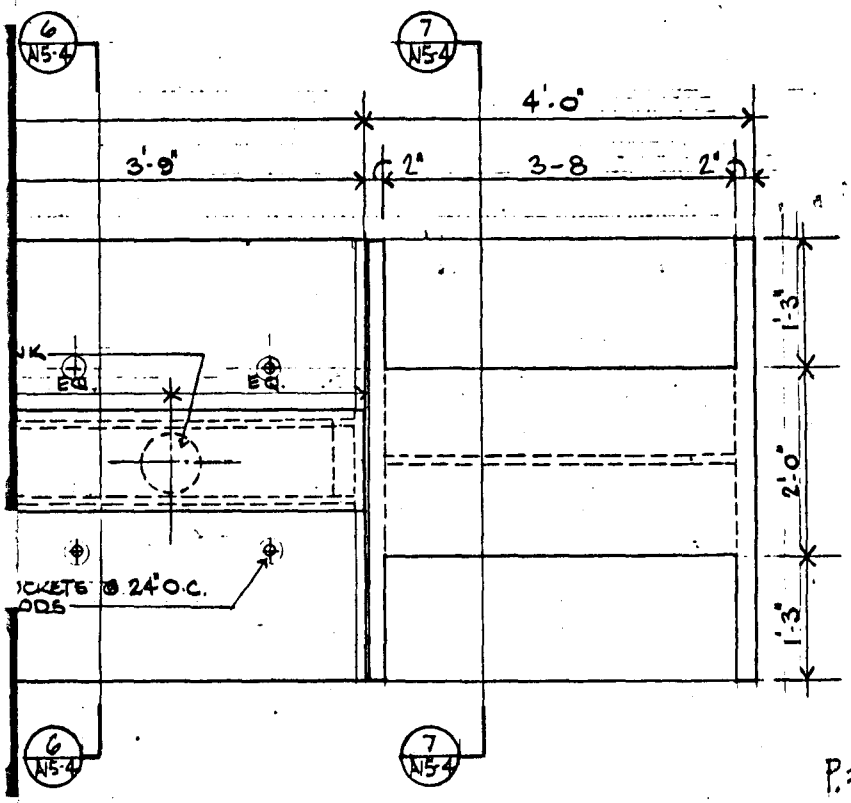


ELEVATION



PLAN


FIN. CEILING
6 N5-4
7 N5-4
2 N5-4
32 N5-4
LIGHT FIXTURE (SEE ELECT.)
TACKBOARD
PULLS TO MATCH PULLS ON CASEWORK
DRAWER
FILE (LETTER SIZE)
PL LAMINATE TO MATCH COUNTER
FIN. FLOOR
2'-2¼"
2'-8"
2-5
1-3
EQ.


6 N5-4
7 N5-4
4'-0"
3'-9"
2"
3-8
2"
1'-3"
2'-0"
1'-3"
EQ.
EQ.
@ 24" O.C.

Unit F - Funding

To: Faculty, Students, and Staff in the School of Nursing, Public Health Nursing, Nursing Services, University Hospitals, Colleagues and Friends

From: Irene G. Ramey, Dean, University of Minnesota School of Nursing

Date: March 13, 1976

Re: Nursing-Pharmacy Building

Based on an article in the Minneapolis Star on Friday, March 12th, and on the events of the past week, I have reached the conclusion that many of the Legislators are treating Unit F as a political football, rather than making a judgment on its merits. These Legislators referred to would like to keep the bonded indebtedness for buildings as low as possible, and, rather than paying for the building out of revenues, they want to give a maximum possible income tax rebate. It is election year.

The Senate Finance Committee voted down an amendment for Unit F. There is still a possibility for such an amendment on the Senate floor. The House Appropriations Committee - Education Division will meet at 8:00 A.M. on Monday, March 15th, to consider Unit F. Their building bill then goes to the full House Appropriations Committee, and thence to the floor of the House of Representatives.

CONTINUE TO WRITE OR PHONE YOUR SENATORS AND REPRESENTATIVES. CONTINUE TO URGE YOUR COLLEAGUES AND FRIENDS TO DO SO. TIME IS RUNNING OUT, AND WE NEED FULL FUNDING FOR THE BUILDING.

P.S. March 15th, 10:30 A.M.

This morning the House Appropriations Committee - Education Division passed the following bill for a pared-down Nursing-Pharmacy Building with the following provisions:

State appropriation $7,840,693 (reduced from $11,014,170)
Private funds to be raised $750,000

If the $750,000 in private funds are not obtained by July 1st, the bill will revert to the following amendment which completely eliminates Unit F:

State appropriation of $300,000 for planning to:

(a) Transfer School of Nursing into Mayo
(b) Remodel Appleby Hall for Pharmacy
(c) Assign 7th floor of B-C to Pharmacy

UNIVERSITY OF MINNESOTA
A NEW FACILITY FOR THE SCHOOL OF NURSING
Some Questions and Answers

1. Is a new School of Nursing facility needed?

The School is presently housed in buildings built as dormitories. Faculty offices are located in two separate buildings. The few classroom/laboratory spaces in it are small and inadequate in relation to current student population and numbers and types of programs.

The Minnesota Board of Nursing has twice strongly recommended that more adequate facilities be provided for the School of Nursing.

When the School of Nursing submitted the application for a construction grant to HEW, it was reviewed by a National Advisory Council of 18 persons, and then examined in detail by HEW staff which included nurses and architects. This group of experts selected the School's application out of a large number of requests and awarded the grant on the basis of appropriateness, justification of need, and significance for the region.

2. Why not use more of Powell Hall for School of Nursing space?

Powell Hall was built primarily as a living facility. It contains few classrooms, and those that there are do not meet today's needs. The amphitheater is too small for today's classes, is not adequately or conveniently equipped for the technology needed, and is inadequately ventilated. The laboratory where basic nursing skills are taught is small and inflexible -- it contains 10 hospital beds, and the 280 Sophomores and Juniors must be rotated through it each week in very small groups. A few rooms are usable for meetings or conferences but are extremely difficult to use for classes in which equipment or exhibits are needed. Conversion of dormitory rooms to offices has resulted in less net assignable square feet than those stated because of closets and built-in furniture. Facilities for conducting nursing research by faculty and students are not available in Powell Hall, nor are there facilities for development of needed instructional materials. In addition, the physical layout, or floor plan, does not permit efficient use of personnel. A secretarial pool is situated away from faculty offices and from a copy workroom, necessitating much running up and down halls and stairs by faculty and secretaries, resulting in loss of much valuable time.

3. What kinds of facilities are needed for teaching?

Simulated hospital-type teaching laboratories are needed to teach not only basic nursing techniques, but also advanced techniques which are used in intensive and coronary care units, in rehabilitation units, in premature nurseries, in orthopedic units, etc. Nowadays, much of the nursing care has become too complex for students to practice initially on patients. There are safety factors involved and students should learn to handle complicated equipment in a classroom setting first. Areas are needed also where students can learn to conduct patient interviews and health assessments and where videotape equipment can record and play back their performance for evaluation purposes.

4. What programs in the School require new facilities?

Increasing numbers of students are applying for admission to the baccalaureate program, including R.N.'s from Diploma and Associate Degree programs who desire an opportunity to advance their knowledge and skills in an accelerated program in which they don't have to repeat courses they've already had. Advertisements in newspapers indicate a continuing need in the state for nurses prepared at the baccalaureate level.

The School should greatly increase its graduate enrollment. This requires different kinds of teaching facilities than are now available. Nursing laboratories for Unit F are being planned to be flexible and multi-purpose, so that they can be utilized by both undergraduate and graduate students. Such learning laboratories are unique to nursing programs and cannot be achieved through facilities shared with other Health Science Units. The need for large numbers of nurses prepared at the graduate level has been well documented.

Research facilities are also needed for the School. Graduate students are expected to conduct research as part of their learning experience because the effectiveness of nursing care must be continually evaluated, and new approaches found to help people through the crises of childbirth, illness, surgery, and bereavement. For example, physicians are saving the lives of many persons who have had coronaries, and nurses have researched and found ways to help those coronary patients adjust to and cope with the fears of sudden death, and the long rehabilitation that follows an attack.

The School also has an obligation to help the nurses in the state keep up to date, particularly with the requirement for continuing education for re-licensure which becomes effective in 1978. The Faculty of the School see their mission as providing such continuing education which nurses cannot get in their local areas. Some examples are: (1) advanced types of nursing care, (2) new discoveries emanating from research in the Health Sciences Center, and (3) opportunities to see and hear nationally known persons who cannot travel to each area of the state.

5. Is there any other space on campus that could be re-modeled for the School of Nursing to avoid having to build a new building?

An exhaustive study of this has been made by the University, and there is no block of space of sufficient size in the Health Center which is available, and which has not already been programmed for use. The Space Utilization Study was done at the time when programs were being moved into the newly completed Unit A and is therefore not relevant to the Health Sciences. Utilization of space in B-C for the School of Nursing or the College of Pharmacy would place in jeopardy the $8 million received from the federal government for B-C.

Full funding of Unit F is needed so that the nurses for the state can be prepared properly. A pared-down building, or space, would not provide the space nor the type of facilities that are needed. If cuts were made in the size and type of facilities, the programs would continue to be hampered, as at present, and prevent any expansion needed in the future except in another piecemeal, disjointed effort.

6. Can the federal appropriation be held over for next year?

No. Bids must be let prior to July 21, 1976, or the $8.2 million granted will revert back to the federal government. There are no monies for construction in the new Nursing Training Act which was passed recently.

7. What is the total cost of the building?

State appropriations through 1971	$ 1,669,400
Federal grant/Pharmacy 1975	4,288,811
Federal grant/Nursing 1975	3,976,557
Balance of funds needed	11,014,170
Total Project Estimate	$20,948,938

HSAE

file copy

PROJECT: Unit "F" also Unit B/C

MEMO BY: Bob Nielsen

DATE: March 31, 1976

SUBJECT: Meeting with Fire Department February 9, 1976

On this date the following people met at the Fire Prevention Bureau Office: Chief Allan Wold, Ben Fimon, Gene Kogl, Gus Scheffler, Harry Wilcox and Bob Nielsen.

Drawings showing the fire protection system standpipes and interconnection of Building Unit "B/C" and Unit "F" with Unit A's fire protection system were presented. Also a plan which shows the four points of connection to the water mains in four different streets namely, Washington, Harvard, Church, and Essex Streets and how they are cross connected was reviewed.

It was pointed out the Unit "A" has a 1,000 gallon per minute fire pump electrically driven and Unit B/C will have a 1,000 gallon per minute fire pump driven by diesel engine. A 750 gallon per minute fire pump is proposed for Unit "F". These pumps would all be connected to the same fire protection mains.

There was a discussion between Chief Wold, Gene Kogl and Harry Wilcox relative to the need for the 15,000 gallon reserve fire tank required by Section 1807 of the Uniform Building Code that has been designed for Unit B/C.

Chief Wold approved the omission of the fire tank designed for Unit B/C and agreed that Unit "F" will not require a fire tank based on the drawings presented and a proposed code change if the University was satisfied and agreed.

Chief Wold requested that a test wall hydrant should be provided at grade level rather than the connection to existing Unit A test header which is located in the basement. We will consider a modification to Unit B/C contract to accomplish this.

We reviewed detector check valve locations with Chief Wold. The fire department suggests a separate detector check valve for each building. Mr. Gene Kogl will review with the city water department the requirements of the connections to the city water mains.

Chief Wold requested that at least one elevator in each bank should be available for fire department use. Mr. Gus Scheffler responded to this and explained the elevator separation and the need for elevator use for the handicapped during emergencies.

cc: Chief Allan Wold
Gene Kogl
Harry Wilcox

HSAE

file copy

MEMO TO: Unit B/C File and Unit "F" File

MEMO BY: Robert Nielsen

DATE: March 31, 1976

SUBJECT: Review of Water Service and Fire Protection System on February 6, 1976

People in attendance: Gene Kogl, Jerry Nelson, Gus Scheffler, Pete Merz, Harry Wilcox and Bob Nielsen.

WATER SERVICE

Sketches of the water service routing to and through Unit A, Unit B/C and Unit F shown on a composite drawing were presented and discussed.

The discussion centered on the duplicate water (and fire) services in Delaware Street serving Unit A and Unit B/C as being somewhat redundant particularly when the connection to Washington Street main is made to serve Unit "F" with a 12" cross connection to Unit A's water service.

Consensus of opinion was that in light of the cost reduction needs for Unit B/C it would be feasible to omit the 12" water service (and 8" fire service) to Unit B/C and serve this building (B/C) through a connection to the 12" water service passing through Unit A. Mr Jerry Nelson concurred.

The domestic water meter shall remain in the contract for Unit B/C but should be relocated closer to Unit A connection.

A modification will be forthcoming on these changes.

FIRE SERVICE

Drawings of fire service and standpipe systems for building Unit A, B/C and F on a composite plan were shown and reviewed.

Mr. Gene Kogl requested that we should add a separate fire pump in Unit "F". The size of this pump was discussed it could be sized to serve just Unit F in which case 750 GPM capacity would be sufficient however the head requirement would have to be similar to Unit A pump. This should be reviewed with the fire department.

Mr. Gus Scheffler requested a separate fire service connection to Washington Avenue water main.

Mr. Pete Merz requested an 8" fire line from Unit F and Unit A. This connection would have to be on the suction of the pumps in each building.

FIRE SERVICE (cont.)

It was also suggested that the cross connection on the discharge side should be 8" size. The present fire line through Unit A is 6" size therefore it may be necessary to parallel this line with another 6" fire line. This will need further study to finalize.

A review with the fire department has been set up for next week to discuss the implications of the fire tank as it relates to the over-all fire protection system for all Units A, B/C and F.

BOOSTER PUMPS

Sketch of the booster pump system for Unit A, B/C and F was reviewed.

We recommended that the booster pumps in Unit B/C should remain in the contract rather than omit them and connect the new system to Unit A booster system. We will however consider changing the B/C booster pump RPM from 3500 to 1750 RPM for the cost reduction advantage.

We suggested that the booster pumps in Unit "A" could serve Unit "F" as a cost saving factor for the Unit "F" contract.

cc: Attendees

TAC

THE ARCHITECTS COLLABORATIVE INC.

RECEIVED
MAY 3 1976
UNIV. OF MINN.
HEALTH SCIENCE
PLANNING OFFICE

26 April 1976

Invoice No. 7 - #75036

Mr. Paul Maupin
Health Sciences Coordinator
Box 1, Mayo
University of Minnesota Hospitals
Minneapolis, Minnesota 55455

TO: THE ARCHITECTS COLLABORATIVE INC., Dr.

For: Architectural services in connection with the
University of Minnesota - Unit F.....$49,752.19

Time: 21 February - 2 April 1976

Direct Personnel Expense:
665 hours - $6,153.93

Direct Personnel Expense x 2.75:
$6,153.93 x 2.75 = $16,923.31

Engineer (invoice attached)
Health Sciences Architects & Engineers
3/8/76 $12,368.76
4/13/76 20,460.12 32,828.88

This Request.....$49,752.19

CHARGE TO:		
REQ	PURCHASE ORDER	
534987	D-12611	
FUND	DEPT	BUDGET
9308	9595	02
AUTHORIZED SIGNATURE		

46 BRATTLE STREET, CAMBRIDGE, MASSACHUSETTS 02138, U.S.A.
TELEPHONE: (617) 868-4200 TELEX: 92 1494 TACCAM CABLE: TACCAM U.S.A.

health sciences architects & engineers, INC.

THE CERNY ASSOCIATES INC.
HAMMEL GREEN & ABRAHAMSON INC.
SETTER LEACH & LINDSTROM INC.

113 HUBBARD BUILDING, 2675 UNIVERSITY AVENUE
SAINT PAUL, MINNESOTA 55114

612/646-8875

NEW ADDRESS
University Park Plaza - Suite 7 4
2829 University Avenue S. E.
MINNEAPOLIS, MINN. 55414

8 March 1976

Mr. Ernest L. Birdsall, Treasurer
The Architects Collaborative, Inc.
46 Brattle St.
Cambridge, Massachusetts 02138

Regarding: Health Sciences Architects & Engineers, Inc.
Architectural & Engineering Services
University of Minnesota Health Sciences Expansion
Unit F - Developing Owner/Architect Agreement and
initial Re-evaluation/Redesign effort - Extra Services

Staff Hours

Feb. '76 - Architect	(902)	36 Hrs.	x $13.80	=	$ 496.80	
Feb. '76 - Architect	(905)	97 Hrs.	x $11.15	=	$ 1,081.55	
Feb. '76 - Architect	(958)	144 Hrs.	x $13.85	=	$ 1,994.40	
Feb. '76 - Architect	(959)	4 Hrs.	x $10.38	=	$ 41.52	
					$ 3,614.27	
					x 2.75	
						$ 9,939.24
Feb. '76 - Engineer	(906)	1 Hr.	x $13.20	=	$ 13.20	
Feb. '76 - Engineer	(908)	14 Hrs.	x $15.08	=	$ 211.12	
Feb. '76 - Engineer	(912)	6½ Hrs.	x $13.97	=	$ 90.81	
Feb. '76 - Engineer	(936)	1½ Hrs.	x $13.27	=	$ 19.91	
Feb. '76 - Engineer	(940)	44 Hrs.	x $11.26	=	$ 495.44	
Feb. '76 - Engineer	(942)	6 Hrs.	x $ 8.83	=	$ 52.98	
					$ 883.46	
					x 2.75	
						$ 2,429.52

This Request $12,368.76

ok J. Scott 4.22.76
Bill U/M + TAC time
#75036

health sciences architects & engineers, INC.

THE CERNY ASSOCIATES INC.
HAMMEL GREEN & ABRAHAMSON INC.
SETTER LEACH & LINDSTROM INC.

113 HUBBARD BUILDING, 2675 UNIVERSITY AVENUE
SAINT PAUL, MINNESOTA 55114

612/646-8875

NEW ADDRESS
University Park Plaza - Suite 704
2829 University Avenue S. E.
MINNEAPOLIS, MINN. 55414

13 April 1976

Mr. Ernest L. Birdsall, Treasurer
The Architects Collaborative, Inc.
46 Brattle Street
Cambridge, Massachusetts 02138

Regarding: Health Sciences Architects & Engineers, Inc.
Architectural & Engineering Services
University of Minnesota Health Sciences Expansion
— Unit F - Re-evaluation/Redesign effort - Extra Services
NOTE - All work terminated 19 March 1976.

Staff Hours

Mar. '76 - Architect	(963)	29 Hrs.	x $ 6.92	= $ 200.68	
Mar. '76 - Architect	(964)	58 Hrs.	x $ 6.92	= $ 401.36	
Mar. '76 - Architect	(958)	123 Hrs.	x $13.85	= $1,703.55	
Mar. '76 - Architect	(905)	139 Hrs.	x $11.15	= $1,549.85	
Mar. '76 - Architect	(902)	8½ Hrs.	x $13.80	= $ 117.30	
				$3,972.74	
				x 2.75	
					$10,925.04
Mar. '76 - Engineer	(960)	16½ Hrs.	x $10.96	= $ 180.84	
Mar. '76 - Engineer	(936)	3½ Hrs.	x $13.27	= $ 46.45	
Mar. '76 - Engineer	(940)	36 Hrs.	x $11.26	= $ 405.36	
Mar. '76 - Engineer	(941)	14½ Hrs.	x $10.73	= $ 155.59	
Mar. '76 - Engineer	(942)	57 Hrs.	x $ 8.83	= $ 503.31	
Mar. '76 - Engineer	(945)	43 Hrs.	x $11.54	= $ 496.22	
Mar. '76 - Engineer	(908)	14 Hrs.	x $15.08	= $ 211.12	
Mar. '76 - Engineer	(916)	57 Hrs.	x $ 3.45	= $ 196.65	
Mar. '76 - Engineer	(912)	2½ Hrs.	x $13.97	= $ 34.93	
Mar. '76 - Engineer	(982)	80½ Hrs.	x $ 6.65	= $ 535.33	
Mar. '76 - Engineer	(984)	61 Hrs.	x $11.50	= $ 701.50	
				$3,467.30	
				x 2.75	
					$ 9,535.08

This Request..... $20,460.12

ok
J. Scott
4-22-76
Bill Upham + The time
#75036

UNIVERSITY OF MINNESOTA
TWIN CITIES

348

Division of Space Programming and Management
Office of Physical Planning
N363 Elliott Hall
Minneapolis, Minnesota 55455
(612) 373-2096 7540

May 11, 1976

TO: Clinton N. Hewitt

FROM: Vernon L. Ausen

SUBJECT: 520 Washington Avenue

I have had several inquiries from potential tenants as to how long they can expect the above building to continue to be available for residential use. They are referred to Dave Anderson, but he probably has the same questions I do.

Is there any possibility that funds can be made available to construct all or any portion of the Pharmacy Building so that tenants will have to be moved before the end of the spring quarter 1977?

If there is little likelihood of construction of Unit F for a couple years, will the building be converted to academic use or continue to be used for residential purposes? If it is to be converted, when will the leases have to be terminated?

Finally, what is to be done with the Marlan Apartment? It has been vacant for quite some time.

VLA/MEO

CC: David Anderson
Paul Maupin

FACT SHEET

NURSING/PHARMACY FACILITIES
University of Minnesota

The University of Minnesota has been granted an extension of an $8.3-million federal construction grant commitment for a Nursing/Pharmacy building.

The University of Minnesota must obtain $12.9-million matching State dollars by May 15, 1977.

The project, called Health Sciences Unit F, is completely designed and ready for immediate construction. The land and the architectural fees have been paid by $1.7-million in state funds previously appropriated for this project.

The purpose of the project is four-fold:

--To educate health professionals to meet the health care needs of the State.
--To educate physicians, pharmacists, nurses, dentists and other health professionals together so that they will more effectively practice together.
--To provide for maximum use of expensive resources by providing shared library, laboratories and classrooms.
--To replace inadequate and obsolete facilities now housing the College of Pharmacy and the School of Nursing.

The federal grant commitment allocated to the University of Minnesota represented 30% of the total dollars available nationally for all nursing and pharmacy schools.

The University of Minnesota first requested the matching state funds, then $11-million, from the 1976 legislature. It is our belief that the poor condition of present facilities was recognized by that legislature. The legislative decision was to appropriate $300,000 to the University to explore alternatives to a new building. Three possible schemes were designed which are a marked improvement over existing conditions. Each of the three requires some new construction and some remodeling since there is not sufficient existing space to accommodate both Nursing and Pharmacy. The cost of the three selected alternatives is equal to or greater than a single new building. Installation of modern laboratory technology in very old buildings is particularly difficult. Compliance with energy and building codes also contributes to the high cost of rennovation.

The three alternatives have four important disadvantages:

--Each requires at least three separate program locations.
--None is approved for the federal funds.
--All require using space planned for the School of Public Health.
--None results in significant saving to the State for ongoing operations and maintenance.

Following a review of the alternatives, the University of Minnesota Board of Regents adopted a resolution urging reconsideration of Unit F as the best alternative, both in terms of cost and educational considerations.

Federal funds are contingent upon increased enrollments in Nursing and Pharmacy. The increase in the Nursing School graduate program is viewed as minimal to meet the needs of nursing schools in this State that require masters prepared faculty. The increase in Pharmacy enrollment has been less well accepted. At this time there is no firm evidence that suggests there are too many or too few pharmacists. The changing health care delivery system is an important variable in any prediction of need. The College will not be required to increase enrollments until 1981, with projected graduation in 1986. If, during the intervening years, undisputed evidence of an over-supply of pharmacists exists, it will be possible to have the requirement waived by Congressional action.

Endorsements for the project have been sent to Governor Perpich from:

Minnesota Medical Association
Minnesota Dental Association
Minnesota Pharmaceutical Association
Minnesota AFL-CIO
Minnesota Nurses Association
Statewide Health Coordinating Council (formerly Comprehensive Health Planning)
University Board of Regents
University Hospitals Board of Governors

Required reviews have been conducted by: The Metropolitan Health Board; State Planning Agency; DHEW Regional Office Facilities Engineering and Construction; National Advisory Council; National Peer Review Panel; City Planning, Minneapolis; Minnesota Historical Society; Regional Environmental Review; and the Minnesota State Building Code Division.

Thank you for your interest. For additional information, please call or write:

Dean L. C. Weaver (373-2186)
College of Pharmacy
University of Minnesota
Minneapolis, MN 55455

or

Dean I. Ramey (373-3462)
School of Nursing
University of Minnesota
Minneapolis, MN 55455

Unit F - Pharmacy/Nursing
Feasibility Study

TAC

THE ARCHITECTS COLLABORATIVE INC.

15 June 1976

RECEIVED
JUN 21 1976
UNIV. OF MINN.
HEALTH SCIENCE
PLANNING OFFICE

Mr. Clinton N. Hewitt
Assistant Vice President
Physical Planning
340 Morrill Hall
Minneapolis, MN 55455

Re: University of Minnesota
Health Sciences Expansion

Dear Clint:

We would be most happy to submit a proposal as requested in your letter of 7 June 1976, offering assistance in determining the feasibility of remodeling existing or future facilities to accommodate the program requirements of the School of Nursing and the College of Pharmacy as developed in conjunction with Unit F.

Before submitting the proposal, however, we would like to discuss your intentions regarding the scope of this work and its relationship to the ongoing Unit K feasibility effort and the master planning proposal already submitted. Secondly, we would like to discuss the planning procedures and time frame presently envisioned.

Hopefully, we can arrange a meeting at your convenience to discuss this matter further on my next trip to Minneapolis which is tentatively planned for June 22 - 25.

Very truly yours,

THE ARCHITECTS COLLABORATIVE Inc.

John J. Scott

JJS:KVB

cc: ✔P. Maupin

46 BRATTLE STREET, CAMBRIDGE, MASSACHUSETTS 02138. U.S.A.
TELEPHONE: (617) 868-4200 TELEX: 92 1494 TACCAM CABLE: TACCAM U.S.A.

UNIVERSITY OF MINNESOTA
HEALTH SCIENCES EXPANSION
THE ARCHITECTS COLLABORATIVE Inc.
12 AUGUST 1976

PROPOSAL TO DETERMINE THE FEASIBILITY OF ALTERNATIVES TO UNIT F THAT ACCOMMODATE THE PROGRAM REQUIREMENTS FOR THE COLLEGE OF PHARMACY AND SCHOOL OF NURSING

This is a proposal for professional services to develop and evaluate alternatives to Unit F that provide renovated facilities for the College of Pharmacy and the School of Nursing in existing space or future expansion space. It is based on the recent planning of Unit F, the 1968 Health Sciences Planning Report, and the revised 1971 Master Plan, as modified by present conditions and subsequent inventory or planning documents. The study will include two parts:

I. Definition and evaluation of potential options

II. Development and detailed analysis of feasible options

The scope of work proposed for these parts are described on the pages which follow. A third section contains a fee proposal and project schedule.

U/MINN HSE
TAC
Proposal for Pharmacy/Nursing Feasibility Study
12 August 1976

PART I - DEFINITION AND EVALUATION OF POTENTIAL OPTIONS

A. Summary of Unit F Program Requirements

1. Consolidate, cross-reference, and bind the uncompleted Design Development phase documents, studies and meeting notes of programming and architectural planning involved in the redesign of Unit F during the period October 1975 through March 1976 and furnish two copies of the following material:

   a. Notes of meeting and telephone conversations
   b. Correspondence and interim reports
   c. Program or tabulation of spaces and areas
   d. Floor plans (1/16" = 1'-0") of Levels B through 9
   e. Equipment lists (as prepared by HSPO)
   f. Equipment layouts or detailed room studies (1/4" = 1'=0")

2. Complete a summary of type, size and number of spaces and the total net area requirements of the programs for the College of Pharmacy and School of Nursing, including Pharmacy/Nursing shared facilities and Health Sciences shared facilities as developed for Unit F and shown on plans dated 15 March 1976.

3. Develop alternative programs or criteria for options which separate Pharmacy and Nursing departments having shared facilities in the Unit F program.

4. Identify the basic minimum dimensions or modules of typical and specialized spaces and the basic configuration(s) of inter-related spaces or suites.

5. Identify the key functional relationships of administrative, teaching, research, clinical and service facilities as established for each program during the redesign of Unit F.

B. Summary of Unit F Cost and Construction Schedules

1. Summarize the gross area and net-to-gross ratios by floor and/or assigned functions as developed for Unit F and establish appropriate net-to-gross area factors for assigning basic program elements to space available in various options.

2. Summarize the estimated construction costs and total project costs for Unit F, escalated through December 1978 in accordance with recent planning, for comparison with estimated costs of various options.

3. Summarize the major events in the projected construction schedule for completion and delivery of Unit F for comparison with other options.

C. Survey of Available Space and Implementation Schedules

1. Review floor and site plans of existing and projected facilities to determine the location(s) and the net useable (or assignable) areas and gross areas of shelled space, vacated space, potential expansion space, and space currently assigned to Pharmacy or Nursing functions.

a.	Unit B/C	Shell space
b.	Mayo Complex	Assigned and vacated space
c.	Unit A	Expansion space (below plaza)
d.	Unit K/E	Vertical expansion space
e.	Harvard Street Apartments	Vacated and expansion space
f.	JOML	Assigned and vacated space
g.	Powell Hall	Assigned and vacated space
h.	Appleby Hall	Assigned and expansion space
i.	Fraser Hall	Assigned and vacated space
j.	Others	

2. Review the revised 1971 Master Plan and subsequent inventory or planning documents to determine the actual and projected assignment of space by department.

3. Review the implementation programs and schedules of shell space development in Unit B/C, renovation of Jackson-Owre-Millard-Lyon (JOML) and Mayo Hospital, projected new construction of Unit D and other Phase I elements of the Master Plan to determine alternatives for assignment of space.

4. Review program options and implementation schedules of the vertical expansion of Unit K/E, the development of Unit J and other Phase II elements of the Master Plan to determine alternatives for assignment of spaces.

D. Definition and Evaluation of Potential Options

1. Identify and record all potential options for generally accommodating the program elements in available space, based on net and gross area requirements.

2. Develop phasing schedules or other proposal(s) to provide interim teaching facilities for options which require renovation of space in Appleby Hall, Powell Hall or other facilities.

3. Evaluate each of the potential options for general conformance to the program requirements of Pharmacy and Nursing fucntions.

4. Identify the influences of each option on the long-range programs, departmental adjacencies, expansion requirements, and implementation schedules contained in the Master Plan for the Health Sciences Expansion.

5. Indicate probable start and completion of construction based on Phases I and II of the Master Plan.

6. Estimate probable construction and total project costs based on gross area and factors appropriate to the type of facility and general conditions of the available space.

7. Summarize findings as a matrix of information and assist in selecting the most feasible options for detailed development and analysis.

PART II - DEVELOPMENT AND DETAILED ANALYSIS OF FEASIBLE OPTIONS

A. Schematic Development of Options

1. Analyze the floor plans of existing or projected buildings and indicate the present (or required) primary corridor circulation, egress stairs, vertical transportation, service shafts, toilets and housekeeping facilities to differentiate space assignable to program functions.

2. Suggest the location of specific program elements and the configuration of inter-related spaces or suites, and evaluate the arrangements for conformance to program requirements.

3. Summarize and compare the net-to-gross area ratios of the options.

B. Survey of Existing (or Projected) Buildings

1. Inspect buildings and plans identified in options and assemble information regarding date(s) of construction and remodeling, floor-to-floor and floor-to-ceiling heights, structure, materials, construction, finishes, corridor widths, stair and ramp dimensions, elevator capacities and other data required for planning and code analysis.

2. Determine age, type, scope and condition of plumbing, heating, ventilation, air-conditioning, fire protection, power, lighting and communication systems.

3. Analyze existing structure for design load, construction classification and condition.

4. Analyze buildings for aspects of life safety, including allowable area, fire divisions, occupant content, stair capacity and travel distance to egress based on program content of options.

C. Implementation of Options

1. Develop detailed schedules for completing options in conjunction with Phases I and II of the Master Plan.

2. Identify critical dates or sequences of implementation of options.

3. Suggest appropriate contractual methods of project delivery.

4. Summarize and compare project delivery methods and schedules.

D. Detailed Cost Analysis of Options

1. Define the scope and complexity of new structural remodeling and finishes based on program requirements.

2. Define the scope and type of new mechanical and electrical services, including modifications to central plant and distribution systems.

3. Identifiy items of new construction required to comply with code provisions for life-safety, the handicapped and energy conservation.

4. Summarize and compare the estimated construction and total project costs for options, based on scope of work and time schedules.

5. Indicate the life expectancy and long-term utility of capital investments based on quality of construction and implementation of the Master Plan.

E. Findings and Conclusions

1. Summarize the program, survey and analytic data developed in Parts I and II of this proposal.

2. Issue a report of findings and conclusions.

3. Assist in the preparation of graphic and other material for legislative presentations.

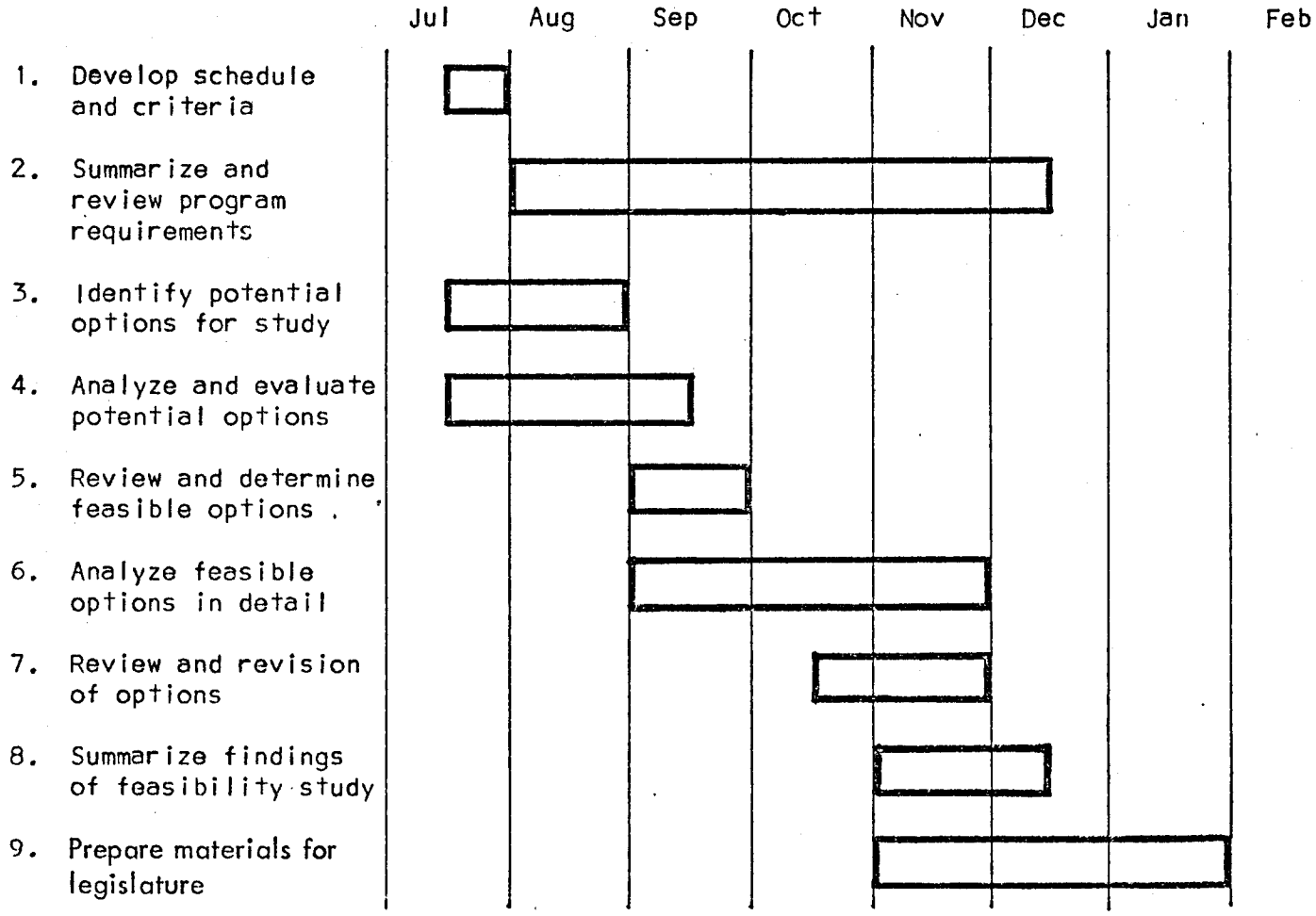
PART III - FEE PROPOSAL AND PROJECT SCHEDULE

A. We propose that the University shall compensate the architects for the work outlined in Part I and Part II of this proposal according to the conditions outlined in the attached documents:

1. Standard Form of Agreement Between Owner and Architect, (A.I.A. Document B141); Compensation of the basis of a multiple of direct personnel expense.

2. Schedule of Charges, Time Charge Contracts as a multiple of direct personnel expense; TAC document, effective date May 1974.

B. It is assumed that the work proposed in previous sections to determine the feasibility of remodeling existing (or future) facilities to accommodate the program requirements of the School of Nursing and the College of Pharmacy, based on the planning of Unit F, will be developed according the the following schedule:



THE ARCHITECTS COLLABORATIVE INC.

JEAN B. FLETCHER 1945 1965
WALTER GROPIUS 1945 1969
NORMAN FLETCHER
JOHN C. HARKNESS
SARAH P. HARKNESS
LOUIS A. McMILLEN

RICHARD BROOKER
ALEX CVIJANOVIĆ
HERBERT GALLAGHER
WILLIAM J. GEDDIS
ROLAND KLUVER
PETER W. MORTON
H. MORSE PAYNE
ERNEST L. BIRDSALL TREASURER

ROBERT F. CRANE
HOWARD ELKUS
ALLISON GOODWIN
BASIL HASSAN
JOHN HAYES
JOSEPH HOSKINS
LEONARD NOTKIN
RICHARD SABIN
DAVID SHEFFIELD

QAZI B. AHMED
ROBERT BARNES
KENDALL P. BATES
SERGE CVIJANOVIĆ
ROYSTON DALEY
ROBERT DeWOLFE
GREGORY DOWNES
GAIL FLYNN
GERALD FOSTER
THOMAS LARSON
RALPH MONTGOMERY
PERRY NEUBAUER
IGOR G. PLATOUNOFF
RICHARD PUFFER
WALTER ROSENFELD
JOHN J. SCOTT
EDMUND SUMMERSBY
KENNETH TAYLOR
MALCOLM TICKNOR
ROBERT TURNER
ROBERT WILSON
LAURENCE ZUELKE

13 August 1976

Mr. Clinton N. Hewitt
Assistant Vice President
Physical Planning
University of Minnesota
340 Morrill Hall
Minneapolis, MN 55455

Re: University of Minnesota
Health Sciences Expansion
Pharmacy/Nursing Feasibility Study
TAC Job No. 76044

Dear Clint:

In response to your request of 7 June 1976, we developed a detailed outline of work to be included in a Pharmacy/Nursing Feasibility Study. The attached proposal, dated 12 August 1976, is based on our recent discussions and on meetings of 30 June and 20 July 1976 which clarified the intended scope and schedule of the study.

During the meetings it was agreed that the program requirements for Unit F would be the basis for evaluating alternative facilities and that work to define and analyze options would be substantially completed by December 1976 to allow sufficient time for preparing materials to be used in legislative presentations.

As you are aware, all aspects of programming and architectural work involved in the redesign of Unit F were discontinued last March before documents for the Design Development phase were completed. Copies of record remain to be made of the material currently on file at our offices. While all of the redesign work is specific to the Unit F building configuration, much of the programming information listed in Part One, Items A1 and A2, of the attached proposal is fundamental to any further planning effort involving the College of Pharmacy or School of Nursing. For this reason, we have incorporated the work to compile and cross-reference the basic planning documents in Part One of the proposal. Assuming that the incomplete equipment layouts and room studies and the preliminary equipment lists (as developed by the Health Sciences Planning Office) would not be revised or correlated, we estimate that the cost to complete Items A1 and A2 would be approximately $ exclusive of reimbursable printing expenses. As an option, this work could be assigned to a separate account and deducted from the scope of the actual feasibility study if so desired.

46 BRATTLE STREET, CAMBRIDGE, MASSACHUSETTS 02138, U.S.A.
TELEPHONE: (617) 868-4200 TELEX: 92 1494 TACCAM CABLE: TACCAM U.S.A.

In the remaining work of Part One extending over a two-month period, we expect to identify locations and define various options for accommodating the program requirements. The options would be evaluated for conformance to program, implementation of the Master Plan, date of availability, and probable cost, etc. We estimate that the cost to complete this work would be approximately $ with additional reimbursable expenses of $

We assume that Part Two, Items A through D, will extend over the subsequent two or three month period and would involve more definitive planning and detailed analysis of code, building systems, project delivery methods, schedules and costs. Based on the detailed development of two options, we estimate that the cost to complete this work would be approximately $ with additional reimbursable expenses of $

Numerous variables exist in the outlined scope, particularly in the process of developing and analyzing options in conjunction with the Master Plan, and in preparing a final report and other material that will be suitable for legislative presentations. We assume that our joint efforts will continue to evaluate and direct the results within the allotted time and that we will mutually reassess the requirements and the upsets noted if so required.

At this time we would like to formalize a letter agreement or AIA Document B141 (Standard form of Agreement between Architect and Owner) based on the above discussion and documents. We propose to provide architectural services requested by the University of Minnesota as an additional service in accordance with the following:

> The Architect, as requested by the University, will perform under his Scope of Services (Article 1.3) any or all of the architectural and engineering work required by the Pharmacy/Nursing Feasibility Study 12 August 1976 (attached). Before commencing such work, the Architect will consult the University to mutually determine the specific scope, requirements, and costs of the study or any portion thereof.
>
> Compensation for Extra Services (Article 6.2) shall be computed on the basis of Employee's time at a multiple of 2.75 times the employee's Direct Personnel Expense.
>
> Under Reimbursable Costs (Article 5) the University shall reimburse the Architect for the following:

The cost of any special consultants when the employment of such special consultants has been approved in advance by the University. The Architect will be compensated at a multiple of 1.1 times the amount billed to the Architect for such services. (Cost estimating services will be considered as a special consultant.)

The cost of the Architect for living and travel expenses in connection with the project when approved in advance by the University.

The cost of computer time, telephone, postage and handling and the reproduction of drawings and reports.

Payment (Article 6) for Extra Services of the Architect and for Reimbursable Expenses shall be made monthly upon presentation of the Architect's statement of services rendered.

If this method of proceeding is satisfactory to you, please sign one copy of this letter and return it to us with the appropriate order for billing purposes.

Very truly yours,

THE ARCHITECTS COLLABORATIVE Inc.

John J. Scott

JJS:KVB

Approved:

_____

Date_____

PHARMACY/NURSING FEASIBILITY STUDY

COLLEGE OF PHARMACY/SCHOOL OF NURSING: OPTIONS

CRITERIA

THE OPTIONS LISTED ARE SELECTED SOLELY FOR THEIR ABILITY TO SATISFY AREA REQUIREMENTS OF THE COLLEGE OF PHARMACY AND THE SCHOOL OF NURSING. SELECTED SITES ARE CHOSEN FOR THEIR ABILITY TO CONTAIN MAJOR PORTIONS OF PROGRAM SPACE, WITHOUT NECESSITATING SUBDIVISION OF PROGRAM ELEMENTS IDENTIFIED IN ADJACENCY DIAGRAMS.

METHOD

OPTIONS ARE LISTED SEPARATELY FOR PHARMACY AND FOR NURSING. WITHIN EITHER PHARMACY OR NURSING, OPTIONS USING EXISTING SPACE ARE SEPARATED FROM THOSE REQUIRING NEW SPACE.

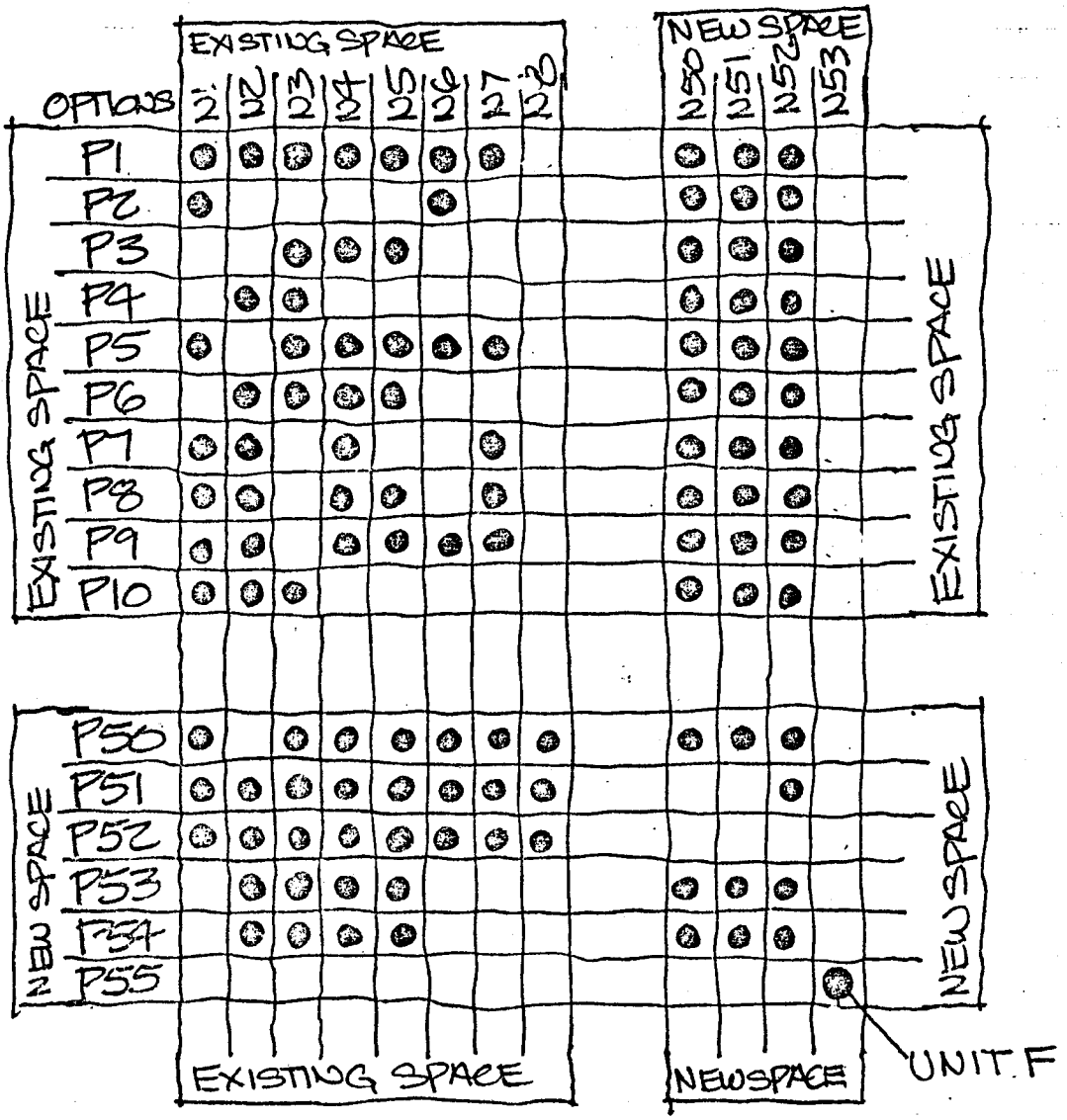
THE MATRIX SUMMARIZING COMPOSITE OPTIONS IDENTIFIES THE POSSIBLE COMBINATIONS OF PHARMACY AND NURSING OPTIONS LISTED TO DATE. THERE ARE THREE MAJOR CATEGORIES OF COMPOSITE OPTIONS: COMPOSITE OPTIONS IN EXISTING SPACE
COMPOSITE OPTIONS IN EXISTING/NEW SPACE
COMPOSITE OPTIONS IN NEW SPACE

16 AUGUST, 1976

PHARMACY/NURSING FEASIBILITY STUDY

COLLEGE OF PHARMACY/SCHOOL OF NURSING: COMPOSITE OPTIONS

THE MATRIX BELOW SUMMARIZES 114 POSSIBLE COMBINATIONS OF THE OPTIONS FOR LOCATING THE COLLEGE OF PHARMACY AND THE SCHOOL OF NURSING.



42 COMPOSITE OPTIONS IN EXISTING SPACE
61 COMPOSITE OPTIONS IN EXISTING + NEW SPACE
11 COMPOSITE OPTIONS IN NEW SPACE

16 AUGUST, 1976

PHARMACY/NURSING FACILITY STUDY

COLLEGE OF PHARMACY: EXISTING SPACE OPTIONS

OPTION		LOCATION NUSF	FUNCTION UNIT SF	+/-	COMMENT
P1	OK?	FRASER 77,000	ALL 78,100	-1,100 SF	
P2	OK??	APPLEBY 40,900	RESEARCH ANIMALS SERVICE 41,400	-500 SF	
		MAYO 1,2,3 37,000	UNDERGRAD ADMIN CP/HP/PA 36,700	-300 SF	
P3	OK??	APPLEBY 40,100	RESEARCH ANIMALS SERVICE 41,400	-500 SF	
		HANDICAPS 41,000	UNDERGRAD ADMIN CP/HP/PA 36,700	+4,300	
P4	OK??	MAYO 1,2,3 37000	RESEARCH ANIMALS SERVICE 41,400	-4400	SHIFT 4400 SF DEFICIT TO HANDI. ARTS
		HANDICAPS 41,000	UNDERGRAD ADMIN CP/HP/PA 36,700	+43000	

PHARMACY/NURSING FEASIBILITY STUDY

COLLEGE OF PHARMACY: EXISTING SPACE OPTION

OPTION		LOCATION NOSF	FUNCTION USF	+/-	COMMENT
P5	No.	B/C-7 25,000	RESEARCH 35,200	-10,200 SF	
		B/C-B 5100	ANIMALS 2500	+3,200 SF	
		AFFLEET 40,900	SVC, UNDERGRAD ADMIN, CP/HP/PA 40,200	+600 SF	
P6	No	B/C-7 25000	RESEARCH 35,200	-10,200	
		B/C-B 5,100	ANIMALS 2500 SHELL.	+2,200	
		HANFORD APTS 41,000	SVC, UNDERGRAD ADMIN, CP/HP/PA 40,200	+800	
P7	No	B/C BIMS 63,200	RESEARCH, SVC UNDERGRAD, ANIMALS 55,500	+7,700	COULD ADD ADMIN.
		FOWELL 25,000	ADMIN, CP/HP/PA 32,000	+7,000	

PHARMACY/NURSING FEASIBILITY STUDY — COLLEGE OF PHARMACY: OPTIONS IN EXISTING SPACE

OPTION		LOCATION NOW SF	FUNCTION UNIT SF	+/-	COMMENT
P8	NO.	BC/B, HHIS 63,000	RESEARCH, SVC UNDERGRAD ANIMALS ADMIN 63,500	-300	MOVE 300 TO WILSHIRE
		WILSHIRE 15,000	CP/HP/PA 14,600	+400	
P9	NO.	B/C 7,13,14,15 82,000	ALL 78,100	+10,100	
P10	NO.	MAYO 1,2,3 37,000	RESEARCH/SVC 36,900	-1400	
		FAIRWIDE: HUMAN 26,000	UNDERGRAD CP/HP/PA 28,700	-2,700	
		B/C B 5700	ANIMALS 2500	+ 3,200	
		POWELL 25,000	ADMIN 8,000	+17,000	

PHARMACY/NURSING FEASIBILITY STUDY — COLLEGE OF PHARMACY: OPTIONS IN NEW SPACE

OPTION	LOCATION NGSF	FUNCTION UNIT SF	+/-	COMMENT
P50 OK +	APPLIED 46,000 + ADDITION 26,100	ALL 78100	—	
P51 OK +	KE 4-8 74310	ALL 78100	-3790	
P52 OK +	KE 6-10 83,480	ALL 78100	+5380	
P53 OK +	HARVARD APTS PLUS INFILL PLUS MAXPLAZA PLUS TOWER PL. 79000	ALL 78,100	+900	
P54 NO!	B/C 7 + 15 25000	RESEARCH 35,200	-10,300	
	HARVARD APTS PLUS INFILL 61,500	(RESEARCH 10,300) SVC, ADMIN ANIMALS, CP/HPPA UNDERGROUND 68,400	-1100	
P55 great	COMMERCE WAREHOUSE + HARVARD 78,100	ALL 78100	—	

PHARMACY/NURSING FEASIBILITY STUDY

SCHOOL OF NURSING: EXISTING SPACE OPTIONS.

OPTION		LOCATION NUSF	FUNCTION UNIT SF	+/-	COMMENT
N1	+	HARWICK APTS 41,000 NUSF	ALL 40,500	+500 SF	SINGLE LOCATIO FOR TOTAL PROG
N2	+	APPLEBY 41,000 NUSF	ALL 40,500	+500 SF	SINGLE LOCATIO FOR TOTAL PROG
N3	OK	BK 14 & 15 40,300	ALL 40,500	-200 SF	SINGLE LOCATIO FOR TOTAL PROG
N4	+	MAYO 1,2,3 37000	TEACHING FACULTY OFFS ADMIN 36,700	+300 SF	
		MAYO 5 3000	RESEARCH 3800	-800 SF	
N5	POSSIBLE	TOWELL 25000	FACULTY OFFS ADMIN 25,800	-800 SF	
		MAYO CLINICS 20,000	TEACHING RESEARCH 14,700	+5,300 SF	
N6	+	TOWELL 25,000	FACULTY OFFS ADMIN 25,800	-800	
		WILSHIRE 15,000	TEACHING RESEARCH 14,700	+300	

PHARMACY/NURSING FEASIBILITY STUDY

SCHOOL OF NURSING: EXISTING SPACE OPTIONS

OPTION		LOCATION NUSF	FUNCTION UMTSF	+/-	COMMENT
N7	+	MAPLAWN/ATHLETIC 26,000	FACULTY OFFICES ADMIN. 25,800	-200	
		MAYO CLINICS 20,000	TEACHING, RESEARCH 14,700	+5,300 GF	
N8	+	ALL BOREL HALL.			

PHARMACY/NURSING FACILITY STUDY

School of Nursing: New Space Options

OPTION	LOCATION NUSF	FUNCTION UNIT SF	+/-	COMMENT
N50	KE 45/6 41,020	All 40,500	+520	
N51	KE 5/6/7 41,735	All 40,500	+1,235	
N52	KE 9&10 36,660	All 40,500	-3,840	
N23	Corner @ Washington & Harvard 40,500	All 40,500	—	

PHARMACY/NURSING FEASIBILITY STUDY

UNIT F PROGRAM: COLLEGE OF PHARMACY/SCHOOL OF NURSING

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PHARMACY/NURSING FEASIBILITY STUDY

UNIT F PROGRAM: COLLEGE OF PHARMACY/SCHOOL OF NURSING

INTRODUCTION

The summary of required spaces is derived from plans for Unit F: College of Pharmacy and School of Nursing, dated 15 March 1976. This tabulation lists the net area of all programmed spaces by departments and by functional groupings within departments. Net area multiplied by a factor results in unit area which approximates the area required for programmed spaces plus circulation.

All spaces are measured from center lines of their enclosing partitions. Fixed building elements including structure, mechanical shafts, stairs, elevators and perimeter walls are excluded. In addition, spaces not directly assignable to any specific department, such as public toilets and janitors' closets, are considered to be part of the building's gross area and are not listed.

AREA SUMMARY

	Department	Net Area Square Feet	Unit Factor	Unit Area Square Feet
School of Nursing	13.1 Research	3,065	1.25	3,800
	13.2 Teaching	8,740	1.25	10,900
	13.3 Faculty Offices	14,545	1.25	18,200
	13.4 Administration	6,075	1.25	7,600
	Subtotal	32,425		40,500
College of Pharmacy	18.1 Service	2,935	1.25	3,600
	18.2 Undergraduate	11,300	1.25	14,100
	18.3 Administration	6,360	1.25	8,000
	18.4 C.P./H.P./P.A.	11,695	1.25	14,600
	18.5 Research	28,230	1.25	35,300
	Animal Quarters	1,970	1.25	2,500
	Subtotal	62,490		78,100
Shared Facilities	13.0/18.0 Pharmacy/ Nursing	5,875	1.25	7,300
	17.0 Health Sciences	2,665	1.25	3,300
	TOTAL	103,455		129,200

General

The following design criteria are derived from initial programming and master plan documents, grant applications and meeting notes of Unit F redesign and form the basis for evaluation of other options that accommodate facilities for the College of Pharmacy and School of Nursing:

1. Integrate the College of Pharmacy and School of Nursing into the main Health Sciences complex.

   a. Promote interaction of faculty, staff and students in the interdisciplinary teaching, clinical and research programs.

   b. Utilize shared classroom, resource and support facilities.

2. Develop facilities in the framework of the Master Plan circulation, organization and expansion of the Health Sciences Complex.

   a. Maintain connections with staff, student, patient, visitor and service circulation patterns.

   b. Assign large undergraduate classrooms and seminar rooms to Levels 2, 3, or 4 (one level up or down from main level) to minimize requirements for vertical transportation.

   c. Develop appropriate departmental or facility adjacencies with capabilities for expansion as projected.

   d. Provide space as programmed for Unit F that will accommodate projected student enrollment for a minimum of 5 years after completion of facilities.

3. Consolidate administrative, faculty, teaching, research and support facilities.

Pharmacy

Specific requirements for the College of Pharmacy are as follows:

1. Locate the teaching and faculty facilities for convenient access to the Basic Sciences of Anatomy, Pharmacology, Microbiology, Physiology and Pathology, and the clinical departments of the Medical School and the Schools of Public Health, Dentistry and Nursing.

2. Locate undergraduate teaching facilities for convenient access to the Bio-Medical Library in Diehl Hall.

3. Provide greenhouse and animal facilities with convenient and discrete access to laboratories.

4. Locate the Drug Information Center near the Bio-Medical Library in Diehl Hall.

Nursing

Specific requirements for the School of Nursing are as follows:

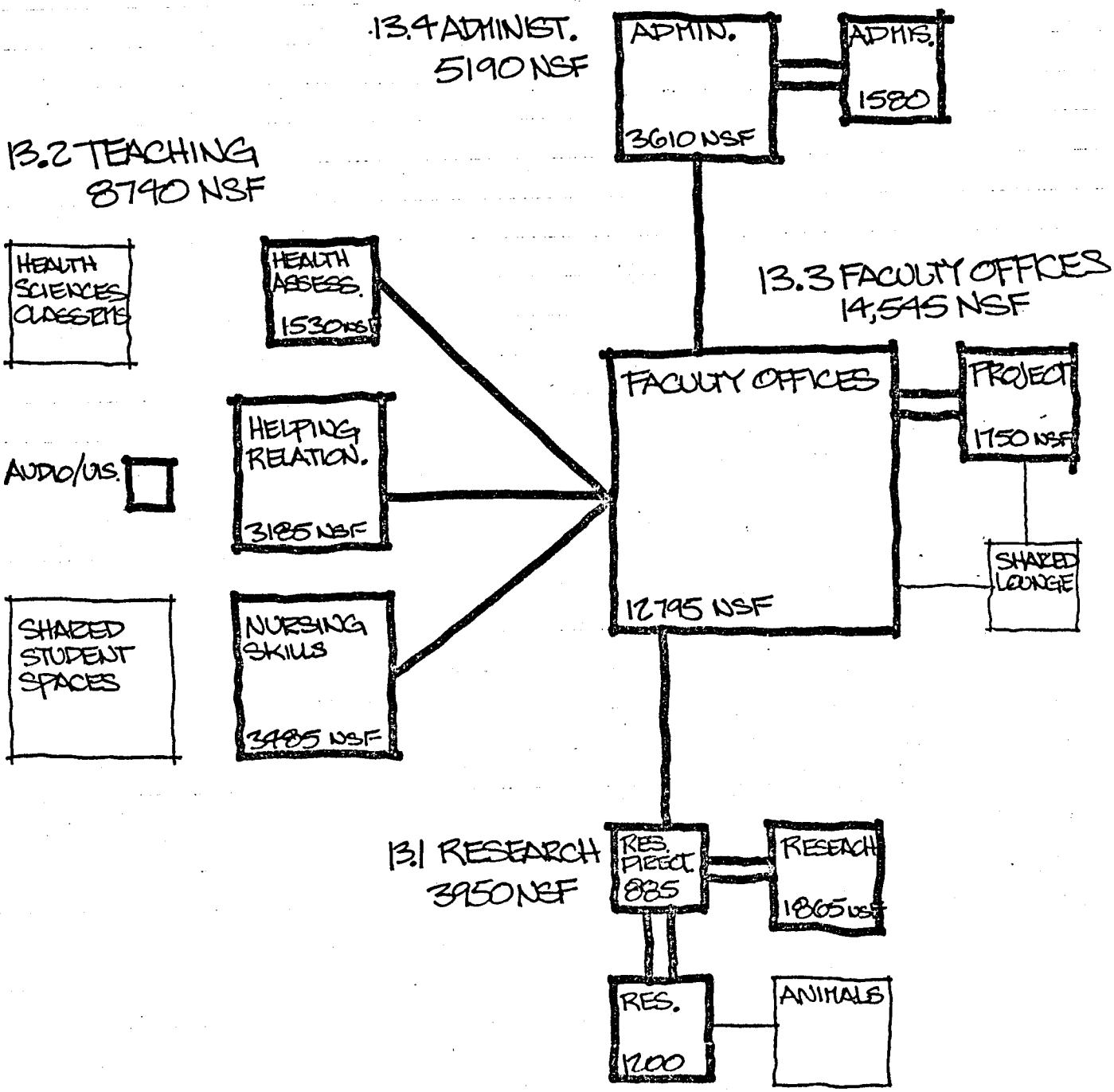
1. Locate teaching and faculty spaces with convenient access to facilities for inpatient and ambulatory care, the Basic Sciences, the Schools of Medicine, Public Health, and Dentistry and the Colleges of Pharmacy and Liberal Arts.

2. Locate undergraduate facilities with convenient access to the Bio-Medical Library in Diehl Hall.

PHARMACY/NURSING
FEASIBILITY STUDY

SCHOOL OF NURSING: ADJACENCY DIAGRAM.

THIS DIAGRAM REPRESENTS THE NEED FOR CERTAIN PROGRAM ELEMENTS WITHIN THE SCHOOL OF NURSING TO BE CONTIGUOUS. A SINGLE LINE CONNECTION INDICATES A DESIRED LINK, TWO LINES AN IMPORTANT LINK.



TOTAL AREA: 32,425 NSF.

PHARMACY/NURSING FEASIBILITY STUDY

UNIT F PROGRAM: SCHOOL OF NURSING

	Space	Area	Number	Total	
13.1 RESEARCH	Behavioral Study Lab	370	1	370	
	Environmental Lab	315	1	315	
	ECR	150	1	150	
	Observation	150	1	150	
	Observation	115	1	115	
	Waiting	190	1	190	
	Toilet	40	1	40	
	Kitchen	40	1	40	
	Work	225	1	225	
	Data	135	2	270	
				1865	
	Nursing Lab	600	1	600	
	Nursing Lab	300	1	300	
	Office	150	2	300	
				1200	
	TOTAL NSF				3065
13.2 TEACHING	Waiting	420	1	420	
	Study	120	1	120	
				540	
Nursing Skills	Skills Lab (20 beds)	2430	1	2430	
	Nurses Station	525	1	525	
	Tub Room	150	1	150	
	Storage	190	1	190	
	Linen	65	1	65	
	Classroom	125	1	125	
				3485	
Health Assessment	Exam Room, Single	115	8	920	
	Exam Room, Double	230	2	460	
	Observ/Conf	150	1	150	
				1530	
Helping Relationships	Seminar	585	1	585	
	Seminar	450	2	900	
	Conference	300	2	600	
	Conference	245	1	245	
	Interview	115	4	460	
	Carrel	40	2	80	
	A/V Work	315	1	315	
				3185	
	TOTAL NSF				8740

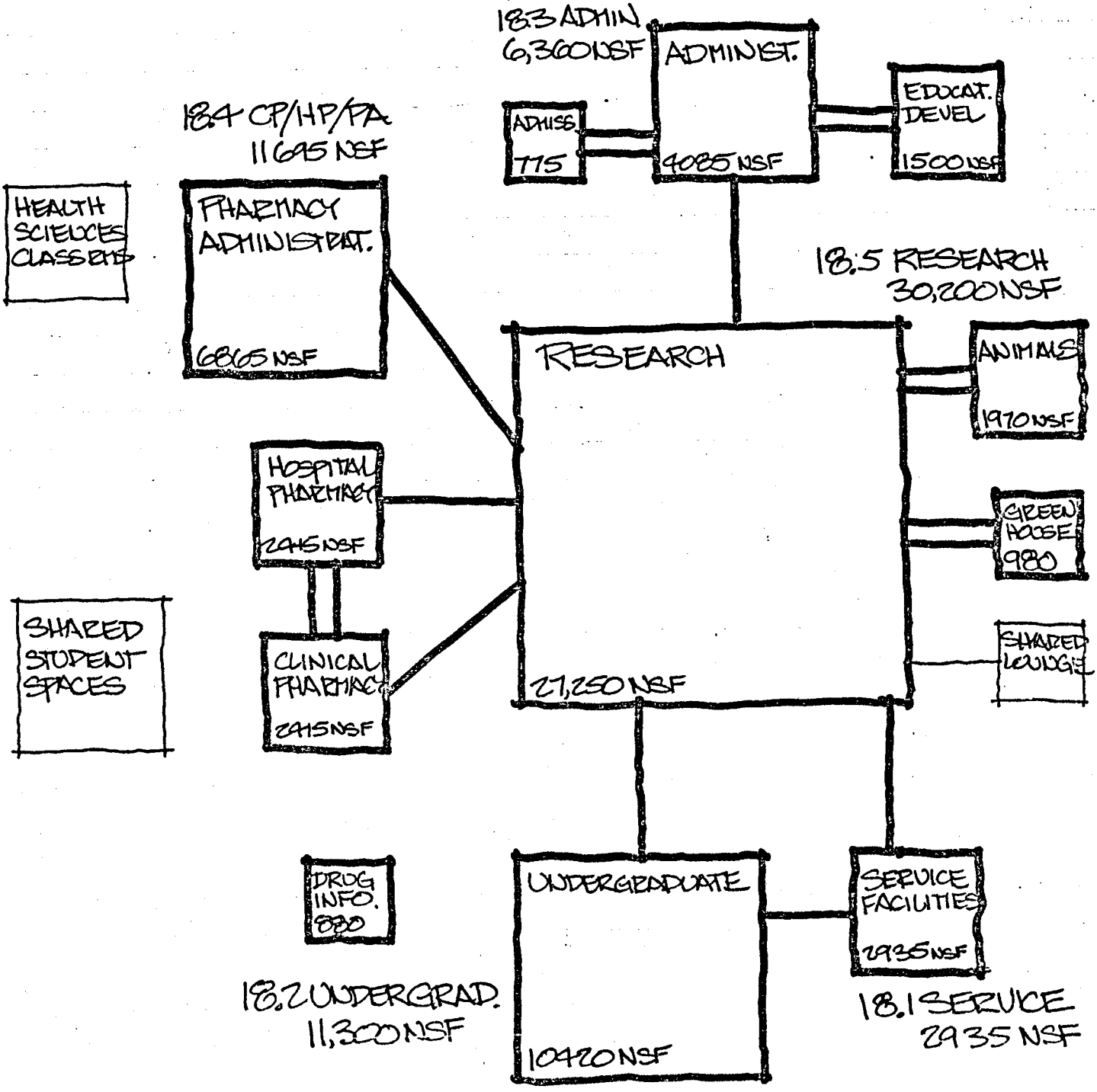
	Space	Area	Number	Total	
13.3 FACULTY OFFICES					
	Office, 1 Desk	115	72	8280	
	Office, 2 Desks	175	10	1750	
	Office, Clinical Appts.	350	1	350	
	Project Work Room	350	2	700	
	Educational Development	350	2	700	
				11780	
	Reception	250	1	250	
	Interview	100	2	200	
	Conference	265	1	265	
	Conference	300	1	300	
	Seminar	570	1	570	
	Office, Typing Supv.	100	2	200	
	Supply/Work	100	1	100	
	Sec. & Supply/Work	350	1	350	
	Secretary	530	1	530	
				2765	
	TOTAL NSF				14545
13.4 ADMINISTRATION	Recept/Wait	335	1	335	
	Office, Dean's Sec	120	1	120	
	Office, Sec.	560	1	560	
	Office, Dean	300	1	300	
	Office, Assoc. Dean	150	1	150	
	Office, Assist. Dean	150	3	450	
	Conference	305	1	305	
	Kitchen	45	1	45	
	Toilet, Dean	45	1	45	
	Office, Admin. Off.	125	1	125	
	Office, Bus. Staff	300	1	300	
	Work Room	290	1	290	
	School Records	150	1	150	
				3175	
Continuing Education	Office, Director	150	1	150	
	Office, Staff	135	1	135	
				285	
Shared Facilities	Copy Room	150	1	150	
				150	
Admissions & Records	Office, Stud. Admissions	625	1	625	
	Office, Director	120	1	120	
	Office, Staff	300	1	300	
	Student Records	140	1	140	

	Space	Area	Number	Total	
Admissions & Records (cont)					
	Interview	62.5	2	125	
	Conference	200	1	200	
	Kitchen	35	1	35	
	Toilet, Staff	35	1	35	
				1580	
Research					
	Office, Director	135	1	135	
	Office, Sec.	150	1	150	
	Conf./Read.	150	1	150	
	Research Support	450	1	450	
				885	
	TOTAL NSF				6,075
13.0 NURSING	TOTAL NSF				32,425

PHARMACY/NURSING FEASIBILITY STUDY

COLLEGE OF PHARMACY: ADJACENCY DIAGRAM

THIS DIAGRAM REPRESENTS THE NEED FOR CERTAIN PROGRAM ELEMENTS WITHIN THE COLLEGE OF PHARMACY TO BE CONTIGUOUS. A SINGLE LINE CONNECTION INDICATES A DESIRED LINK, TWO LINES AN IMPORTANT LINK.



TOTAL AREA: 62,490 NSF

SCALE 1/64" = 1'-0"

UNIT PROGRAM: COLLEGE OF PHARMACY

	Space	Area	Number	Total	
18.1 SERVICE FACILITIES	Central Supply	1520	1	1520	
	Glass Wash	300	1	300	
	Solvent Storage	225	1	225	
	Mechanical Shop	225	1	225	
	Instrument Shop	215	1	215	
	Storage	190	1	190	
	Parenteral Prod. Lab	135	1	135	
	Sterile Room	125	1	125	
	TOTAL NSF				2,935
18.2 UNDERGRADUATE	Dispensing Lab	1740	1	1740	
	Stock Room	145	1	145	
	Prep Room	135	1	135	
				2020	
	Drug Information	880	1	880	
				880	
	Undergraduate Labs	2430	2	4860	
	Fume Hood Room	275	2	550	
	Conference Room	275	2	550	
				5960	
	Pharmacokinetics	450	1	450	
				450	
	Instrument Lab	1140	1	1140	
	Preparation Room	300	1	300	
	Stock Room	225	1	225	
	Storage	25	1	25	
	Balance	225	1	225	
	Fire Control	75	1	75	
				1990	
	TOTAL NSF				11,300
18.3 ADMINISTRATION	Wait, Reception	225	1	225	
	Office, Secretary	450	1	450	
	Office, Dean	275	1	275	
	Office, Assist. Dean	185	2	370	
	Office, Alumni Rel.	175	1	175	
	Office, Secretary	325	1	325	
	Conference	420	1	420	
	Kitchen, Conf.	40	1	40	
	Toilet, Dean	40	1	40	
	Office, Admin.	185	1	185	
	Office, Business Staff	210	1	210	

	Space	Area	Number	Total
18.3 ADMINISTRATION (continued)	Office	125	2	250
	Copy/Work	225	1	225
	Records	225	1	225
	Kitchen, Staff	40	1	40
	Toilet, Staff	40	1	40
				3495
Continuing Education	Office, Director	150	1	150
	Office, Asst. Director	140	1	140
	Office, Staff	300	1	300
				590
Admissions	Office/Wait	450	1	450
	Office, Director	140	1	140
	Conference	185	1	185
				775
Educational Development	Office	150	2	300
	Secretary	150	1	150
	Conference	300	1	300
	Multipurpose	450	1	450
	Media Storage	150	1	150
	A/V Storage	150	1	150
				1500
	TOTAL NSF			6360
18.4 CLINICAL PHARMACY HOSPITAL PHARMACY	Office, Faculty	140	6	840
	Office, Faculty	175	2	350
	Office, Faculty	150	1	150
	Office, Faculty	125	2	250
	Secretarial	140	1	140
	Clin. Pharm. Stud.	1900	1	1900
	Hosp. Pharm. Stud.	600	1	600
	Office	150	4	600
				4830
Pharmacy Administration	Seminar	600	1	600
	Conference	300	2	600
	Office	150	1	150
	Data Process	225	1	225
	Calc. Lab	375	1	375
	Storage	25	1	25
	Group Interaction	225	2	450
	Observation	75	1	75
	Student Space	150	8	1200
	Reading	380	1	380

	Space	Area	Number	Total	
Pharmacy Administration (continued)	Pharma. Syst.	225	1	225	
	Pharma. Syst.	115	2	230	
	Project Work	190	3	570	
	Office, Project	115	3	345	
	Project, Sec.	300	1	300	
	Office, Faculty	125	5	625	
	Office, Faculty	175	2	350	
	Secretary	140	1	140	
				6865	
	TOTAL NSF				11,695
18.5 RESEARCH	Secretary	215	1	215	
	Office	140	2	280	
	Lab	225	1	225	
	Lab	290	1	290	
	Storage	40	1	40	
	Kitchen	40	1	40	
	Grad Lab	2430	1	2430	
	Faculty Lab	600	2	1200	
	Office	265	2	530	
	Conference	450	1	450	
	Instrument Room	1140	1	1140	
	Office	150	1	150	
	Cold Room	150	1	150	
	Grad Lab	600	1	600	
	Rad. Syn	220	1	220	
	Counting	150	1	150	
	Dark Room	80	1	80	
	Grad Lab	1200	1	1200	
	Faculty Lab	600	2	1200	
	Faculty Lab	300	2	600	
	Instrument Lab	300	2	600	
	Office	150	2	300	
	Office	135	4	540	
	Grad Lab	900	1	900	
	Chromat	375	1	375	
	Instruments	240	1	240	
	Multipurpose Lab	530	1	530	
	Sterilizer	50	1	50	
	Cold Room	95	1	95	
	Ferment.	300	1	300	
	Constant Temp.	240	1	240	
	Environ. Rooms	35	5	175	
	Clean	100	1	100	
	Transfer	135	1	135	
	Gowning/Shower	75	1	75	
				15845	

18.5 RESEARCH (continued)	Space	Area	Number	Total
	Secretary	215	1	215
	Office	140	2	280
	Lab. Dept. Head	290	1	290
	Lab	225	1	225
	Storage	40	1	40
	Kitchen	40	1	40
	Grad Lab	1975	1	1975
	Instrument Lab	320	1	320
	Faculty Lab	450	4	1800
	Office	125	8	1000
	Grad Lab	810	1	810
	Cold Room	100	1	100
	CP Off/Lab	300	1	300
	Spec Proj Lab	600	1	600
	Test Lab	300	1	300
	Conference	450	1	450
	Dry/Mill	250	1	250
	Dust Room	65	1	65
	Extract Lab	250	1	250
	Drug Storage	190	1	190
	Post Doc. Lab	375	1	375
	Cold Room	90	2	180
	Grad Lab	900	1	900
	Instrument Lab	225	1	225
	Freezer	75	1	75
	Cold Room	150	1	150
				11405
Animal Quarters	Animal Room	100	4	400
	Animal Room	125	2	250
	Animal Room	200	1	200
	Inject	100	1	100
	Dog Room	220	1	220
	Cage Wash	300	1	300
	Bedding	75	1	75
	Cooler	30	1	30
	Prep	75	1	75
	Animal O.R.	260	1	260
	Recovery	60	1	60
				1970
Greenhouse	Greenhouse	675	1	675
	Potting Room	305	1	305
				980
	TOTAL NSF			30,200
18.0 PHARMACY	TOTAL NSF			62,490

PHARMACY/NURSING
FEASIBILITY STUDY

UNIT F PROGRAM: SHARED FACILITIES

13.0/18.0 Pharmacy/ Nursing

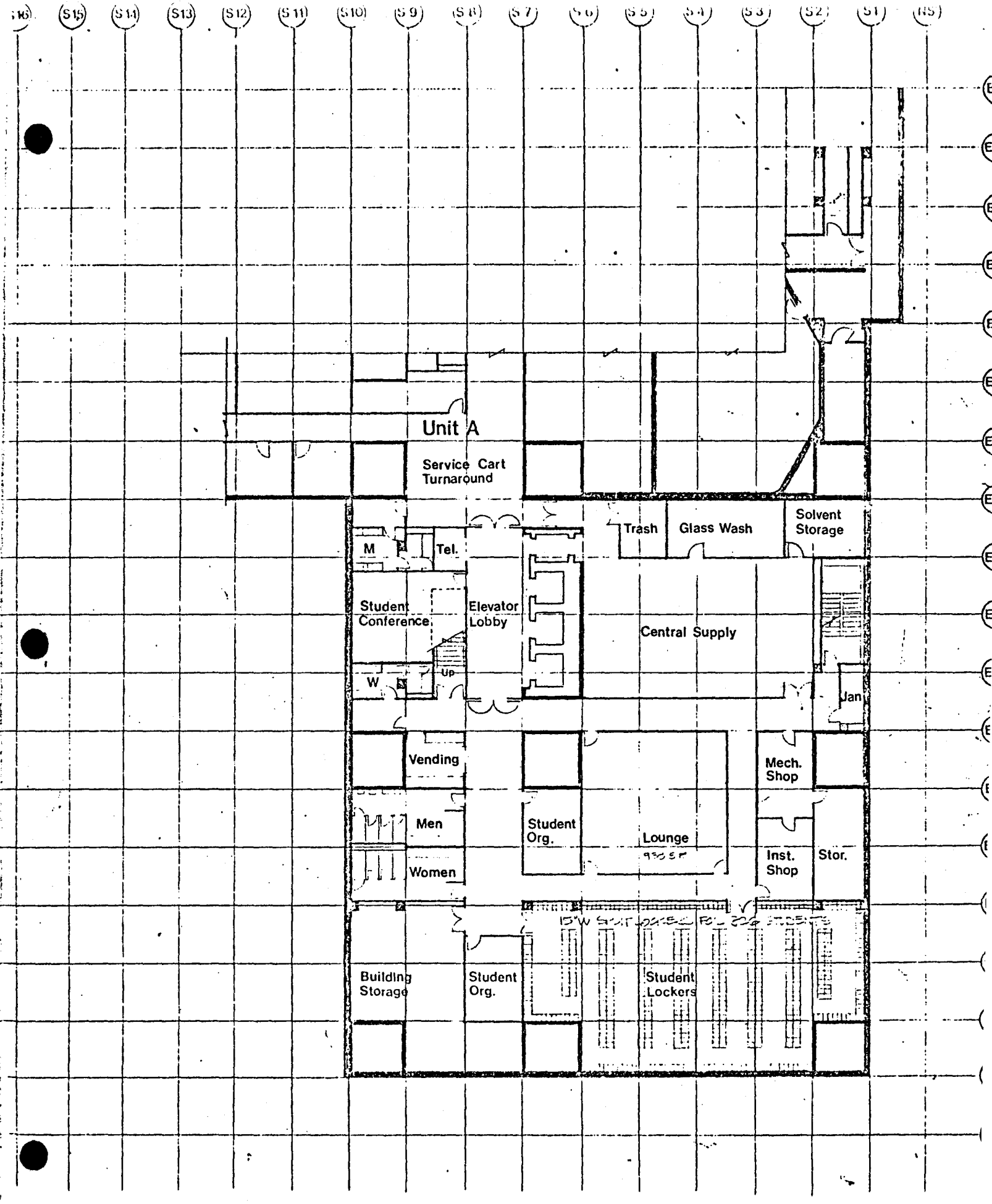
Space	Area	Number	Total
Student Conf	425	1	425
Lounge	950	1	950
Student Org.	225	2	450
Student Lockers	2400	1	2400
Student Study	450	1	450
Faculty Lounge	900	1	900
Data Process	300	1	300
TOTAL NSF			5875

PHARMACY/NURSING
FEASIBILITY STUDY

UNIT F PROGRAM: SHARED FACILITIES

17.0 HEALTH SCIENCES

Space	Area	Number	Total	
Employee Locker	200	2	400	
Vending	150	1	150	
Conference	260	2	520	
Classroom	1595	1	1595	
TOTAL NSF				2665



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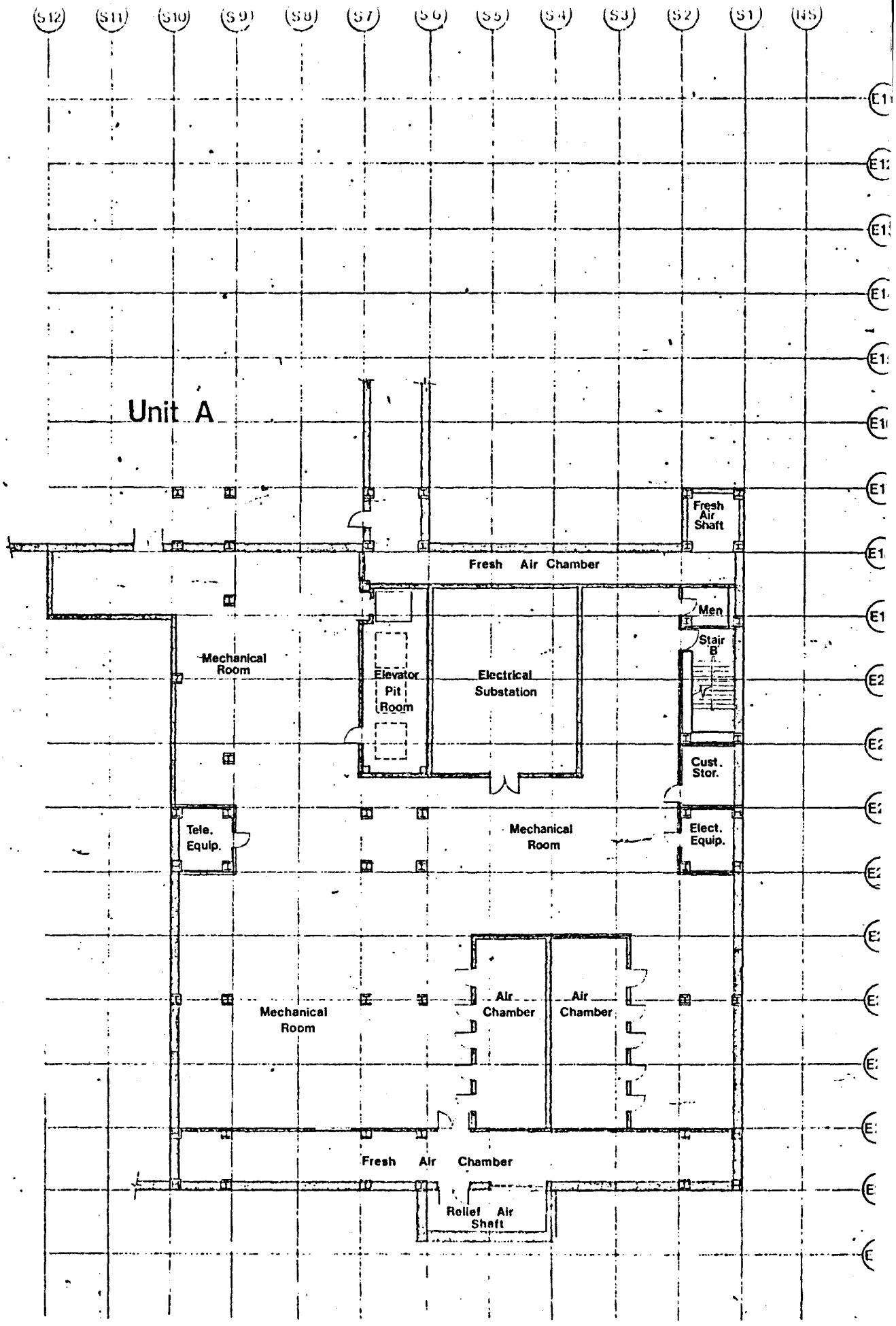
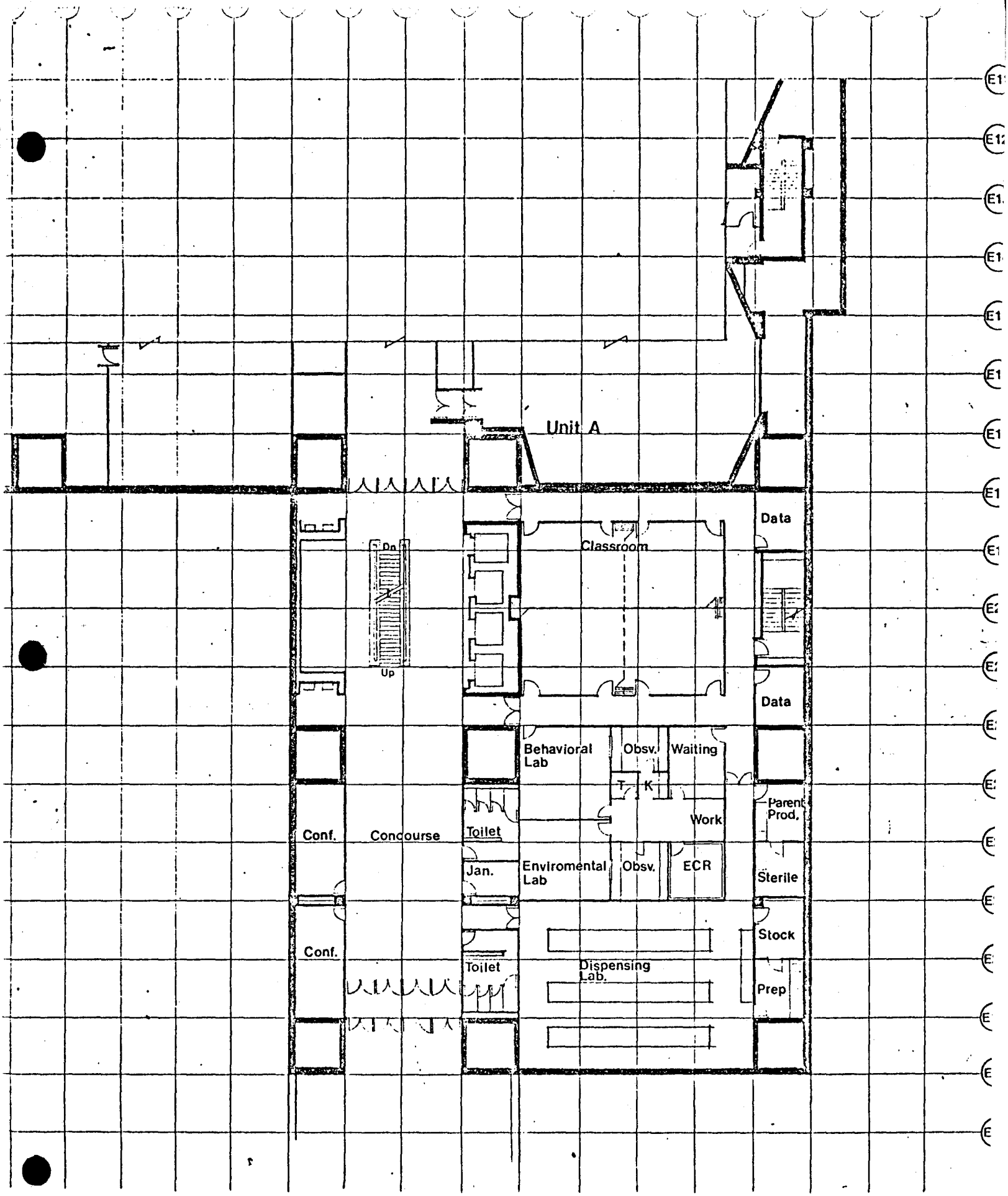
Unit F: Floor 1



Unit F:
Basement Floor



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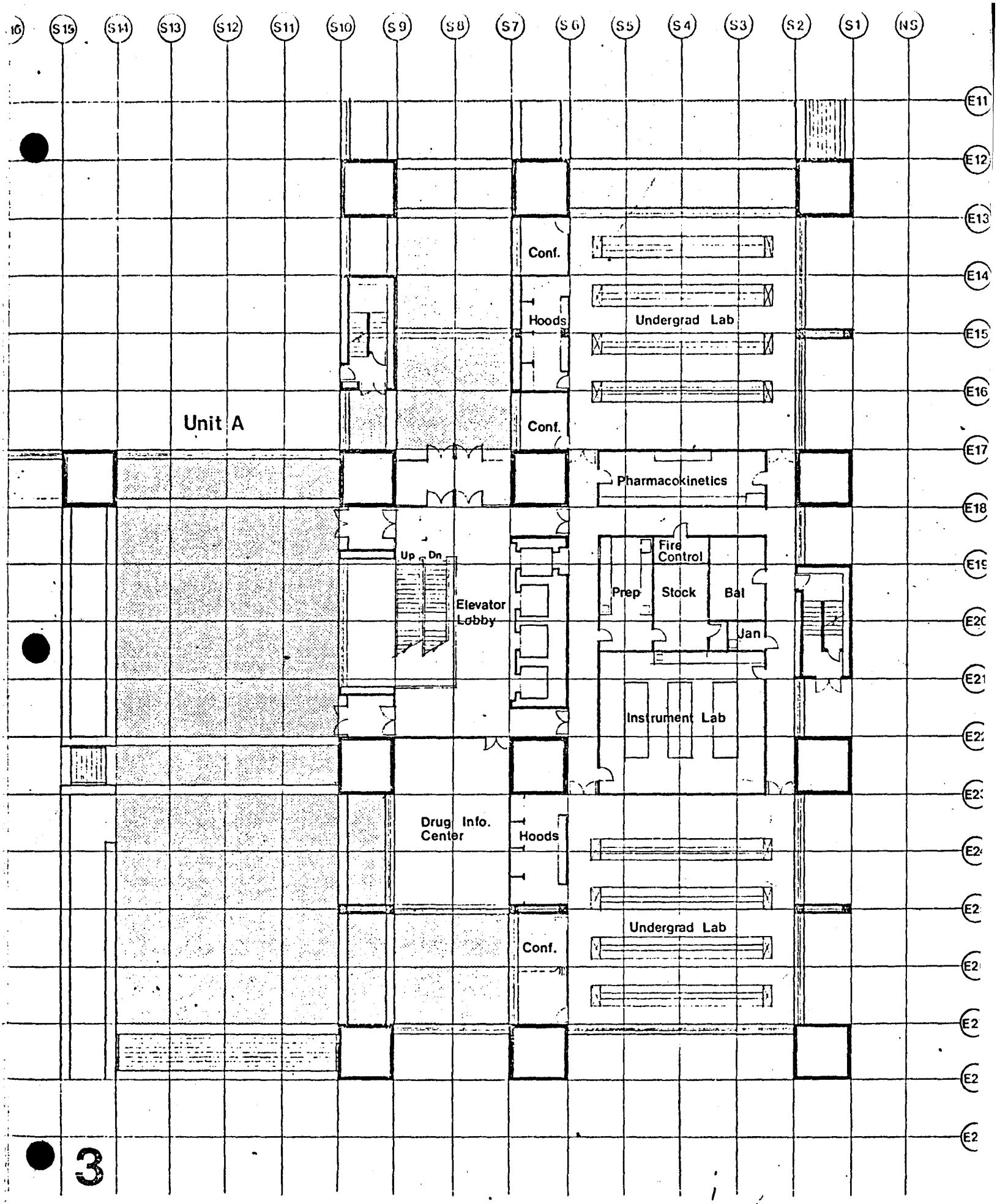
REVISIONS

Unit F: Floor 2



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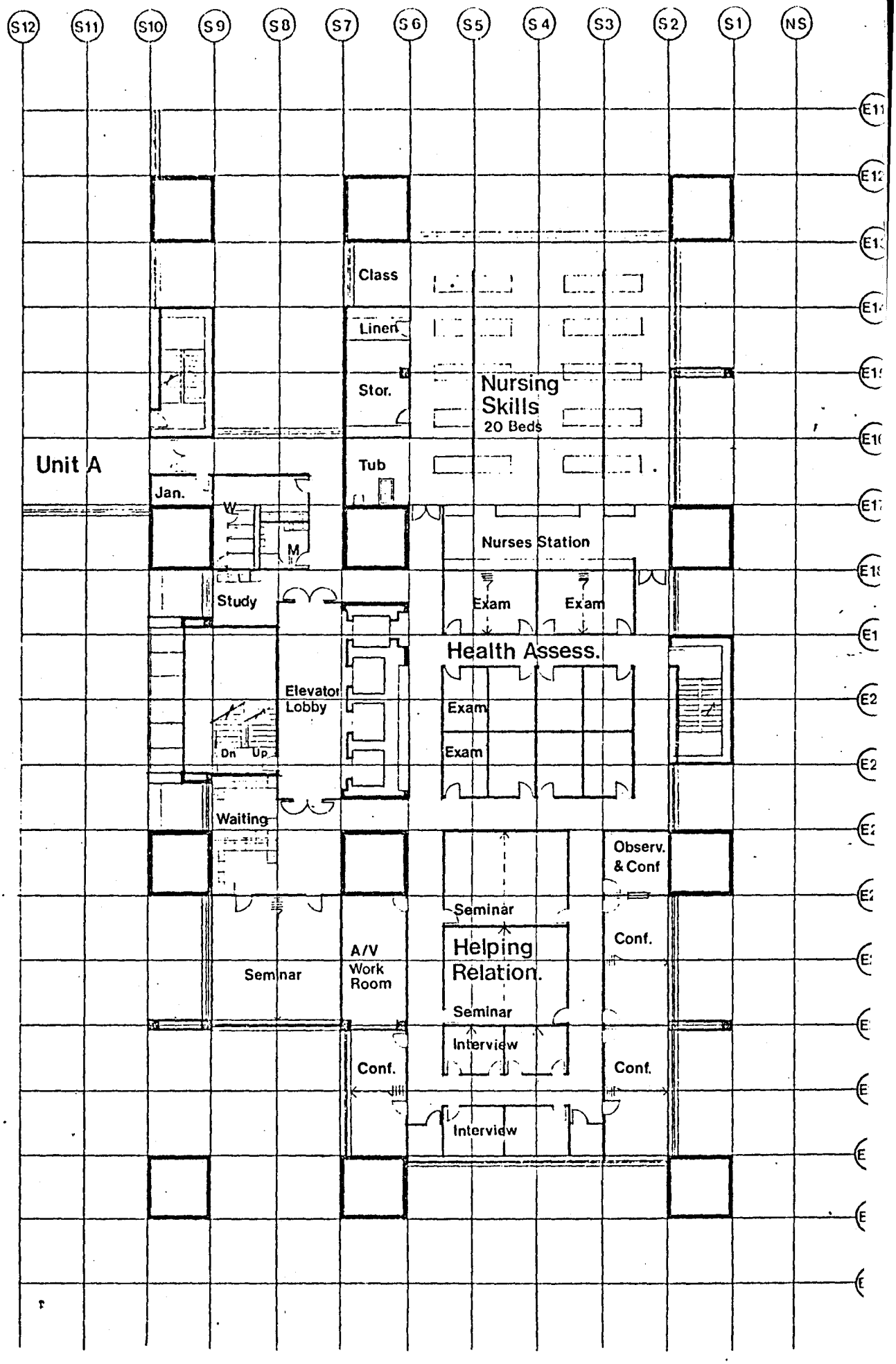
Unit F: Floor 3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S11
S10
S9
S8
S7
S6
S5
S4
S3
S2
S1
NS
Class
Linen
Stor.
Nursing
Skills
20 Beds
Unit A
Tub
Jan.
W
M
Nurses Station
Study
Exam
Exam
Health Assess.
Elevator
Lobby
Exam
Exam
Dn
Up
Waiting
Observ.
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Seminar
A/V
Work
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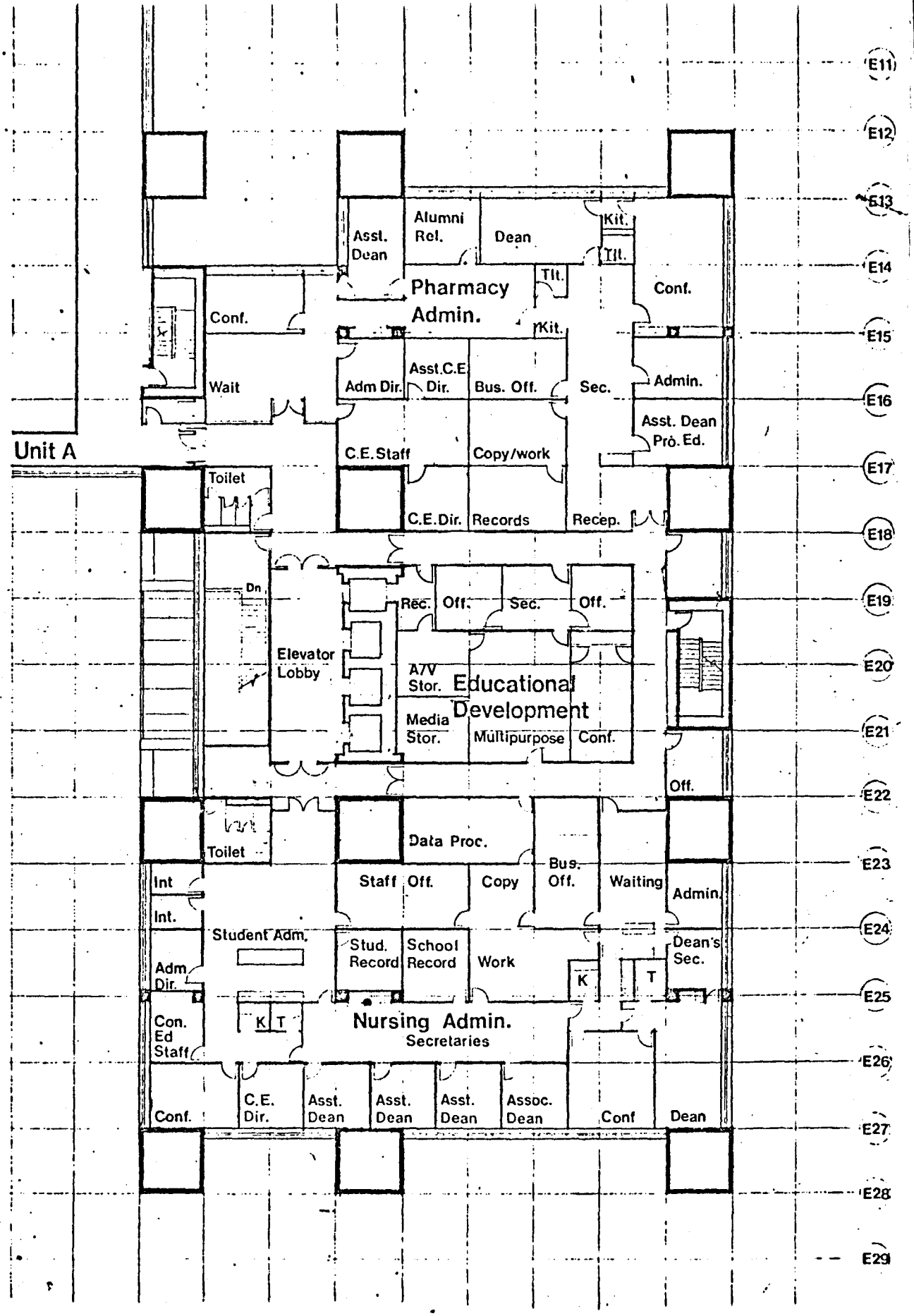

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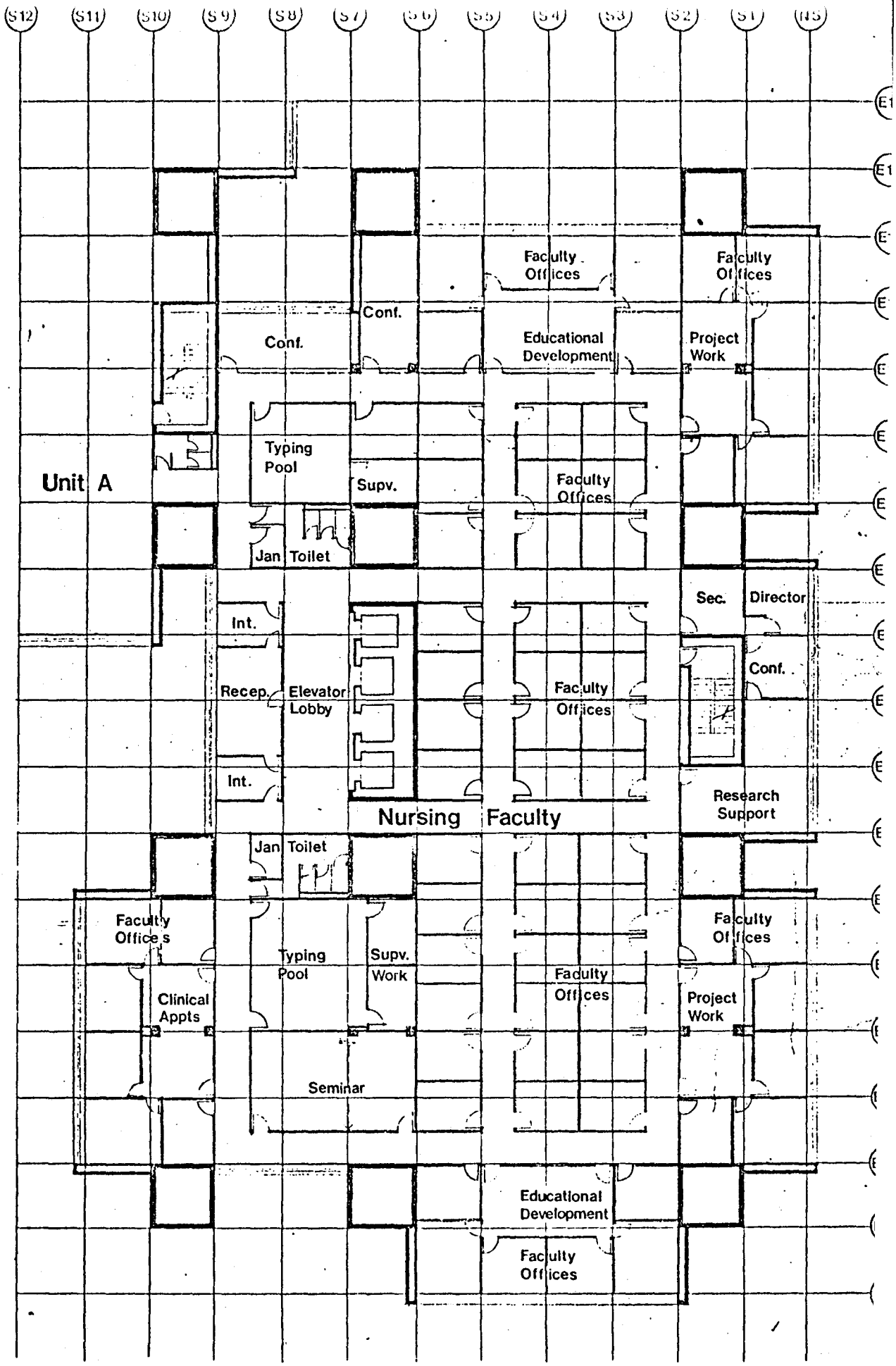
Unit F: Floor 5



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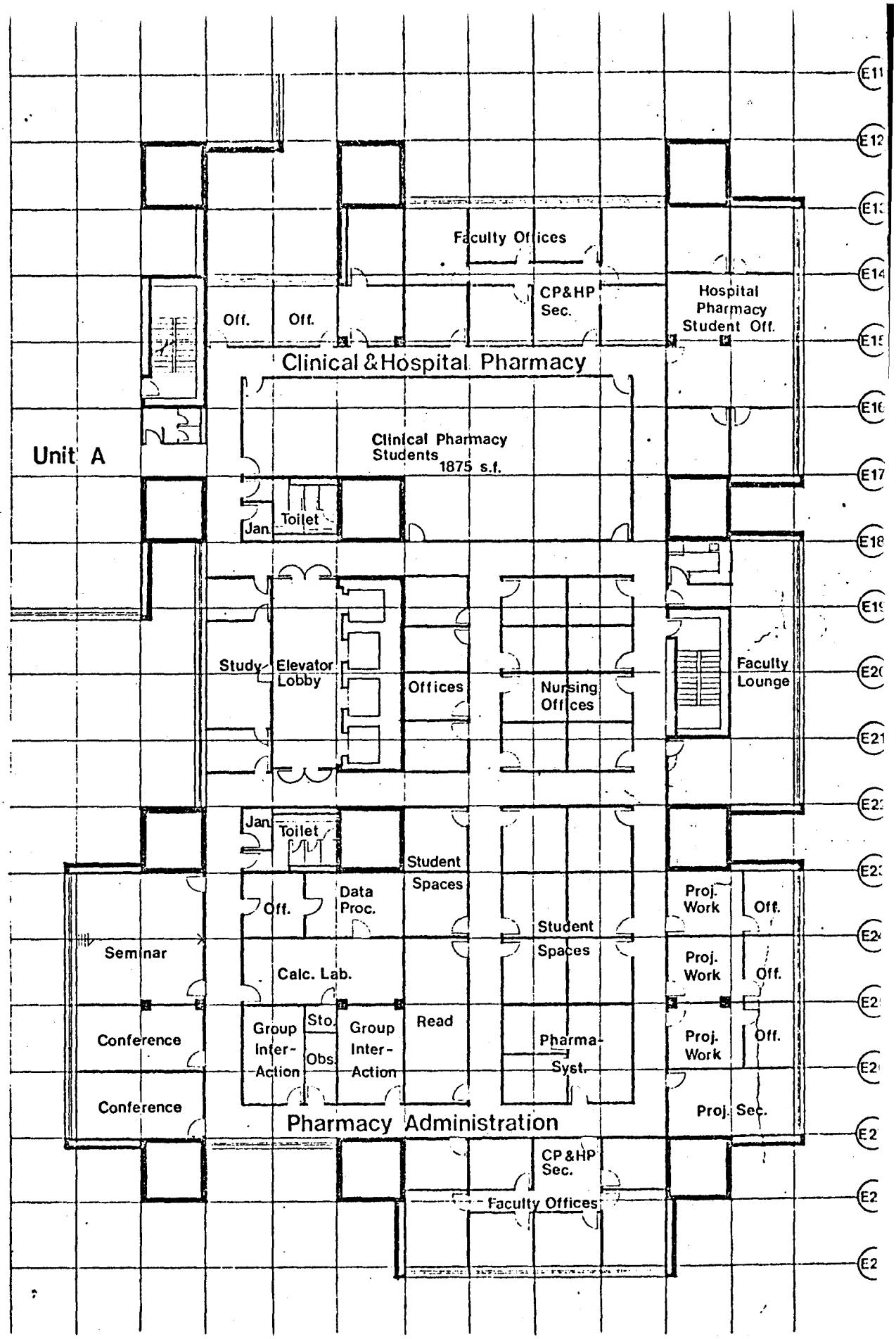
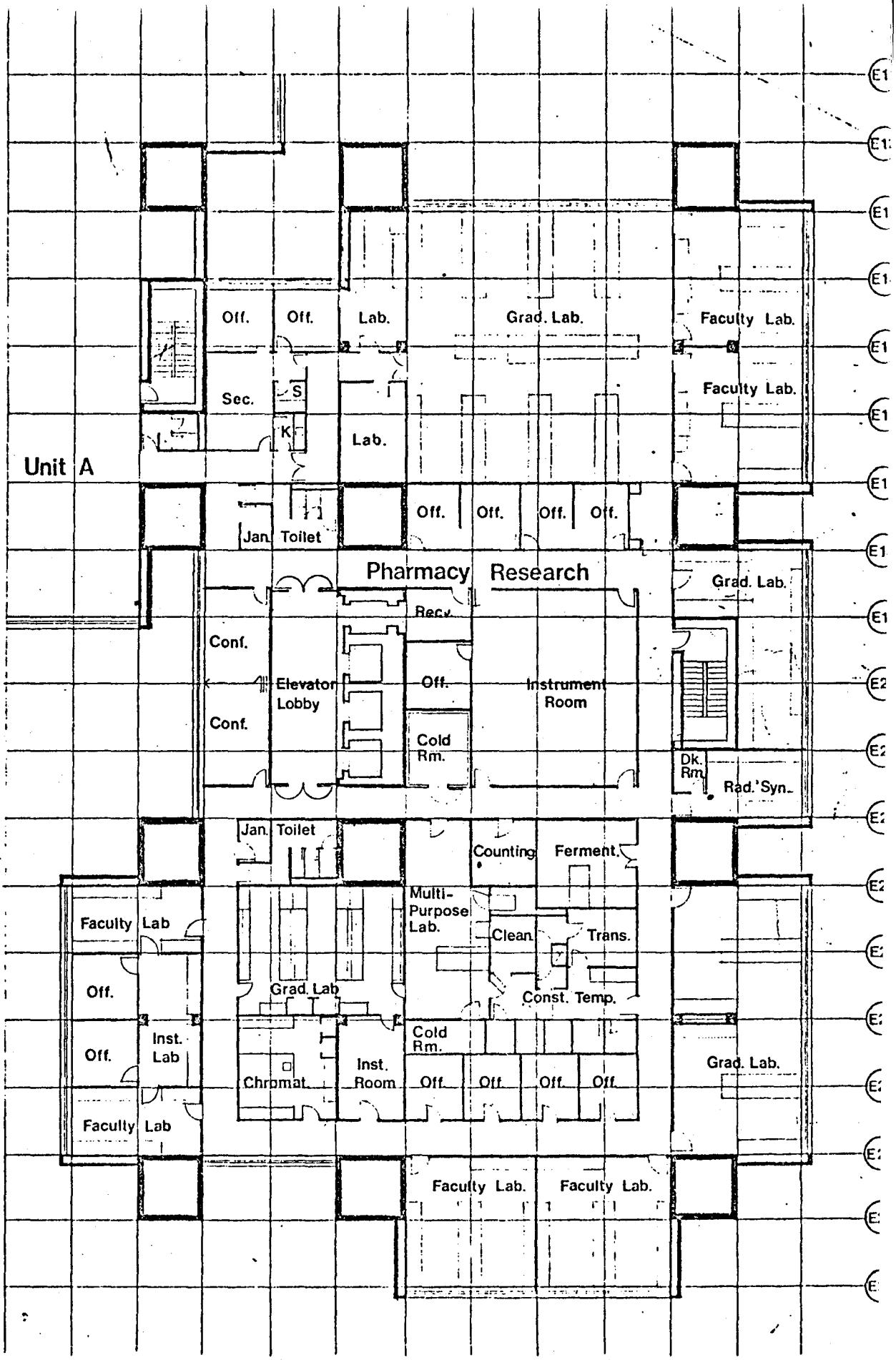
REVISIONS

Unit F: Floor 6



E, MASS. & ERS, INC.

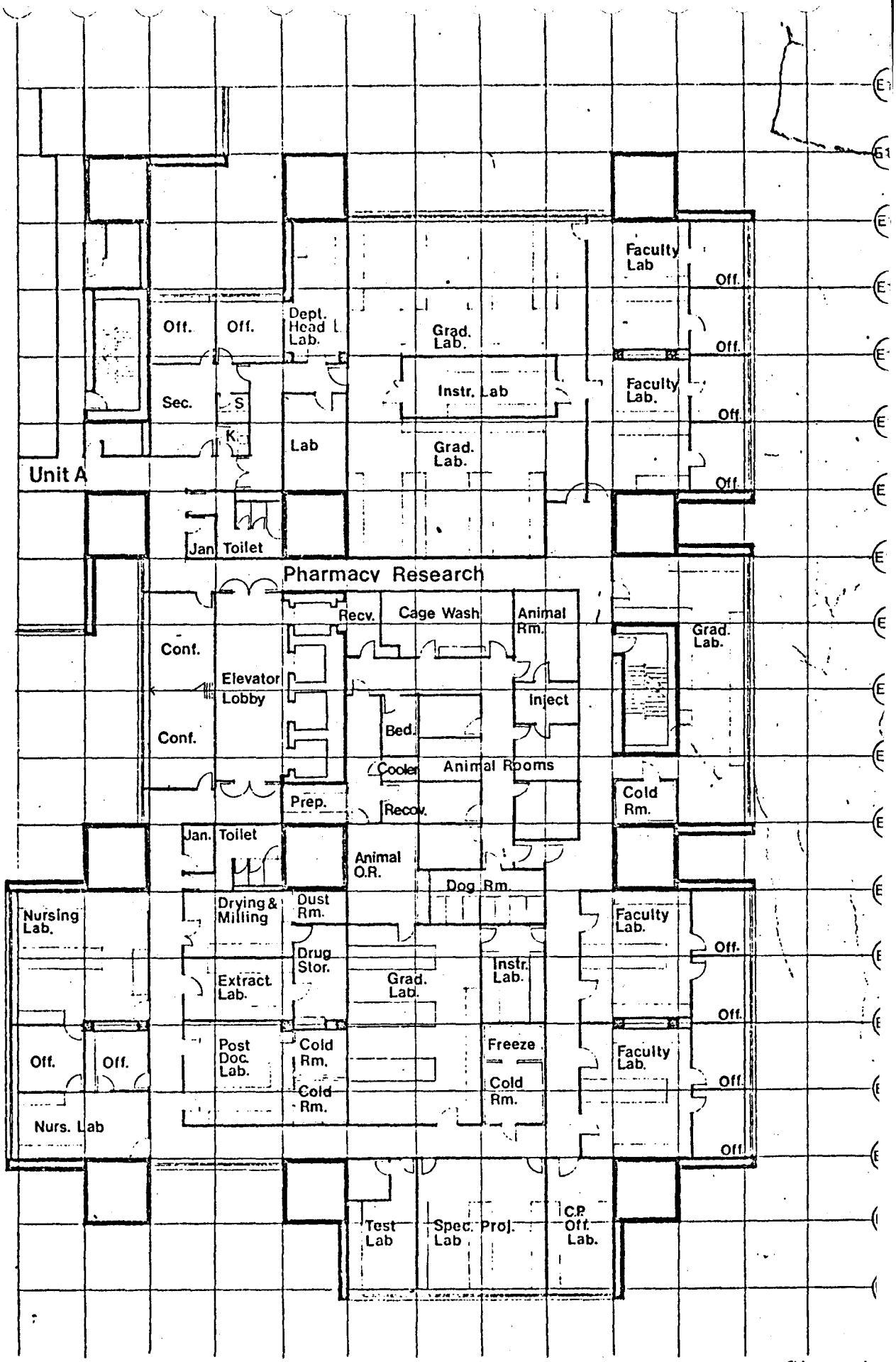
Unit F: Floor 7



GE, MASS & EERS, INC.

REVISIONS

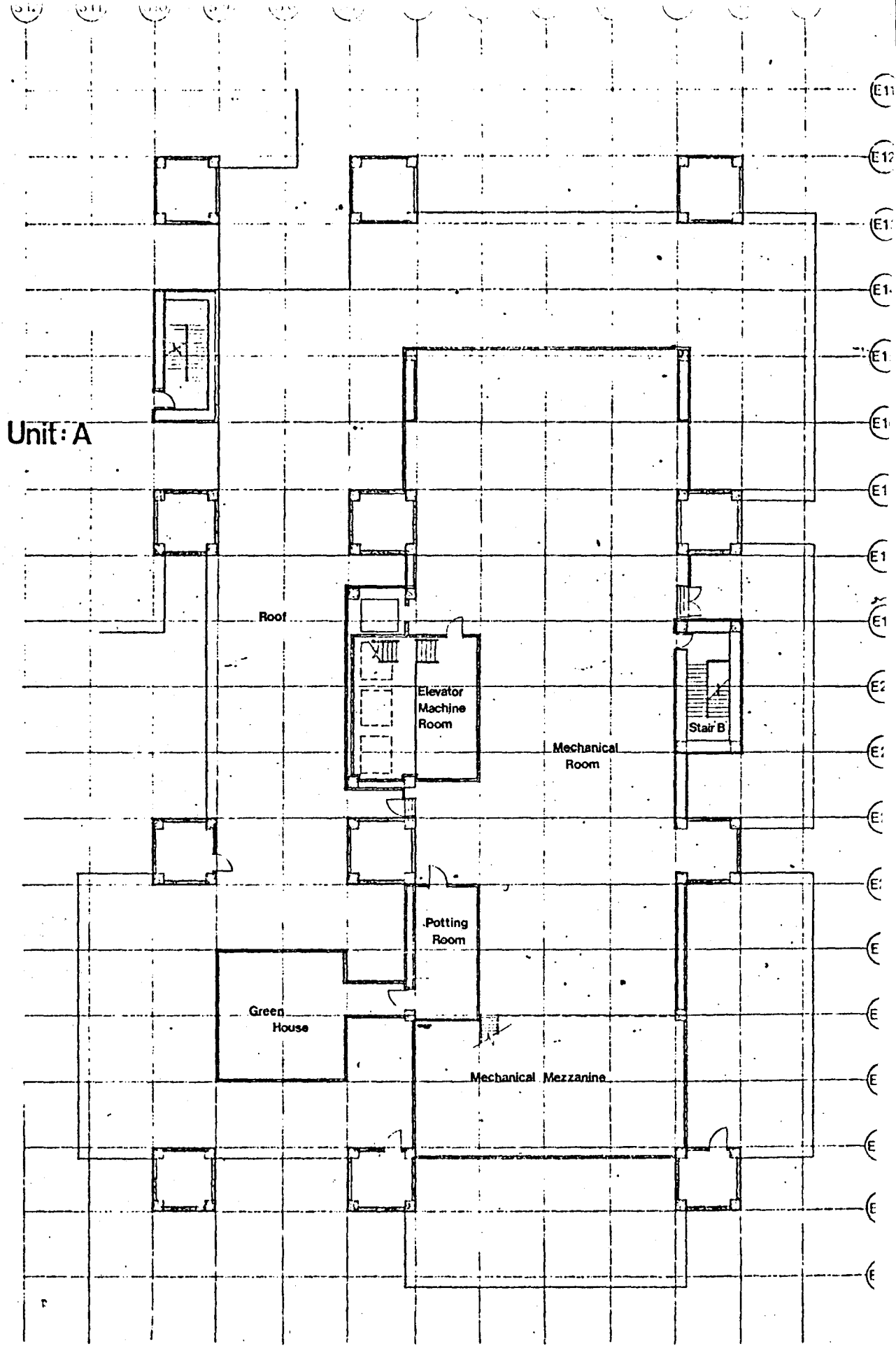
Unit F: Floor 8



UGE, MASS. & NEERS, INC.

REVISIONS

Unit F: Floor 9


Unit: A
Roof
Elevator Machine Room
Mechanical Room
Stair B
Potting Room
Green House
Mechanical Mezzanine

6

TAC

THE ARCHITECTS COLLABORATIVE INC.

30 August 1976

Mr. Clinton N. Hewitt
Assistant Vice President
Physical Planning
University of Minnesota
340 Morrill Hall
Minneapolis, MN 55455

Re: University of Minnesota
Health Sciences Expansion
Pharmacy/Nursing Feasibility Study
TAC Job No. 76044

Dear Clint:

In response to your request of 7 June 1976, we developed a detailed outline of work to be included in a Pharmacy/Nursing Feasibility Study. The attached proposal, dated 12 August 1976, is based on our recent discussions and on meetings of 30 June and 20 July 1976 which clarified the intended scope and schedule of the study.

During the meetings it was agreed that the program requirements for Unit F would be the basis for evaluating alternative facilities and that work to define and analyze options would be substantially completed by December 1976 to allow sufficient time for preparing materials to be used in legislative presentations.

As you are aware, all aspects of programming and architectural work involved in the redesign of Unit F were discontinued last March before documents for the Design Development phase were completed. Copies of record remain to be made of the material currently on file at our offices. While all of the redesign work is specific to the Unit F building configuration, much of the programming information listed in Part One, Items A1 and A2, of the attached proposal is fundamental to any further planning effort involving the College of Pharmacy or School of Nursing. For this reason, we have incorporated the work to compile and cross-reference the basic planning documents in Part One of the proposal. Assuming that the incomplete equipment layouts and room studies and the preliminary equipment lists (as developed by the Health Sciences Planning Office) would not be revised or correlated, we estimate that the cost to complete Items A1 and A2 would be approximately $2000 exclusive of reimbursable printing expenses. As an option, this work could be assigned to a separate account and deducted from the scope of the actual feasibility study if so desired.

46 BRATTLE STREET, CAMBRIDGE, MASSACHUSETTS 02138, U.S.A.
TELEPHONE: (617) 868-4200 TELEX: 92 1494 TACCAM CABLE: TACCAM U.S.A.

In the remaining work of Part One extending over a two-month period, we expect to identify locations and define various options for accommodating the program requirements. The options would be evaluated for conformance to program, implementation of the Master Plan, date of availability, and probable cost, etc. We estimate that the cost to complete this work would be approximately $28,700 with additional reimbursable expenses of $8,700.

We assume that Part Two, Items A through D, will extend over the subsequent two or three month period and would involve more definitive planning and detailed analysis of code, building systems, project delivery methods, schedules and costs. Based on the detailed development of two options, we estimate that the cost to complete this work would be approximately $54,500 with additional reimbursable expenses of $9,700.

Numerous variables exist in the outlined scope, particularly in the process of developing and analyzing options in conjunction with the Master Plan, and in preparing a final report and other material that will be suitable for legislative presentations. We assume that our joint efforts will continue to evaluate and direct the results within the allotted time and that we will mutually reassess the requirements and the upsets noted if so required.

At this time we would like to formalize a letter agreement or AIA Document B141 (Standard form of Agreement between Architect and Owner) based on the above discussion and documents. We propose to provide architectural services requested by the University of Minnesota as an additional service in accordance with the following:

> The Architect, as requested by the University, will perform under his Scope of Services (Article 1.3) any or all of the architectural and engineering work required by the Pharmacy/Nursing Feasibility Study 12 August 1976 (attached). Before commencing such work, the Architect will consult the University to mutually determine the specific scope, requirements, and costs of the study or any portion thereof.
>
> Compensation for Extra Services (Article 6.2) shall be computed on the basis of Employee's time at a multiple of 2.75 times the employee's Direct Personnel Expense.
>
> Under Reimbursable Costs (Article 5) the University shall reimburse the Architect for the following:

The cost of any special consultants when the employment of such special consultants has been approved in advance by the University. The Architect will be compensated at a multiple of 1.1 times the amount billed to the Architect for such services. (Cost estimating services will be considered as a special consultant.)

The cost of the Architect for living and travel expenses in connection with the project when approved in advance by the University.

The cost of computer time, telephone, postage and handling and the reproduction of drawings and reports.

Payment (Article 6) for Extra Services of the Architect and for Reimbursable Expenses shall be made monthly upon presentation of the Architect's statement of services rendered.

If this method of proceeding is satisfactory to you, please sign one copy of this letter and return it to us with the appropriate order for billing purposes.

Very truly yours,

THE ARCHITECTS COLLABORATIVE Inc.

John J. Scott

JJS:KVB

Approved:

_____

Date_____

UNIT F PROGRAM: COLLEGE OF PHARMACY/SCHOOL OF NURSING

P. MAUPIN

INTRODUCTION

The summary of required spaces is derived from plans for Unit F: College of Pharmacy and School of Nursing, dated 15 March 1976. This tabulation lists the net area of all programmed spaces by departments and by functional groupings within departments. Net area multiplied by a factor results in unit area which approximates the area required for programmed spaces plus circulation.

All spaces are measured from center lines of their enclosing partitions. Fixed building elements including structure, mechanical shafts, stairs, elevators and perimeter walls are excluded. In addition, spaces not directly assignable to any specific department, such as public toilets and janitors' closets, are considered to be part of the building's gross area and are not listed.

AREA SUMMARY

	Department	Net Area Square Feet	Unit Factor	Unit Area Square Feet
School of Nursing	13.1 Research	3,065	1.25	3,800
	13.2 Teaching	8,740	1.25	10,900
	13.3 Faculty Offices	14,545	1.25	18,200
	13.4 Administration	6,075	1.25	7,600
	13.5 SUPPORT	2950		3,700
	Subtotal	~~32,425~~ 35,375		~~40,500~~ 44,200
College of Pharmacy	18.1 Service	2,935	1.25	3,600
	18.2 Undergraduate	11,300	1.25	14,100
	18.3 Administration	6,360	1.25	8,000
	18.4 C.P./H.P./P.A.	11,695	1.25	14,600
	18.5 Research	28,230	1.25	35,300
	Animal Quarters	1,970	1.25	2,500
	18.6 SUPPORT	2950		3700
	Subtotal	~~62,490~~ 65,440		~~78,100~~ 81,800
Shared Facilities	13.0/18.0 Pharmacy/ Nursing	~~5,675~~	~~1.25~~	~~7,300~~
	17.0 Health Sciences	2,665	1.25	3,300
	TOTAL	~~102,455~~ 103,480		~~129,200~~ 129,300

REVISED
9OCT76

PHARMACY/NURSING
FEASIBILITY STUDY

UNIT F PROGRAM: SCHOOL OF NURSING

13.5 SUPPORT FACILITIES

Space	Area	Number	Total
Student Conf	225	1	225
Lounge	450	1	450
Student Org.	225	1	225
Student Lockers	1200	1	1200
Student Study	225	1	225
Faculty Lounge	450	1	450
Data Process	175	1	175
TOTAL NSF			2950

90CT76

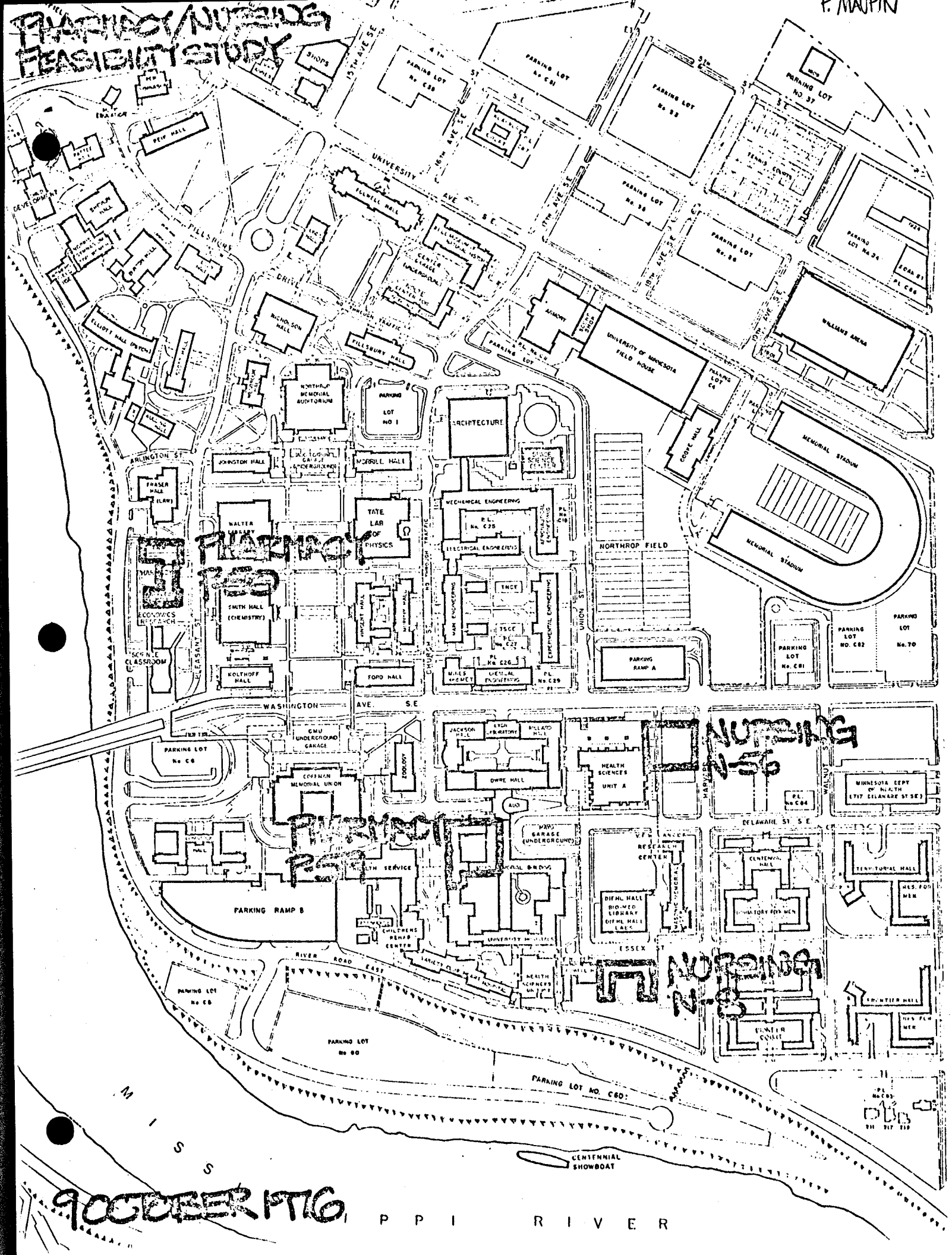
PHARMACY/NURSING
FEASIBILITY STUDY

UNIT F PROGRAM: COLLEGE OF PHARMACY

18.6 SUPPORT FACILITIES

Space	Area	Number	Total
Student Conf	225	1	225
Lounge	450	1	450
Student Org.	225	1	225
Student Lockers	1200	1	1200
Student Study	225	1	225
Faculty Lounge	450	1	450
Data Process	175	1	175
TOTAL NSF			2950

9 OCT 76

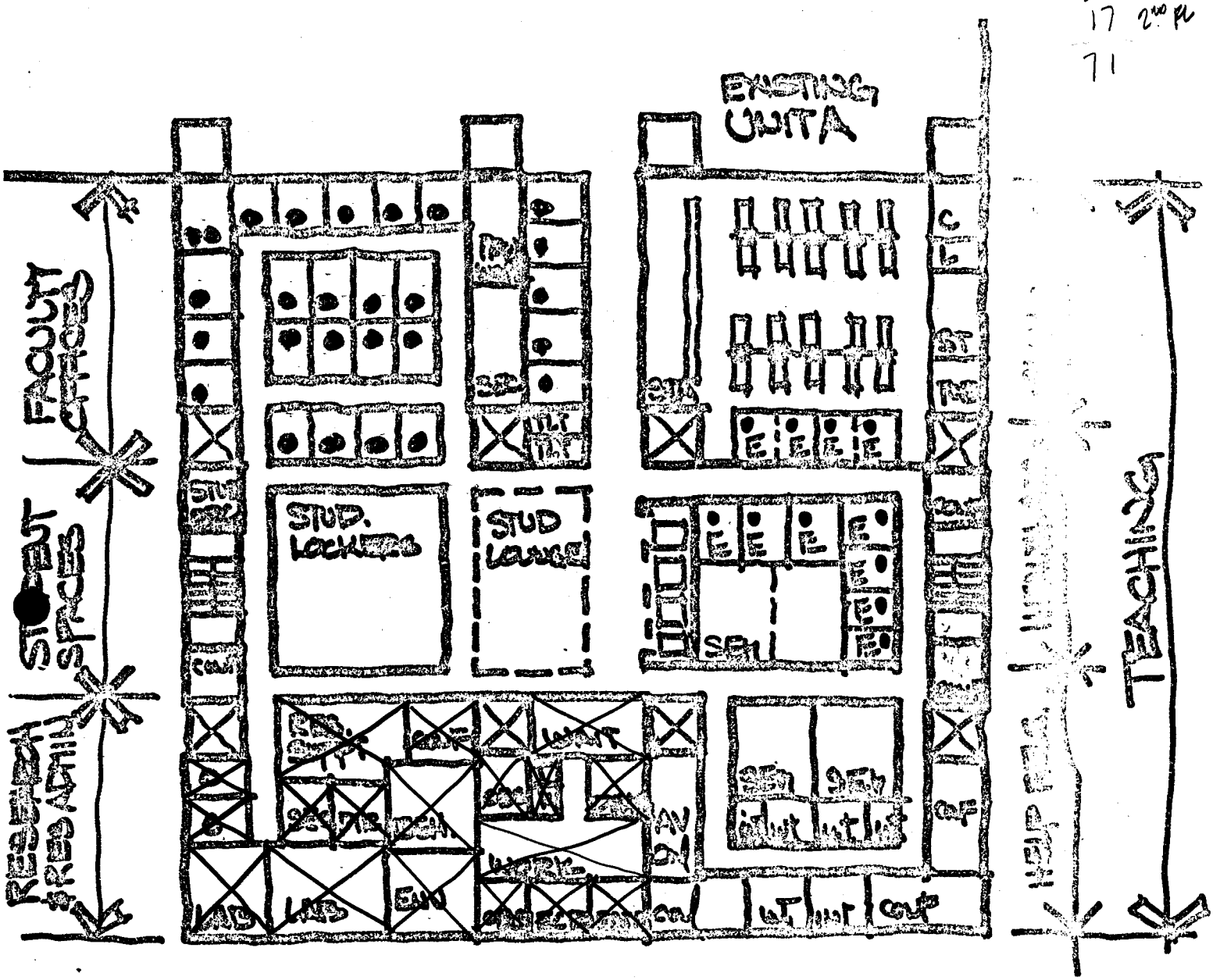

PHARMACY/NURSING
FEASIBILITY STUDY
P. MAUPIN
PHARMACY
PHARMACY
NURSING
N-S
NURSING
N-S
ACCEPTED
UNIVERSITY AVE. S.E.
PILLSBURY DRIVE
ARLINGTON ST.
WASHINGTON AVE. S.E.
DELAWARE ST. S.E.
ESSEX ST.
RIVER ROAD EAST
PARKING RAMP A
PARKING RAMP B
NORTHROP FIELD
MEMORIAL STADIUM
WILLIAMS ARENA
UNIVERSITY OF MINNESOTA FIELD HOUSE
ARCHITECTURE
MECHANICAL ENGINEERING
ELECTRICAL ENGINEERING
TATE LAB OF PHYSICS
SMITH HALL (CHEMISTRY)
JOHNSTON HALL
MORRILL HALL
FRASER HALL (LAW)
NORTHROP MEMORIAL AUDITORIUM
NICHOLSON HALL
FILLSBURY HALL
ELLIOTT HALL (DEAN)
FORD HALL
KOLTHOFF HALL
SCIENCE CLASSROOM
COFFMAN MEMORIAL UNION
CMU UNDERGROUND GARAGE
ZOOLOGY
HEALTH SERVICE
CHILDRENS REHAB CENTER
HEALTH SCIENCES UNIT A
OWRE HALL
JACKSON HALL
LYON LABORATORY
MILLARD HALL
MAYO GARAGE (UNDERGROUND)
DIEHL HALL BIO-MED LIBRARY
DIEHL HALL LABS
CENTENNIAL HALL
TERRITORIAL HALL
FRONTIER HALL
PIONEER HALL
MINNESOTA DEPT OF HEALTH (717 DELAWARE ST SE)
PARKING LOT No. C60
PARKING LOT No. C6
PARKING LOT No. C80
PARKING LOT No. C81
PARKING LOT No. C82
PARKING LOT No. 70
CENTENNIAL SHOWBOAT
MISSISSIPPI RIVER

PHARMACY/NURSING
FEASIBILITY STUDY

SCHOOL OF NURSING: OPTION N5C

UNITA PLAZA

OFFICE
29 1st FL
25 2nd FL
17 2nd FL
71

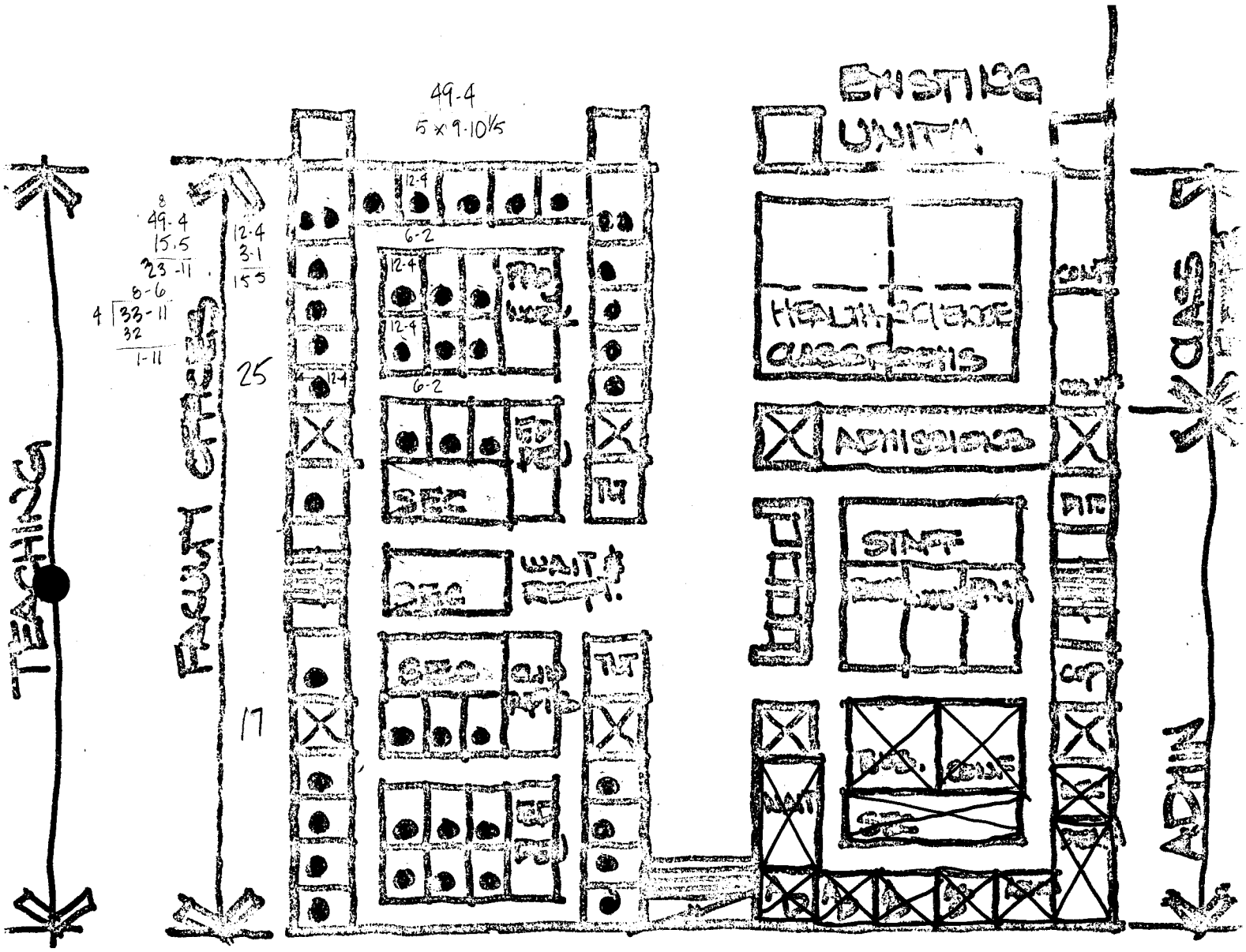


TEACHING
FACULTY OFFICES
RESEARCH
STUDENTS

UNITA PLAZA
FLOOR 1

1/32" = 1'-0"
13SEP76

N56



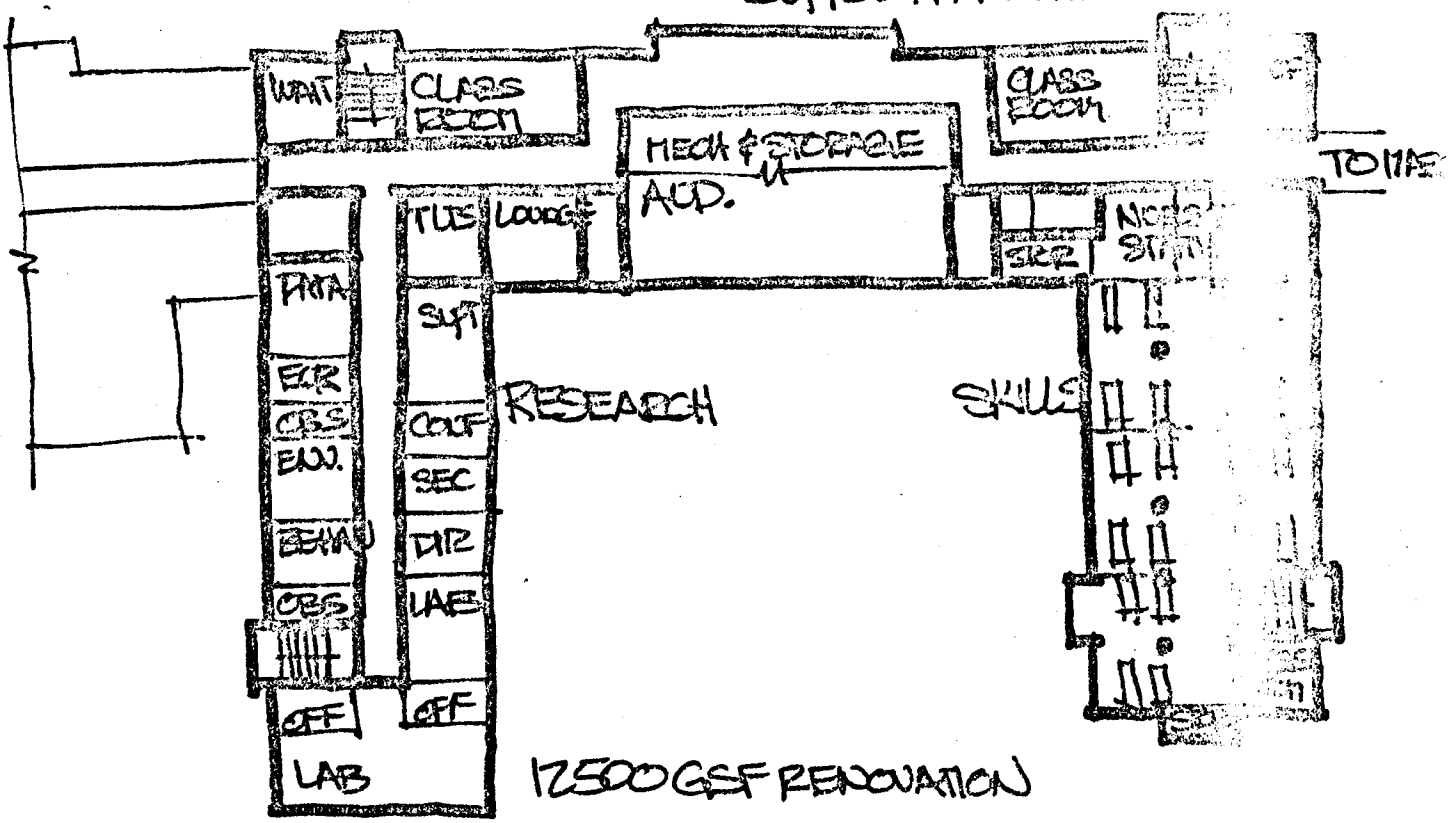
FACULTY OFFICES
ADMIN

UNITA PLAZA
FLOOR 2

FEASIBILITY STUDY

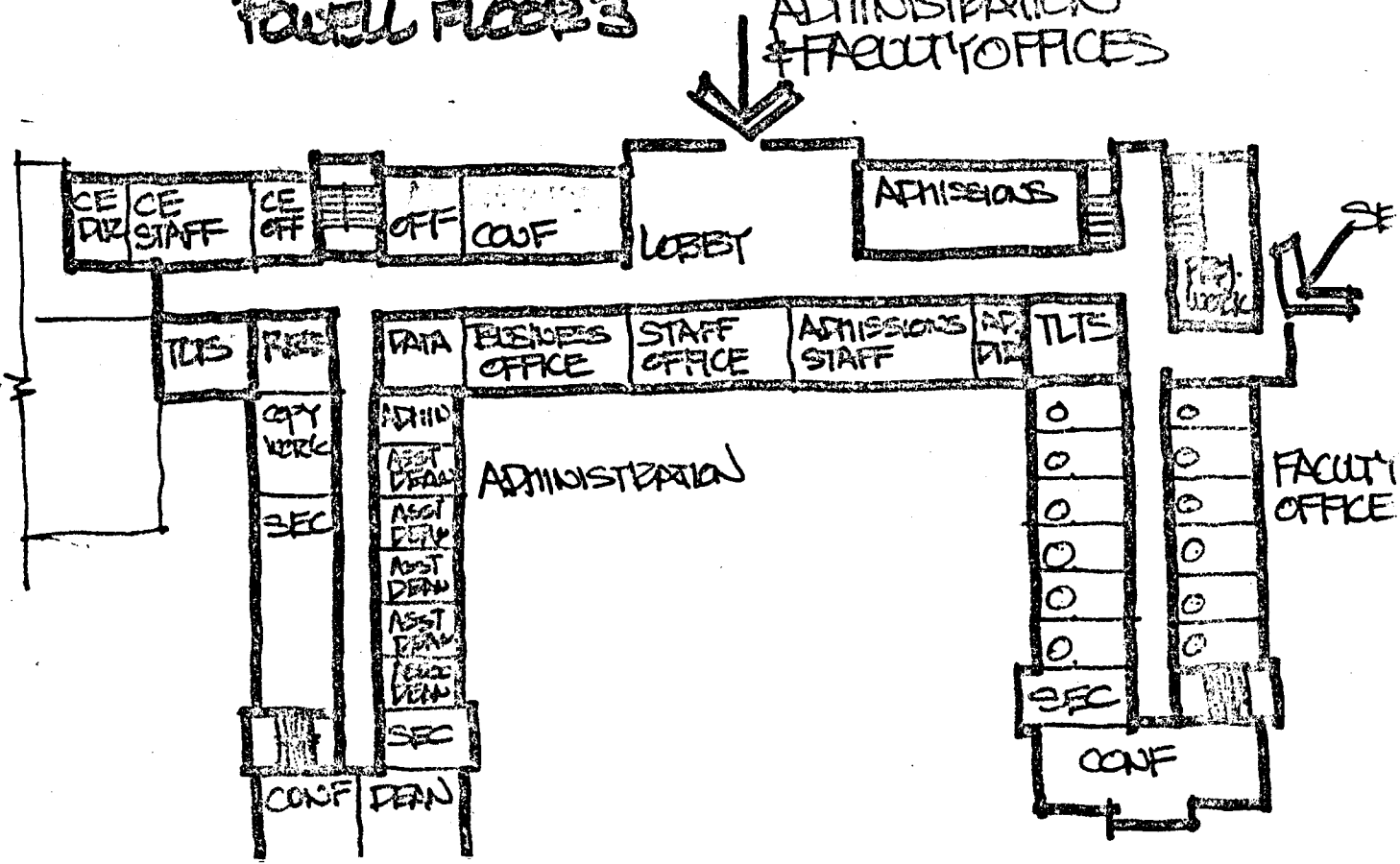
POWELL, FLOOR 1

NURSING SKILLS RESEARCH SUPPORT FACILITIES



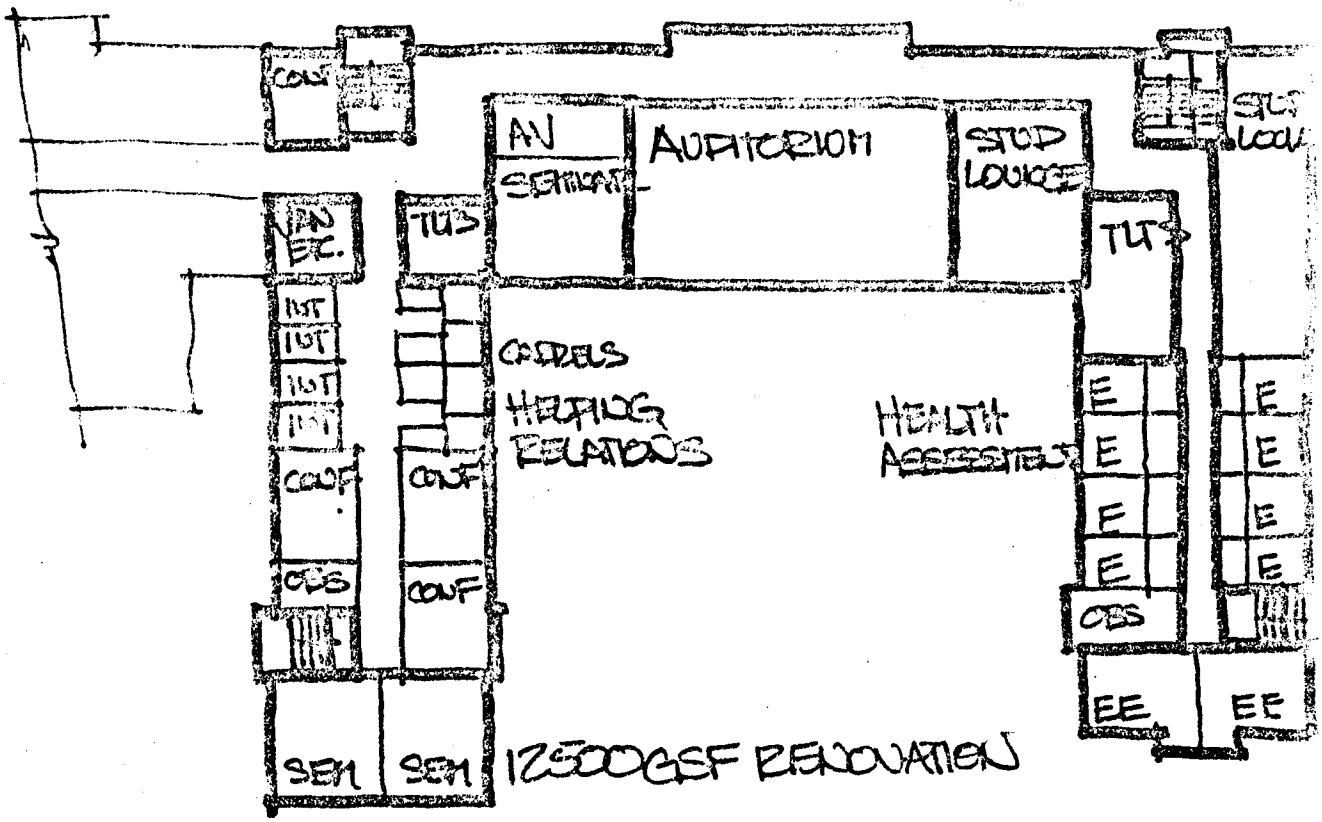
POWELL FLOOR 3

ADMINISTRATION & FACULTY OFFICES

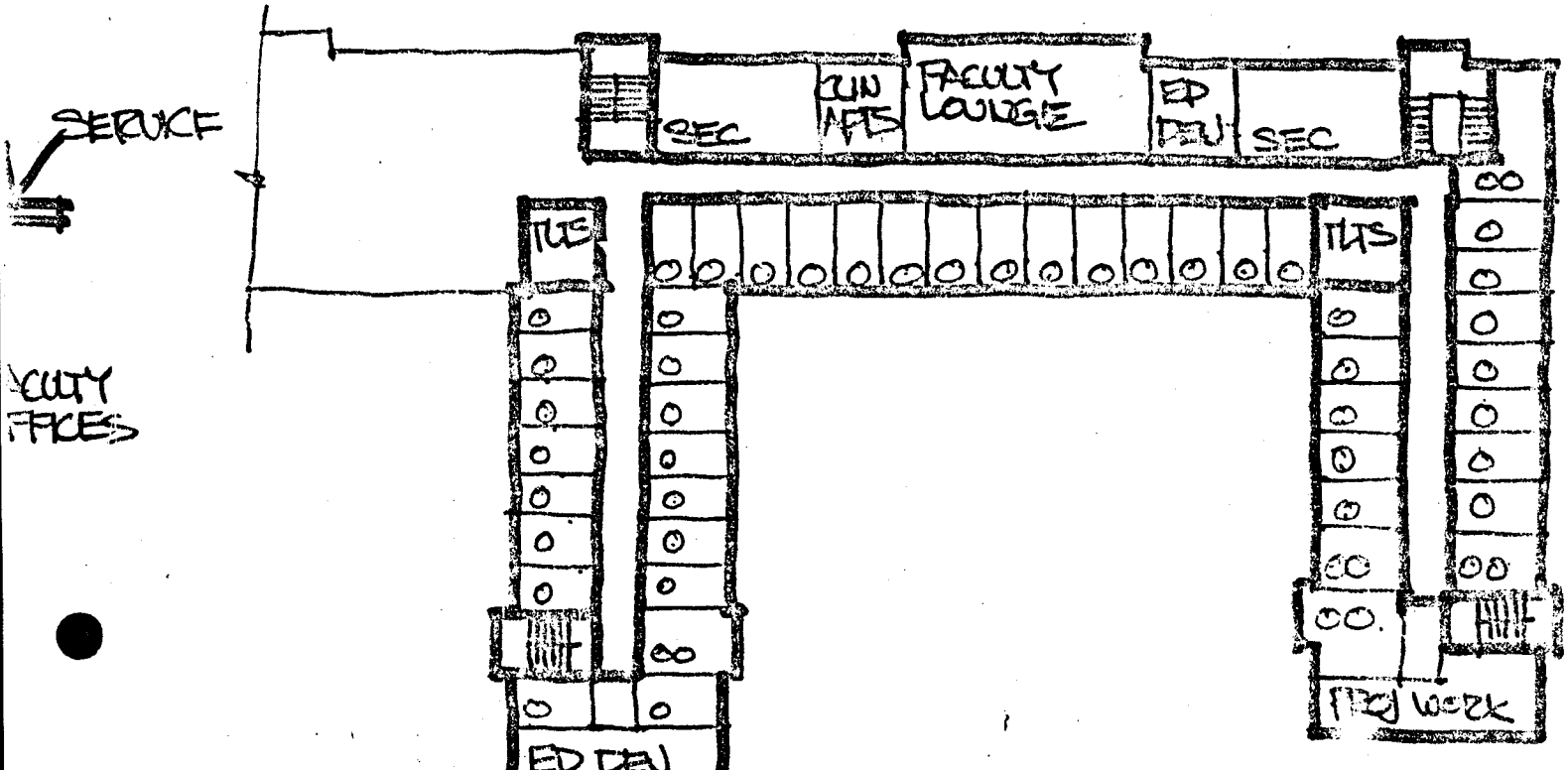


Powell, Floor 2

HEALTH ASSESSMENT
HELPING RELATIONS
SUPPORT FACILITIES



Powell, Floor 4 FACULTY OFFICES



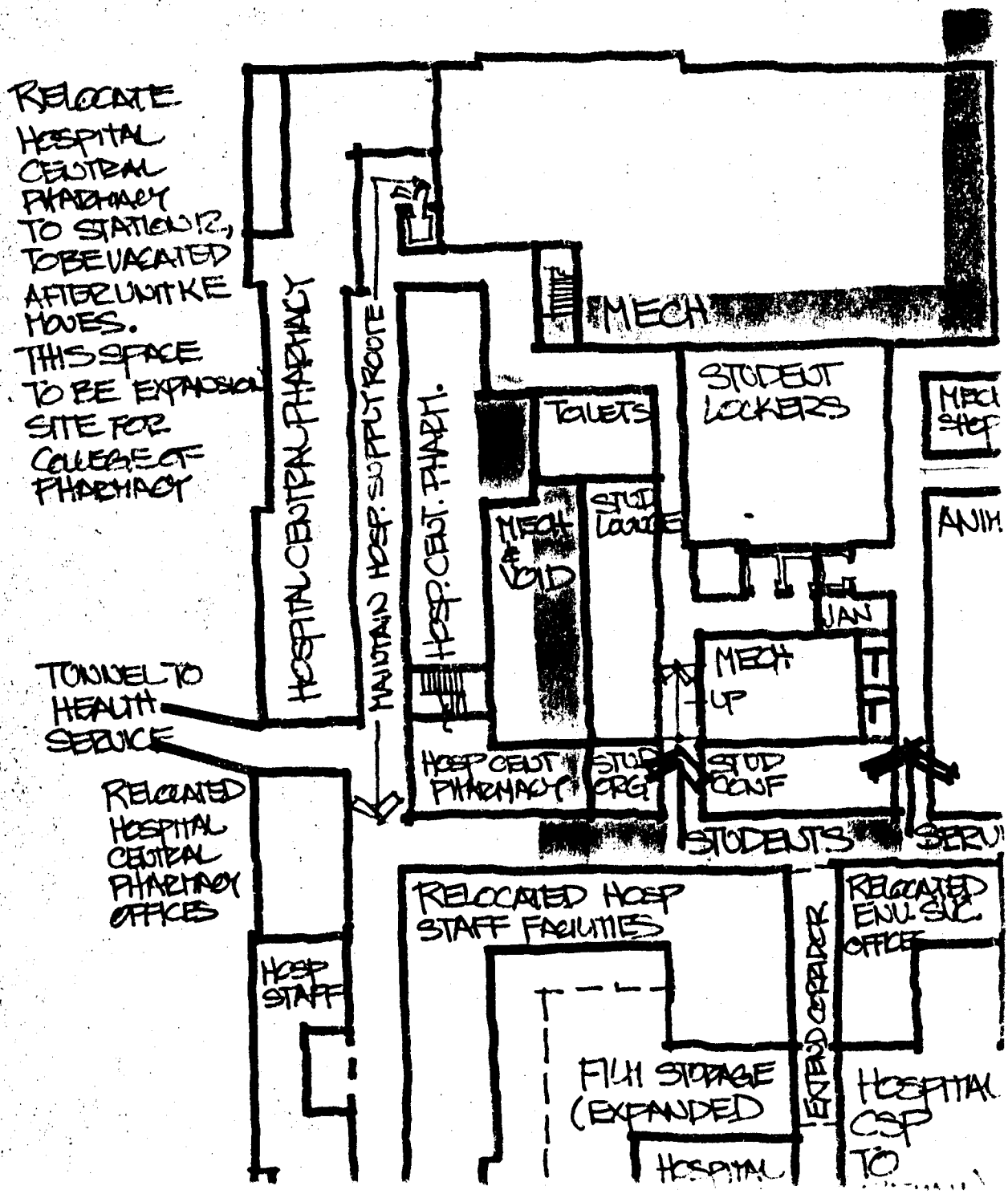
PHARMACY/NURSING FEASIBILITY STUDY
9 OCT 1976

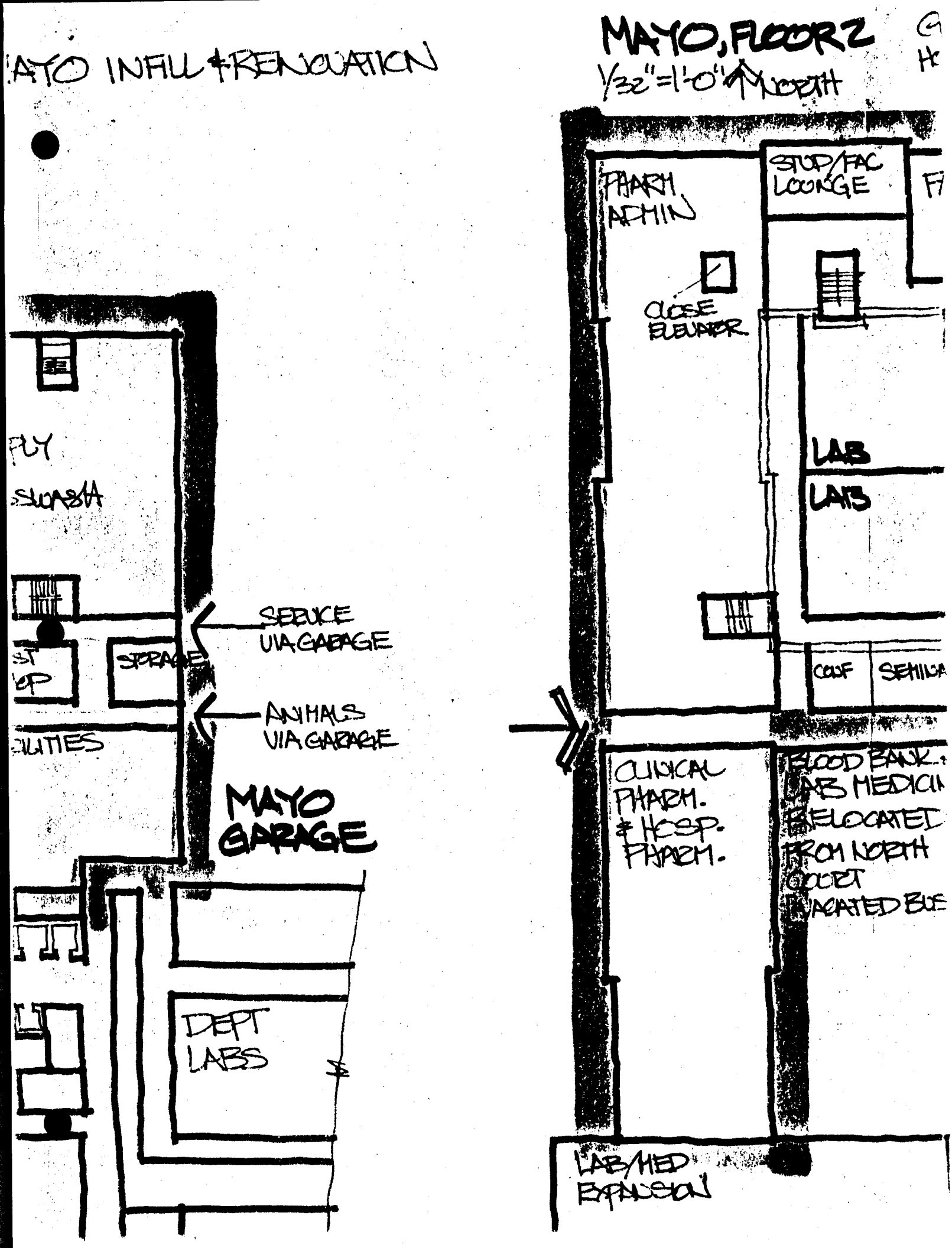
PHARMACY OPTION P59

MAYO, FLOOR 1

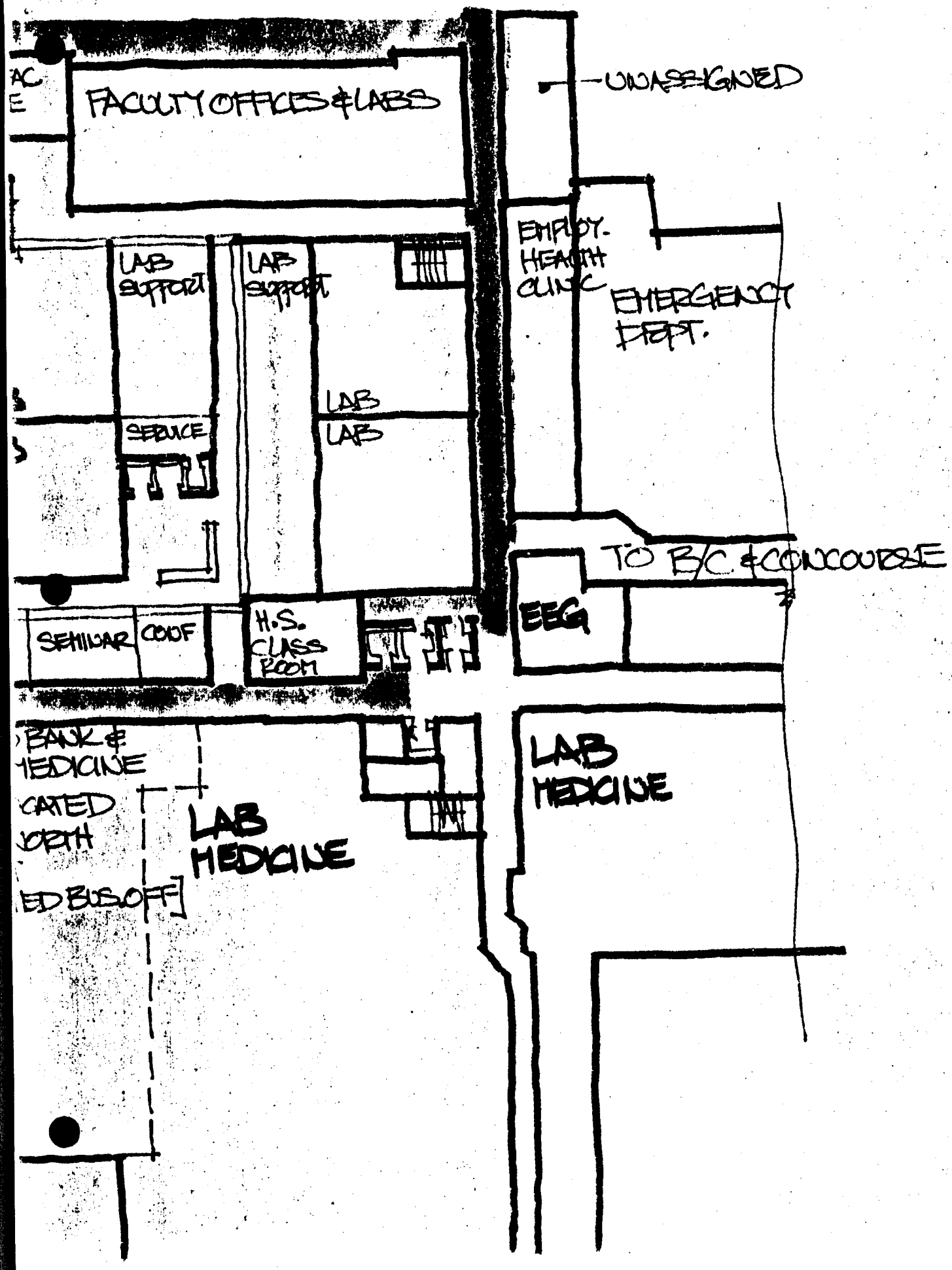
1/32" = 1'-0" NORTH

SERVICE & ANIMAL FACILITIES
STUDENT FACILITIES




MAYO INFILL & RENOVATION
MAYO, FLOOR 2
1/32" = 1'-0"
NORTH
PHARM. ADMIN
STUD/FAC LOUNGE
CLOSE ELEVATOR
LAB
LAB
SERVICE VIA GARAGE
ANIMALS VIA GARAGE
MAYO GARAGE
CLINICAL PHARM. & HOSP. PHARM.
DEPT LABS
LAB/MED EXPANSION

2 GRADUATE RESEARCH
HOSP PHARM/CLIN PHARM/PHARM ADMIN

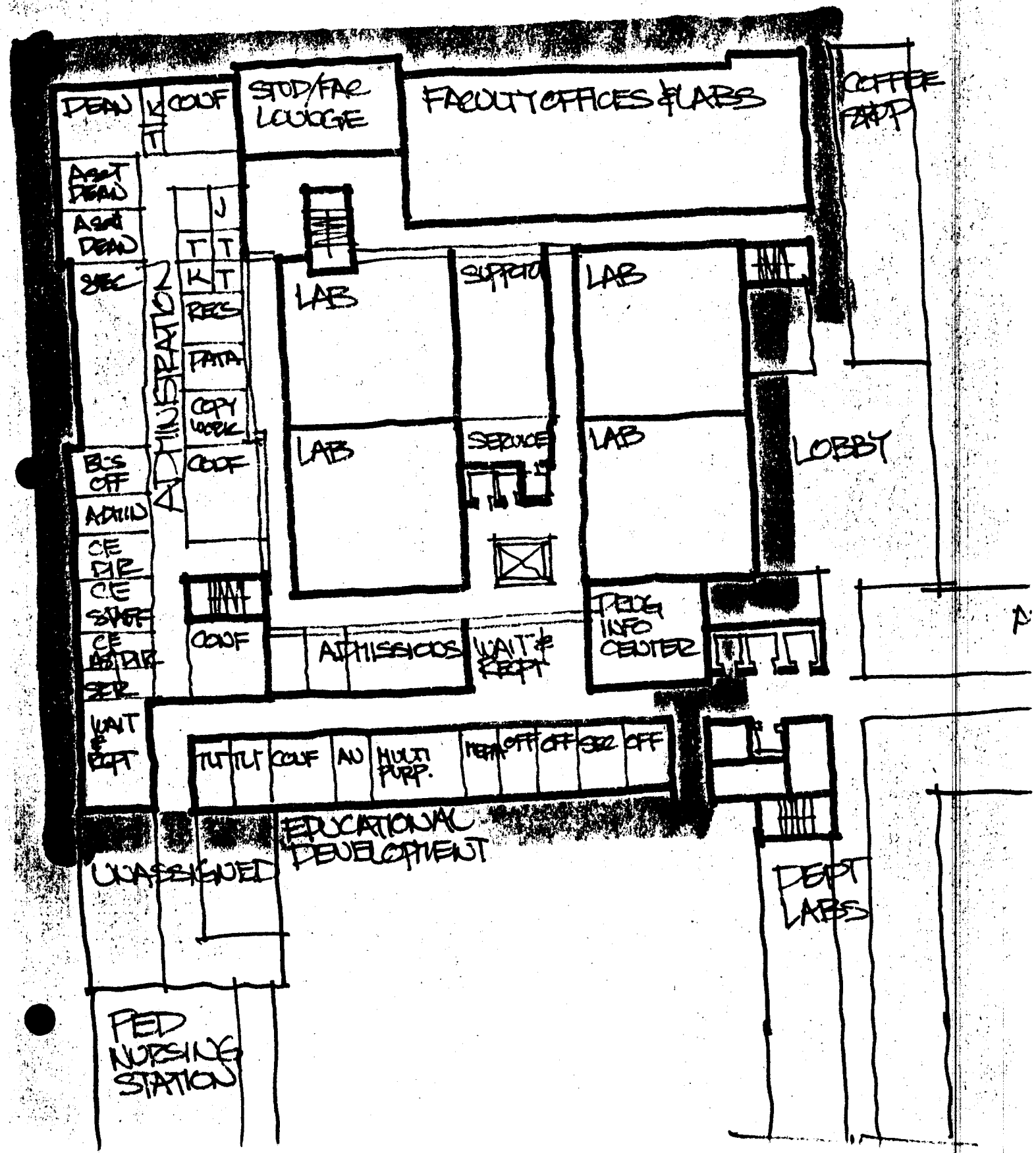


MAYO, FLOOR 3

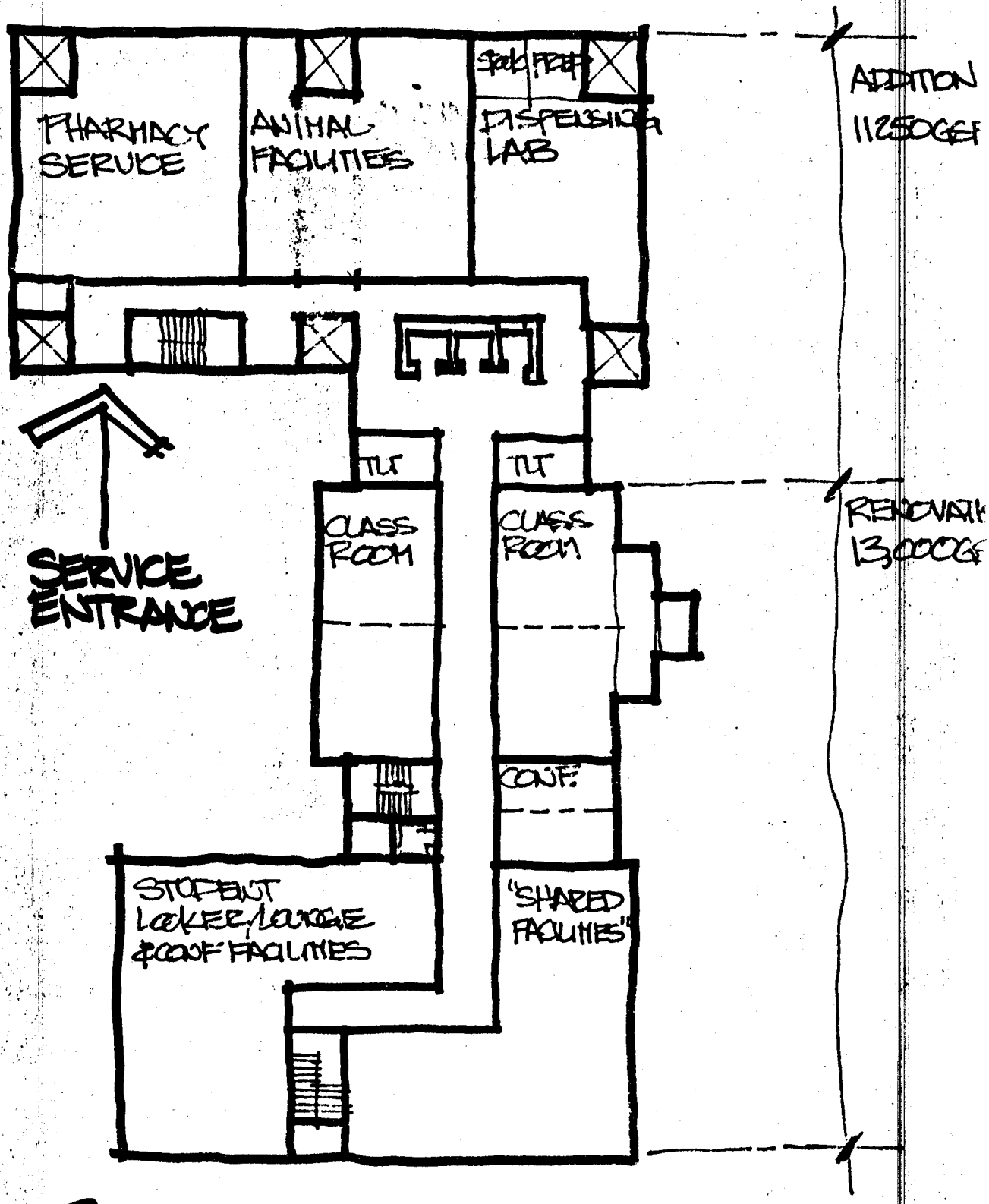
1/32' = 1'-0"

NORTH

GRADUATE RESEARCH
UNDERGRAD LABS
ADMINISTRATION

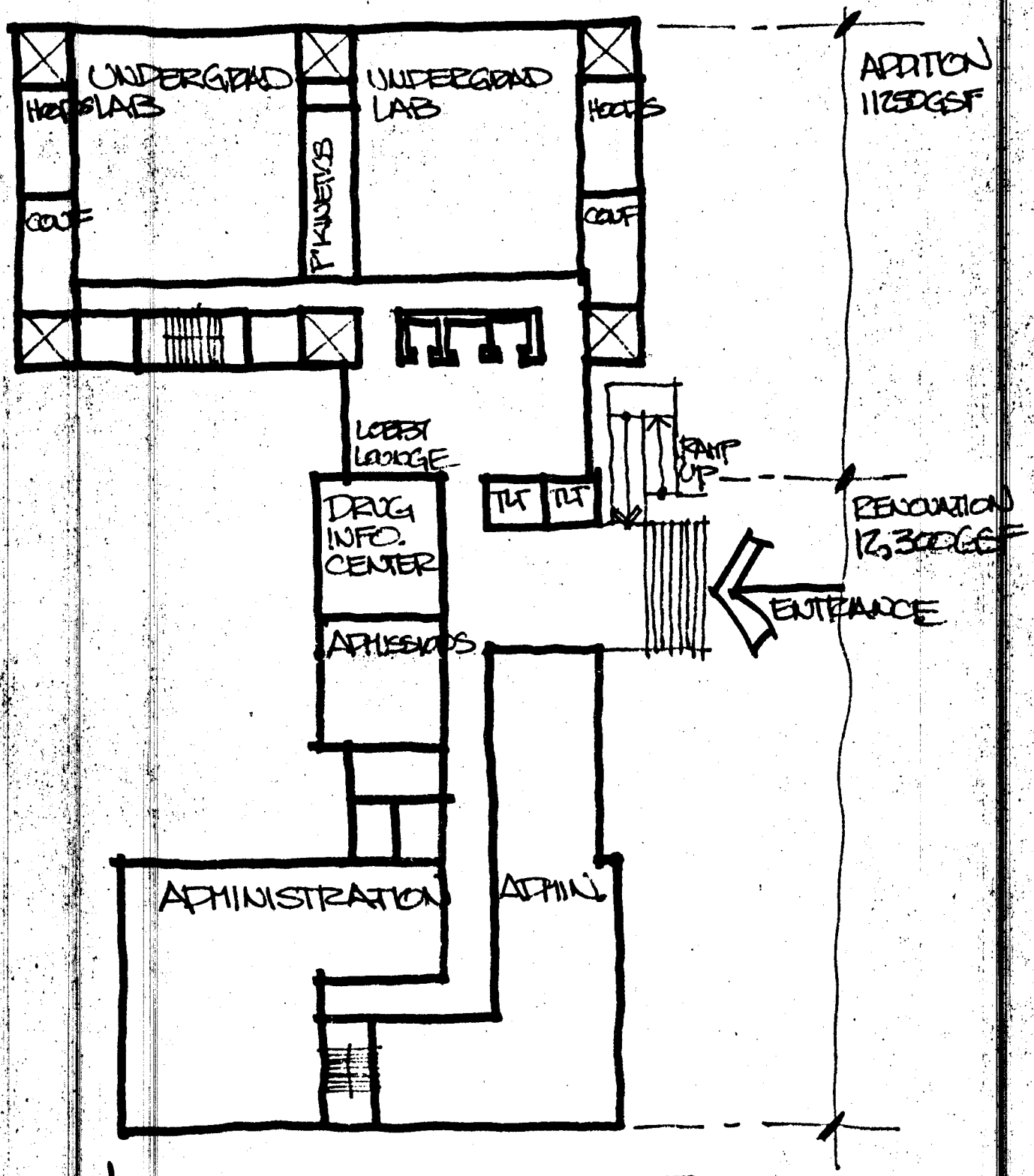


PHARMACY/NURSING PHARMACY OPTION P50 ; A1
FEASIBILITY STUDY

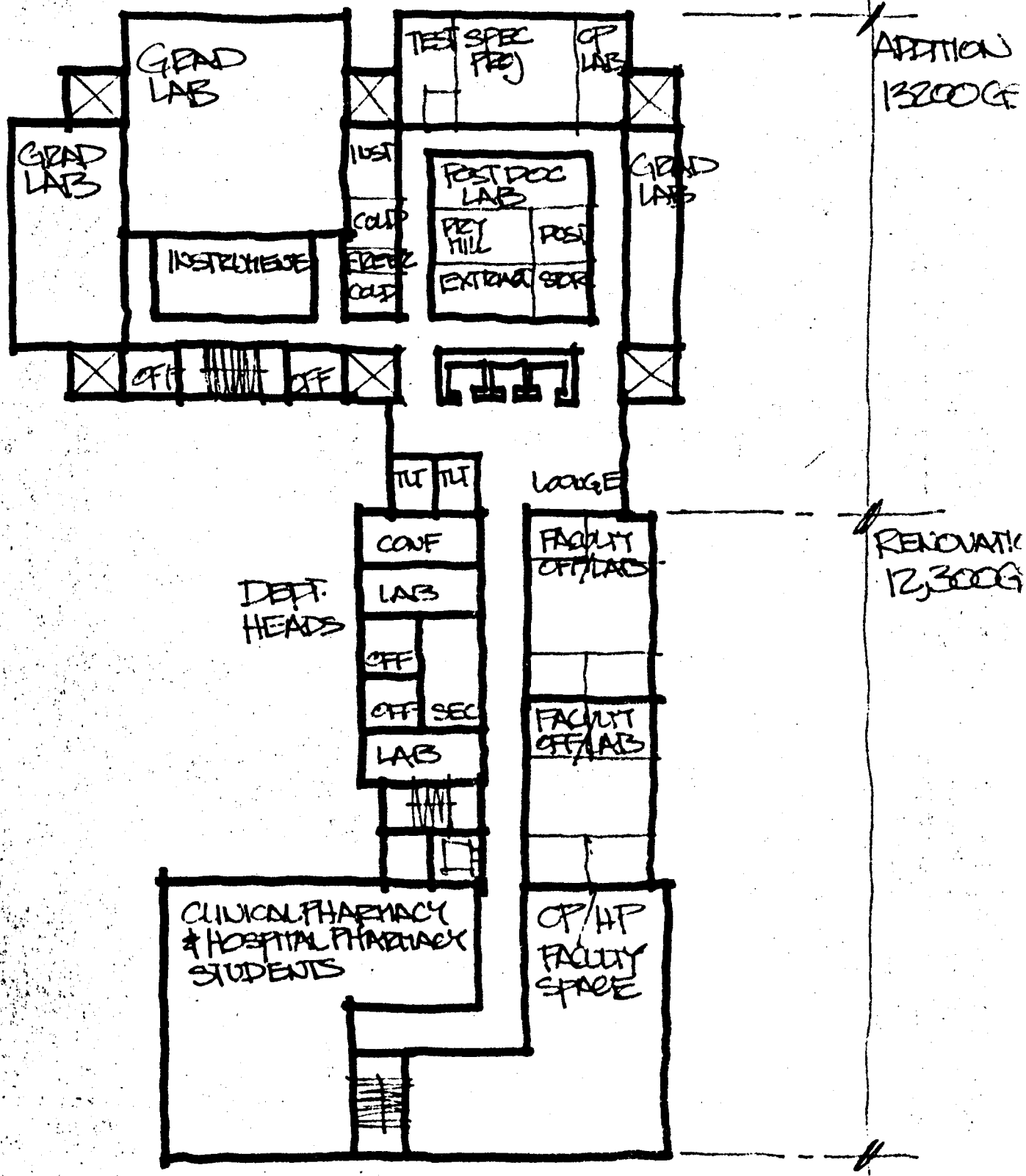


B SERVICE 2900 NSF
ANIMALS 2000 NSF

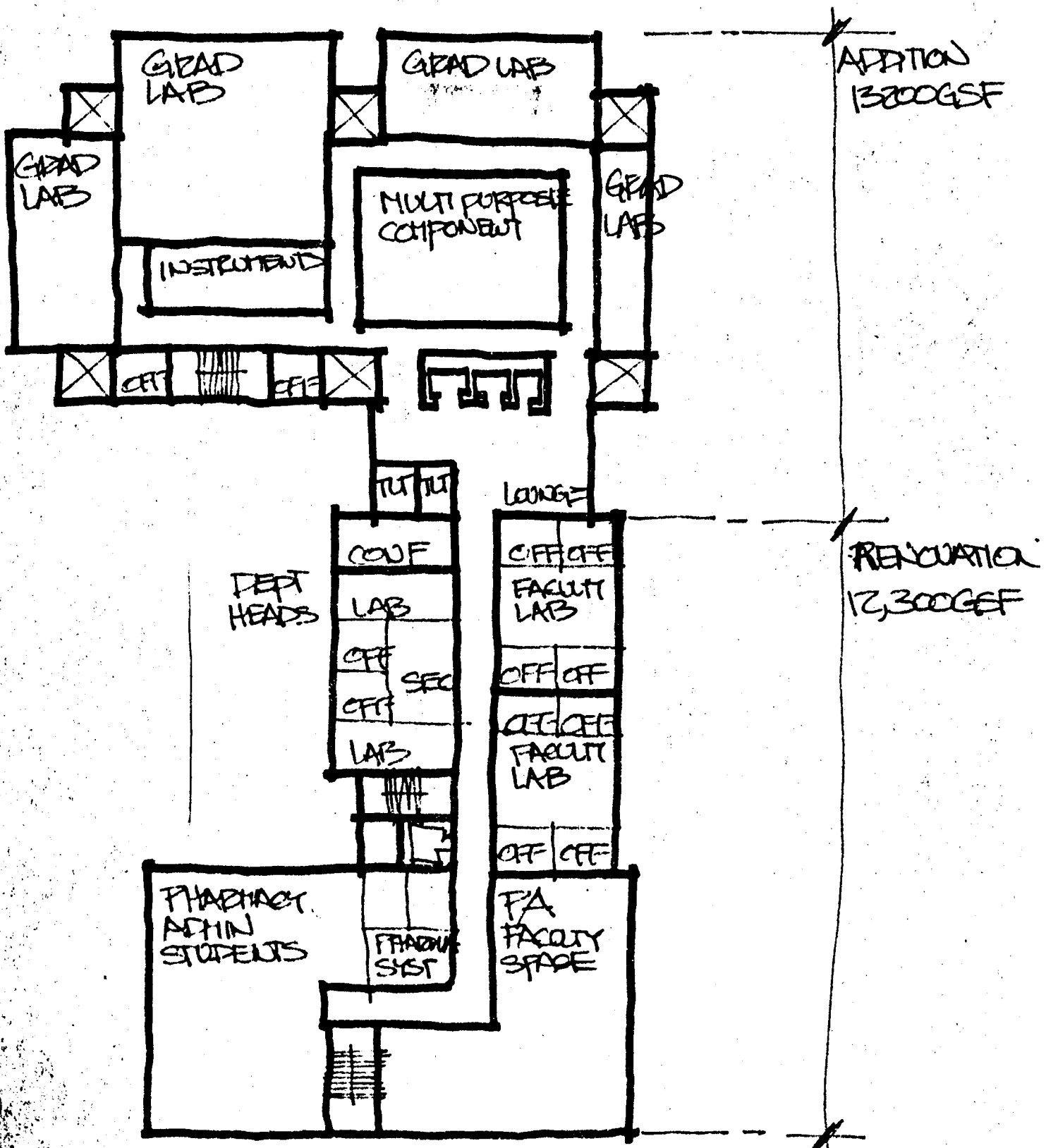
BY & ADDITION



1 UNDERGRAD 9300 NSF
ADMINISTRATION 6400NSF



2 RESEARCH 13600 NSF



3 RESEARCH 13600NSF

UNIVERSITY OF MINNESOTA
HEALTH SCIENCES EXPANSION

PHARMACY/NURSING FEASIBILITY STUDY

The Architects Collaborative, Inc.
Cambridge, Massachusetts

Preliminary
November, 1976

PHARMACY/NURSING FEASIBILITY STUDY

BACKGROUND

Introduction

The purpose of this study as requested by the University in June 1976 is to determine the feasibility of remodeling existing or future facilities to accommodate the program requirements for the College of Pharmacy and School of Nursing.

At present, space is assigned to the College of Pharmacy in Appleby Hall and a greenhouse remote from the Health Sciences Complex, and in the Marlan apartment building at 318 Harvard Street, adjacent to Unit A. The School of Nursing occupies space in Powell Hall and in the nearby dormitory buildings, Centennial and Frontier Halls.

Expanded programs for both departments, including Health Sciences (shared) teaching and staff facilities and shared student, faculty, and service facilities, were to be accommodated in the redesign of a projected Unit F. All aspects of programming and architectural work involved in the redesign, however, were discontinued in March 1976 before documents for the Design Development phase were completed.

Scope and Methodology

The development and evaluation of alternatives contained in the study is based on the recent planning of Unit F, the 1968 Health Sciences Planning Report, and the revised 1971 Master Plan, as modified by present conditions and subsequent inventory of planning documents. The study includes two parts:

- Definition and evaluation of potential options.
- Development and detailed analysis of feasible options.

This interim report summarizes the preliminary findings and conclusions as determined by work in the first part. The detailed analysis of implications for Health Sciences planning and total project costs continues for the several options identified.

The process of developing options was comprised of the following steps:

1. Floor and site plans of existing and projected facilities were reviewed to determine the location(s) and the net useable (or assignable) area and gross areas of shelled space, vacated space, potential expansion space, and space currently assigned to Pharmacy or Nursing functions.

Scope and Methodology (Continued)

2. Potential options were tentatively proposed, based only on the general correlation of available area with space requirements and functional adjacencies required by the programs. To manage the number of possible combinations, Pharmacy and Nursing options for a particular site were separately identified.

3. A further classification was based on the assumed scope of construction: options which require only the renovation of existing space were assigned numbers beginning with "1"; options which require major new construction of foundations, floor slabs and/or perimeter walls for all or part of the not useable space were assigned numbers beginning with "50".

4. Potential options were reviewed for general conformance to functional program requirements, probable costs, and to long-range planning programs involving space allocations for expansion of other departments, particularly in Unit B/C and Unit K/E. Options which appeared most feasible were selected for further study.

5. Schematic plans of each feasible option were developed in sufficient detail to evaluate arrangement and accommodation of program functions, primary and secondary circulation patterns, location of stairs and elevators, and general scope of new construction or renovation. The schematic plans were then used as the basis for detailed code and cost analysis.

6. Estimated construction and total project costs are based on gross (or net) area and factors appropriate to the type of facility and general conditions of available space.

7. Detailed analysis of the influence of each option or long-range programs, departmental adjacencies, expansion requirements, and implementation schedules are based in part on field surveys of space assignment in the Health Sciences complex and rental areas which were completed in conjunction with the feasibility study.

PHARMACY/NURSING
FEASIBILITY STUDY

BACKGROUND

Program

The options developed in this feasibility study are based on specific program requirements for the college of Pharmacy and School of Nursing as derived from the design development plans of Unit F, dated 15 March 1976. These program requirements consist of design criteria, area summaries, and adjacency diagrams.

Design criteria are obtained from initial programming and planning documents, grant applications, and meeting notes of Unit F redesign during the period September 1976 to March 1976. Primary objectives include the integration of teaching, research, and associate facilities into the main Health Sciences complex and the development of facilities in a compatible framework of circulation, organization, and expansion.

The program of required spaces for Unit F, as incorporated into the referenced drawings, have been modified to apportion the Pharmacy/Nursing shared facilities, including data processing, faculty lounge, and student lockers, study and organization spaces, between the separate departmental programs. With this adjustment, the net area summaries for the programs used as the basis for the feasibility study are as follows:

	Net Area Square Feet
College of Pharmacy	65,440
School of Nursing	35,375
Health Sciences	2,665
TOTAL	103,480

PHARMACY/NURSING FEASIBILITY STUDY

DESCRIPTION OF OPTIONS

Summary

Options which generally accommodate the program requirements for the College of Pharmacy and School of Nursing are listed in the table below. Pharmacy options are prefixed with a "P", Nursing options are prefixed with an "N". In some options, the summary indicates that either all or part of the separate programs can be accommodated in Mayo Hospital or below an expanded Unit A Plaza. However, as combined or composite options, only one of the two programs can be located at a particular site. The separate options involve the remodeling of present facilities, development of shell space, renovation of vacated space and/or construction of new space as follows:

Option Number	Present Facilities	Unit B/C	Mayo Hospital	New Construction
P6	Harvard Apts.	Flrs. 7 & 15	-	-
P11	-	Flrs. 7 & 15	Flrs. 1-3	-
P50	Appleby Hall	-	-	Appleby Addition
P58	-	Flr. 7	-	Unit A Plaza
P59	-	-	Flrs. 1-3	-
N4	-	-	Flrs. 1-3	-
N8	Powell Hall	-	-	-
N54	-	-	Flrs. 2-3	-
N56	-	-	-	Unit A Plaza

Pharmacy Options

Option P6 will locate graduate research offices and laboratories in completed shell space on Floors 7 and 15 in Unit B/C and the Wilshire, Marlan, and Fenwick apartment buildings adjacent to Unit A along Harvard Street. The apartment buildings will be interconnected by a ramped link addition with four enclosed levels and new elevators, and connected to Unit A at Floors 1, 2, 3, and 5.

Option P11 will locate graduate research offices and laboratories in completed shell space on Floors 7 and 15 in Unit B/C and the remainder of the program on Floors 1, 2, and 3 in the North Court area of Mayo Hospital, in space vacated by the scheduled relocation of clinics to Unit B/C.

PHARMACY/NURSING FEASIBILITY STUDY

DESCRIPTION OF OPTIONS

Pharmacy Options (Continued)

Option P50 will locate undergraduate and research laboratories in a new facility with four levels and mechanical space as an addition to Appleby Hall. Appleby Hall will then be renovated in two phases to accommodate the remaining office and teaching spaces.

Option P58 will locate office and teaching spaces on Floor 7 in Unit B/C and undergraduate and research laboratories on Floors 1 and 2 of a facility developed below the plaza to the east of Unit A. This option requires the demolition of three apartment buildings along Harvard Street.

Option P59 will locate the entire program of spaces for teaching, research, and administration on Floors 1, 2, and 3 in the North Court area of Mayo Hospital. This option requires a two floor (in-fill) addition within the existing court and the relocation of some Hospital pharmacy, laboratory, employee, and service functions to supplement space made available by the scheduled relocation of clinics and other departments to Unit B/C.

Nursing Options

Option N4 will locate the entire program of spaces for teaching, research, and administration on Floors 1, 2, and 3 in the North Court areas of Mayo Hospital, in space vacated by the scheduled relocation of clinics and other departments to Unit B/C.

Option N8 will consolidate all teaching, research, and administrative functions in phased renovation of space on Floors 1, 2, 3, and 4 in the central and east wings of Powell Hall. Additional space is made available by the scheduled relocation of the OB/Gyn Clinic to Unit B/C.

Option N54 will locate all teaching, research, and administrative functions on Floors 2 and 3 in the North Court area of Mayo Hospital. This option requires a two floor (in-fill) addition within the existing court to supplement space made available by the scheduled relocation of clinics to Unit B/C.

Option N56 will locate all teaching, research, and administrative functions on Floors 1 and 2 of a facility developed below the plaza to the east of Unit A. This option requires the demolition of three apartment buildings along Harvard Street.

PHARMACY/NURSING FEASIBILITY STUDY

DESCRIPTION OF OPTIONS

Composite Options

The 5 Pharmacy options and the 4 Nursing options which accommodate the program requirements can be combined into a possible 13 composite options according to the matrix and table below:

	N4 Mayo	N8 Powell	N54 Mayo (in-fill)	N56 Plaza
P6 Unit B/C & Apts.	0	0	0	
P11 Unit B/C & Mayo		0		0
P50 Appleby Hall	0	0	0	0
P58 Unit A Plaza	0		0	
P59 Mayo (in-fill)		0		0

Composite Option	Pharmacy Option	Nursing Option
1	P6 Unit B/C & Apartments	N4 Mayo
2	P6 Unit B/C & Apartments	N8 Powell Hall
3	P6 Unit B/C & Apartments	N54 Mayo (in-fill)
4	P11 Unit B/C and Mayo	N8 Powell Hall
5	P11 Unit B/C and Mayo	N56 Unit A Plaza
6	P50 Appleby Hall & Add.	N4 Mayo
7	P50 Appleby Hall & Add.	N8 Powell Hall
8	P50 Appleby Hall & Add.	N54 Mayo (in-fill)
9	P50 Appleby Hall & Add.	N56 Unit A Plaza
10	P58 Unit B/C & Unit A Pl.	N4 Mayo
11	P58 Unit B/C & Unit A Pl.	N54 Mayo (in-fill)
12	P59 Mayo (in-fill)	N8 Powell Hall
13	P59 Mayo (in-fill)	N56 Unit A Plaza

PHARMACY/NURSING FEASIBILITY STUDY

PRELIMINARY FINDINGS AND CONCLUSIONS

Health Sciences Planning

An evaluation of the options to accommodate the program requirements for the College of Pharmacy and the School of Nursing, in locations other than the previously designated Unit F site, must consider basic issues of Health Sciences planning, including space assignment, functional adjacency, departmental expansion, facility obsolescence, replacement, and project phasing.

1. Powell Hall has been designated as the site for future Unit J, the replacement facility for inpatient care units of Mayo Hospital. Considering that capital investments required to renovate space in Powell Hall would not have long-term utility, composite options 2, 4, 7, and 12 may be deleted from the list.

2. If Floor 15 in Unit B/C is designated as space for ambulatory care services, such as a treatment center for chemcial abuse, then composite options 1, 2, 3, 4, and 5 (as defined) may be deleted as lacking space for Pharmacy research.

3. The renovation of facilities for Pharmacy on the Appleby Hall site may effectively preclude the integration of that program with other interdisciplinary programs and resources in the Health Sciences complex. Options 6, 7, 8, and 9 may be deleted as being inconsistent with primary design criteria which promote interaction of faculty, staff and students.

4. It is not likely that it will be feasible to renovate the amount of space required to accommodate the entire Pharmacy program in Mayo Hospital before the long term replacement and expansion facilities for inpatient care, diagnostic, treatment, and service facilities are realized. Composite options 12 and 13 may be deleted as not being feasible within the same project time schedule as other options considered.

5. In summary of the above considerations, composite options 10 and 11 which are based on construction of an expanded Unit A Plaza and completion of Floor 7 in Unit B/C to

Health Sciences Planning (Continued)

accommodate the Pharmacy program, and the allocation of space in Mayo Hospital vacated by clinics (and other departments) for the Nursing program, appear most feasible for continued development of the Health Sciences complex.

6. However, according to recent projections, space allocations for the School of Public Health in Mayo Hospital and Powell Hall are equivalent in area to requirements for the School of Nursing. This indicates a need for joint-resolution of planning and designation of sites for Pharmacy, Nursing, and Public Health programs.

Project Time Schedules

Project time schedules are based on estimates of actual time required for renovation or construction, the date(s) on which sites become available, phasing requirements due to occupancy of space, and the need to provide educational facilities on a continuous basis, restricted work conditions and the preparation of design and contract documents.

1. Many of the options use space in Mayo Hospital which is vacated by the relocation of clinics and other departments to Unit B/C at the completion of Phase I and II construction. It is assumed that the availability of this space for the earliest start of the renovation work is approximately March, 1978, or at the completion of Phase I work and the first phase of occupancy. Based on differences in the scope of work, method of contract award, contractor coordination, and project schedules, completion of Phase II work can be delayed up to 12 months.

2. Similar delays can be expected for the development of shell space in Unit B/C.

3. To meet the earliest dates for project site clearance and construction, the preparation of design and contract documents for each option is consistently assumed to be completed by January 1978, with review, bidding, and award of contracts by March 1978.

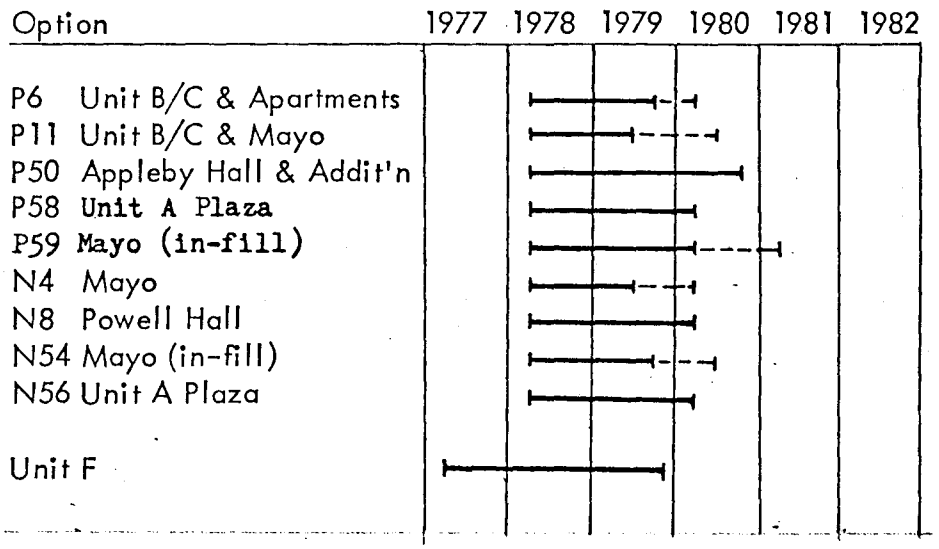
4. It can be concluded from the graph of assumed project time schedules on the following page, that contingencies in completion of work in Unit B/C, the phasing of work in Appleby Hall and Powell Hall renovation, and relocation schedules, particularly in Pharmacy Option P59, result in the delivery of completed facilities generally later than the new time schedule to complete Unit F, which assumes early contracts for demolition, excavation and steel fabrication.

PHARMACY/NURSING
FEASIBILITY STUDY

PRELIMINARY FINDINGS AND CONCLUSIONS .

Project Time Schedules

Assumptions regarding the project time schedules for each for the options are summarized in the graph which follows. The dashed line indicates the extent of delay for completion of Phase II construction in Unit B/C.



THE ARCHITECTS COLLABORATIVE INC.

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[illegible]45 1965
WALTER GROPIUS
1945 1969
NORMAN FLETCHER
JOHN C. HARKNESS
SARAH P. HARKNESS
LOUIS A. McMILLEN

RICHARD BROOKER
ALEX CVIJANOVIĆ
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ROBERT TURNER
ROBERT WILSON
LAURENCE ZUELKE

29 November 1976

Mr. Clinton N. Hewitt
Assistant Vice President
Physical Planning
University of Minnesota
340 Morrill Hall
Minneapolis, Minnesota 55455

Regarding: University of Minnesota
Health Sciences Expansion
Unit B/C - #74038

Dear Clint:

At our meeting of 17 November 1976 attended by you and I, together with Messrs. Kopietz, Maupin, Kogl, Hammel and Blanchard, we addressed the concerns stated in your letter of 10 November 1976 regarding issuance of Unit B/C construction modifications. In addition to clarifying certain discrepancies contained in your letter we transmitted to all present the following documents:

1. A memo dated 15 November 1976 by Mr. Duane Blanchard which summarized the background and status of every modification contained on the "Unit B/C Proposed Modification" list.

2. A simplified tabulation of the data contained in Item One but furtherindicating the implications to the construction schedule with associated priorities.

3. A copy of the Modification Log for Unit B/C construction contracts which identifies and describes each modification, and records the action or status of each modification issued to the various contractors including cost data and other pertinent remarks.

We not only addressed your concerns but agreed to a "plan of action" which involves all team members, Architect, Health Sciences Planning Office, University Construction Supervision and University Construction Schedule Consultant. We further agreed that all parties would continue to follow the procedures and policies established at the commencement of construction and that you would be copied with the meeting notes and updated modification list as it is presented and acted upon at the bi-weekly Unit B/C Progress Meeting.

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THE ARCHITECTS COLLABORATIVE

We trust that the information provided, together with our assurance to continue to process modifications in a timely manner in accordance with the specific priorities and time requirements identified by your Construction Schedule Consultant satisfactorily resolves the concerns stated in your letter of 10 November 1976.

Sincerely,

THE ARCHITECTS COLLABORATIVE, INC.

John J. Scott
ljg

cc: Paul Maupin
Eugene Kogl
Robert Dickler
Campbell and Co.
Richard Hammel
HSAE
Paul Kopietz

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