

AN ANALYSIS FOR THE REDESIGN OF THE EXISTING  
FACILITIES FOR THE COLLEGE OF ARCHITECTURE &  
DESIGN, SEATON HALL, KANSAS STATE UNIVERSITY

by 6408

DANIEL WAYNE MASTERS

Bach. of Arch., Kansas State University, 1970

—  
A MASTER'S THESIS

submitted in partial fulfillment of the

requirements for the degree

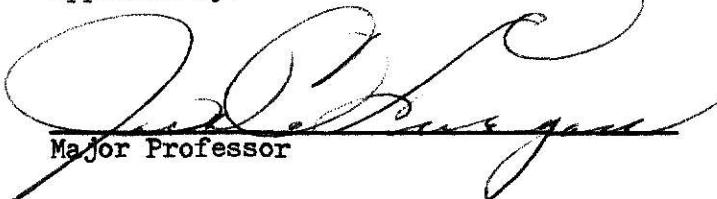
MASTER OF ARCHITECTURE

College of Architecture and Design

KANSAS STATE UNIVERSITY  
Manhattan, Kansas

1971

Approved by:

  
Major Professor

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## INTRODUCTION

Environment is all the conditions, circumstances, and influences surrounding and affecting the development of an organism or group of organisms. It has become the symbolic base of the designers' vocabulary with little knowledge of its complex forces and powers on organisms. I believe, that in this world and at this time, man is the most sophisticated organism. Therefore, I shall call this term man-environment. Man-environment is the interaction and articulation of every fact related to man. It is time for man-environment to be dealt with in reality and for its priority to become equal to its influence and potential.

The influence of environment on man has been virtually ignored. It is an important responsibility of the designer to become aware, to understand, to place priorities, to make trade offs, and to synthesize all data and factors into a man-environment. I call this the synthesis of the man-environment syndrome. Environment is not a theory but a fact and not a word but a responsibility. We must stop evading its complexities because man suffers from the illusions presented as solutions. All of our environmental problems are nurtured by an ignorance of, or an unwillingness to accept, the importance of designing a planned environment.

Planning and designing space is composed of many scales. For example, these scales encompass city planning as well as closet planning. Each

man-environment develops its own specific and peculiar syndrome but the synthesis process should be equal in importance in order to unify them into a whole. The growing need for environmental synthesis has developed a new specialization called space planning. The space planner must analyze and synthesize the research, existing data, and assumptions into projections for a man-environment which supplies the maximum utilization of space.

I will develop a process for analyzing and projecting an environment in the following document. I have chosen the College of Architecture and Design, Seaton Hall, Kansas State University to use as an example. The education and development of architects and persons in related disciplines as man-environment creators is a complex situation. The man-environment used to produce this experience is even more complex. I will develop the synthesis of this environment in order to have an understanding of the space planners' responsibility in today's society because of its unavoidable importance for existence.

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NUMEROUS PAGES  
WITH DIAGRAMS  
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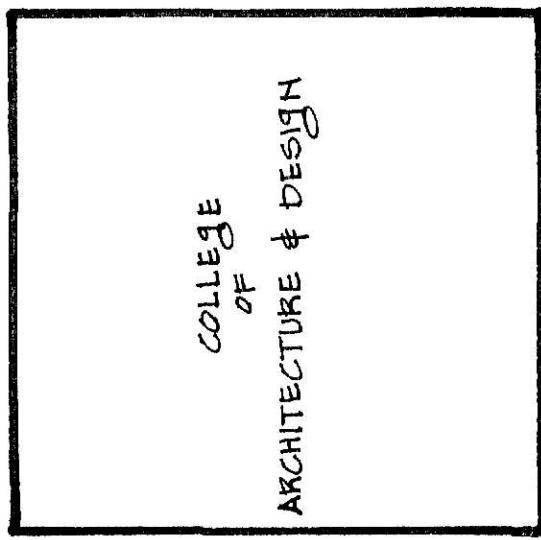
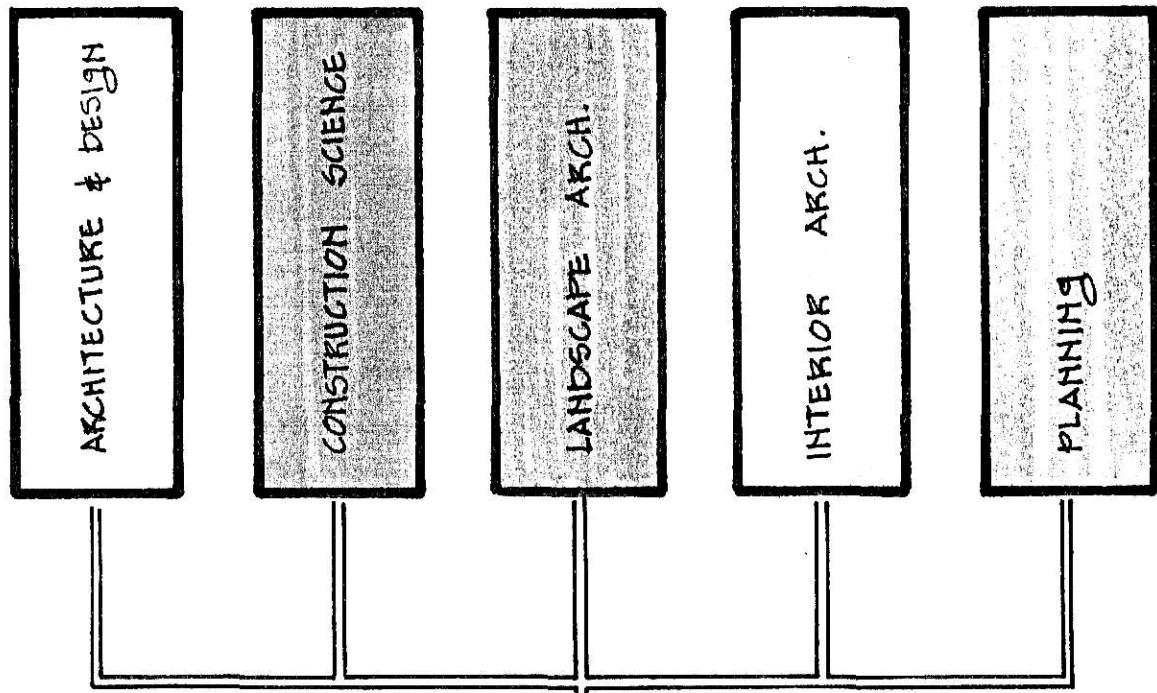
college  
of  
architecture & design

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THE ORIGINAL**

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COPY AVAILABLE**

# college departments



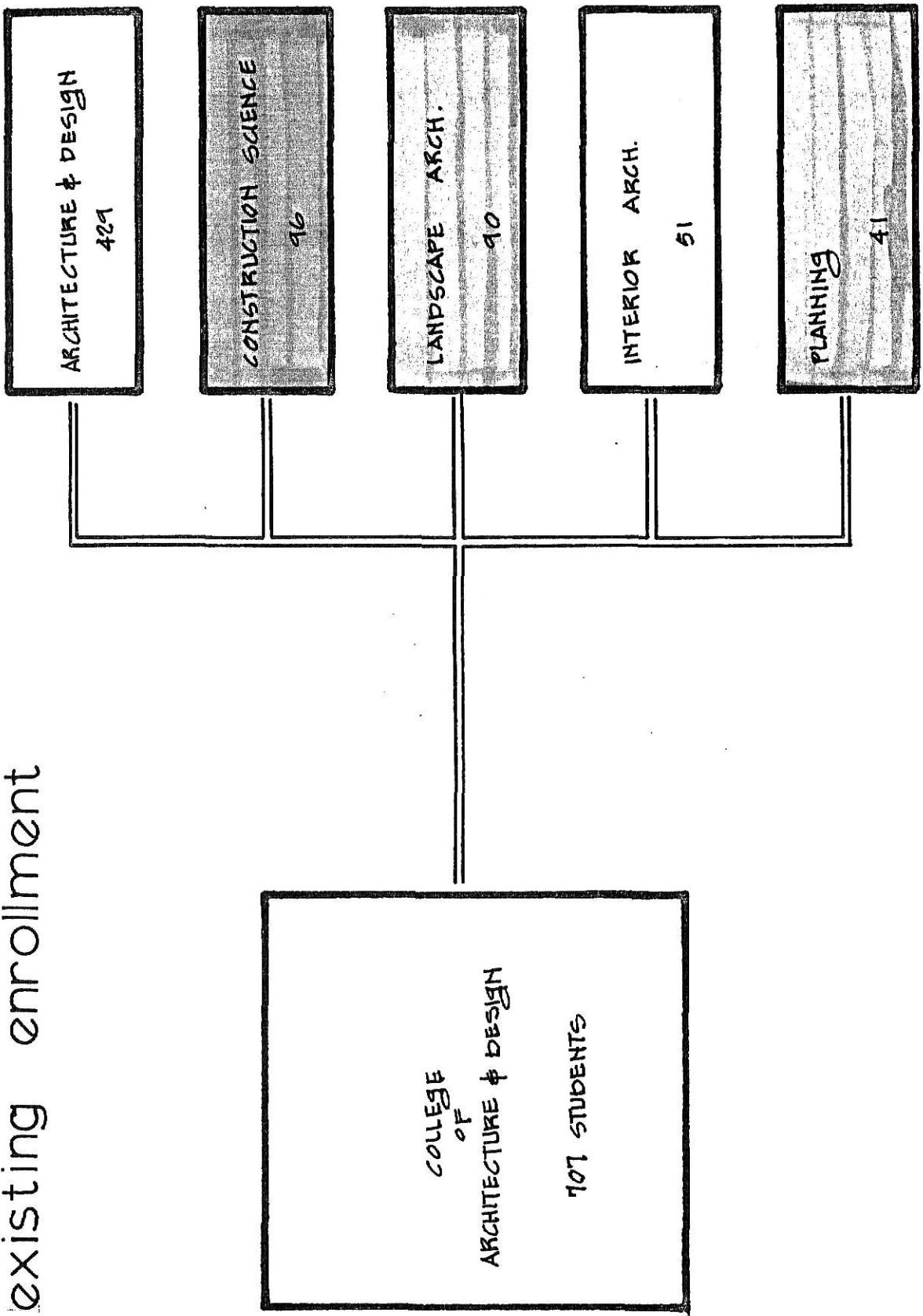
PLATED I

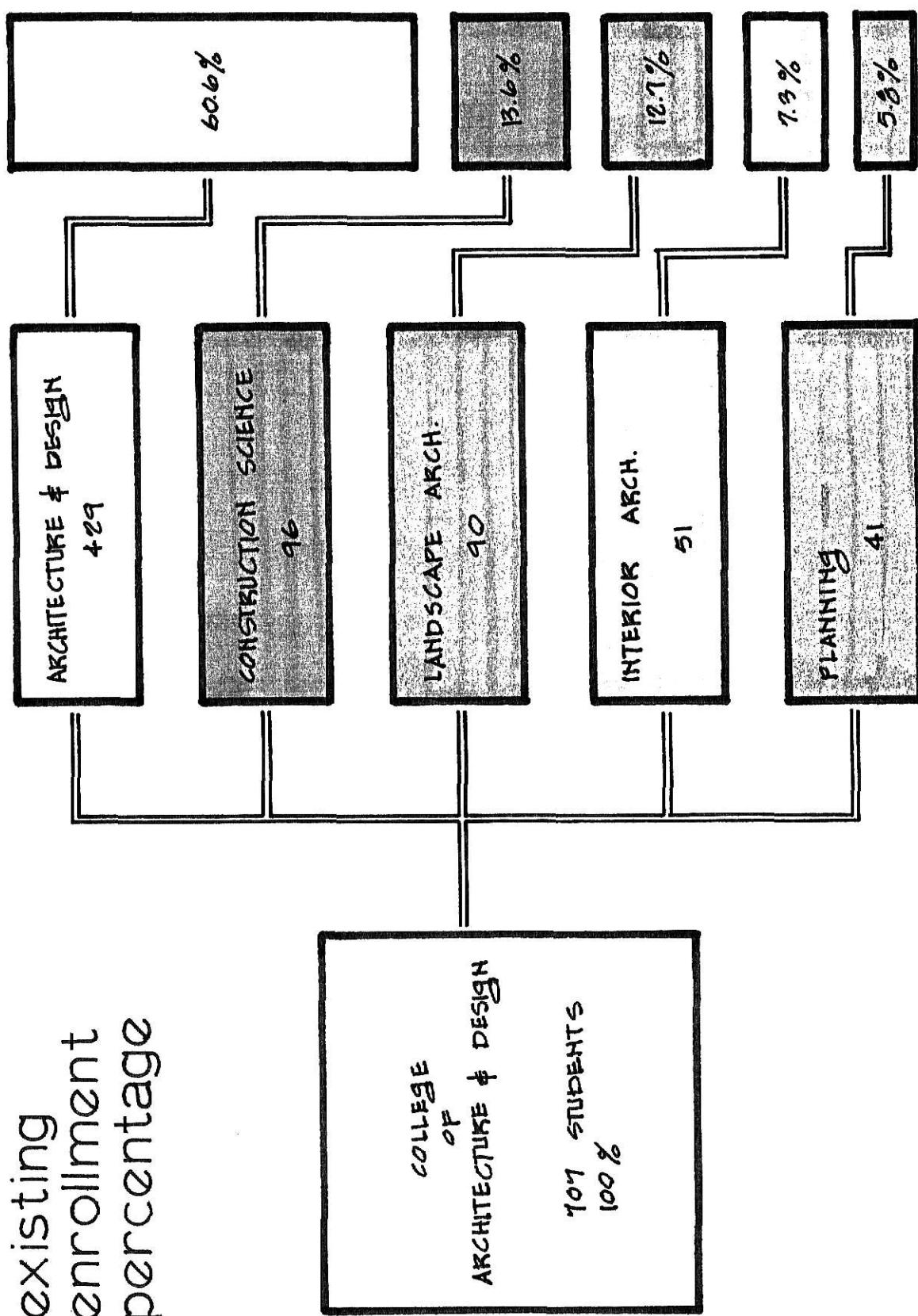
enrollment  
existing data

ENROLLMENT - EXISTING DATA

Plates II and III represent information developed from registration data in August, 1970. The numbers of students shown are the declared majors for each department of the College of Architecture and Design. It is important to notice the existing percentages of declared majors in each department for projection comparisons.

existing enrollment





enrollment  
growth pattern

## ENROLLMENT - GROWTH PATTERN

Plates IV-IX represent growth pattern graphs that express growth trends for the past five years and for the future five years. The past five years' growth is based on data from student records. The future five years of growth are based on assumptions. These assumptions had to be made in order to complete the analyzation process and make projections.

The first assumption is that there will be an increase in numbers of declared majors in the College of Architecture and Design. The second assumption is that there must be a limit in numbers of declared majors admitted into the College. I developed an understanding of rate of growth and maximum growth from my interviews with the department heads and the retiring Dean. When the College departmentalized, it expressed a movement toward specialization which is sympathetic to professional desires. This specialization is evident on the graphs because of the decline in the Department of Architecture and the growth of the other departments. It is my opinion that the maximum number of declared majors admitted and priorities of departmental growth are peculiar to each College of Architecture and Design. I investigated enrollments of Colleges of Architecture and Design across the country, but I do not think that this is valid criteria. For example, Massachusetts Institute of Technology has no compunction about shifting departments around as one flourishes and another begins to wither.<sup>1</sup> Therefore

the assumptions made on maximum growth and priority of growth are based on the College of Architecture and Design at Kansas State University.

enrollment growth - ARCHITECTURE & DESIGN

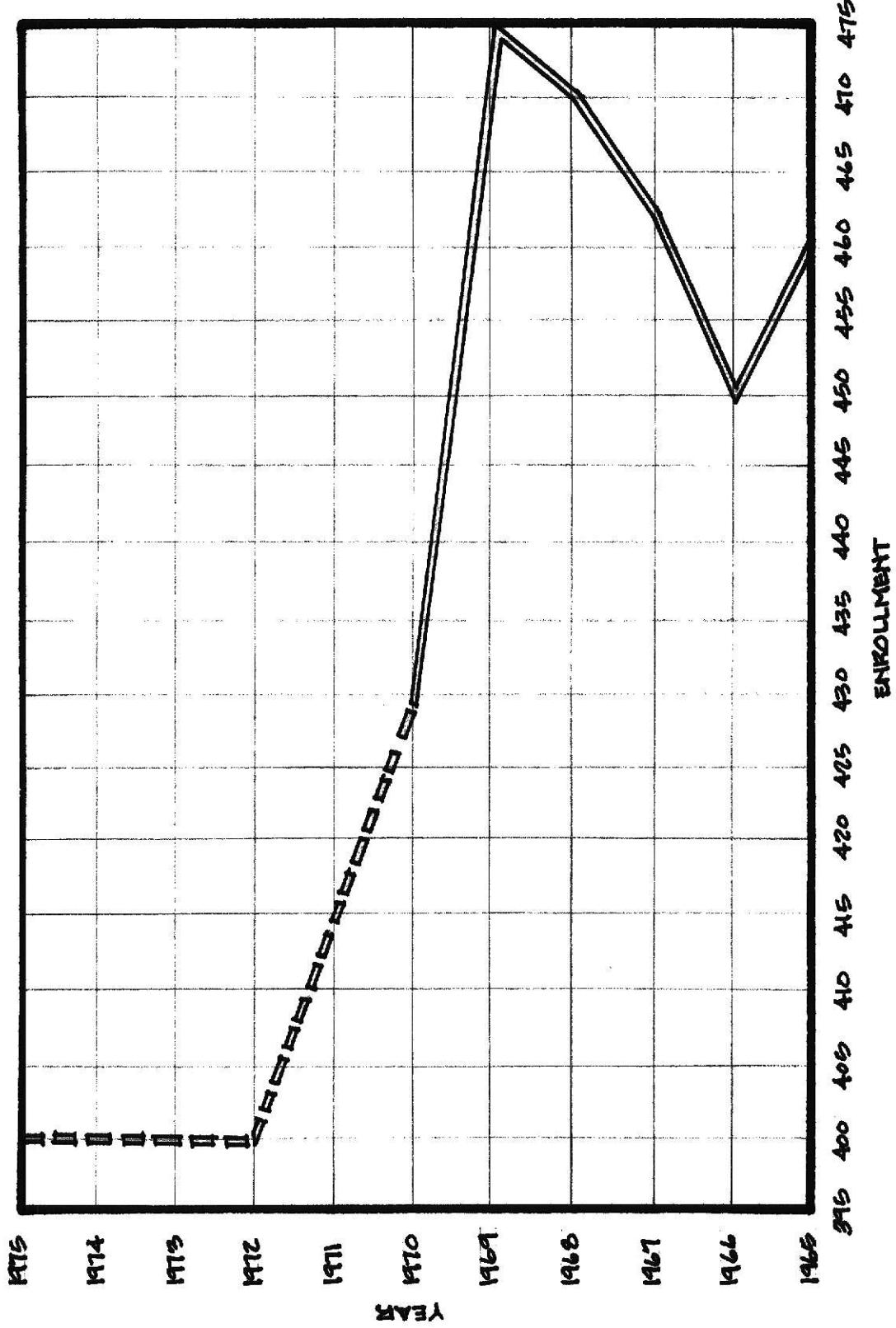
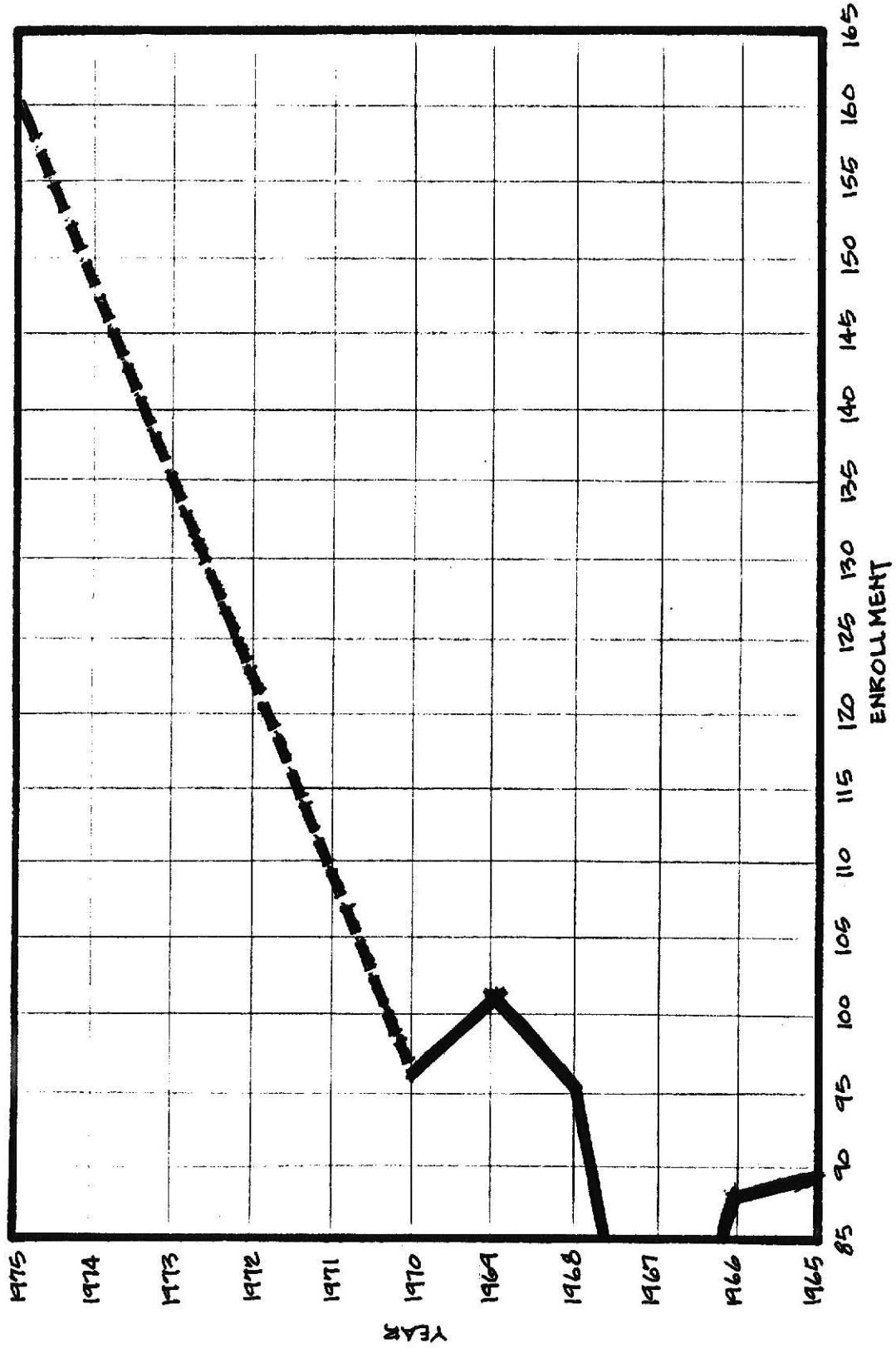
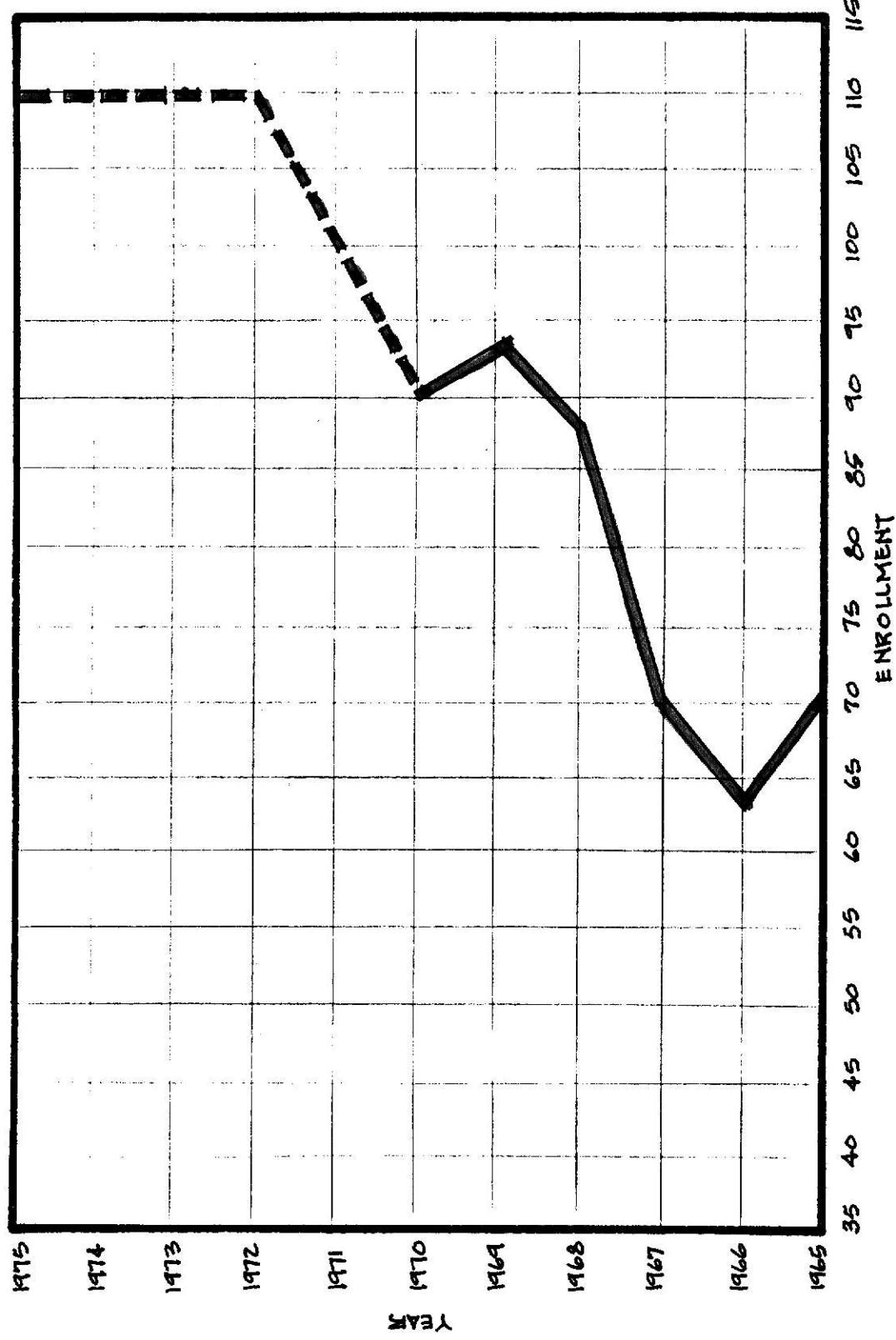


PLATE IV

enrollment growth - construction science



enrollment growth - LANDSCAPE ARCHITECTURE



enrollment growth - INTERIOR ARCHITECTURE

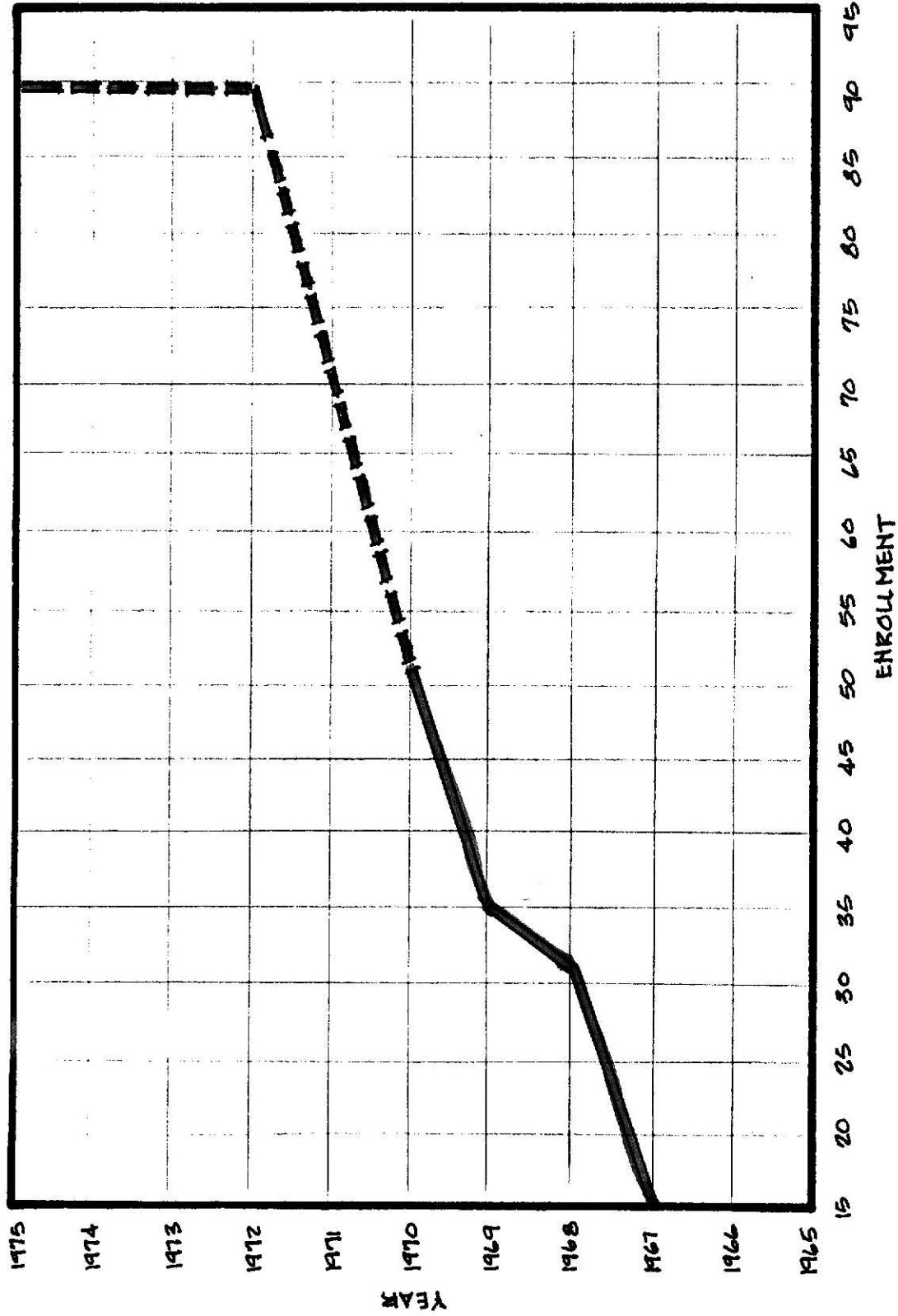
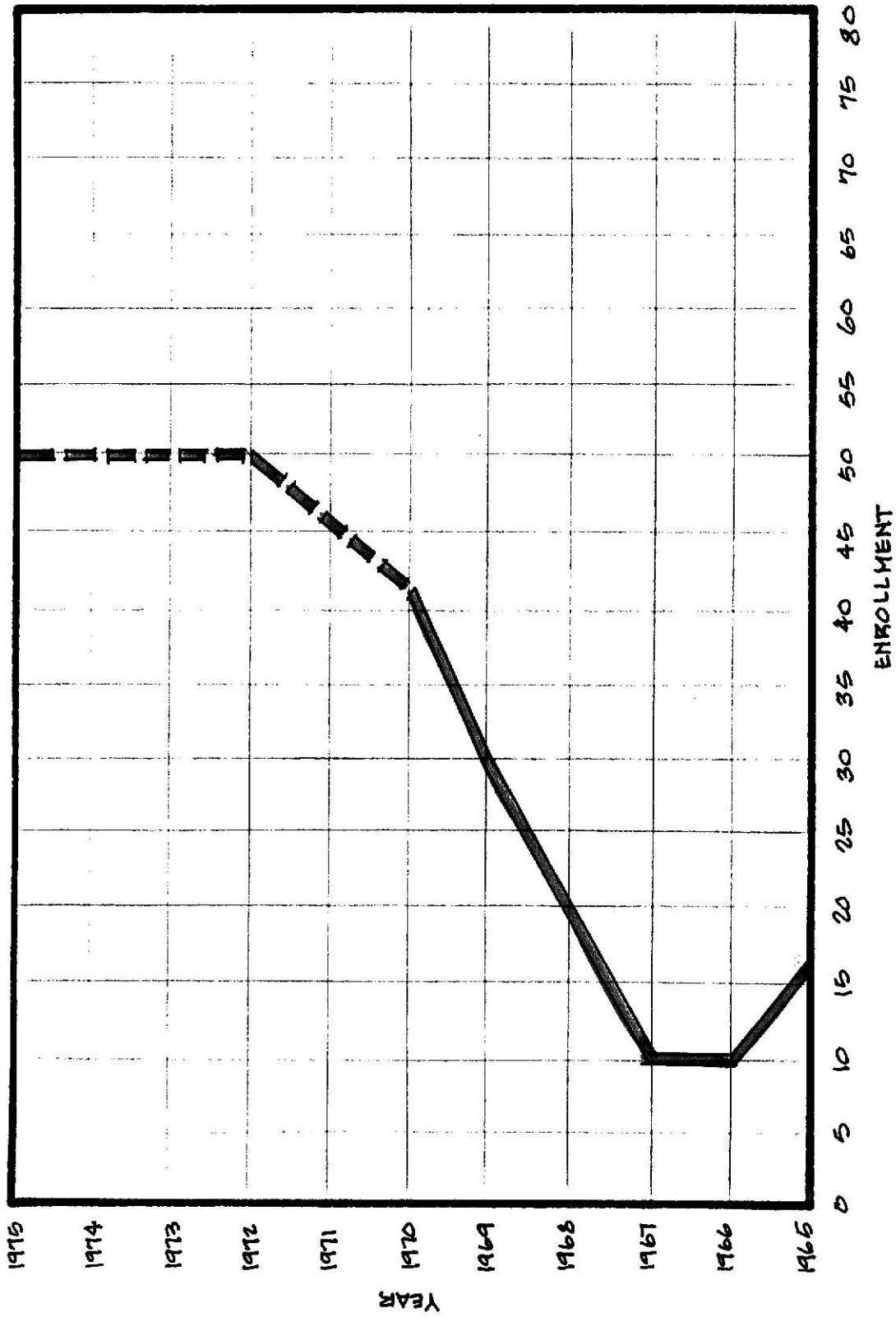
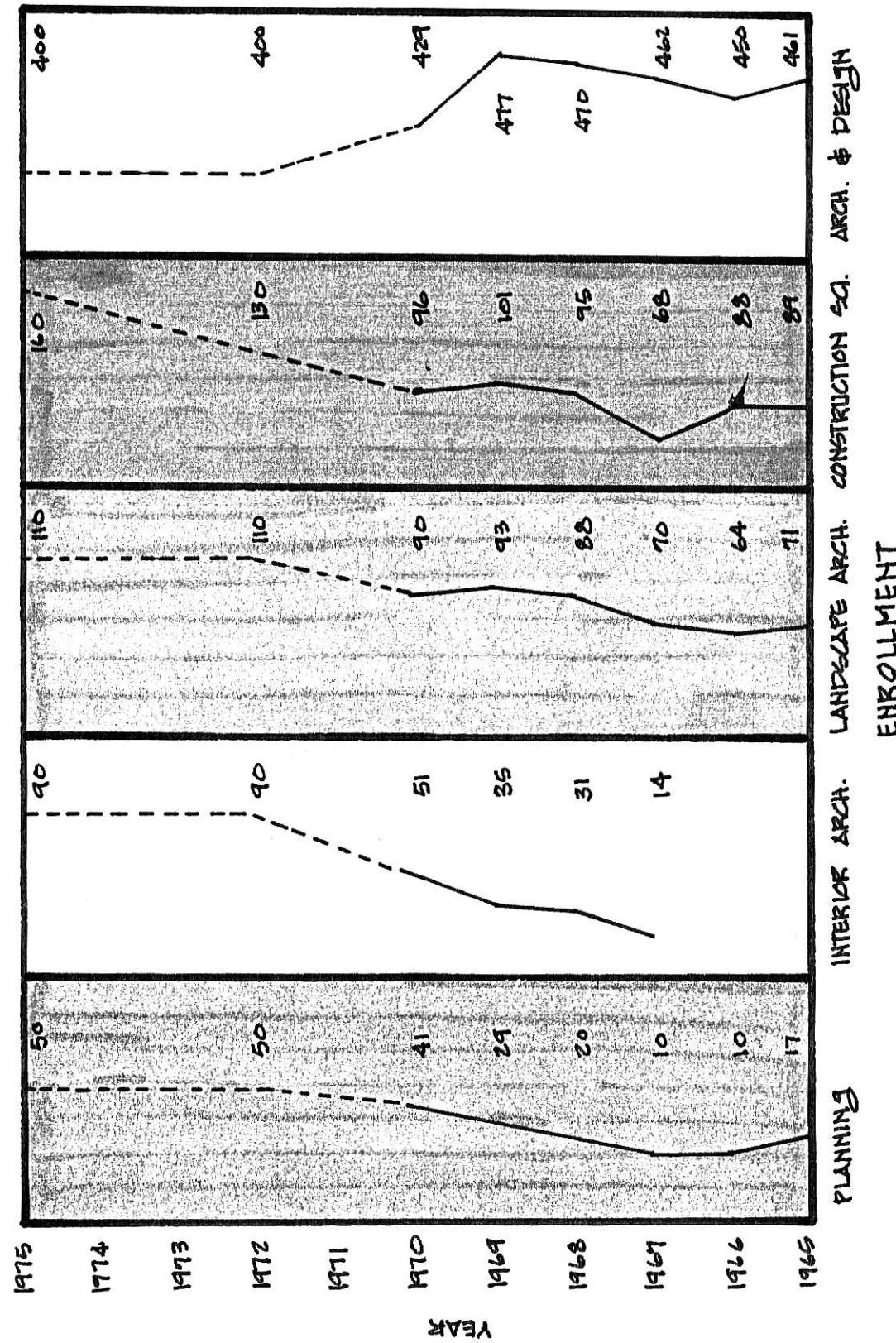


PLATE VII

enrollment growth - PLANNING



enrollment growth - college of architecture & design

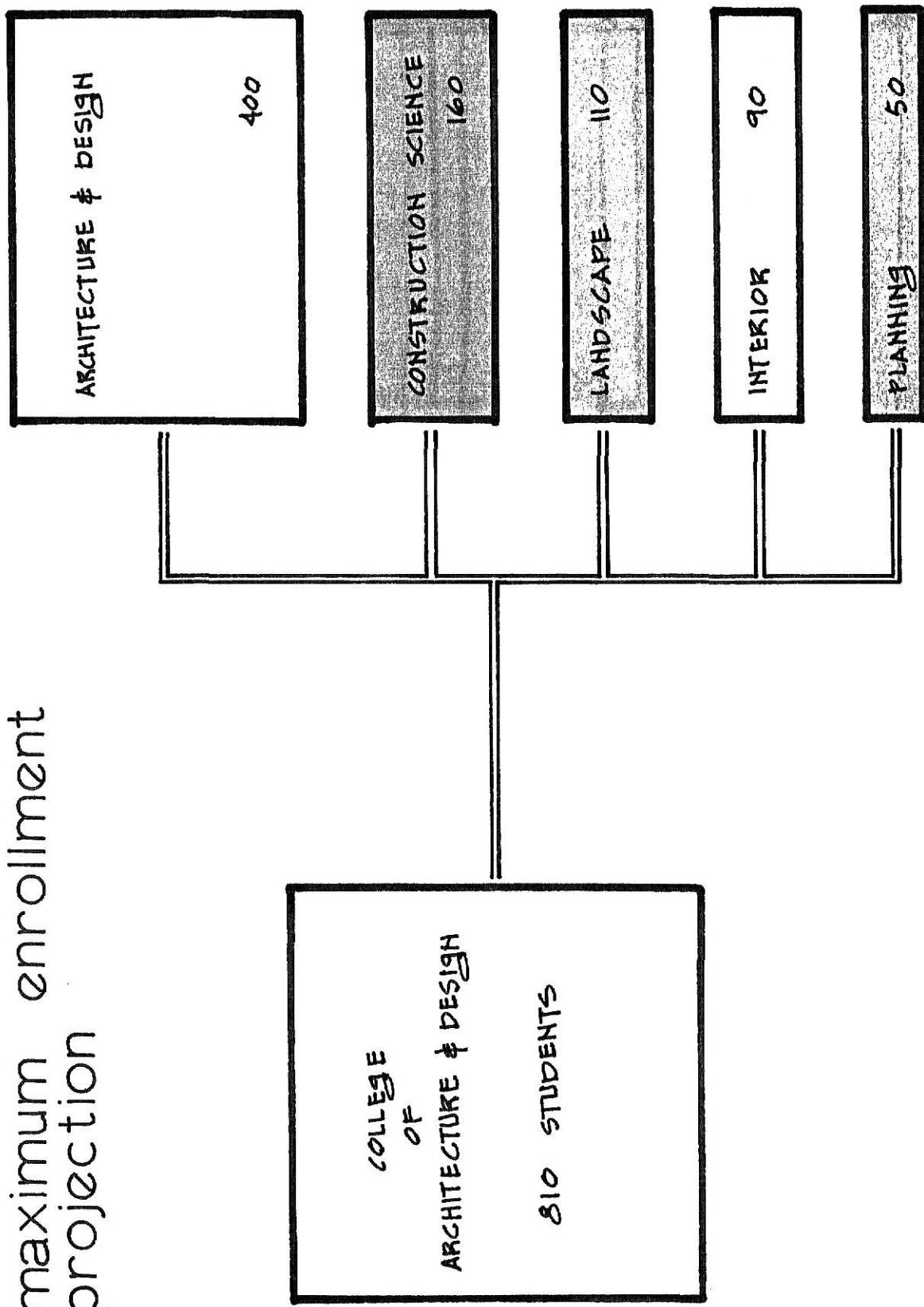


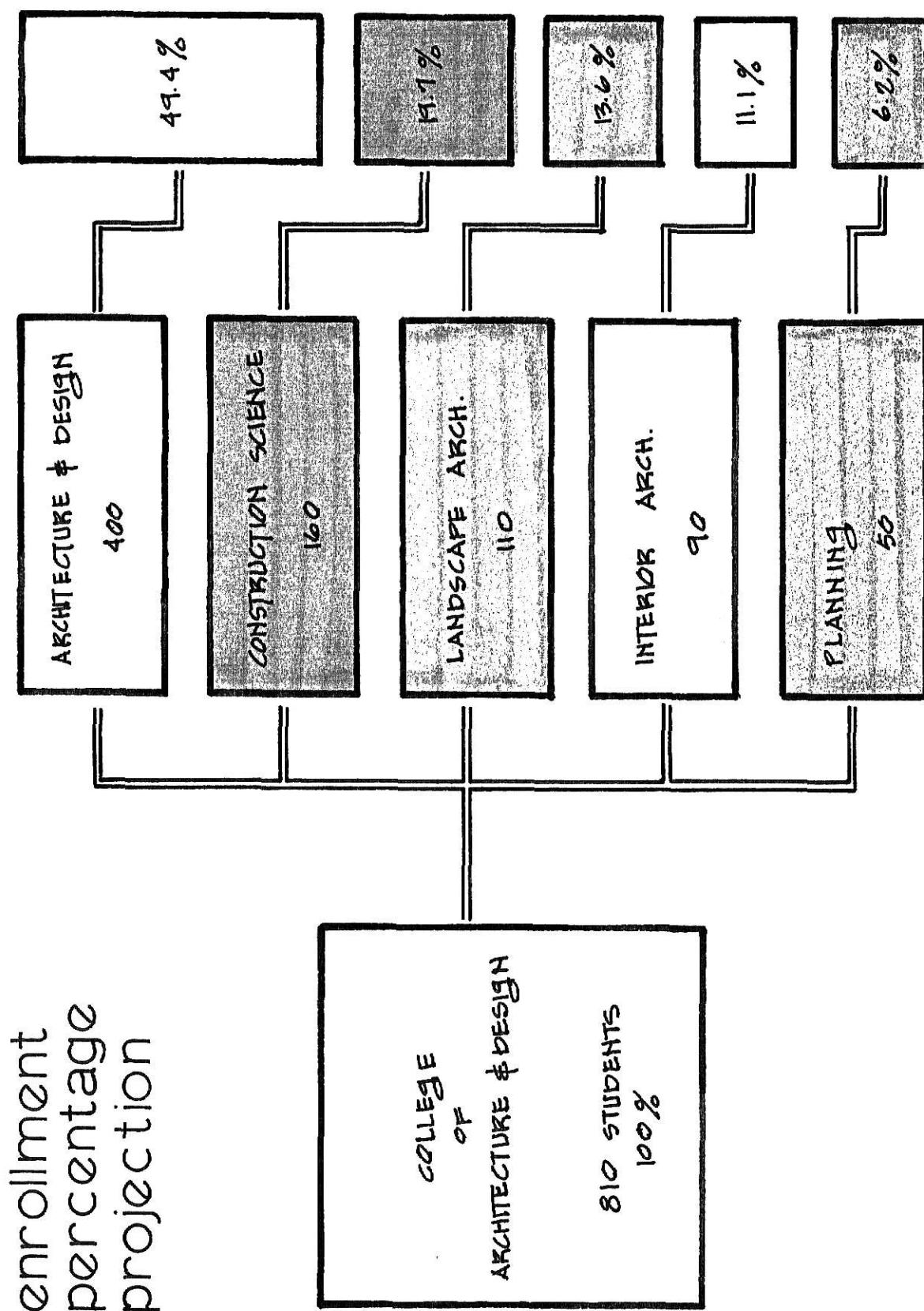
enrollment  
projected data

## ENROLLMENT - PROJECTED DATA

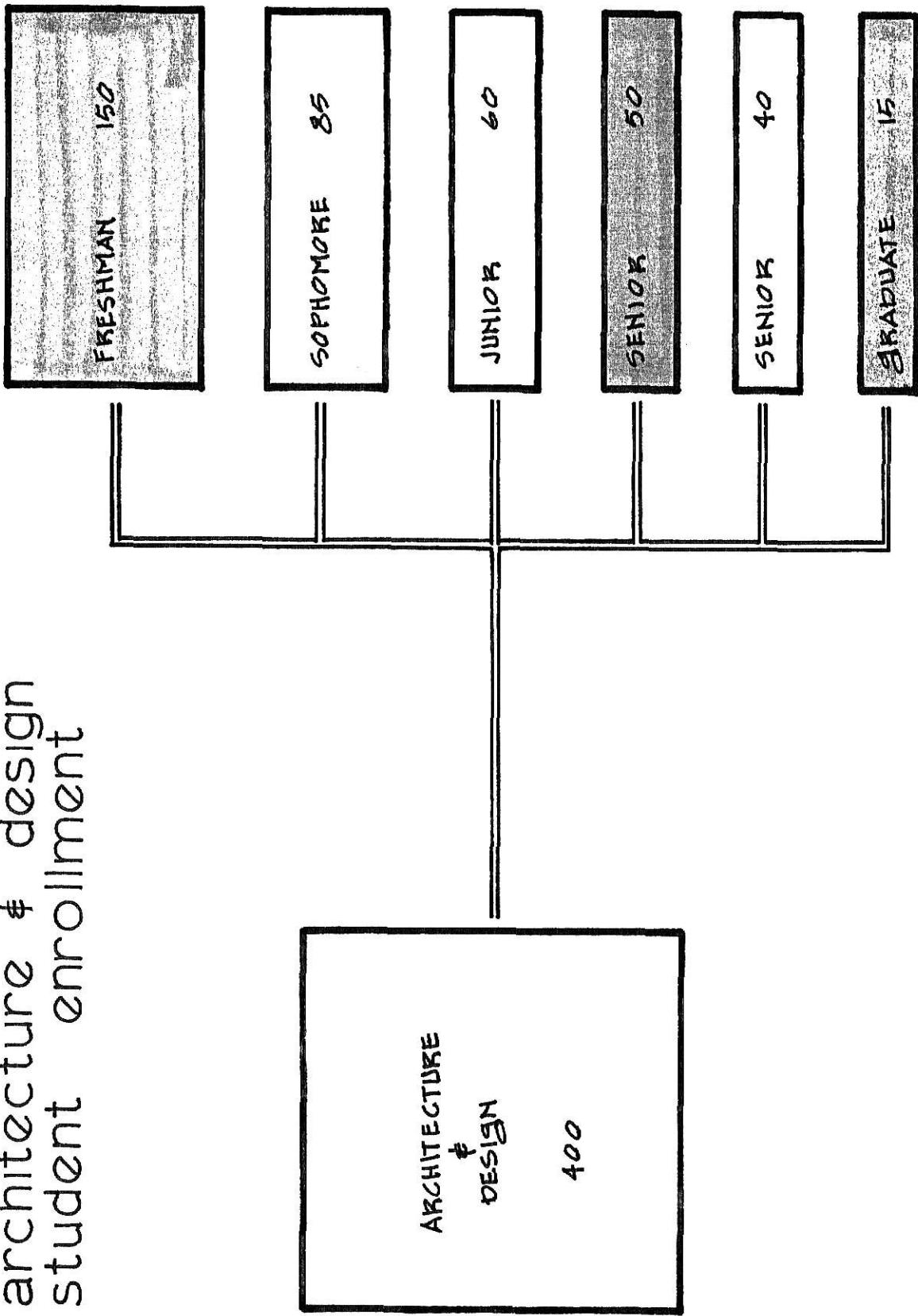
Plates X-XXII represent the projection of enrollment of declared majors at its maximum. This projection demanded a vital assumption in order to continue the analyzation process. The assumption was to divide the total number of students in each department into the five years of undergraduate levels. The division of the five departments is interpolated from past data trends available from student records at Kansas State University. The projection expresses the trend in student drop-out or curriculum change because of the difference in numbers of first year students as compared to fifth year level students. The assumption of the five level divisions makes it possible to project the area of basic studies. This area is vital to the College as shown in the percentages of Plate XXI.

maximum enrollment  
projection

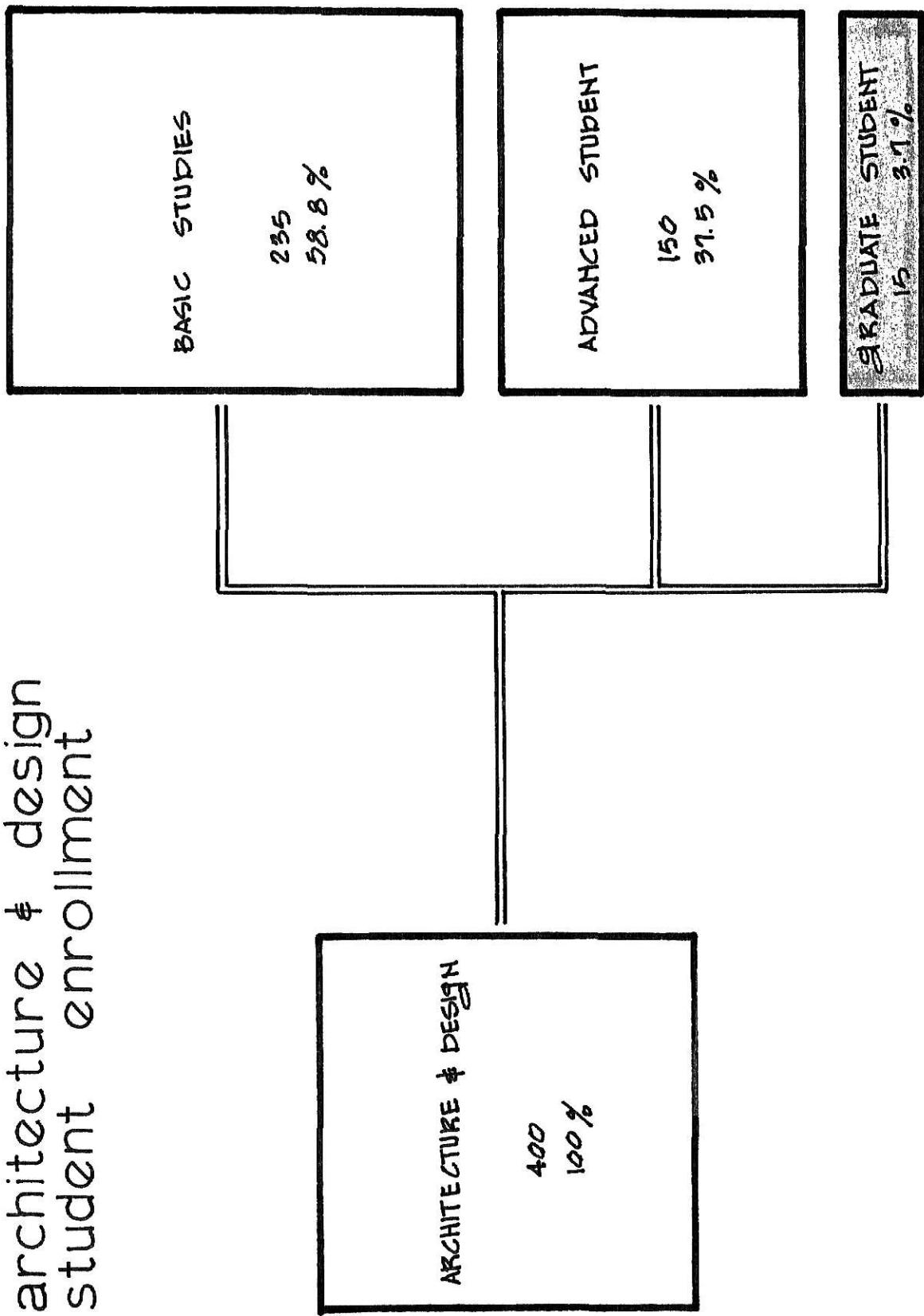




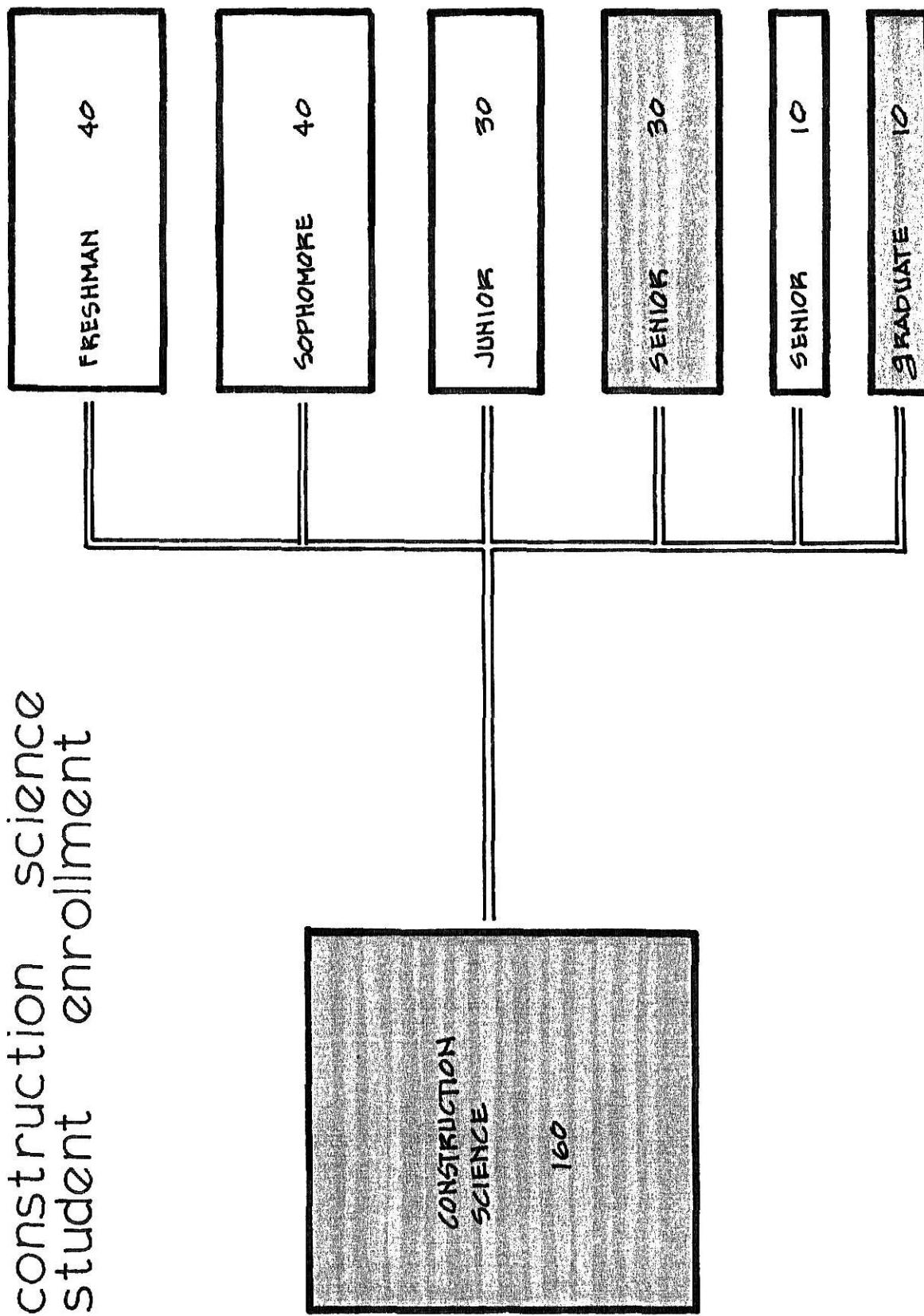
architecture & design  
student enrollment



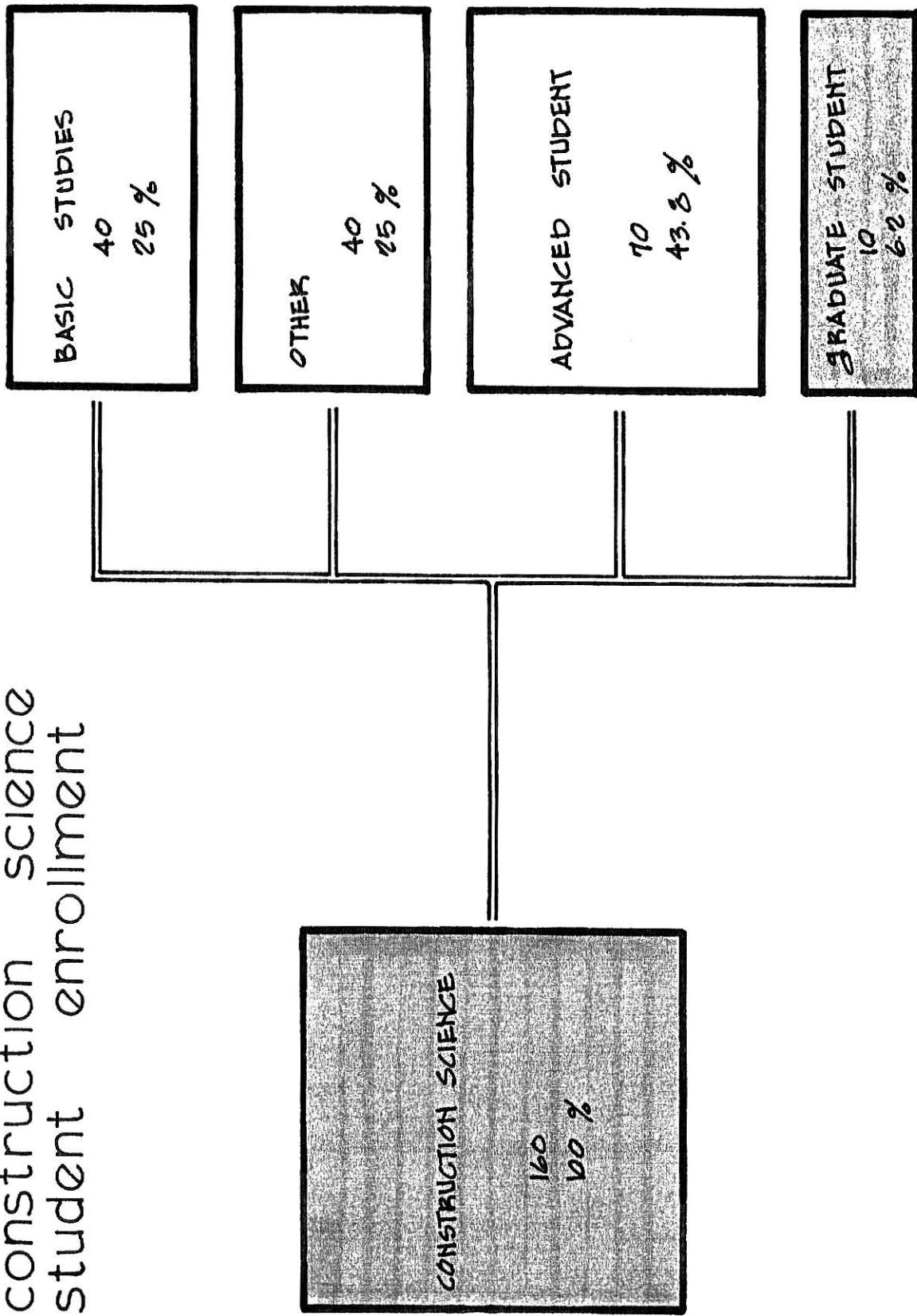
architecture & design  
student enrollment

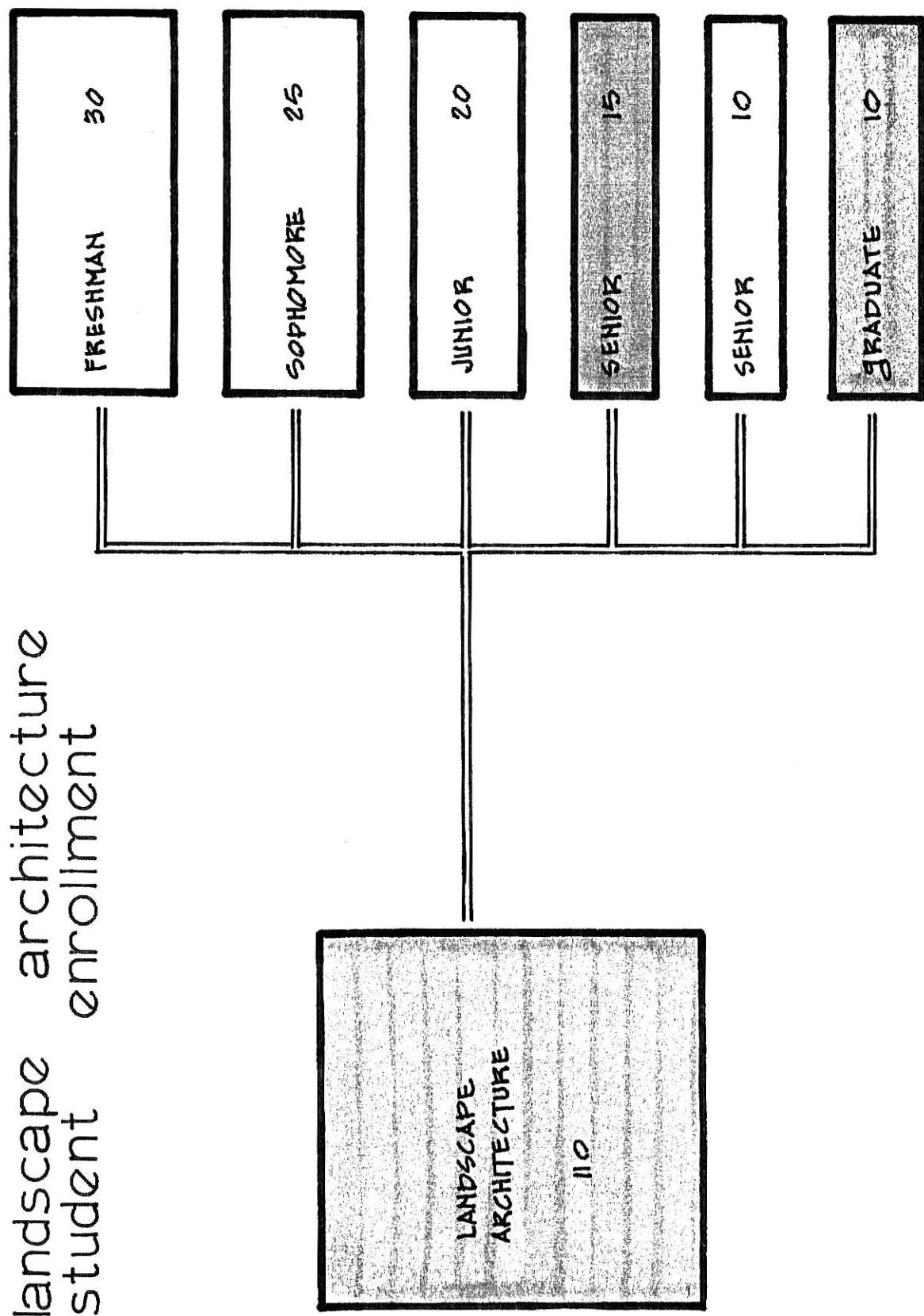


construction science  
student enrollment

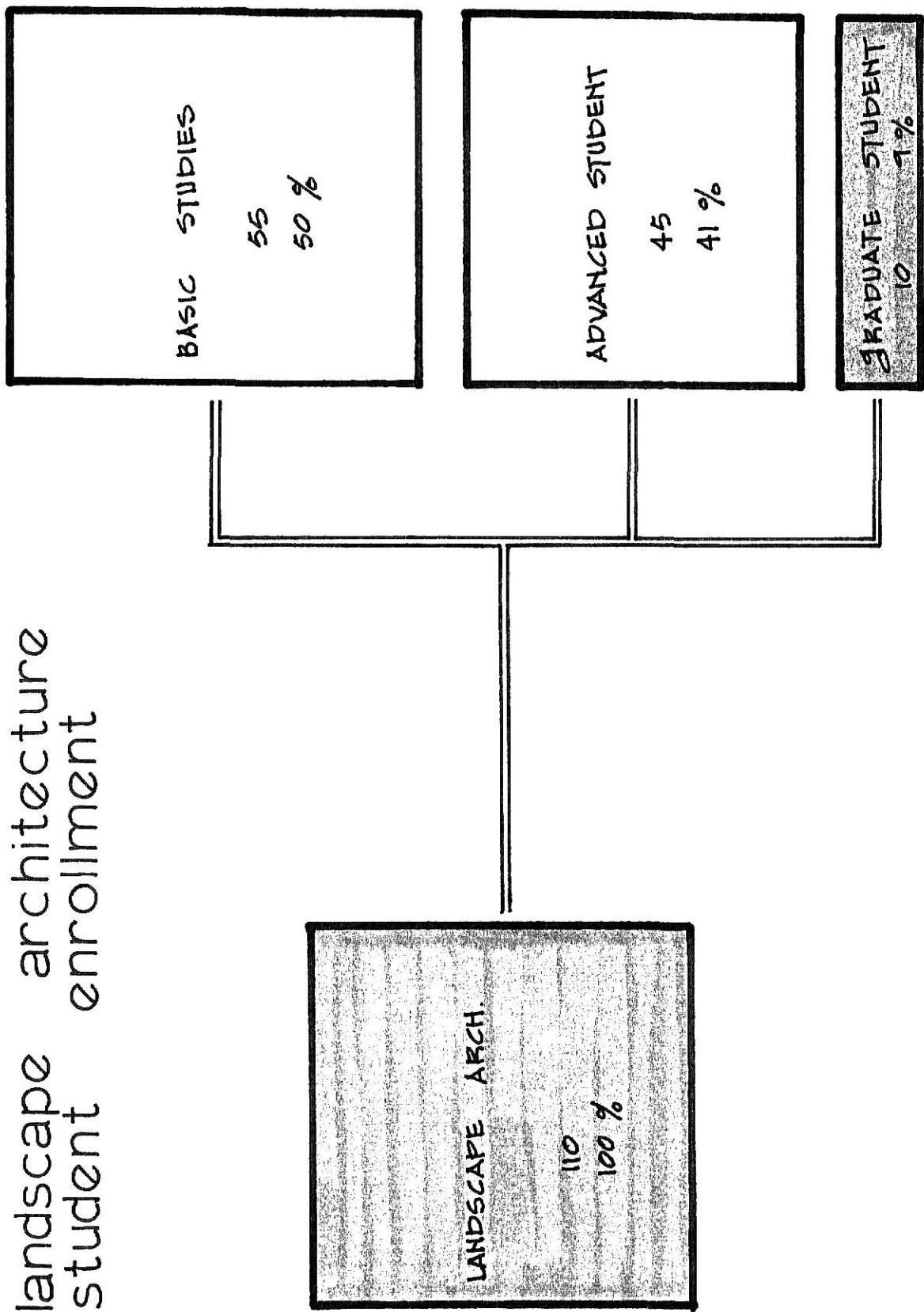


construction science  
student enrollment

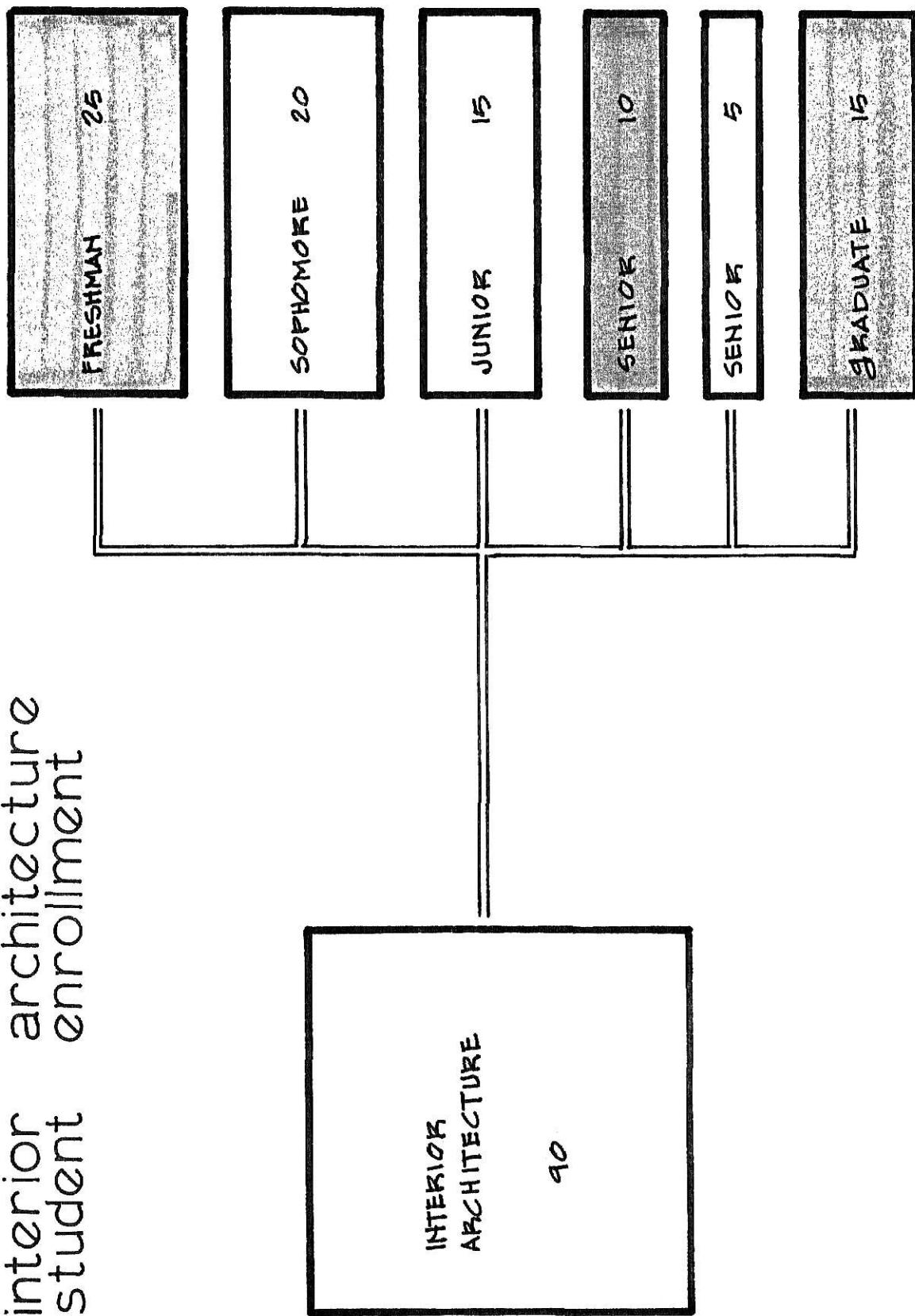




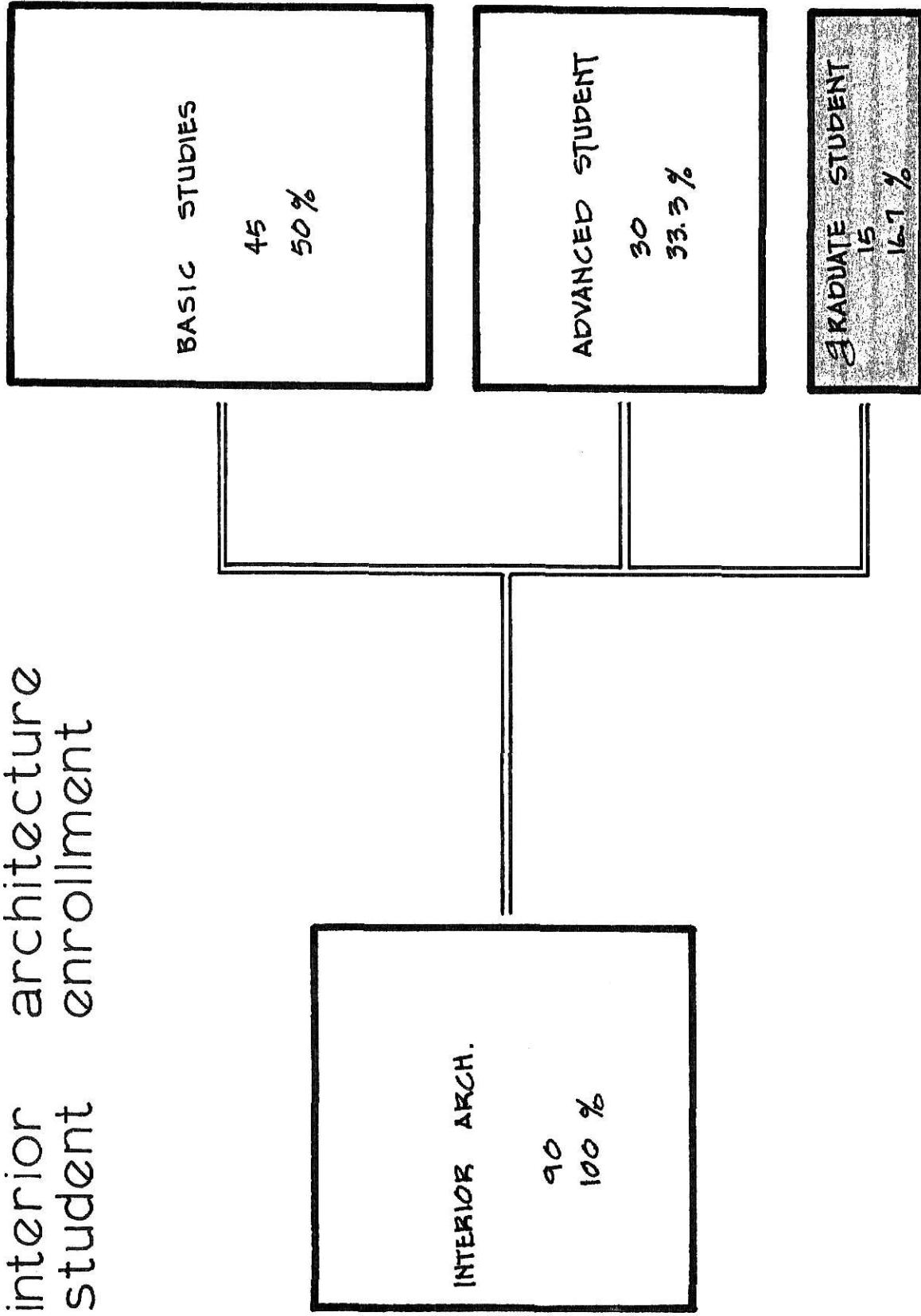
landscape architecture  
student enrollment



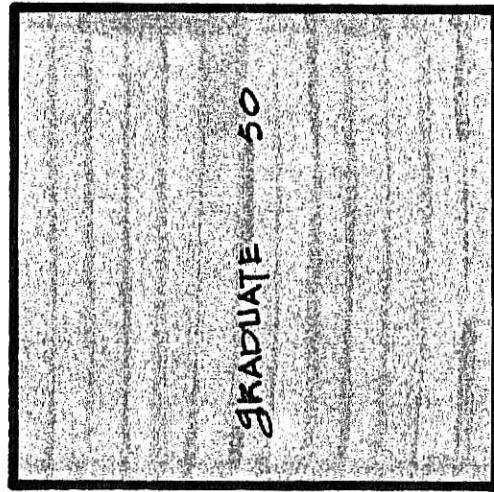
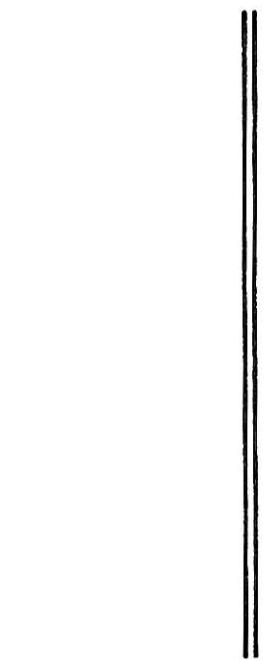
interior student enrollment

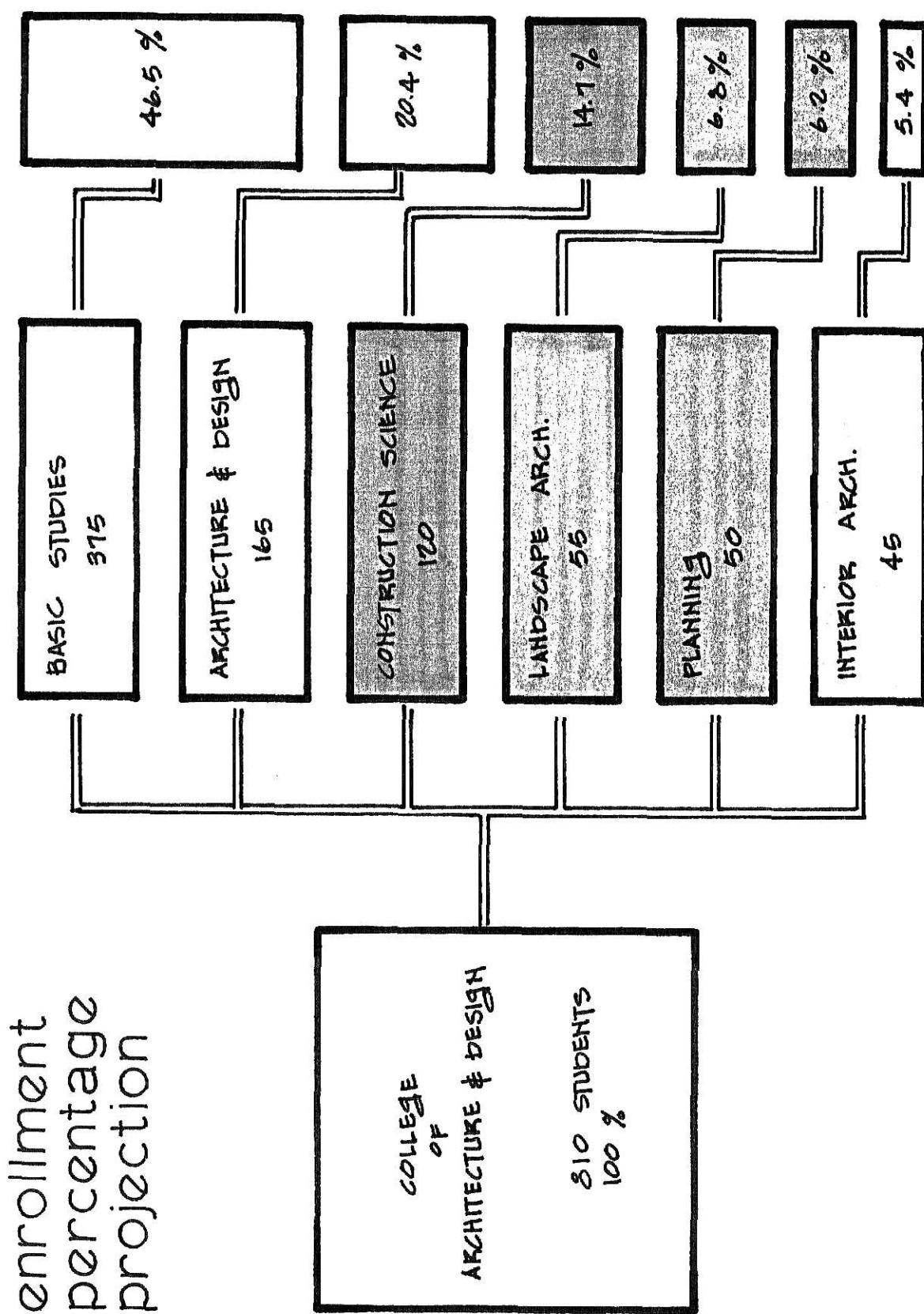


interior  
student  
enrollment

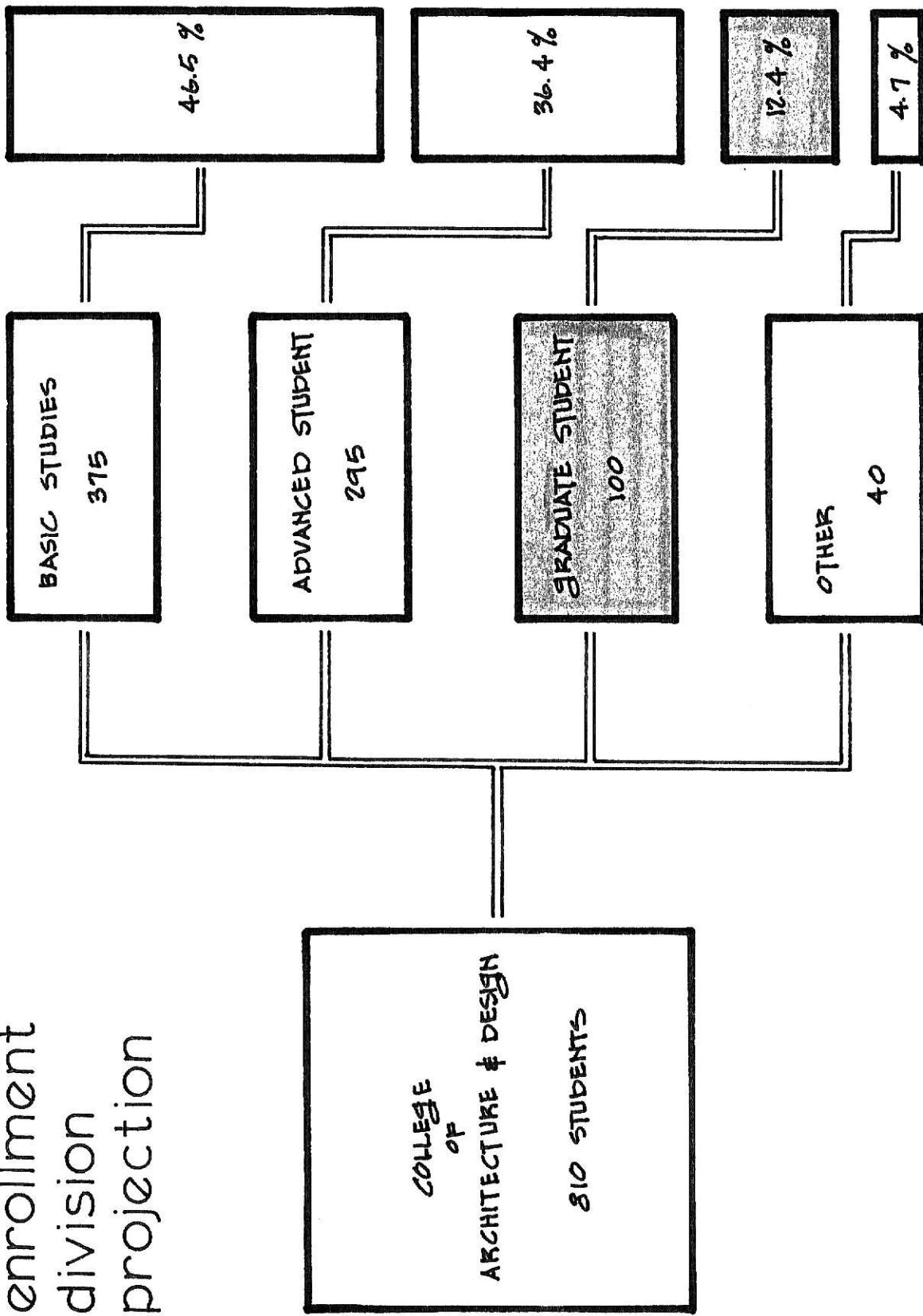


planning  
student enrollment





enrollment  
division  
projection



department mix  
existing data

## DEPARTMENT MIX - EXISTING DATA

Plates XXIII-XXXI represent the existing classes taught by each department and the departments which require each class. It is important to observe the departments which offer the most classes and the departments which use the most classes. I feel that an analyzation here will lead to a greater interaction among departments and will eliminate repetitious courses. Plate XXIII is further verification of the importance for greater priorities in the area of basic studies.



# architecture existing class mix

	ARCH.	CONSTR.	LANDSCAPE	INTERIOR	PLANNING
ARCHITECTURAL MATERIALS & DESIGN					
ELEMENTARY ARCHITECTURAL CONSTR.					
APPRECIATION OF ARCHITECTURE					
PROB. IN ARCHITECTURAL DESIGN					
HISTORY OF ARCHITECTURE I					
HISTORY OF ARCHITECTURE II					
HISTORY OF ARCHITECTURE III					
HISTORY OF ARCHITECTURE IV					
ENVIRONMENTAL SEMINAR					
ARCHITECTURAL DESIGN I					
ARCHITECTURAL DESIGN II					
ARCHITECTURAL CONSTRUCTION I					
ARCHITECTURAL CONSTRUCTION II					
MOSAIC					
PROB. IN ARCHITECTURAL PRESENTATION					
ARCHITECTURAL DESIGN III					
ARCHITECTURAL DESIGN IV					
ARCHITECTURAL DESIGN V					
ARCHITECTURAL DESIGN VI					
PROFESSIONAL PRACTICE					
ENVIRONMENTAL AESTHETICS					
ADV. ENVIRONMENTAL SEMINAR					
PROB. IN ARCHITECTURE					
RESEARCH IN ARCHITECTURE					
THEORY OF DESIGN					
ADV. ARCHITECTURAL DESIGN					
ARCHITECTURAL LECTURE					



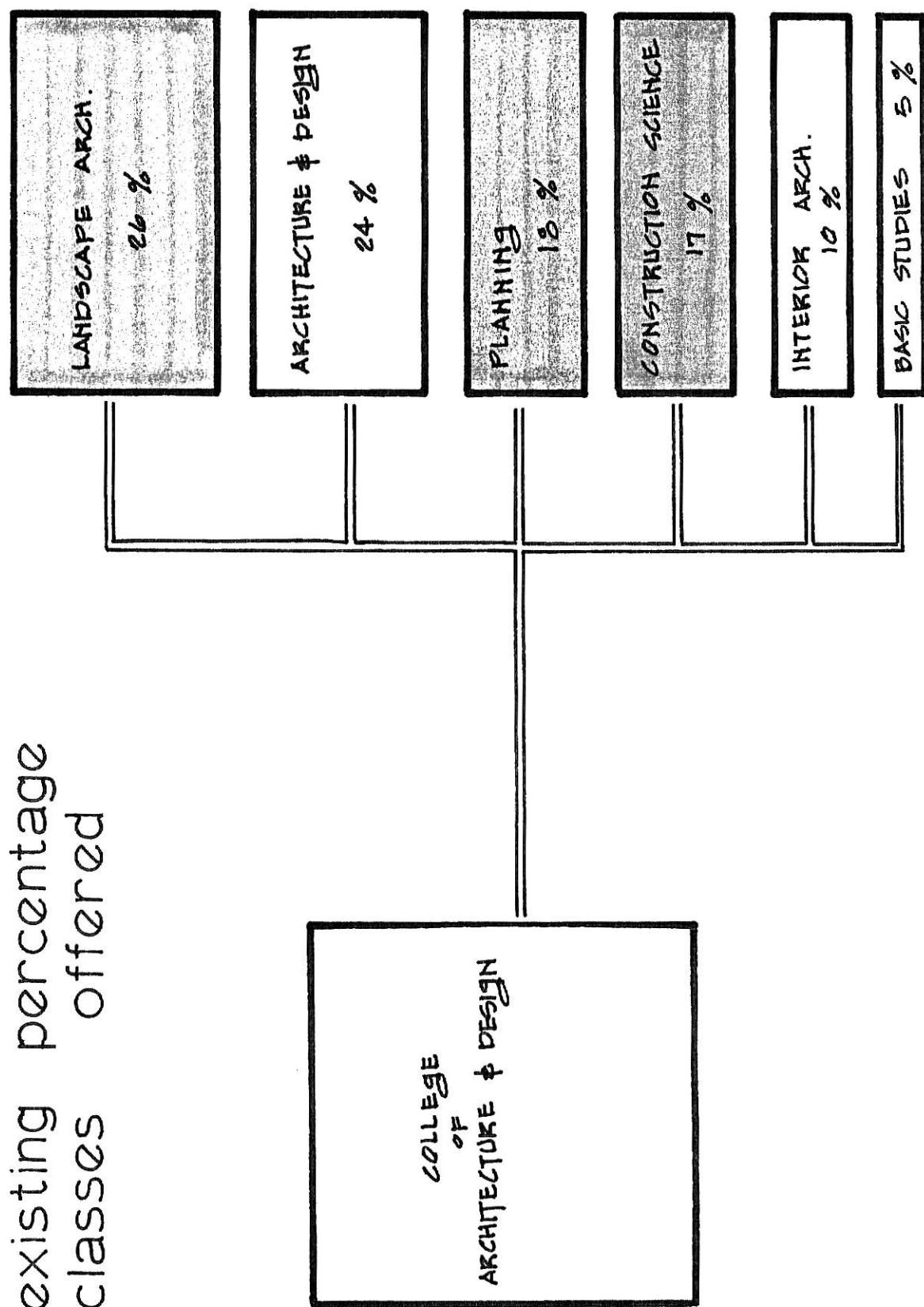
# landscape arch. existing class mix

ARCH.	CONSTR.	LANDSCAPE	INTERIOR	PLANNING
GENERAL LANDSCAPE DESIGN				
LANDSCAPE DESIGN				
LANDSCAPE ARCHITECTURAL ASSEMBLY				
LANDSCAPE ARCH. DELINEATION TECHNIQUES				
LANDSCAPE ARCH. DESIGN I				
LANDSCAPE ARCH. DESIGN II				
HISTORY & THEORY OF LANDSCAPE DESIGN				
PLANTING DESIGN I				
PLANTING DESIGN II				
LANDSCAPE CONSTRUCTION I				
LANDSCAPE CONSTRUCTION II				
PROB. IN LANDSCAPE DESIGN				
LANDSCAPE ARCHITECTURE SEMINAR				
LANDSCAPE ARCH. DESIGN III				
LANDSCAPE ARCH. DESIGN IV				
PLANTING DESIGN III				
COMMUNITY PLANNING				
PROFESSIONAL INTERNSHIP				
LANDSCAPE CONSTRUCTION III				
LANDSCAPE ARCH. DESIGN V				
LANDSCAPE ARCH. DESIGN VI				
PROFESSIONAL PRACTICE				
SENIOR PROJECT- LANDSCAPE ARCH.				
SITE ANALYSIS AND PLANNING				
DESIGN OF PARKS & RECREATION AREAS				
PROB. IN LANDSCAPE ARCHITECTURE				
PROB. IN ADVANCED LANDSCAPE ARCH.				
PROB. IN ADVANCED LANDSCAPE CONSTR.				
RESEARCH IN LANDSCAPE ARCHITECTURE				

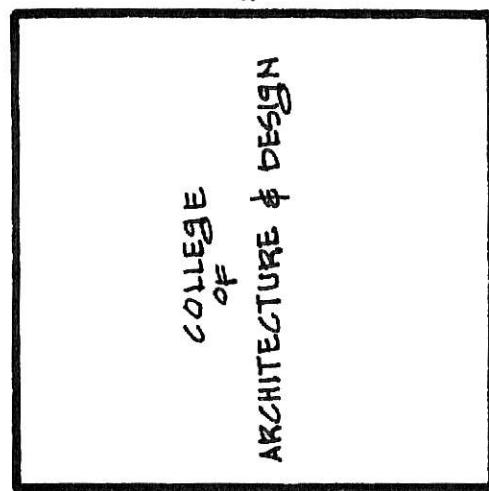
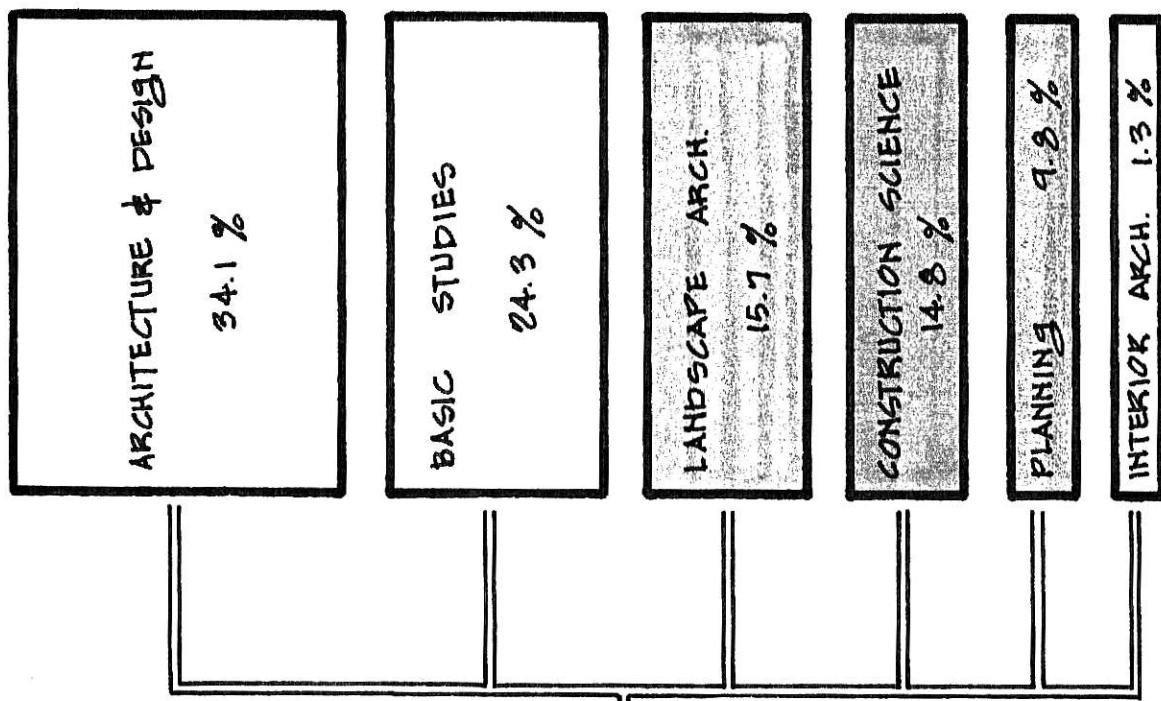


# planning existing class mix

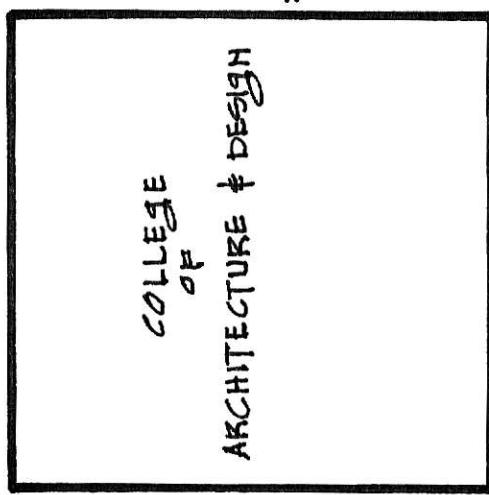
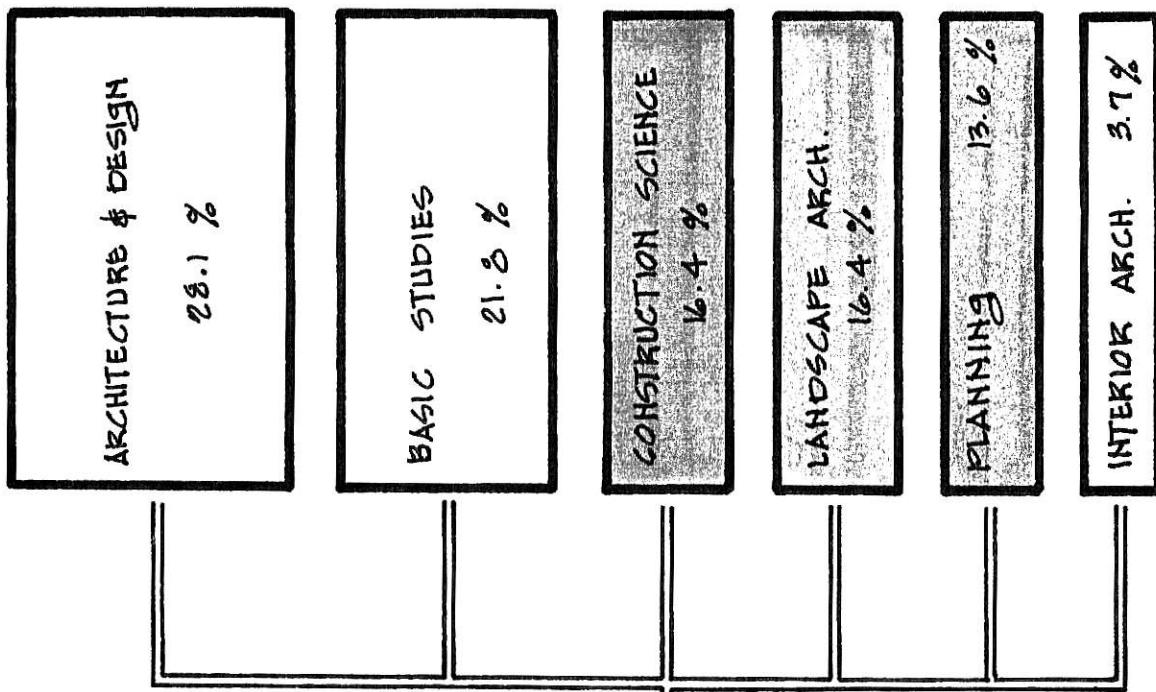
INTRODUCTION TO PLANNING					
PLANNING AND DEVELOPMENT CODES					
PLANNING GRAPHICS					
PLANNING PRINCIPLES					
PLANNING THEORY					
CITY PLANNING I					
URBAN DESIGN I					
REGIONAL PLANNING I					
TOPICS IN PLANNING					
URBAN VISUAL ANALYSIS					
INSTITUTIONAL PLANNING & DEVELOPMENT					
HOUSING AND RENEWAL					
PLANNING ADMIN. & IMPLEMENTATION					
INTERNSHIP IN PLANNING					
SEMINAR IN PLANNING					
ADVANCED PLANNING THEORY					
CITY PLANNING II					
URBAN DESIGN II					
REGIONAL PLANNING II					
RESEARCH IN PLANNING					



existing percentage  
students taught



existing classes taught



typical semester  
projected data

## TYPICAL SEMESTER - PROJECTED DATA

Plates XXXII-XXXVIII represent a typical fall semester. This is a combination of the existing program of study for each department and the projected maximum enrollment for each department. My desire to stay in the frame of reference of reality did not permit assumptions that would alter the existing curriculum. It is important to observe the projected percentages of students taught.

Plates XXXIX-XLVI represent a weekly schedule for each class offered by each department. These plates express the total number of sections taught by each department. These two factors have been a basis for analyzation in the past. These plates also express the total number of section hours per week. I feel that this should be the factor used for analyzation because it is a combination of total students, number of sections, and hours per section. It is important to make a comparison of Plates XLV and XLVI to note the change in the percentage order of departments. The following are the department curriculums:

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## ARCHITECTURE

Bachelor of Architecture  
 College of Architecture and Design  
 Kansas State University

## FIRST YEAR

First Semester				Second Semester			
Engl.	229	100	Engl. Comp. 1	3	Engl.	229	120 Engl. Comp. 11
Arch.	104	211	Fund. Design 1	2	Spch.	281	105 Oral Comm. 1
Arch.	104	207	Arch. Graph. 1	2	Arch.	104	212 Fund. Design 11
Math.	245	220	Anal Geom & Calc	4	Arch.	104	208 Arch. Graph. 11
L. A.	110	200	Landscape Des.	3	Hist.	241	101 West. Civ. 1
Ph. Ed.	261	011	Physical Ed.	0	Psych.	273	110 Gen. Psych. or
Arch.	104	110	Arch. Lecture	0	Soc.	277	211 Intro. to Soc.
			Elective	2	Ph.Ed.	261	011 Physical Ed.
				16			0
							15

## SECOND YEAR

First Semester				Second Semester			
Phys.	265	211	Gen. Phys. 1	4	Phys.	265	212 Gen. Phys. 11
Arch.	104	321	Design Anal.	4	Arch.	105	374 Hist. of Arch. 1
Phil.	259	170	Intro. to Logic	3	Arch.	104	322 Prin. Envir. Des.
			Elective	3	Ap. M.	510	205 Appl. Mech. A
							Elective
				14			3
							16

## THIRD YEAR

First Semester				Second Semester			
Arch.	105	431	Arch. Design 1	5	Arch.	105	432 Arch. Design 11
ConSci	106	434	Thermal Systems	3	ConSci	106	421 Timber Structures
Ap. M.	510	220	Str. Materials A	3	ConSci	106	420 Theory of Struc. 1
Ap. M.	510	224	Str. Matis. Lab.	1	ConSci	106	435 Lighting Systems
Arch.	105	433	Arch. Const. 1	3	Arch.	105	434 Arch. Const. 11
Arch.	105	375	Hist. Arch. 11	2	Arch.	105	378 Hist. of Arch.111
				17			2
							17

## FOURTH YEAR

First Semester				Second Semester			
Arch.	105	541	Arch. Design111	5	Arch.	105	542 Arch. Design 1V
ConSci	106	422	Theory Struc.11	4	ConSci	106	428 Theory Struc.111
ConSci	106	436	Sanitation Systems	3	ConSci	106	437 Acoustic Systems
Arch.	105	379	Hist. Arch. 1V	2	Arch.	105	413 Environ. Seminar
			Elective	3			3
				17			17

## FIFTH YEAR

First Semester				Second Semester			
Arch.	105	651	Arch. Design V	5	Arch.	105	652 Arch. Design V1
Plan.	109	215	Intro to Planning	3	Plan.	109	635 City Plan. 1 or
Arch.	105	653	Prof. Practice	2	Plan.	109	645 Urban Design 1
Arch.	105	654	Inspection Trip	2			3
			Elective	4			7
				16			15

### LANDSCAPE ARCHITECTURE

Bachelor of Landscape Architecture  
College of Architecture and Design  
Kansas State University

#### FIRST YEAR

First Semester				Second Semester			
L.A.	110 200	Landscape Des.	3	Arch.	104 208	Arch. Graphics II	2
Arch.	104 207	Arch. Graphics I	2	Arch.	104 212	Fund. Design II	2
Arch.	104 211	Fund Design I	2	Engl.	229 120	Engl. Comp. II	3
Engl.	229 100	Engl. Comp. I	3	Hist.	241 101	Hist. West. Civ.I	3
Biol.	215 210	Gen. Botany	4	Math.	245 150	Pl. Trig.	3
PhEd	261 011	Phys. Ed.	0	Soc.	277 211	Intro. Soc.	3
L.A.	110 201	L.A. Assembly	0	PhEd.	261 011	Phys. Ed.	0
		Elective	2	L.A.	110 201	L.A. Assembly	0
			<u>16</u>				<u>16</u>

#### SECOND YEAR

First Semester				Second Semester			
Geog.	235 150	Phys. Geog. I	4	Arch.	104 332	Prin. Envir. Dsgn.	4
Arch.	104 321	Design Anal.	4	Hort.	040 270	Plant Mat. II	3
C.E.	525 212	El Survey Engr.	3	Arch.	104 222	Elem. Arch Const.	3
Hort.	040 260	Plant Mat. I	3	Spch.	281 105	Oral Com. I	2
Arch.	105 221	Arch. Mat. & Des.	3	L.A.	110 204	L.A. Delin Tech.	2
L.A.	110 201	L.A. Assembly	0	L.A.	110 201	L.A. Assembly	0
						Elective	1
			<u>17</u>				<u>15</u>

#### THIRD YEAR

First Semester				Second Semester			
L.A.	110 434	Pltg. Design I	3	L.A.	110 435	Pltg. Design II	3
L.A.	110 431	Land Arch Des.I	4	L.A.	110 432	Land Arch Dsgn II	4
L.A.	110 433	Hist. Th. Land Des	3	L.A.	110 437	Land Const II	3
L.A.	110 436	Land. Const.I	3	Hort.	040 410	Land Hort	3
Soc.	277 531	Urban Soc.	3	B.A.	305 425	Bus Law I	3
L.A.	110 201	L.A. Assembly	0	L.A.	110 201	L.A. Assembly	0
			<u>16</u>				<u>16</u>

#### FOURTH YEAR

First Semester				Second Semester			
L.A.	110 543	Pltg. Des.III	3	L.A.	110 542	Land Arch DsgnIV	4
L.A.	110 541	Land Arch DesIII	4	C.E.	525 618	E. Photo Interp	3
Plan.	109 215	Intro. to Plan.	3	L.A.	110 544	Com. Planning	3
L.A.	110 547	Land. Const.III	3	Elective in Biol. Sci.(Ecology)		3	
L.A.	110 501	L.A. Seminar	1	L.A.	110 501	L.A. Seminar	1
		Elective	2	L.A.	110 546	L.A. Insp. Trip	0
				L.A.	110 545	Prof. Intern.	0
						Elective	2
			<u>16</u>				<u>16</u>

#### FIFTH YEAR

First Semester				Second Semester			
L.A.	110 651	Land Arch DesV	5	L.A.	110 652	Land Arch Des VI	5
L.A.	110 656	Des Park & Rec	3	L.A.	110 654	Sen. Proj. L.A.	3

## LANDSCAPE ARCHITECTURE (contd.)

Psych	273	465	Psych of Art	3	L.A.	110	653	Prof. Practice	2
L.A.	110	501	L.A. Seminar	1	L.A.	110	501	L.A. Seminar	1
			Elective	4				Elective	5
				<u>16</u>					<u>16</u>

## INTERIOR ARCHITECTURE

Bachelor of Architecture  
 College of Architecture and Design  
 Kansas State University

## FIRST YEAR

First Semester			Second Semester		
Engl.	229 100 Engl. Comp. I	3	Engl.	229 102 Eng. Comp. II	3
Arch.	104 211 Fund. Des. I	2	Art	209 200 Design II	2
Arch.	104 207 Arch. Graph. I	2	Arch.	104 212 Fund. Design II	2
L.A.	110 200 Lands. Design	3	Arch.	104 208 Arch. Graph. II	2
Art	209 100 Design I	2	Hist.	241 101 West. Civ. I	3
Psych.	273 110 Gen. Psych. or		Spch.	281 105 Oral Comm. I	2
Soc.	277 211 Intro. Soc.	3	Ph.Ed	261 011 Phy. Ed.	0
Ph.Ed.	261 011 Phys. Ed.	0		Elective	2
Arch.	104 110 Arch. Lecture	0			
		<u>15</u>			<u>16</u>

## SECOND YEAR

First Semester			Second Semester		
Phys.	265 211 Gen. Phys I	4	C.&T.	611 640 Int. Des. III	3
M.L.	253 131 French I	4	Econ.	225 110 Econ. I	3
Arch.	104 321 Des. Analysis	4	Arch.	104 322 Pinc. Envir. Des.	4
C.&T.	611 340 Int. Des. II	3	Phys.	265 212 Gen. Phys. II	4
		<u>15</u>		Elective	<u>3</u>
					<u>17</u>

## THIRD YEAR

First Semester			Second Semester		
Arch.	105 431 Arch. Des. I	5	Arch.	105 432 Arch. Des. II	5
Int. Ar	107 307 Des. Workshop I	3	Int Ar	107 308 Des. Workshop II	3
Arch.	105 433 Arch. Const. I	3	Arch.	105 434 Arch. Const. II	3
Arch.	105 374 Hist. Arch. I	2	Arch.	105 375 Hist. Arch. II	2
C.&T.	610 260 Textiles	3	ConSci	106 434 Thermal Systems	3
		<u>16</u>			<u>16</u>

## FOURTH YEAR

First Semester			Second Semester		
Int Ar	107 541 Int. Arch. Des I	4	Int Ar	107 542 Int Arch Des II	4
Int Ar	107 309 Finishing	2	Bus Ad	305 440 Marketing	3
ConSci	106 435 Light. Systems	2	C.&T.	611 645 Hist. Furn. Des.	3
Arch.	105 378 Hist. Arch. III	2	ConSci	106 437 Acoustic Systems	2
C.&T.	611 740 Hist Fabr Des	3	Arch.	105 379 Hist. Arch. IV	2
	Elective	<u>3</u>		Elective	<u>3</u>
		<u>16</u>			<u>17</u>

## FIFTH YEAR

First Semester			Second Semester		
Int Ar	107 651 Int Arch Des III	5	Int Ar	107 652 Int Arch Des IV	5
Arch	105 654 Inspection Trip	0	Int Ar	107 683 Cont. Furn. Des.	4
Int Ar	107 653 Cont. Des. Prac.	2		Elective	<u>7</u>
Bus Ad	305 425 Bus. Law I	3			
	Elective	<u>6</u>			
		<u>16</u>			<u>16</u>

## ARCHITECTURAL STRUCTURES

Bachelor of Architecture  
 College of Architecture and Design  
 Kansas State University

## FIRST YEAR

First Semester				Second Semester			
Engl	229	100	Engl. Comp. I	3	Engl	229	120 Engl. Comp. II
Chem	221	210	Chemistry I	5	Chem	221	230 Chemistry II
Math	245	220	Anal Geo & Calc I	4	Math	245	221 Anal Geo & Calc II
Arch	104	207	Arch Graph I	2	Arch	104	208 Arch Graph II
Arch	104	211	Fund Design I	2	Arch	104	212 Fund Design II
PhEd	261	011	Phys. Ed.	0	ConSci	106	210 Intro Const Prog
Arch	104	110	Arch Lecture	0	PhEd	261	011 Phys. Ed.
				16			0
							16

## SECOND YEAR

First Semester				Second Semester			
Phys	265	310	Engr Phys I	5	Phys	265	311 Engr Phys II
Math	245	222	Anal Geo&CalcIII	4	Math	245	240 Series & Diff Eq
C.E.	525	212	El Survey Engr	3	Ap.M.	510	305 Statics
Arch	104	321	Des. Analysis	4	Arch	104	322 Prin Envir Design
				16			4
							16

## THIRD YEAR

First Semester				Second Semester			
Ap.M.	510	415	Mech of Mat.	3	C.E.	525	331 Stat Deter Str
Ap.M.	510	418	Mech Mat'l Lab	1	ConSci	106	421 Timber Str.
Arch	105	433	Arch Constr I	3	Arch	105	434 Arch Const II
Ap.M.	510	412	Dynamics	3	Arch	105	432 Arch Design II
Arch	105	431	Arch Des. I	5	Econ	225	110 Econ I
Spch	281	105	Oral Comm I	3			
				17			3
							16

## FOURTH YEAR

First Semester				Second Semester			
C.E.	525	332	Stat Indet Str	3	ConSci	106	422 Thry Str II
C.E.	525	422	Soil Mech I	3	ConSci	106	434 Thermal Systems
ConSci	106	335	San. Systems	3	ConSci	106	437 Acoustic Systems
Arch	105	301	Apprec. Arch	3	M.E.	560	413 Thermo I
			Elective	4	Humanities		Elective
				16			3
							15

## FIFTH YEAR

First Semester				Second Semester			
ConSci	106	428	Thry Str III	4	ConSci	106	680 Thry Str IV
ConSci	106	435	Light. Syst.	2	ConSci	106	410 Senior Proj. in
Arch	105	653	Prof Practice	2			Arch Str
C.E.	525	426	Foundations	3	E.E.	530	403 El Cir & Cont
Ap. M.	510	471	Fluid Mech	3	Humanities		Elective
			Elective	3			5
				17			15

## BUILDING CONSTRUCTION

Bachelor of Science in Building Construction  
College of Architecture and Design  
Kansas State University

## FIRST YEAR

First Semester				Second Semester					
Engl.	229	100	Engl. Comp. I	3	Engl.	229	120	Engl. Comp. II	3
Math.	245	220	Anal Geo&Cal I	4	C.E.	525	212	El. Survey Engr.	3
Spch.	281	105	Oral Comm. I	2	Arch.	104	208	Arch. Graph. II	2
Arch.	104	207	Arch. Graph I	2	Phys.	265	211	Gen. Phys. I	4
Psy.	273	110	Gen. Psych.	3	ConSci.	106	210	Intro to Constr.	
or							Programming	2	
Soc.	277	211	Intro. Soc.		PhEd.	261	011	Physical Education	0
Arch.	104	110	Arch. Lecture	0	ConSci.	106	116	Constr. Sem.	0
PhEd.	261	011	Phys. Ed.	0			Elective	2	
				14				16	

**SECOND YEAR**

First Semester				Second Semester			
Phys.	265	212	Gen. Phys. II	4	ConSci	106	313 Constr. Drawing
Arch.	105	433	Arch. Const. I	3	Ap. M.	510	205 Appl. Mech. A
Geol.	234	100	Phy. Geology	4	Arch.	105	301 Apprec. Arch.
ConSci	106	250	Site Constr.	3	Bus Ad	305	275 Fund. of Acct.
Econ.	225	110	Econ. I	3	ConSci	106	116 Const. Sem.
ConSci	106	116	Constr. Sem.	0			Elective

**THIRD YEAR**

<u>First Semester</u>		<u>Second Semester</u>	
Ap. M. 510 220 Str. Mat. A	3	ConSci 106 421 Timber Str.	2
Ap. M. 510 224 Str. Matis A Lab	1	ConSci 106 420 Thry. Str. I	3
ConSci 106 440 Constr. Prob. I	3	ConSci 106 435 Lighting Syst.	2
ConSci 106 436 San. Syst.	3	ConSci 106 437 Acoustic Syst.	2
Bus Ad 305 425 Business Law I	3	Arch. 105 653 Prof. Practice	2
ConSci 106 116 Constr. Sem.	0	Stat. 285 320 El. Statistics	3
Elective	3	ConSci 106 116 Constr. Sem.	0
		Elective	3

**FOURTH YEAR**

First Semester				Second Semester			
ConSci 106	422	Thry. Str. II	4	IndEng	550	401	Indust. Man I
ConSci 106	441	Constr. Estim.	3	ConSci	106	428	Thry. Str. III
ConSci 106	442	Constr. Man. I	3	Bus Ad	305	630	Industrial Rel.
ConSci 106	434	Thermal Syst.	3	ConSci	106	443	Constr. Man. II
ConSci 106	116	Constr. Sem.	0	ConSci	106	116	Constr. Sem.
Elective				Elective			
<u>17</u>				<u>17</u>			



# architecture projected size

ARCH.	COSTS	LANDSCAPE	INTERIOR	PLANNING	TOTAL
ARCHITECTURAL MATERIALS & DESIGN		25			25
APPRECIATION OF ARCHITECTURE	15				15
HISTORY OF ARCHITECTURE II	60		15		75
HISTORY OF ARCHITECTURE IV	50		10		60
ARCHITECTURAL DESIGN I	60	15	15		90
ARCHITECTURAL CONSTRUCTION I	60	35	15		110
MOSAIC					
ARCHITECTURAL DESIGN III	50				50
ARCHITECTURAL DESIGN V	40				40
PROFESSIONAL PRACTICE	40	10			50
THEORY OF DESIGN	15				15
ADV. ARCHITECTURAL DESIGN	15				15
TOTAL					
545					





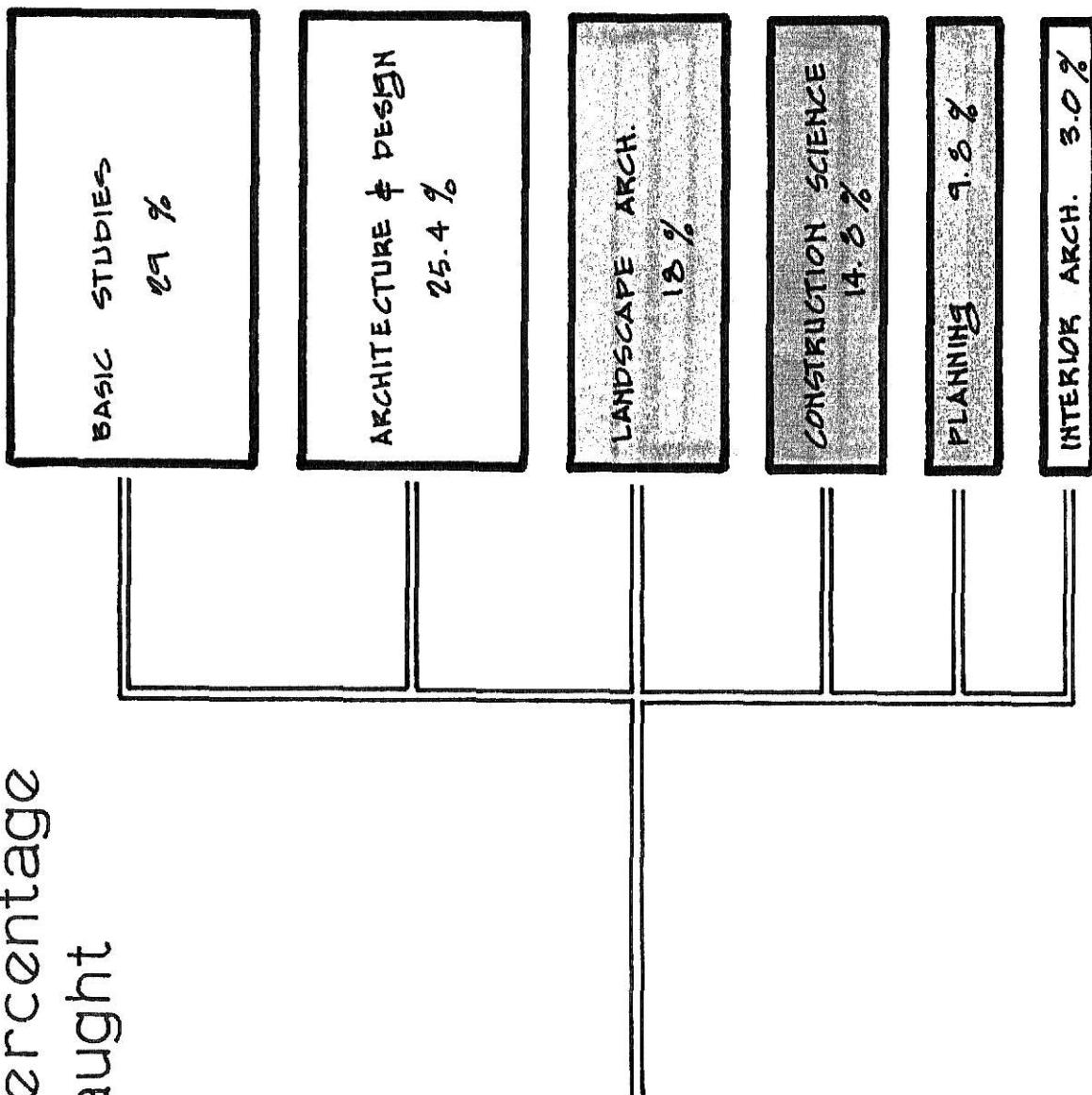
planning  
projected size

	ARCH.	CONSTR.	LANDSCAPE	INTERIOR	PLANNING	TOTAL
INTRODUCTION TO PLANNING	40		15			55
PLANNING AND DEVELOPMENT CODES					12	12
PLANNING GRAPHICS					12	12
PLANNING PRINCIPLES					12	12
PLANNING THEORY					12	12
CITY PLANNING I					12	12
URBAN DESIGN I					12	12
TOPICS IN PLANNING					12	12
PLANNING ADMIN. & IMPLEMENTATION					12	12
INTERNSHIP IN PLANNING					12	12
SEMINAR IN PLANNING					12	12
CITY PLANNING II					12	12
URBAN DESIGN II					12	12
RESEARCH IN PLANNING					12	12
TOTAL						
211						



projected percentage  
students taught

COLLEGE  
OF  
ARCHITECTURE & DESIGN



basic studies  
projected size

	TOTAL STUDENTS	No. of SECTIONS	STUDENTS/SECTION	DAYS/WEEK/SECTION	HOURS/DAY/SECTION	HOURS/WEEK/SECTION	SECTION HOURS/WEEK
ARCHITECTURAL GRAPHICS I	245	7	35	2	6	42	
FUNDAMENTALS OF DESIGN I	225	9	25	3	2	6	54
DESIGN ANALYSIS	150	5	30	3	3	7	45
							141
<b>TOTAL</b>	<b>620</b>	<b>21</b>					

# architecture projected size

		TOTAL STUDENTS	No. of SECTIONS	STUDENTS/SECTION	DAYS/WEEK/SECTION	W HOURS/DAY/SECTION	HOURS/WEEK/SECTION	SECTION HOURS/WEEK	6
ARCHITECTURAL MATERIALS & DESIGN	25	1	25	2	2	3	3	3	3
APPRECIATION OF ARCHITECTURE	15	1	15	3	-	-	-	3	3
HISTORY OF ARCHITECTURE II	15	1	15	3	-	-	-	3	3
HISTORY OF ARCHITECTURE IV	60	1	60	3	-	-	-	3	3
ARCHITECTURAL DESIGN I	90	6	15	2	-	-	-	2	12
ARCHITECTURAL CONSTRUCTION I	110	5	22	1	-	-	-	1	5
ARCHITECTURAL DESIGN III	50	3	16.7	2	-	-	-	2	6
ARCHITECTURAL DESIGN II	40	3	13.3	2	-	-	-	2	6
PROFESSIONAL PRACTICE	50	1	50	1	2	2	2	2	2
THEORY OF DESIGN	15	1	15	3	1	3	3	3	3
ADV. ARCHITECTURAL DESIGN	15	1	15	0	0	0	0	0	0
NOTE : * 15 CONTACT HOURS/WEEK/SECTION		□ 6 CONTACT HOURS/WEEK/SECTION		150		40			
TOTAL		545	24					269	

landscape arch.  
projected size

TOTAL STUDENTS		No. of SECTIONS	STUDENTS/SECTION	DAYS/WEEK/SECTION	HOURS/DAY/SECTION	HOURS/WEEK/SECTION	SECTION HOURS/WEEK	SECTON HOURS/WEER
*	Landscape Design	205	1	205	3	3	3	3
*	Landscape Arch. Design I	20	2	10	2	1	2	4
*	HISTORY & THEORY OF LANDSCAPE DESIGN	20	1	20	3	1	3	3
*	PLANTING DESIGN II	20	2	10	1	—	—	2
*	LANDSCAPE CONSTRUCTION I	20	1	20	1	—	—	1
*	LANDSCAPE ARCHITECTURE SEMINAR	25	1	25	1	—	—	1
*	LANDSCAPE ARCH. DESIGN III	15	1	15	2	—	2	2
*	PLANTING DESIGN III	15	1	15	1	—	—	1
*	LANDSCAPE CONSTRUCTION III	15	1	15	1	—	—	1
*	LANDSCAPE ARCH. DESIGN IV	10	1	10	2	—	2	2
*	DESIGN OF PARKS & RECREATION AREA	10	1	10	1	1	1	1
*	RESEARCH IN LANDSCAPE ARCH.	10	1	10	0	0	0	0
NOTE : *		12 CONTACT HOURS/WEEK/ SECTION		3 CONTACT HOURS/WEEK/ SECTION		48		40
TOTAL		385	14					109

construction SCI.  
projected size

SITE CONSTRUCTION	TOTAL STUDENTS	NO. OF SECTIONS	STUDENTS/SECTION	DAY'S/WEEK/SECTION	HOURS/DAY/SECTION	HOURS/WEEK/SECTION	SECTION HOURS/WEEK	%
THEORY OF STRUCTURES II	65	2	32.5	3	2	6	12	
THEORY OF STRUCTURES III	10	1	10	3	2	6	6	
THERMAL SYSTEMS	15	2	31.5	3	1	3	6	
LIGHTING SYSTEMS	20	1	20	2	1	2	2	
SANITATION SYSTEMS	30	2	40	3	1	3	6	
CONSTRUCTION PROBLEMS	15	1	15	2	3	6	6	
CONSTRUCTION ESTIMATING	15	1	15	3	3	9	9	
CONSTRUCTION MANAGEMENT I	15	1	15	3	1	3	3	
STRUCTURAL SYSTEMS DESIGN	10	1	10	0	0	0	0	
<b>TOTAL</b>	<b>315</b>	<b>13</b>						<b>53</b>

# planning projected size

	TOTAL STUDENTS	NO. OF SECTIONS	STUDENTS/SECTION	DAYS/WEEK/SECTION	HOURS/DAY/SECTION	SECTIONS/HOURS/WEEK
INTRODUCTION TO PLANNING	55	5	11	-	-	5
PLANNING AND DEVELOPMENT COPIES	12	-	12	2	2	4
PLANNING GRAPHICS	12	-	12	2	2	4
PLANNING PRINCIPLES	12	-	12	3	1	3
PLANNING THEORY	12	-	12	2	2	4
CITY PLANNING I	12	-	12	3	2	6
URBAN DESIGN I	12	-	12	3	2	6
TOPICS IN PLANNING	12	-	12	0	0	0
PLANNING ADMIN. & IMPLEMENTATION	12	-	12	2	2	4
INTERNSHIP IN PLANNING	12	-	12	0	0	0
SEMINAR IN PLANNING	12	-	12	1	3	3
CITY PLANNING II	12	-	12	2	3	6
URBAN DESIGN II	12	-	12	2	3	6
RESEARCH IN PLANNING	12	1	12	0	0	0
	211	16				52
						63

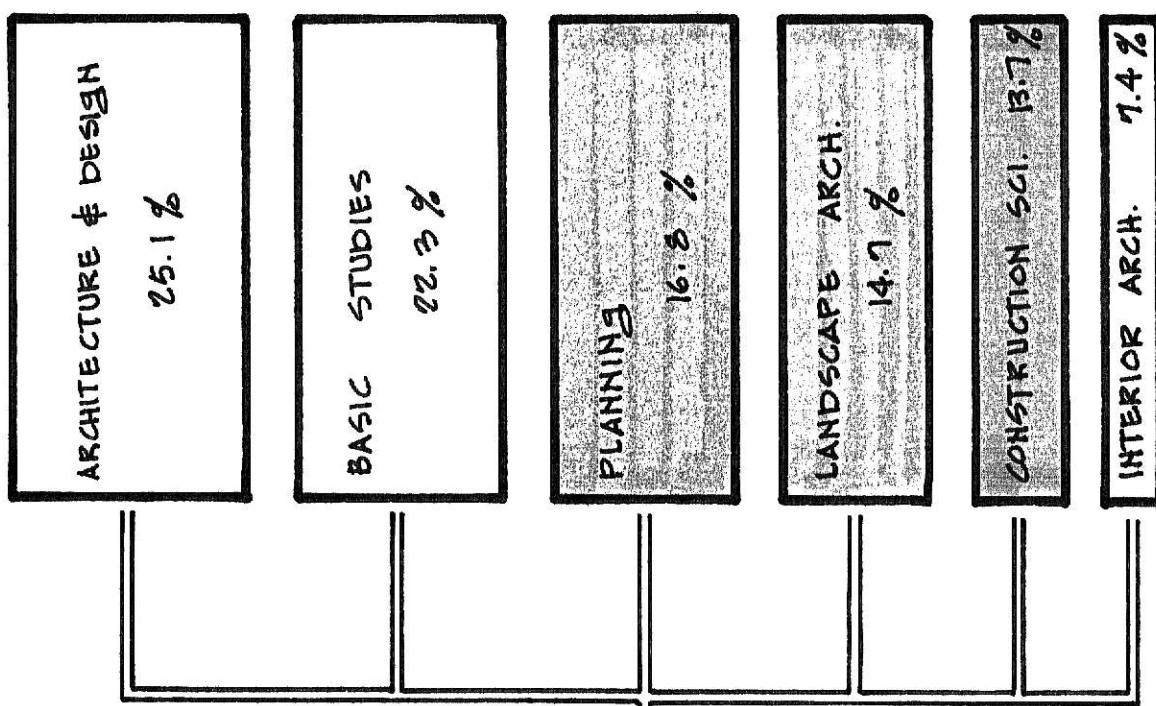
interior arch.  
projected  
SIZE

	TOTAL STUDENTS	NO OF SECTIONS	STUDENTS/SECTION	WEEKS/SECTION	WEEKS/DAY/SECTION	DAYS/WEEK/SECTION	HOURS/WEEK/SECTION	SECTION HOURS/WEEK
DESIGN WORKSHOP I	15	2	7	10	10	3	2	6
FINISHING	10	1	10	10	2	1	2	2
INTERIOR ARCHITECTURAL DESIGN I	10	1	10	10	2	1	2	2
INTERIOR ARCHITECTURAL DESIGN III	5	1	5	5	2	1	2	2
CONTRACT DESIGN PRACTICE	5	1	5	5	1	2	2	2
ADV. INTERIOR ARCH. DESIGN	15	1	15	15	0	0	0	0
								30
								60
TOTAL	60	7						

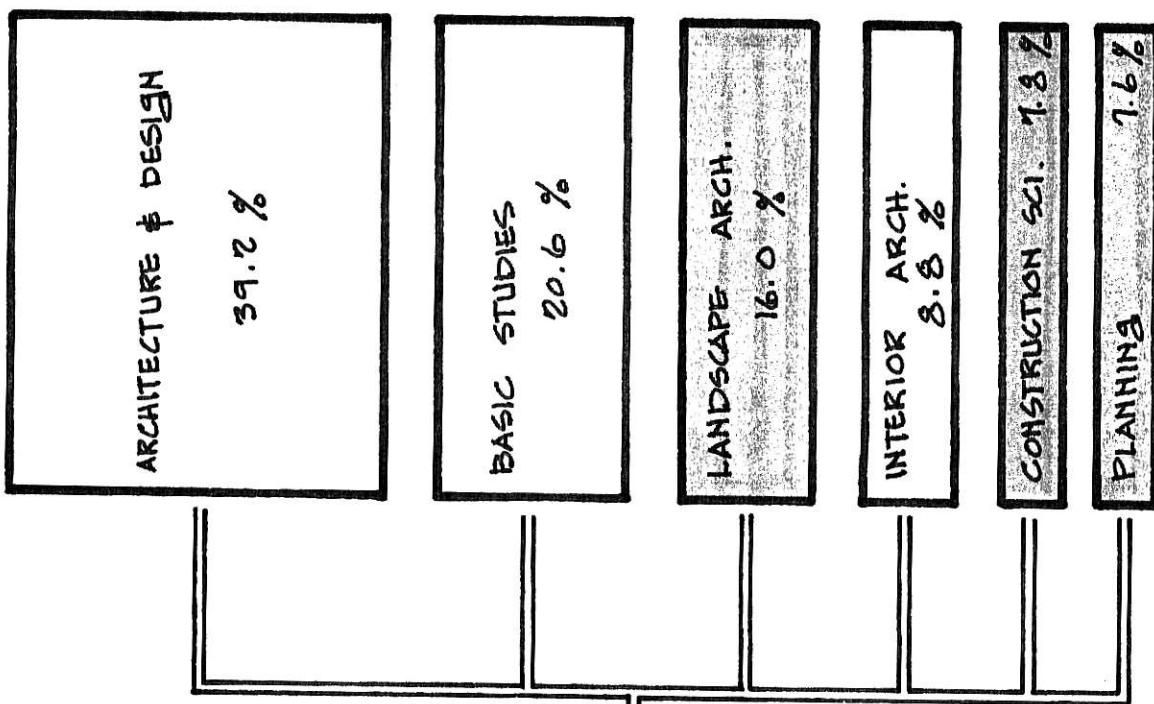
\* 15 CONTACT HOURS/WEEK/SECTION

projected percentage  
classes taught

COLLEGE  
OF  
ARCHITECTURE & DESIGN



projected percentage  
contact hours / week



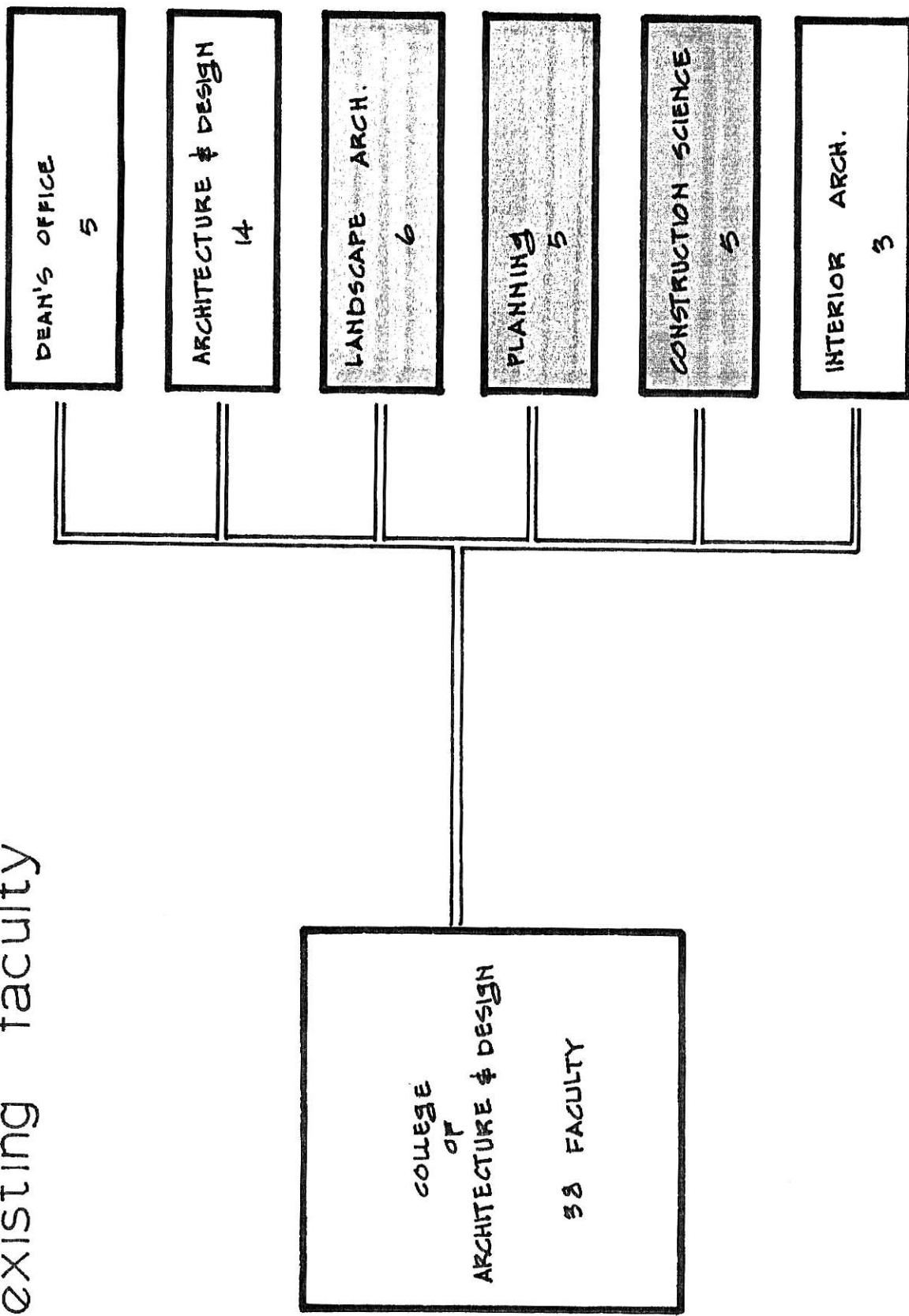
COLLEGE  
OF  
ARCHITECTURE & DESIGN

faculty  
existing data

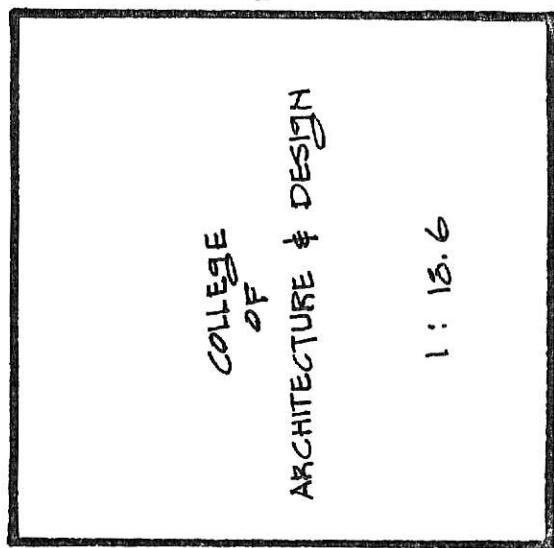
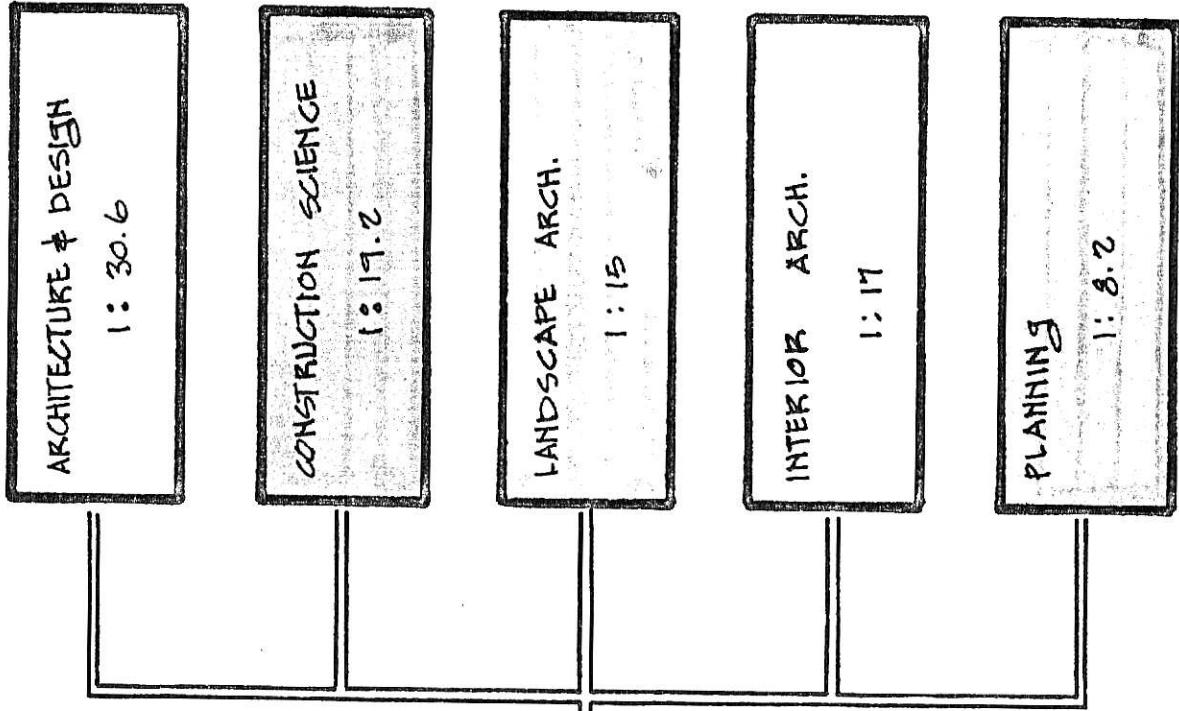
## FACULTY - EXISTING DATA

Plates XLVII-XLIX represent the basic existing faculty structure. The existing situation is very complex. For example, the head of Basic Studies is listed under the Dean's office, a Planning faculty member instructs basic studies, and an architectural professor is instructing half time in Interior Architecture. I did not try to sort out this faculty mix.

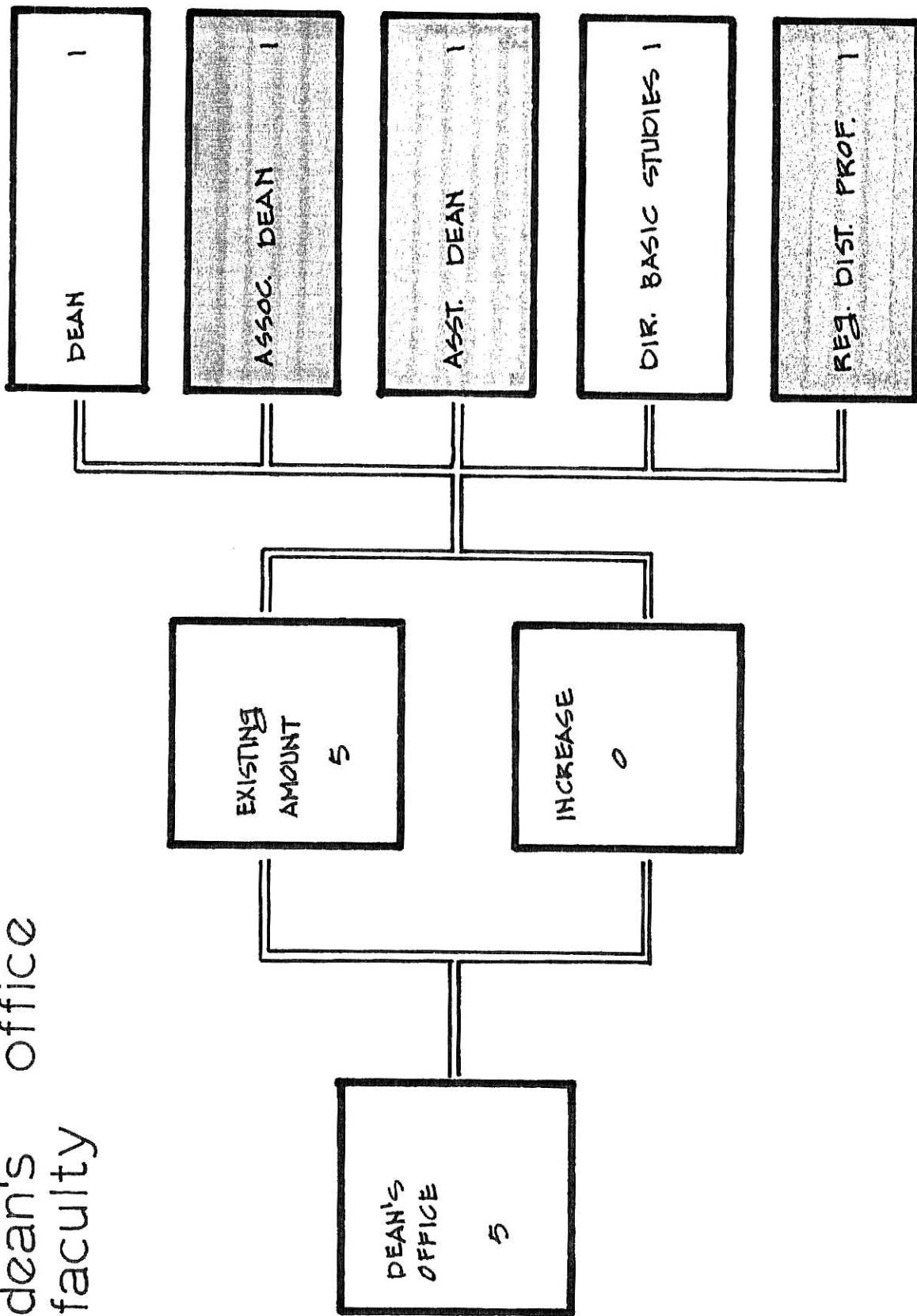
existing faculty



existing faculty  
ratio



dean's office  
faculty

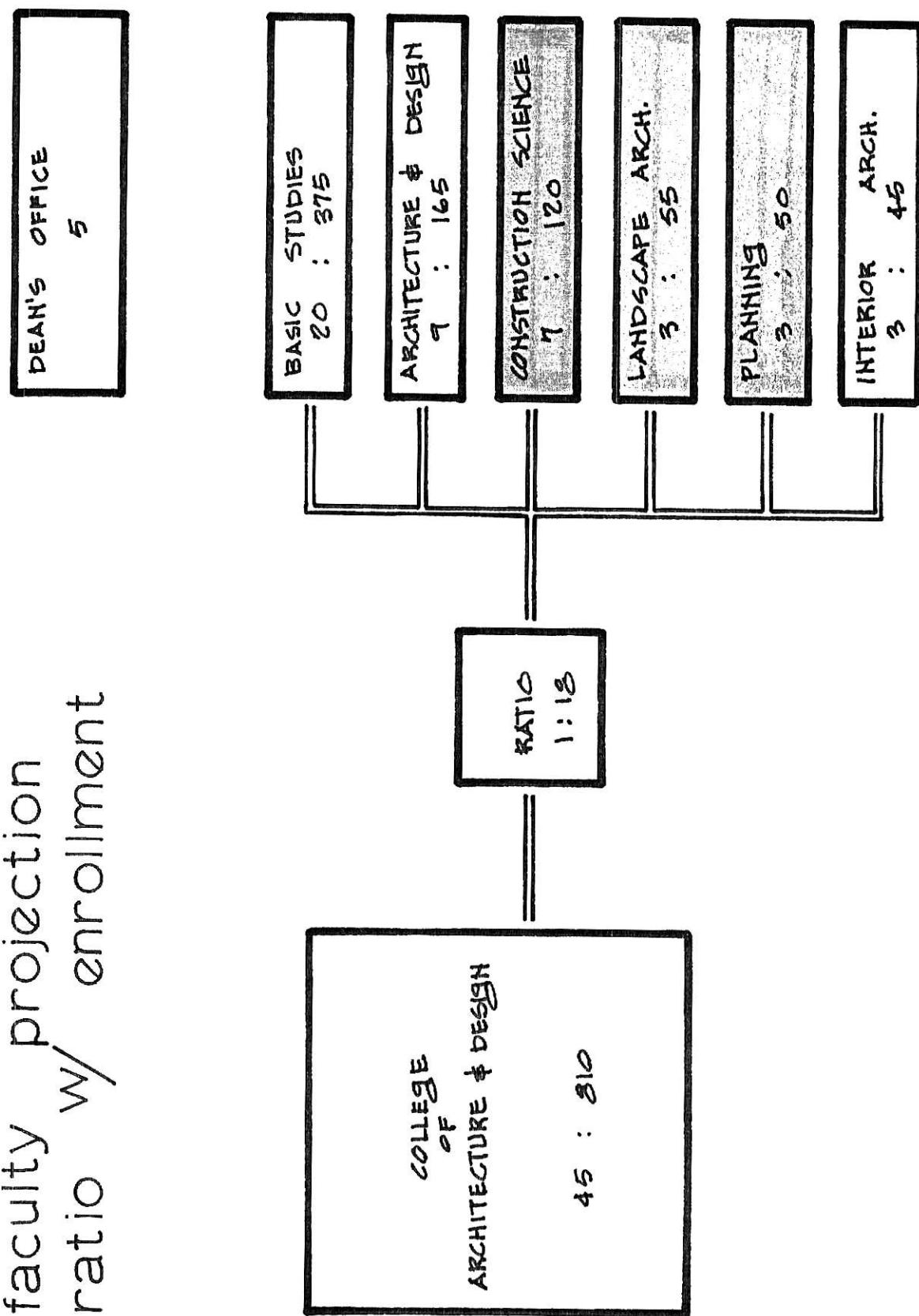


faculty  
projected data

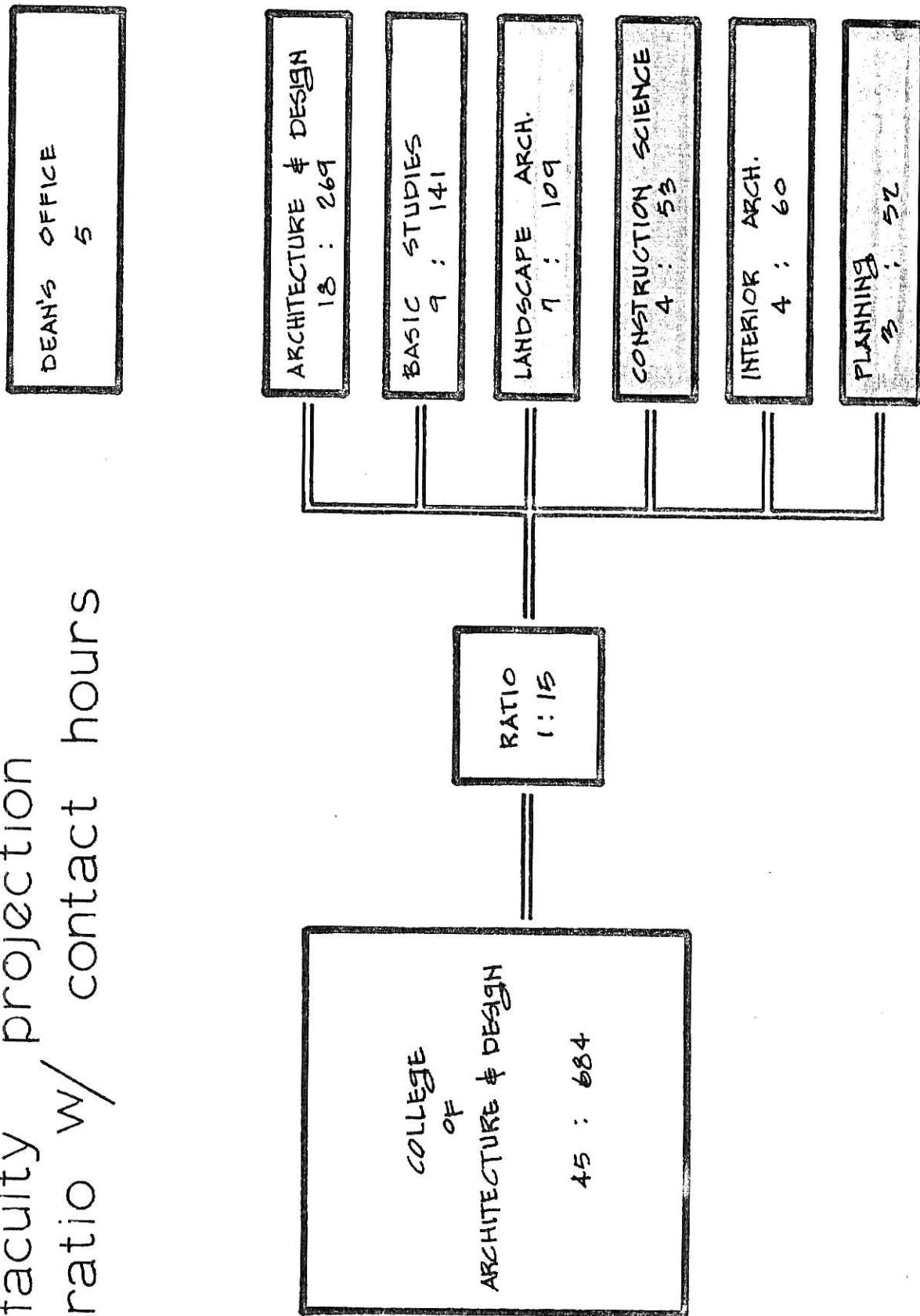
#### FACULTY - PROJECTED DATA

Plates L-LX represent the projection of faculty numbers. There have been many methods used to project faculty numbers, but they did not seem valid due to the peculiarities of a College of Architecture. Plate L represents a faculty per student ratio method. The recommended ratio from the Ball State University research is 1:12 but I used 1:18 to be more within reality.<sup>2</sup> This method only represents declared majors and no characteristics of the departments. Plate LI represents a faculty per contact hour method. This method did not seem valid either because it gave no consideration to the character of the contact hour. My research led to an assumption that each kind of contact hour could be placed on a value scale. Plate LII shows a value factor in units for the different contact hours. Plates LIII-LVIII represent a total unit factor for each department. Plate LIX represents the number of units which equals one full time equivalent faculty member. Plate LX is my projected minimum faculty based on the existing curriculum and projected maximum enrollment.

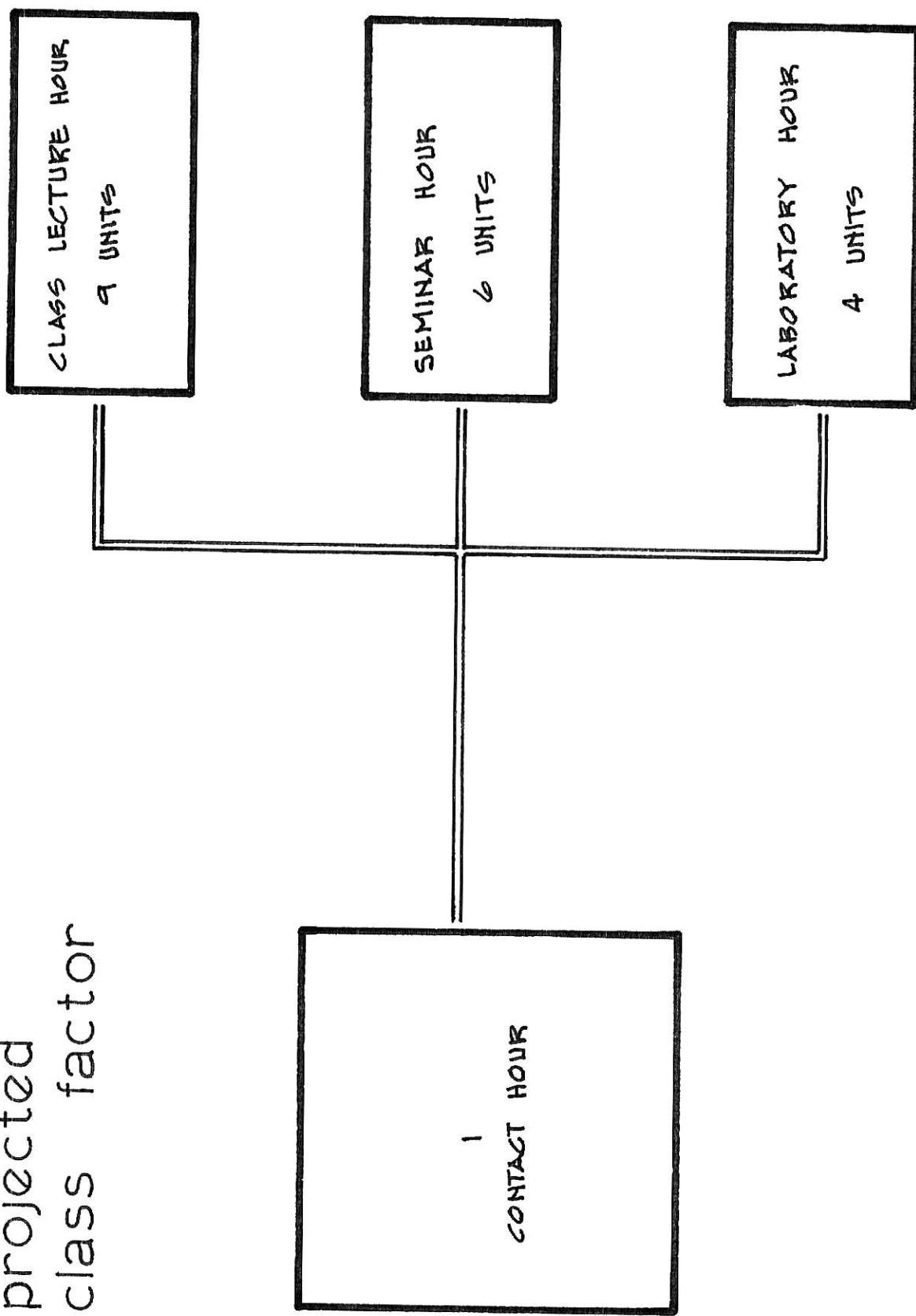
faculty projection  
ratio w/ enrollment

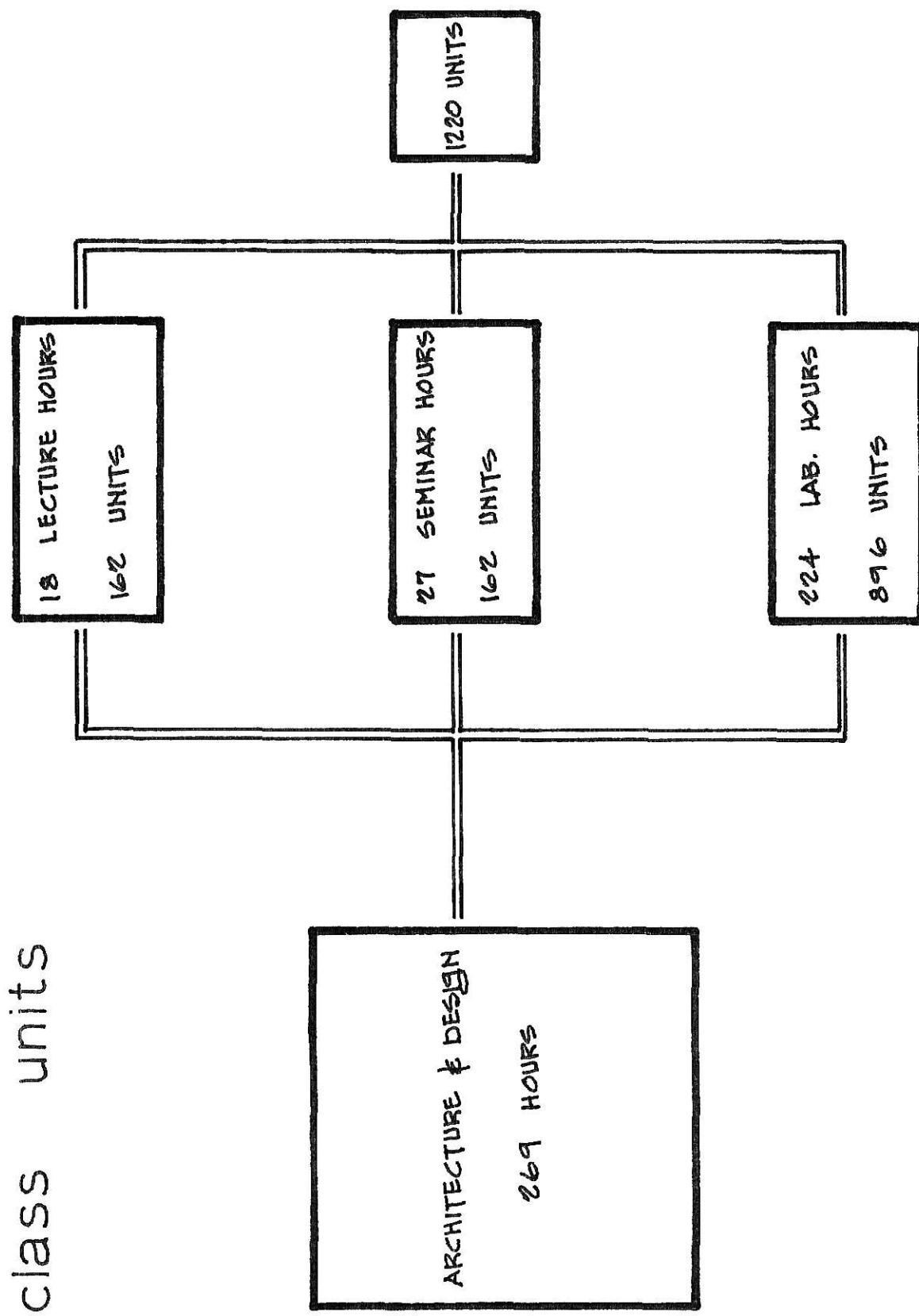


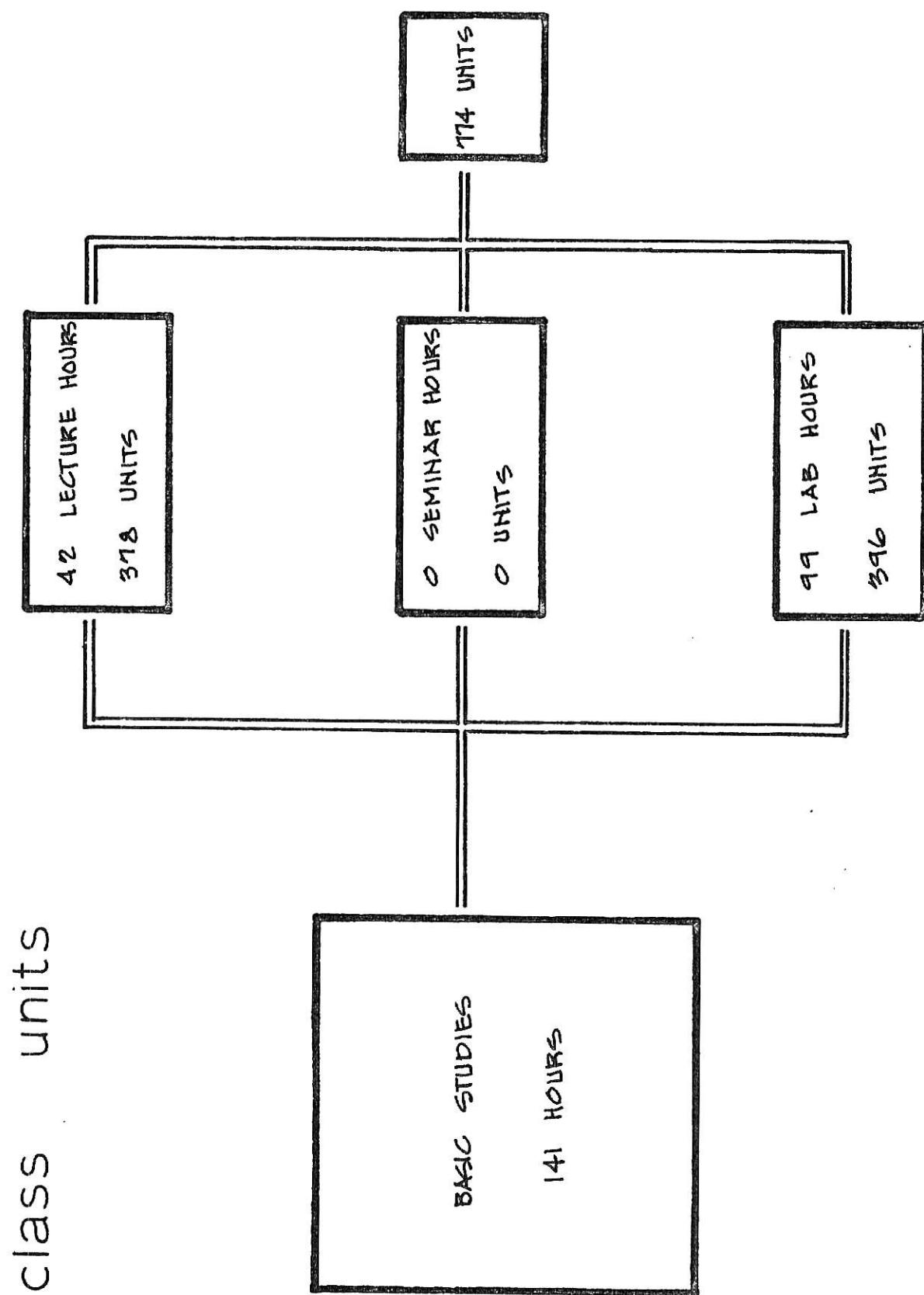
faculty projection  
ratio w/ contact hours

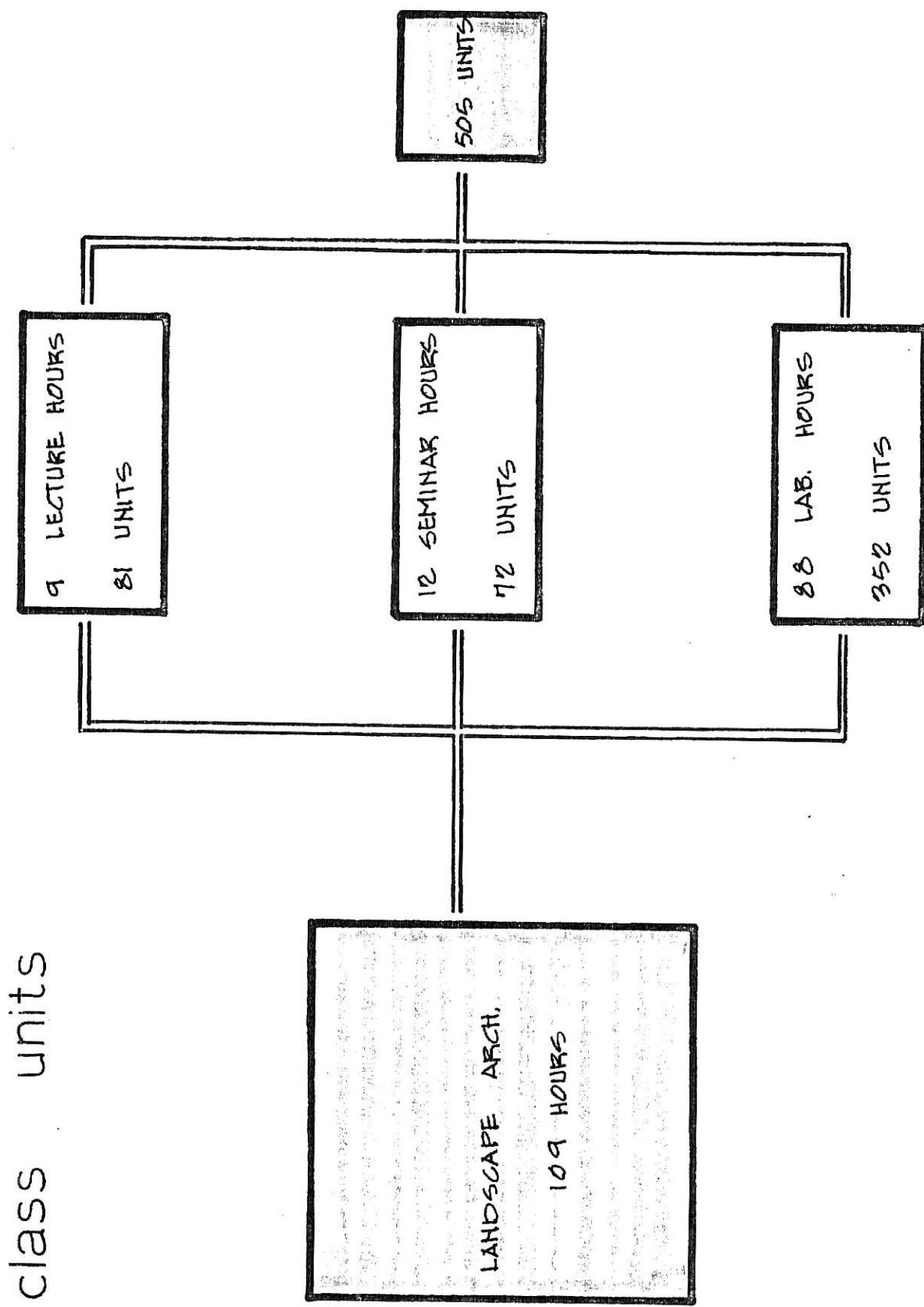


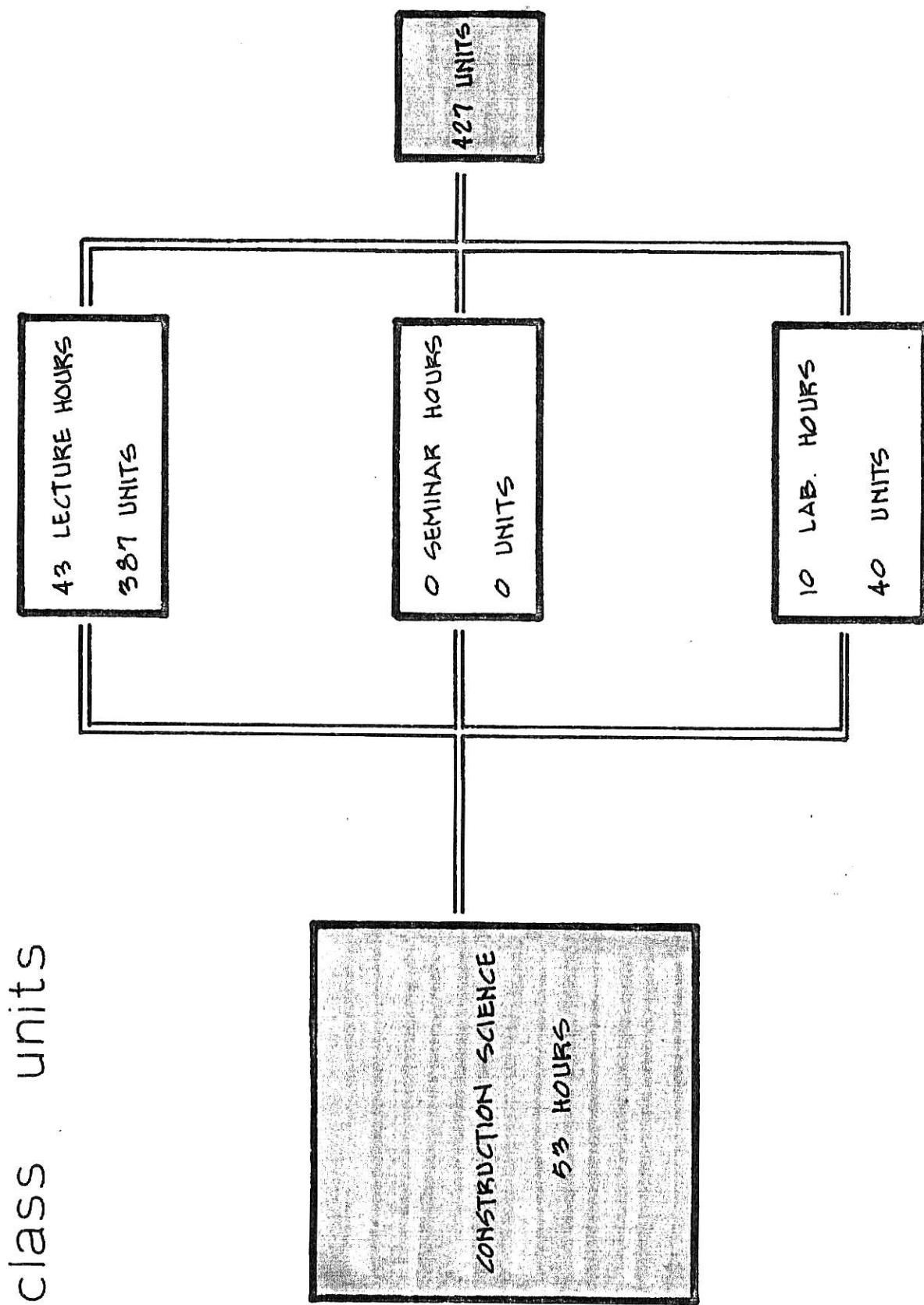
projected  
class factor

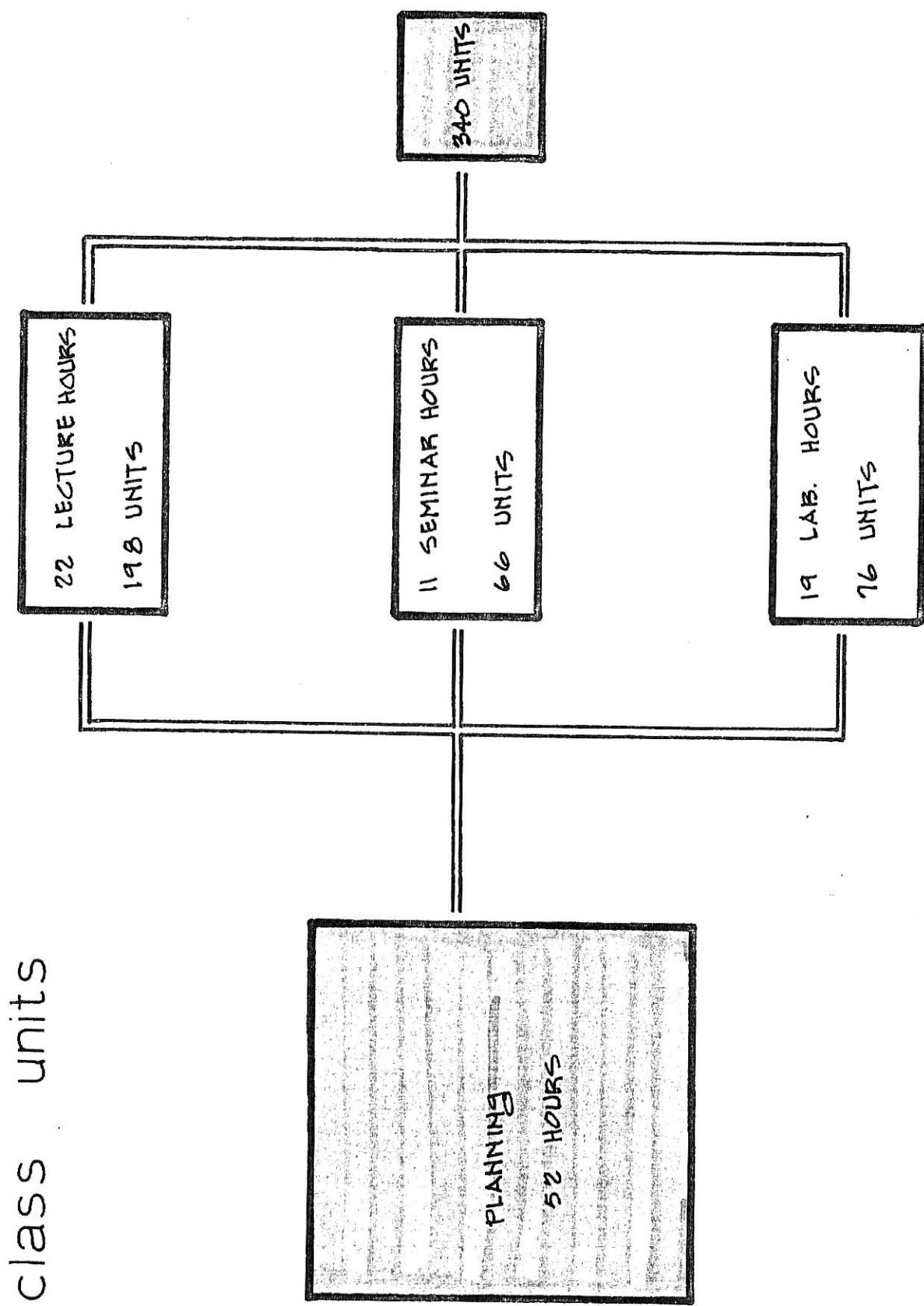


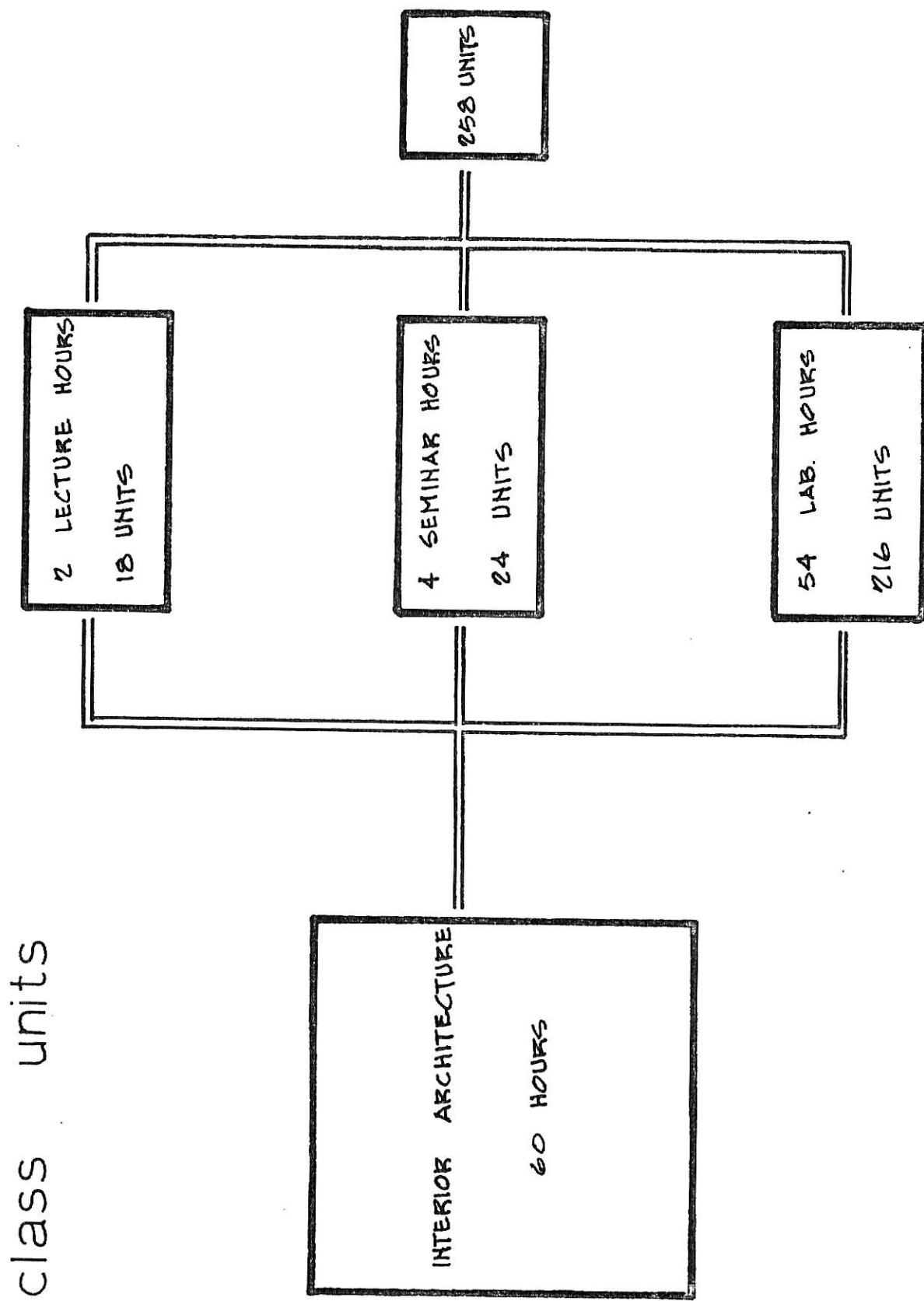




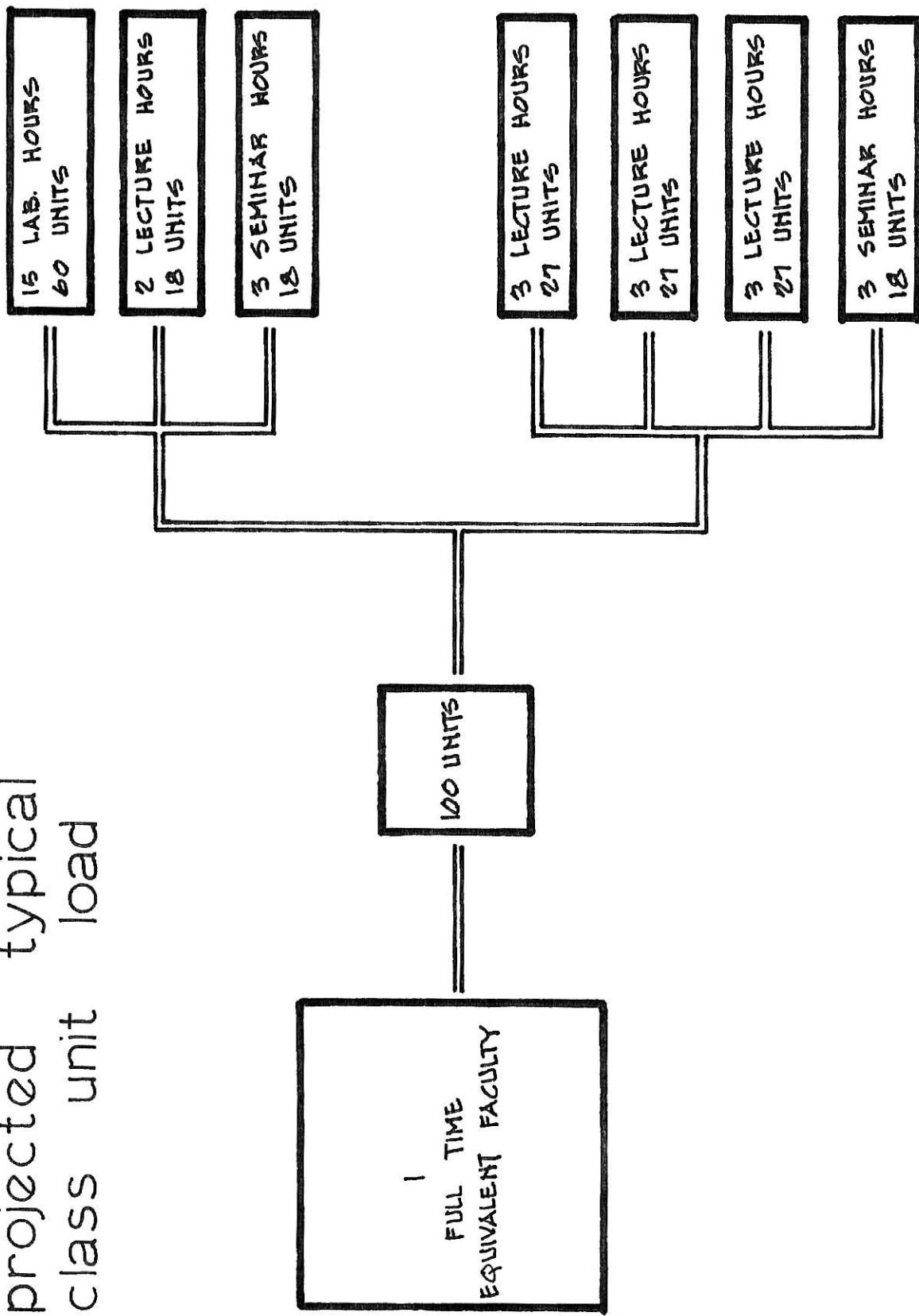




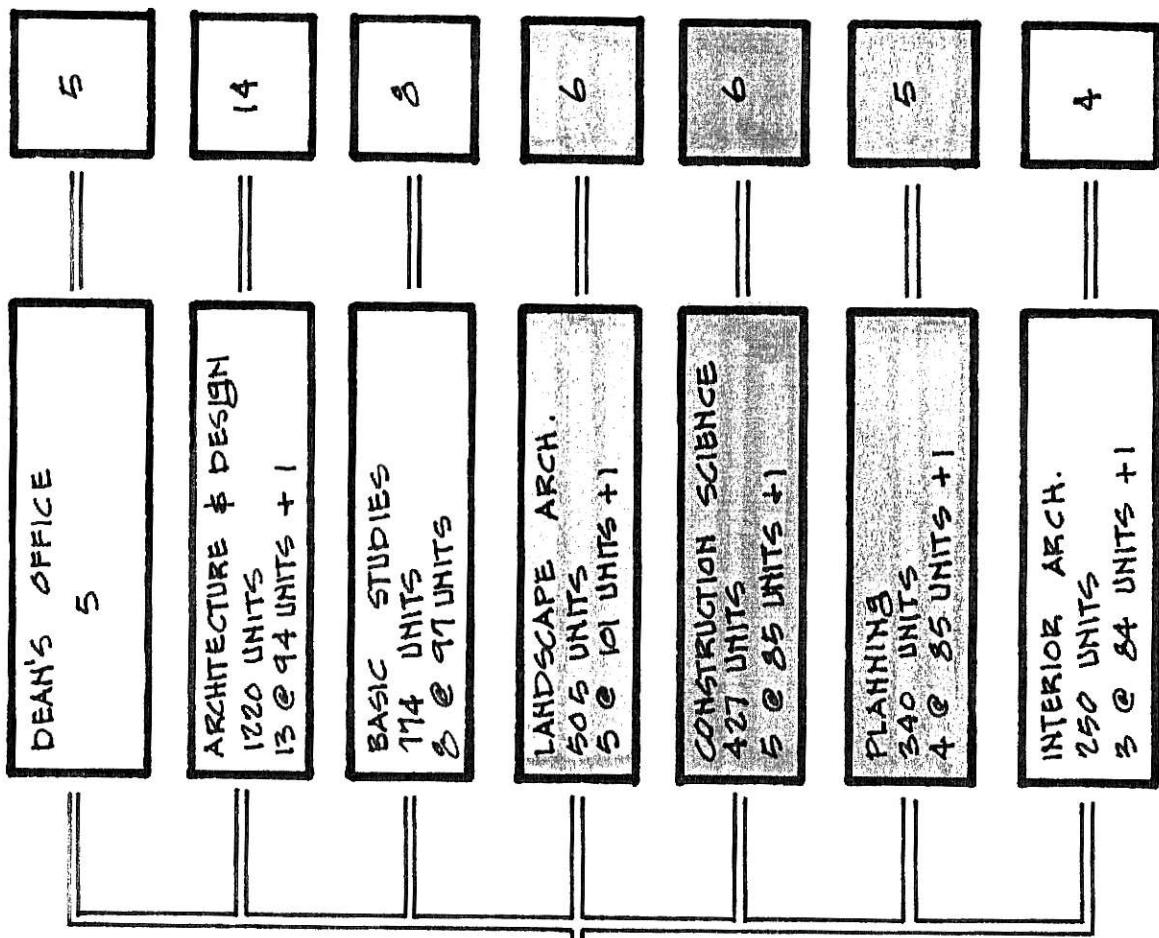




projected typical  
class unit load



projected  
minimum faculty



existing area

## EXISTING AREA

Plates LXI-LXXV represent the existing area data. The multiple function of some areas possessed by the College made it difficult to correlate area and department. I developed Plate LXI by examining which department had priority over what area. The student per square foot ratio is important for comparison between the existing ratio and the recommended ratio developed at Ball State University for the functions of a College of Architecture and Design.<sup>3</sup>

Plates LXIII-LXX represent the division of area for each department. Plates LXXI-LXXV represent the location of area possessed by the College of Architecture and Design within Seaton Hall and the location of each department. Note the hatch marked areas on the floor plans express the area used but not possessed by the College of Architecture and Design. The College of Architecture and Design will be located in the following rooms:

College of Architecture and DesignGeneral College

<u>Room Number</u>	<u>Area per Square Foot</u>
212	263
212A	116
212B	196
212C	294
253	112
253A	213
255	201
321A	233
323	3019
323	372
303A	740
303B	122
303C	120
303D	95
303F	789
320A	201
320B	212
320C	210
	<u>7508 Total</u>

## Department of Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
4	1811
4A	1130
4B	340
4C	989
4D	1073
207	192
208	244
210	291
211	237
211A	330
211B	190
214	251
215	244
216	274
217	161
260A	788
260B	207
260C	768

Department of Architecture (contd.)

<u>Room Number</u>	<u>Area per Square Foot</u>
218	1230
219	1001
301	1916
303	924
305	1074
317	736
	16,401 Total

Department of Landscape Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
306	748
307	1221
308	1001
308A	84
309	194
310	234
311	240
312	242
313	233
314	233
	4430 Total

Basic Studies

<u>Room Number</u>	<u>Area per Square Foot</u>
206	2268
260	1988
	4256 Total

Department of Interior Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
113	408
114	835
114A	408
118	720
209	175
257B	1620
	4166 Total

Department of Regional & Community Planning

<u>Room Number</u>	<u>Area per Square Foot</u>
257	1140
302	159
302A	244
302B	248
302C	169
318	229
320	933
	<u>3122 Total</u>

Department of Construction Science

<u>Room Number</u>	<u>Area per Square Foot</u>
213	110
213A	162
213B	100
213C	115
213D	233
251	892
252	425
	<u>2037 Total</u>

Area Used Not Possessed

<u>Room Number</u>	<u>Area per Square Foot</u>
63	3067
63A	120
63B	120
254H	1272
254I	1712
322	2468
	<u>8759 Total</u>

existing area

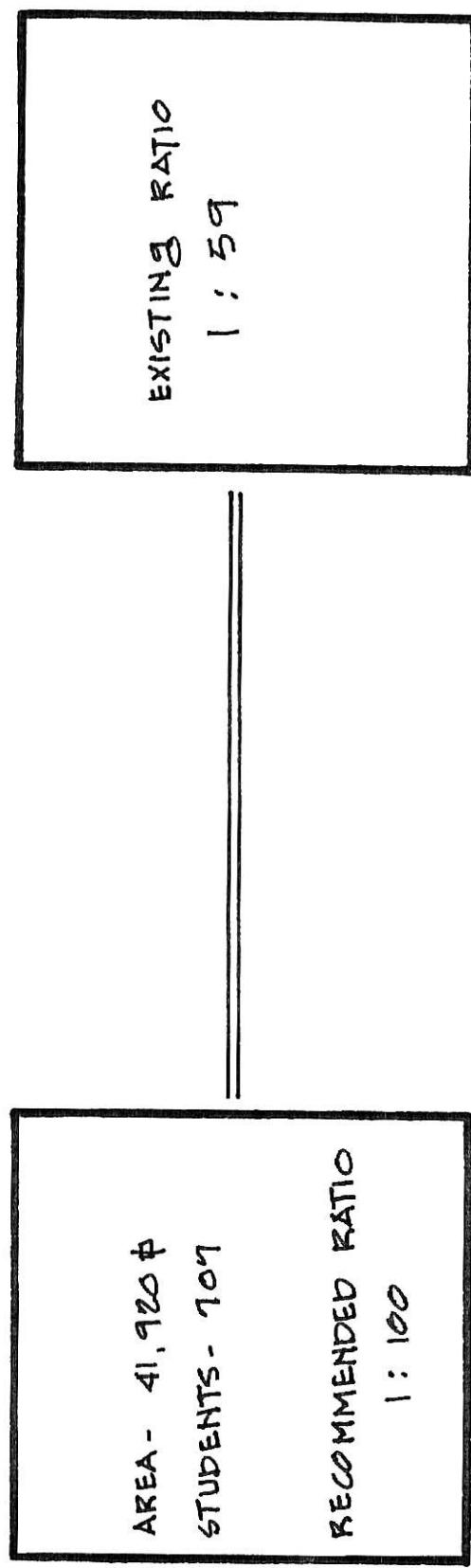
PLATE LIST

90

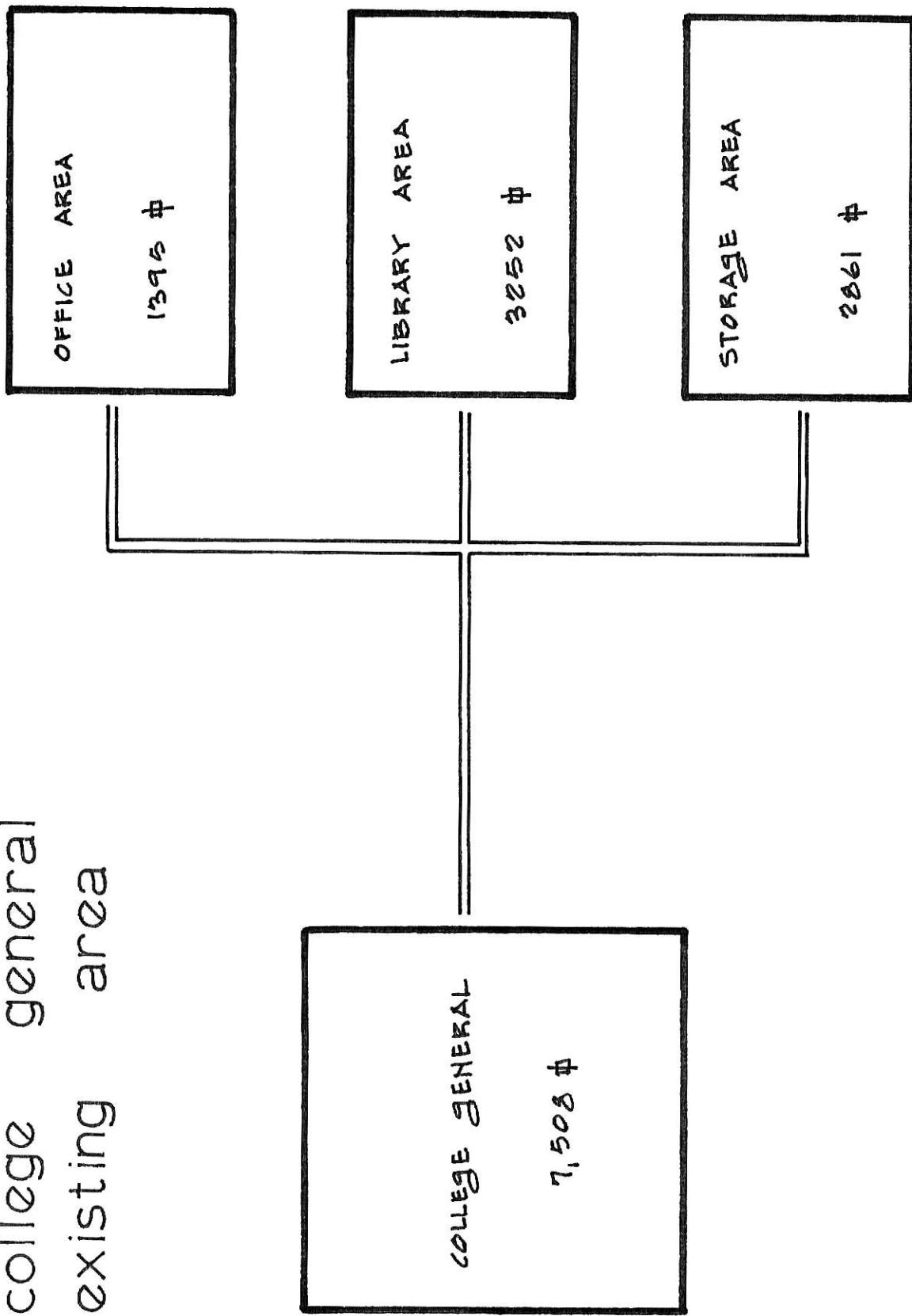
COLLEGE  
OF  
ARCHITECTURE & DESIGN  
50,679 \$

COLLEGE GENERAL 1,502 \$	ARCHITECTURE & DESIGN 16,401 \$	LANDSCAPE ARCH. 4,430 \$	BASIC STUDIES 4,256 \$	INTERIOR ARCH. 4,166 \$	PLANNING 3,122 \$	CONSTRUCTION SCIENCE 2,031 \$	USED NOT POSSESSED 8,759 \$
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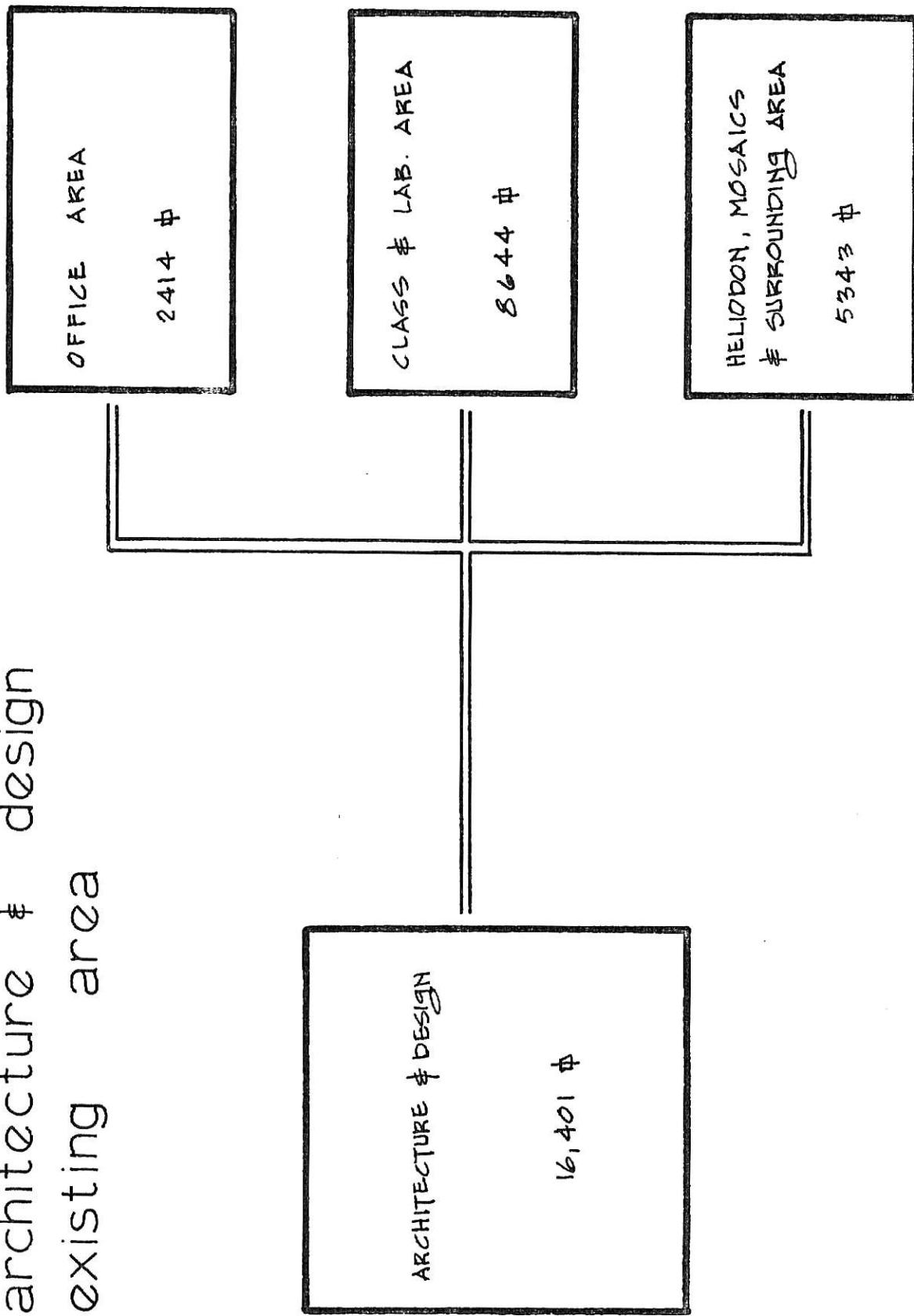
## existing student-area ratio



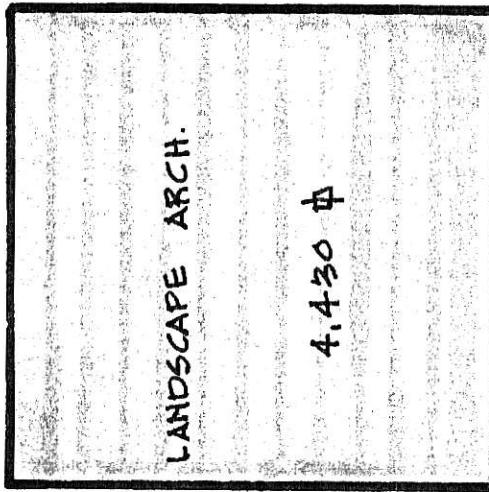
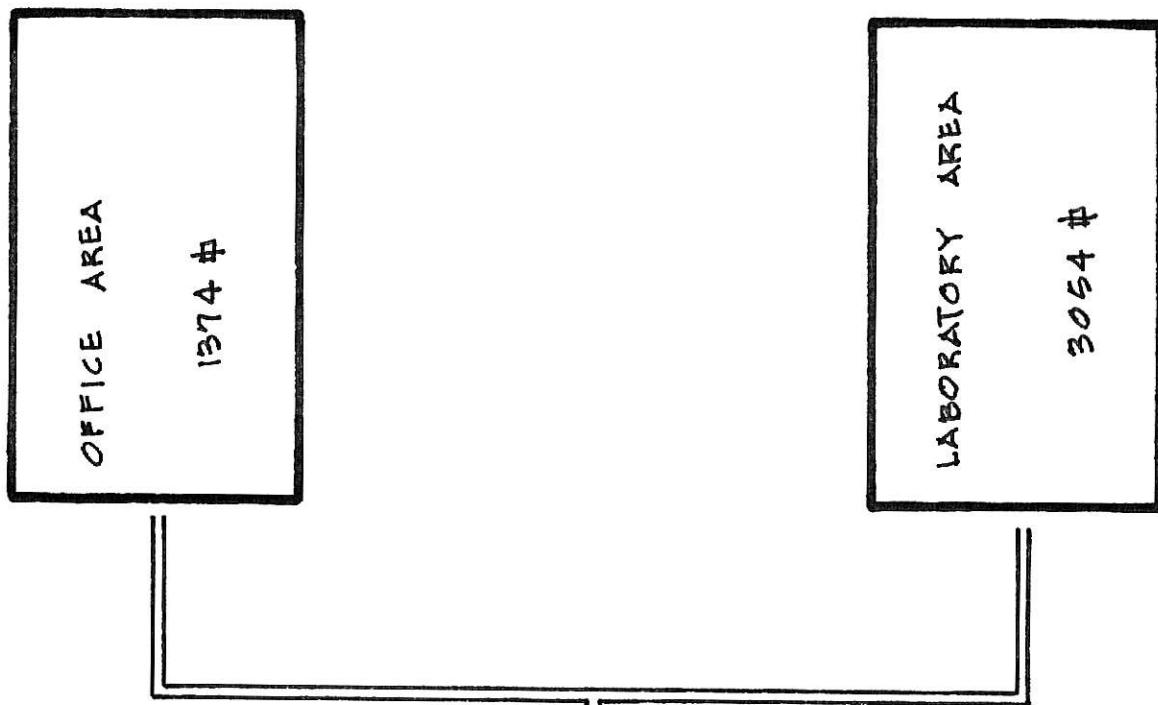
college general  
existing area



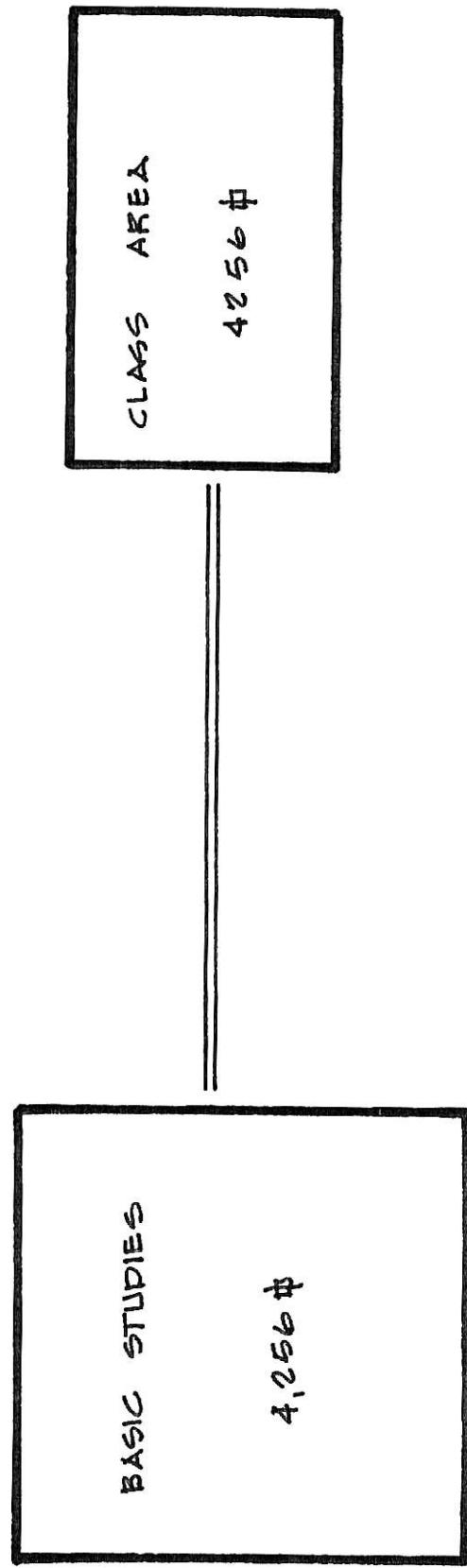
architecture & design  
existing area



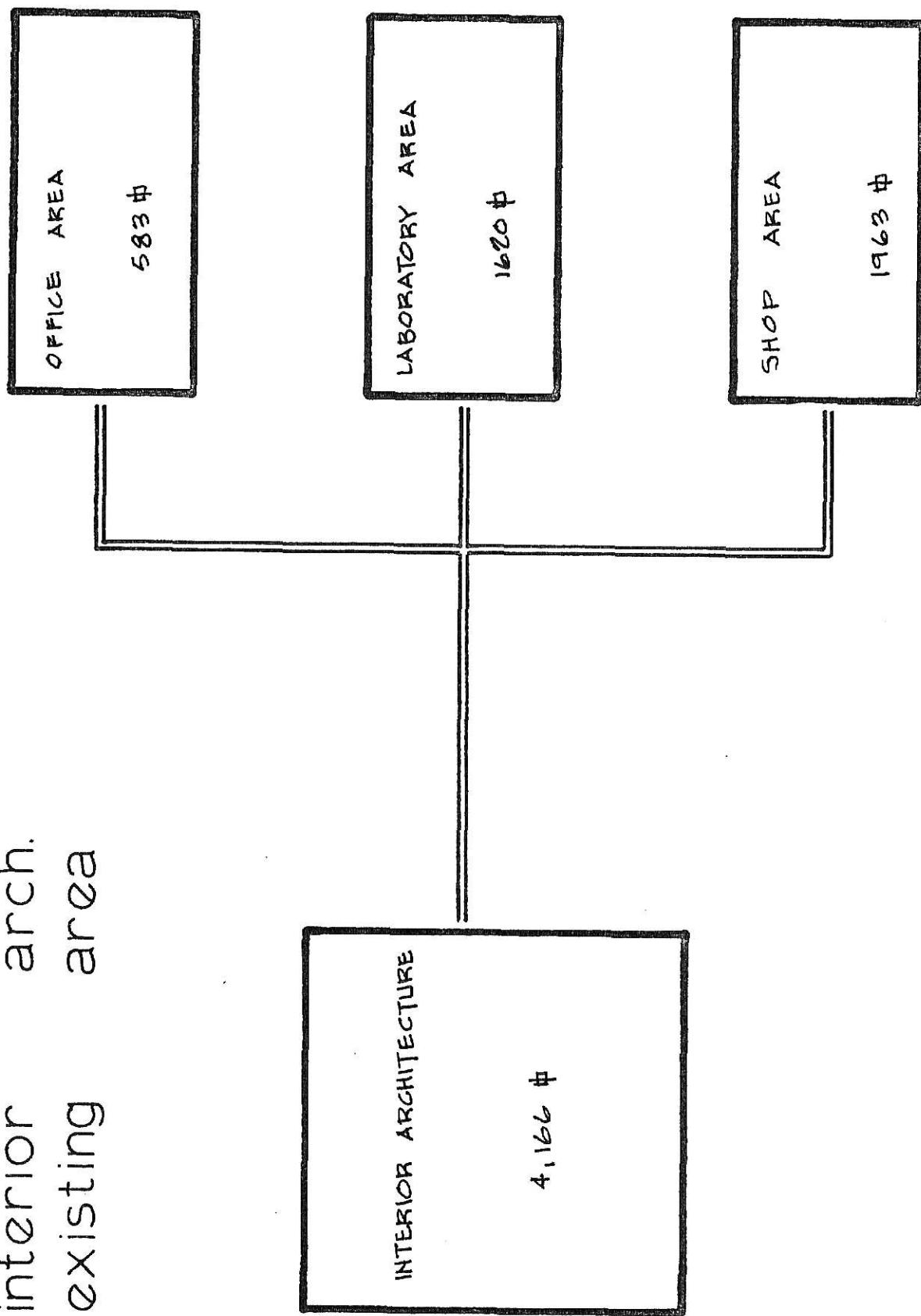
landscape arch.  
existing area



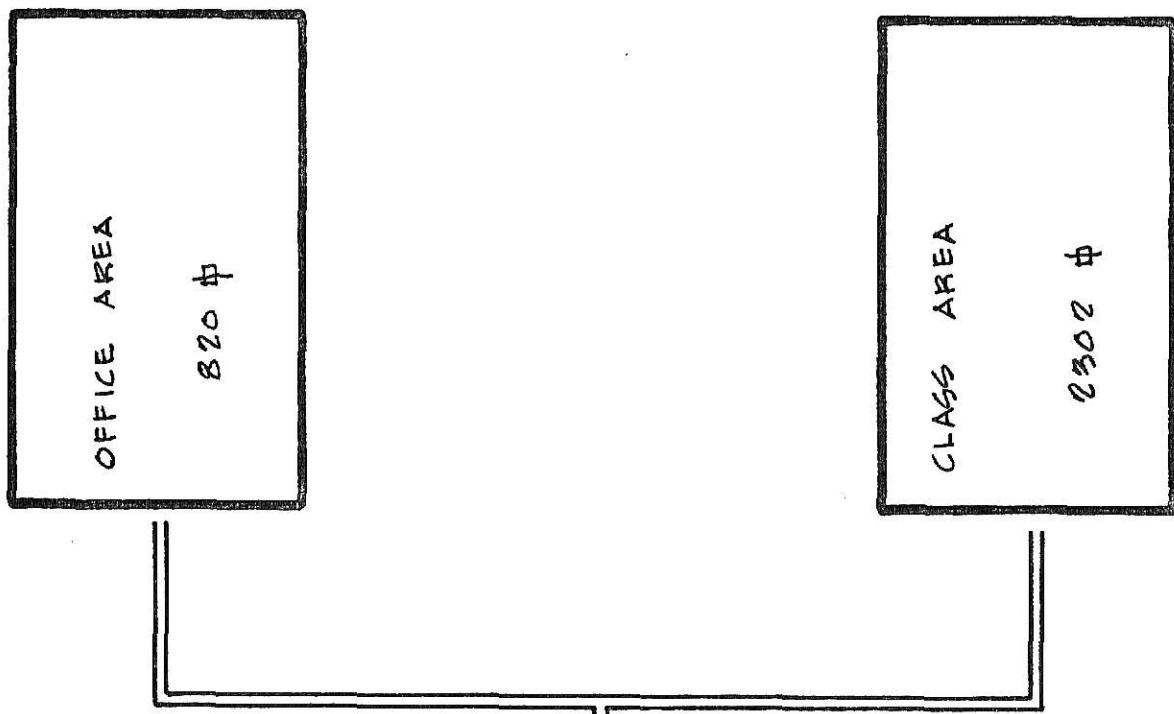
basic studies  
existing area



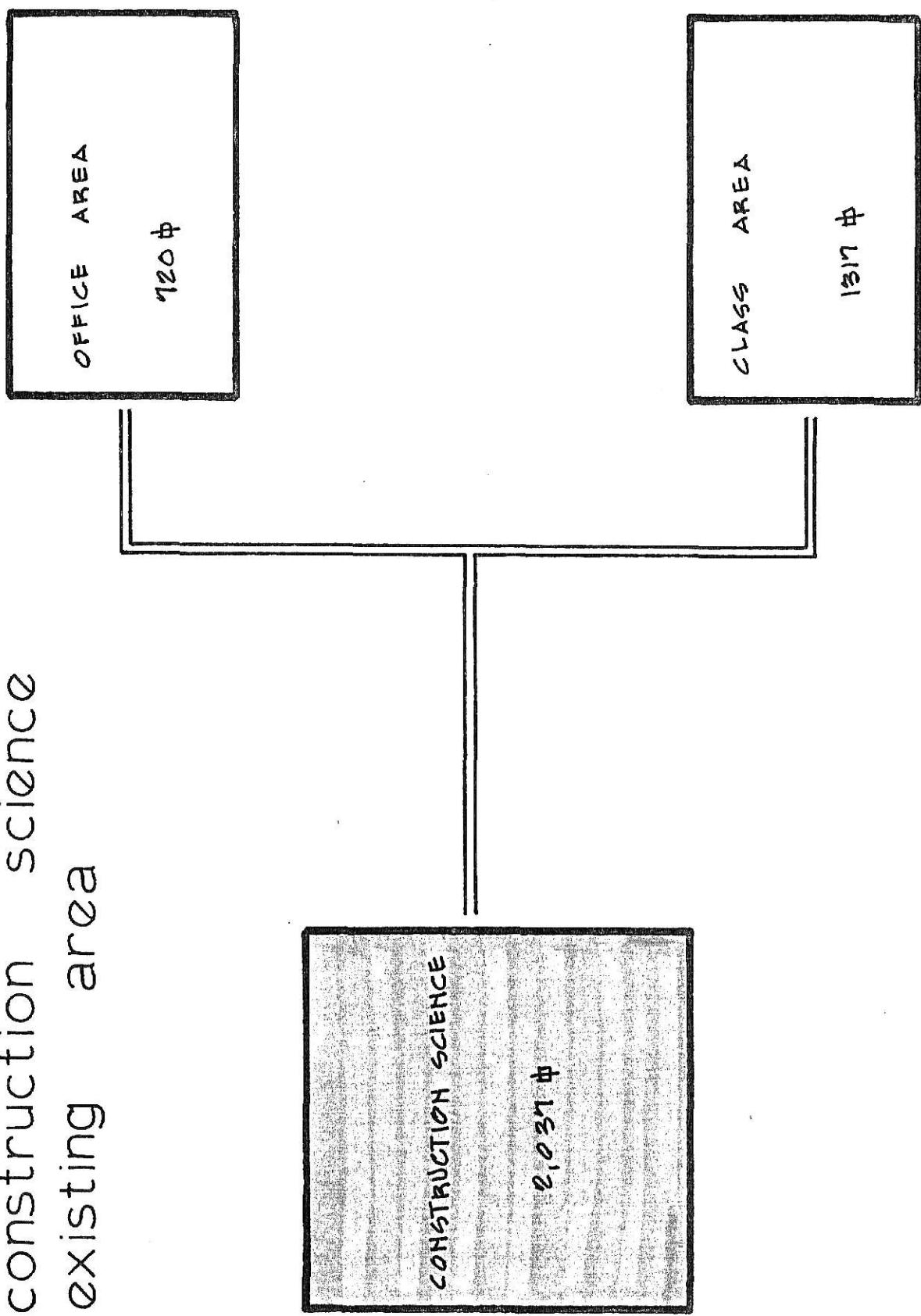
interior  
existing  
arch.  
area



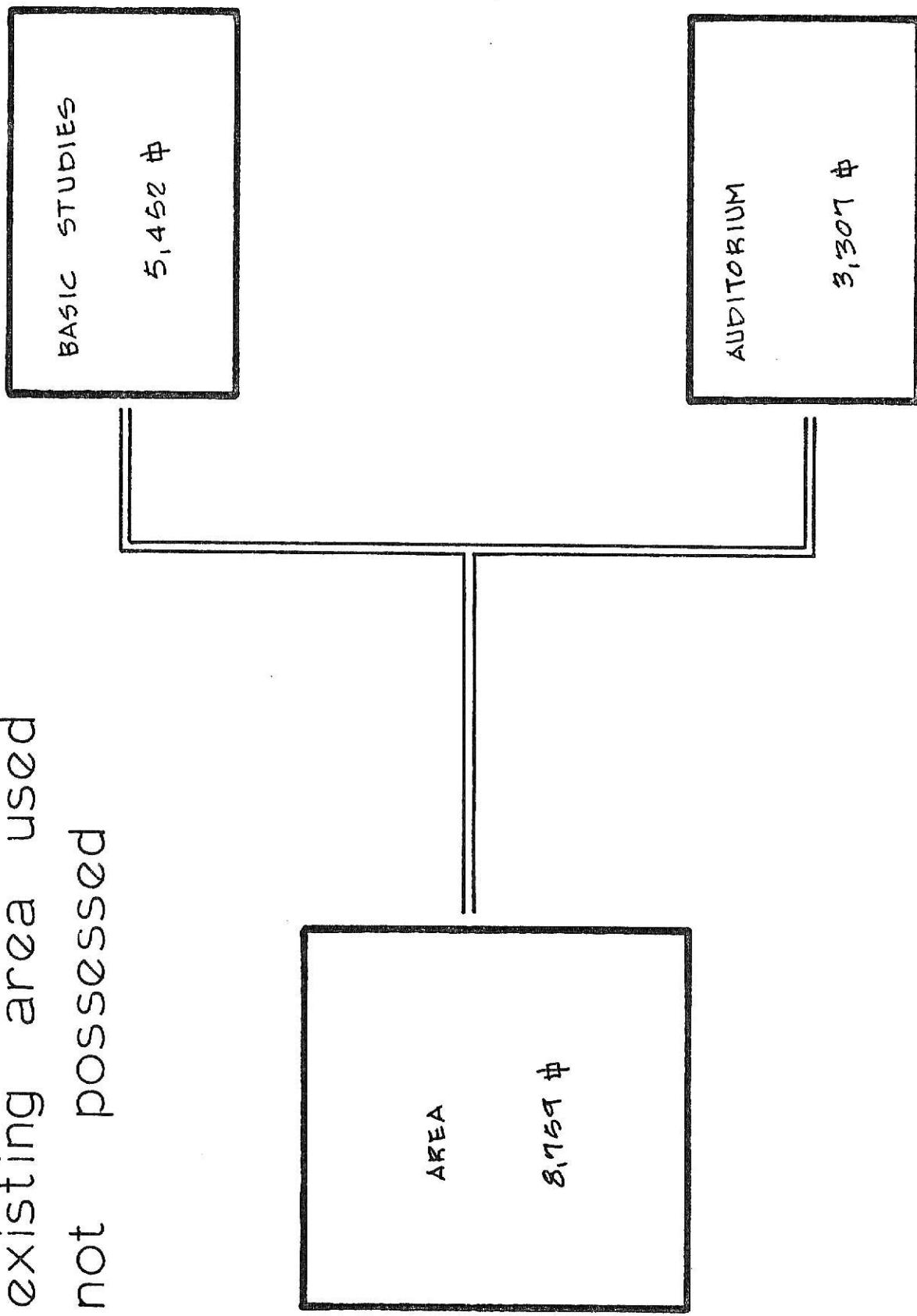
planning  
existing area



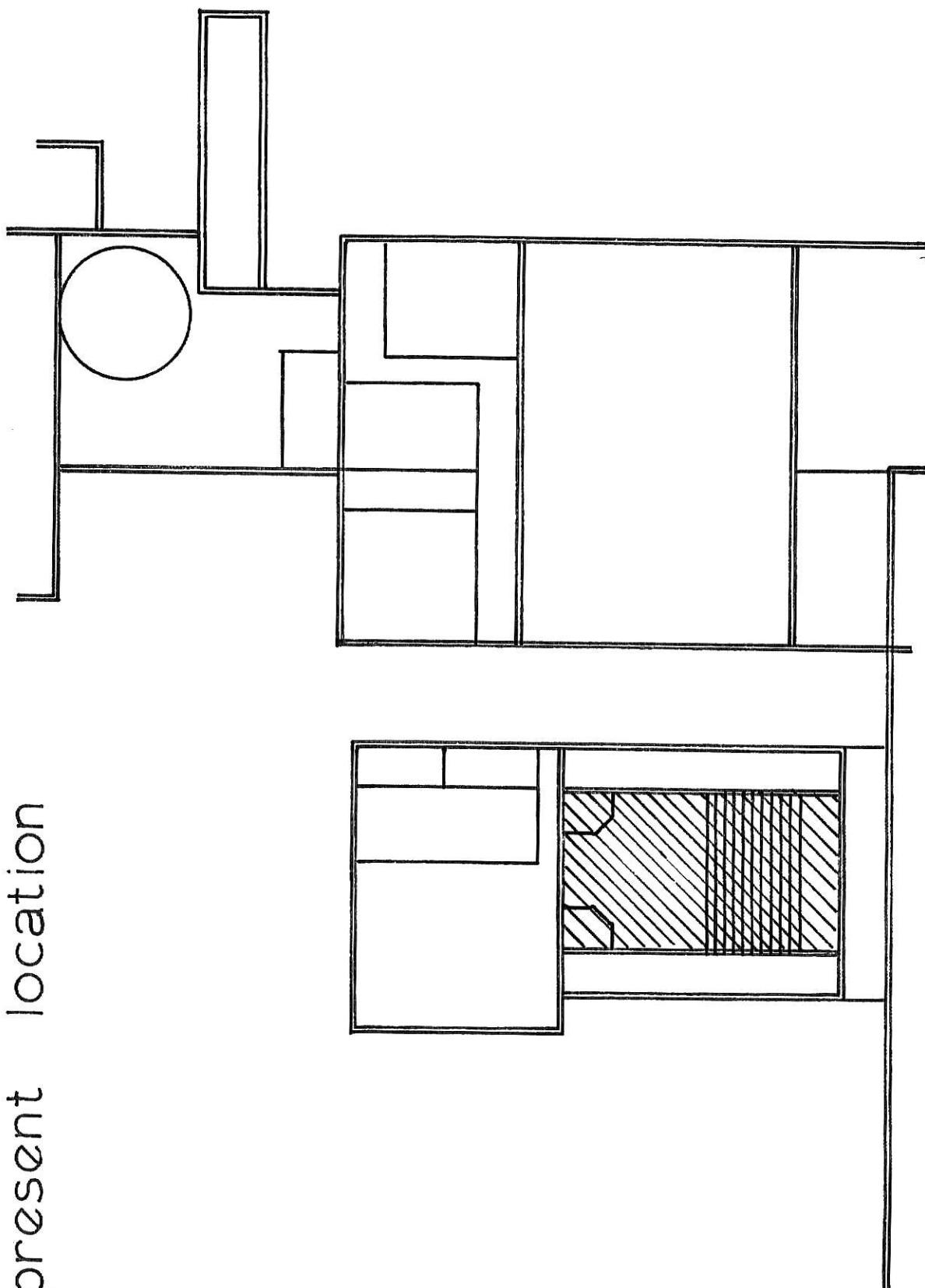
construction science  
existing area



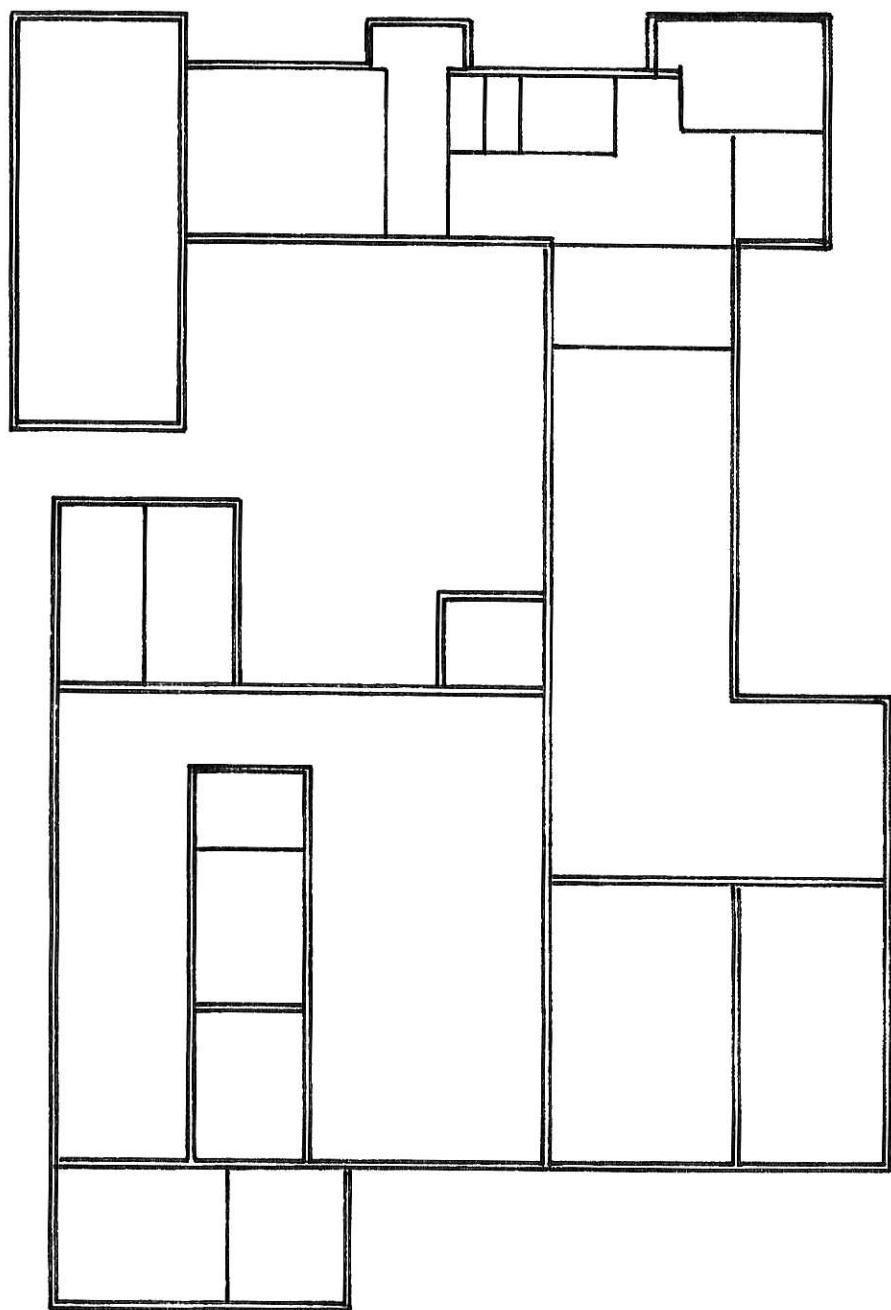
existing area used  
not possessed



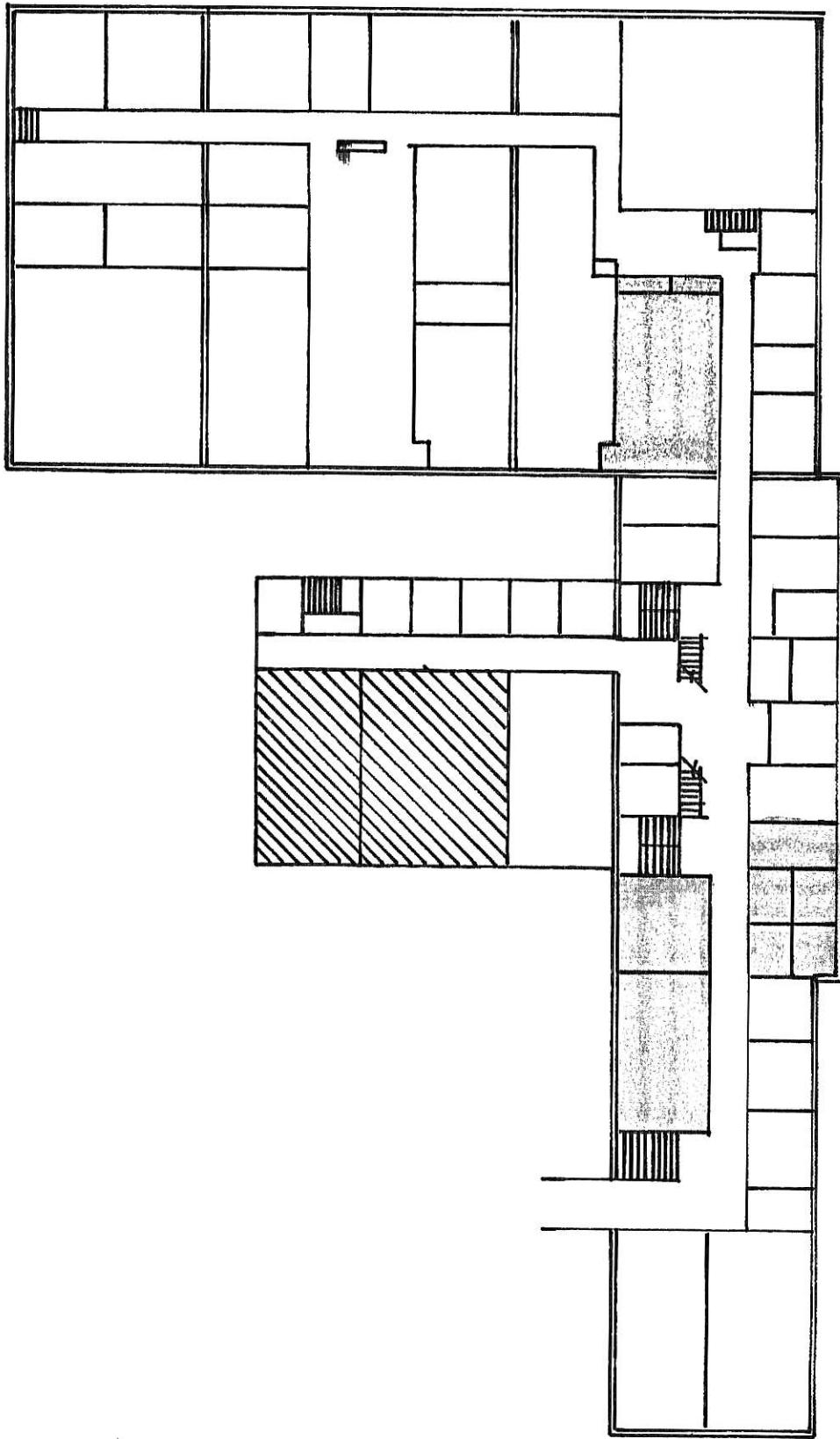
present location



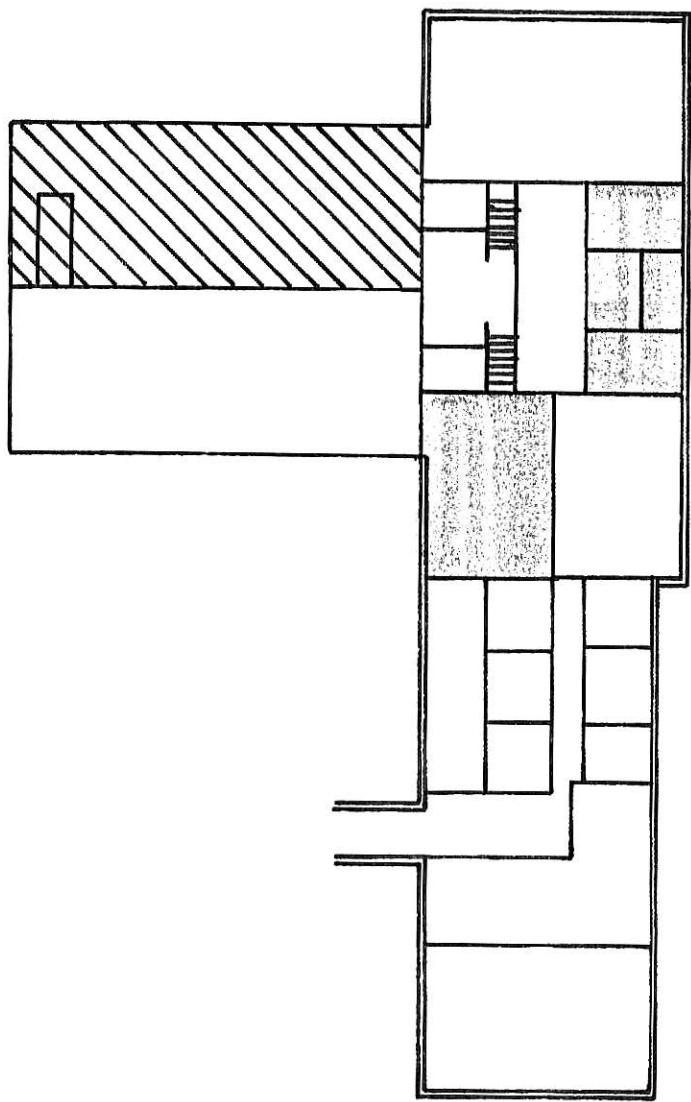
present location



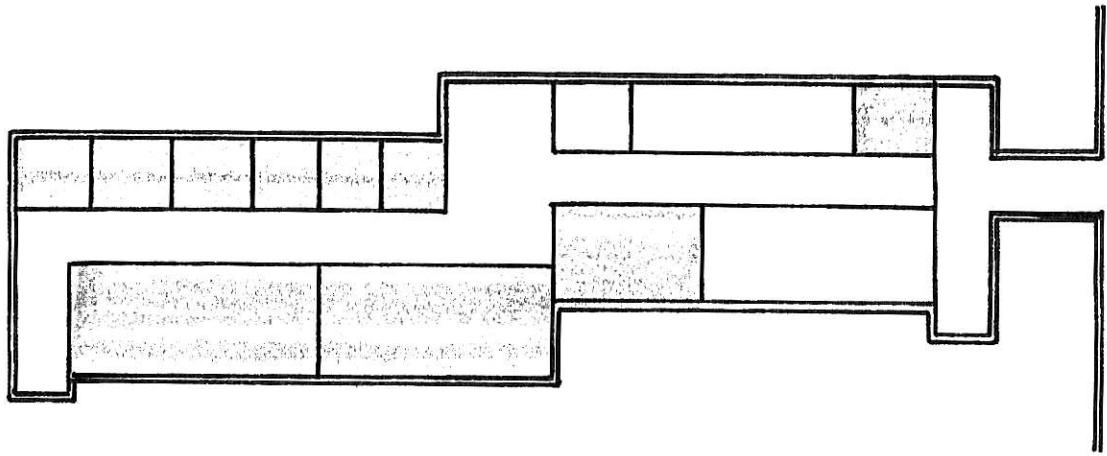
present location



present location



present location



existing area modified

## EXISTING AREA MODIFIED

Plates LXXVI-LXXXIX represent a modification and addition to existing area possessed by the College of Architecture and Design based on the existing curriculum and the existing enrollment. Based on interviews and existing data, I feel that these changes are items requiring immediate action.

Landscape Architecture and Interior Architecture are the two design departments implementing the concept of individual work stations. It is my opinion that this should be allowed to flourish with an expansion of area. If additional area is not granted to these departments this concept will perish. The importance of Basic Studies should be realized and the second level of the new wing should be obtained for expansion. The quality of the work of Basic Studies students may be related to the present area allotments and faculty assignments. The third level of the new wing should also be obtained for expansion of the College library.

The present functions and improvements in relation to the Engineering auditorium are products of the College of Architecture and Design. This area still belongs to the College of Engineering even though they do not use it. It is my opinion that this area should be secured by the College of Architecture and Design. The shop area also needs expansion space in order to expose more students to this source of education.

Plate LXXVII represents a new student per square foot ratio using the modification of existing space with existing enrollment. The College of Architecture and Design will be located in the following rooms:

College of Architecture and Design

General College

<u>Room Number</u>	<u>Area per Square Foot</u>
4	1811
4A	1130
4B	340
4D	1073
63	3067
63A	120
63B	120
212	263
212A	116
212B	196
212C	294
253	112
253A	213
255	201
303A	372
303B	740
303C	122
303D	120
303E	95
303F	789
320A	201
320B	212
320C	210
321A	233
322	2468
323	3019
322A	128
	<u>17,765 Total</u>

Department of Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
4C	989
206	2268
207	192
210	291
211	237
211A	330
211B	190
214	251
215	244
216	274
217	161
218	1230
219	1001
260	1988
260B	207
260C	768
301	1916
305	1074
	<u>13,611 Total</u>

Department of Interior Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
101	2792
113	408
114	835
114A	408
118	720
208	244
209	175
257	1620
257B	1140
	<u>8342 Total</u>

Basic Studies

<u>Room Number</u>	<u>Area per Square Foot</u>
254A	184
254B	160
254C	160
254D	160
254E	160
254H	1272

Basic Studies (contd.)

<u>Room Number</u>	<u>Area per Square Foot</u>
254I	1712
254J	1222
260A	788
	<u>5818 Total</u>

Department of Landscape Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
306	748
307	1221
308	1001
308A	84
309	194
310	234
311	240
312	242
313	233
314	233
317	736
	<u>5166 Total</u>

Department of Regional and Community Planning

<u>Room Number</u>	<u>Area per Square Foot</u>
302	159
302A	244
302B	248
302C	169
303	924
318	229
320	933
	<u>2906 Total</u>

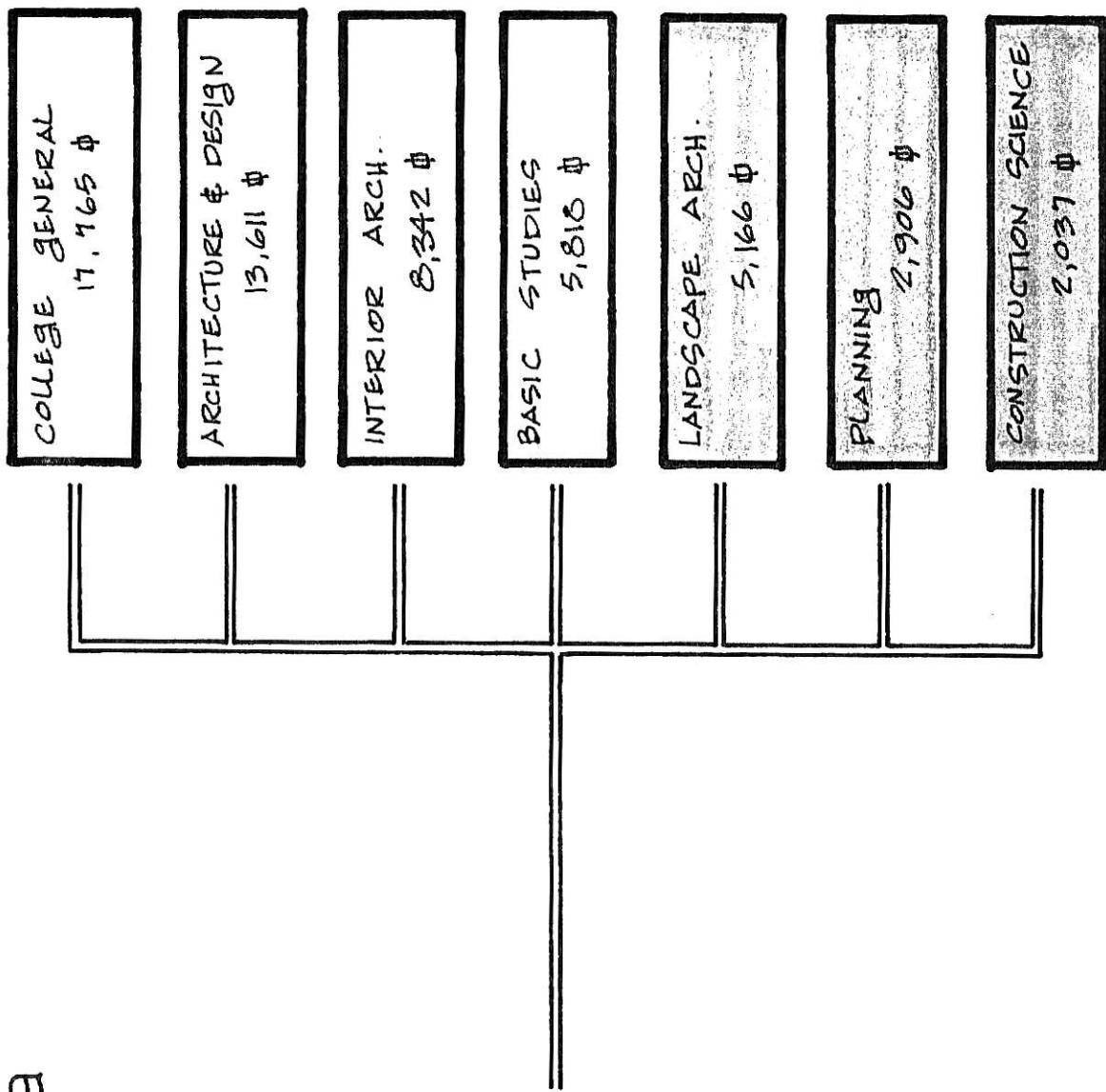
Department of Construction Science

<u>Room Number</u>	<u>Area per Square Foot</u>
213	110
213A	162
213B	100
213C	115

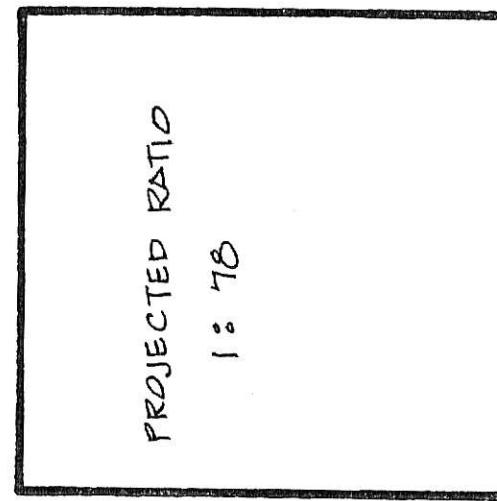
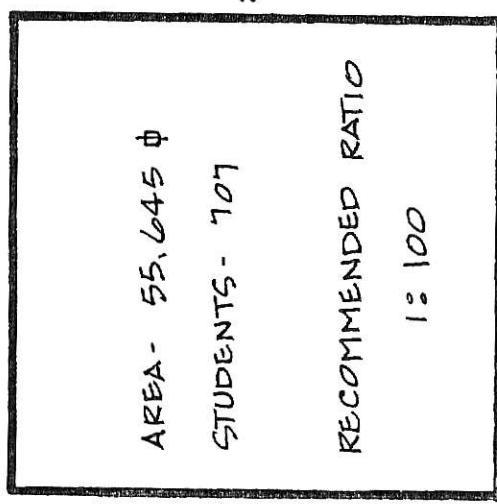
Department of Construction Science (contd.)

<u>Room Number</u>	<u>Area per Square Foot</u>
213D	233
251	892
252	425
	<u>2037 Total</u>

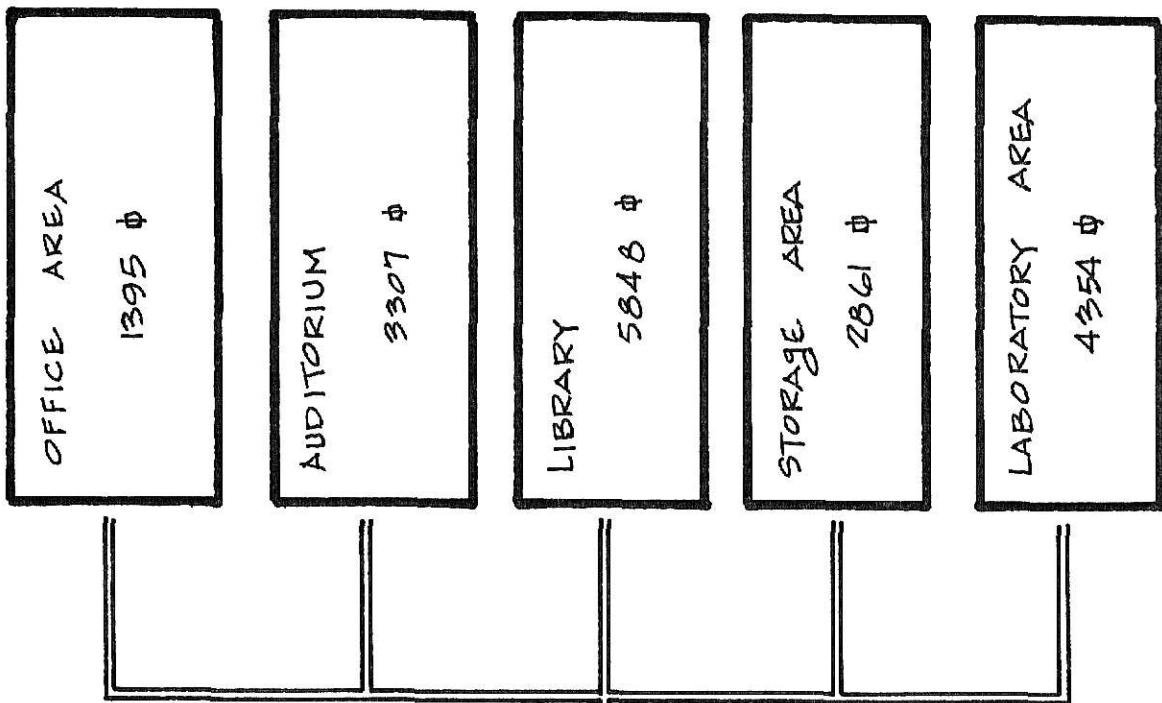
existing area  
modified



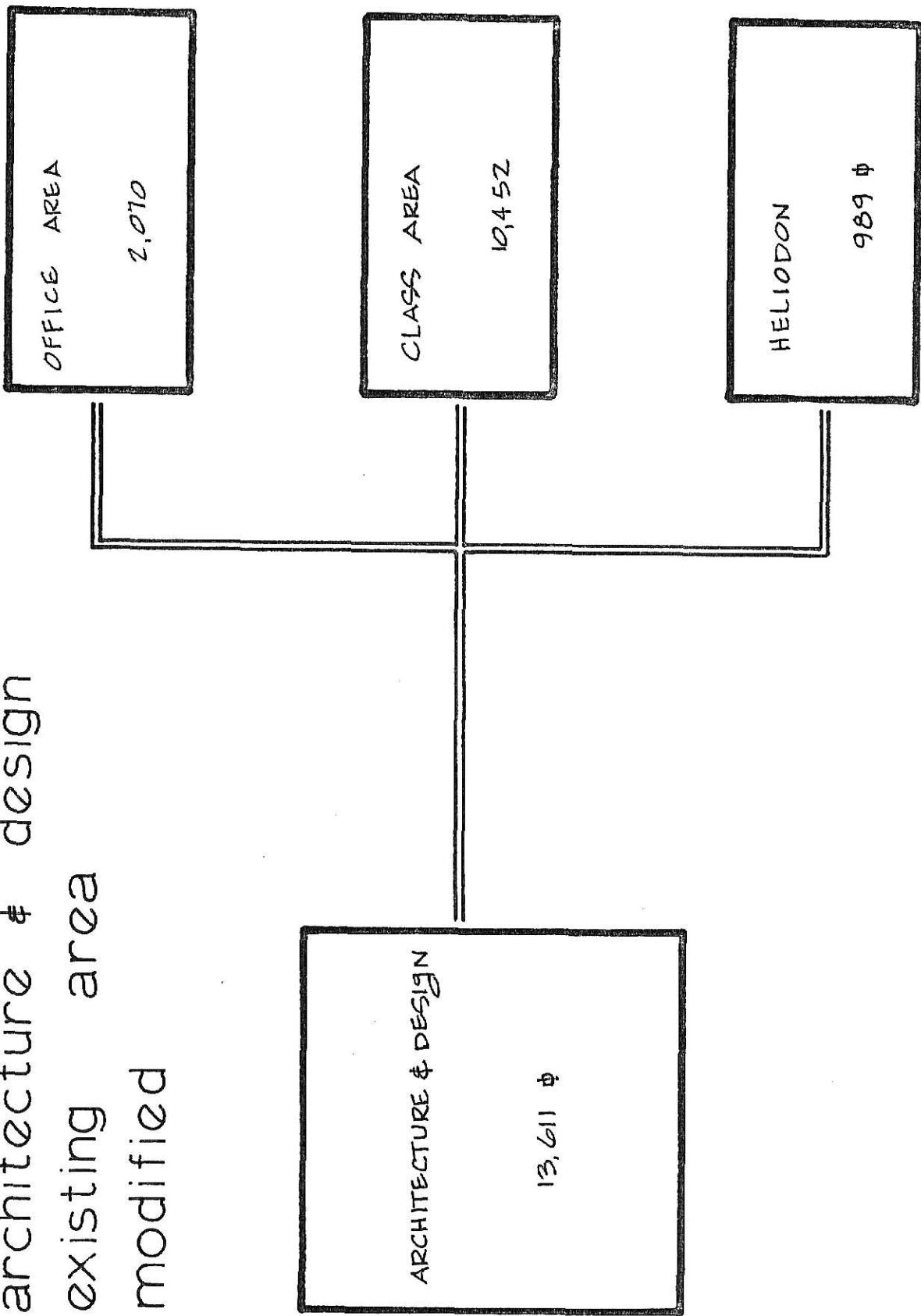
existing area  
modified



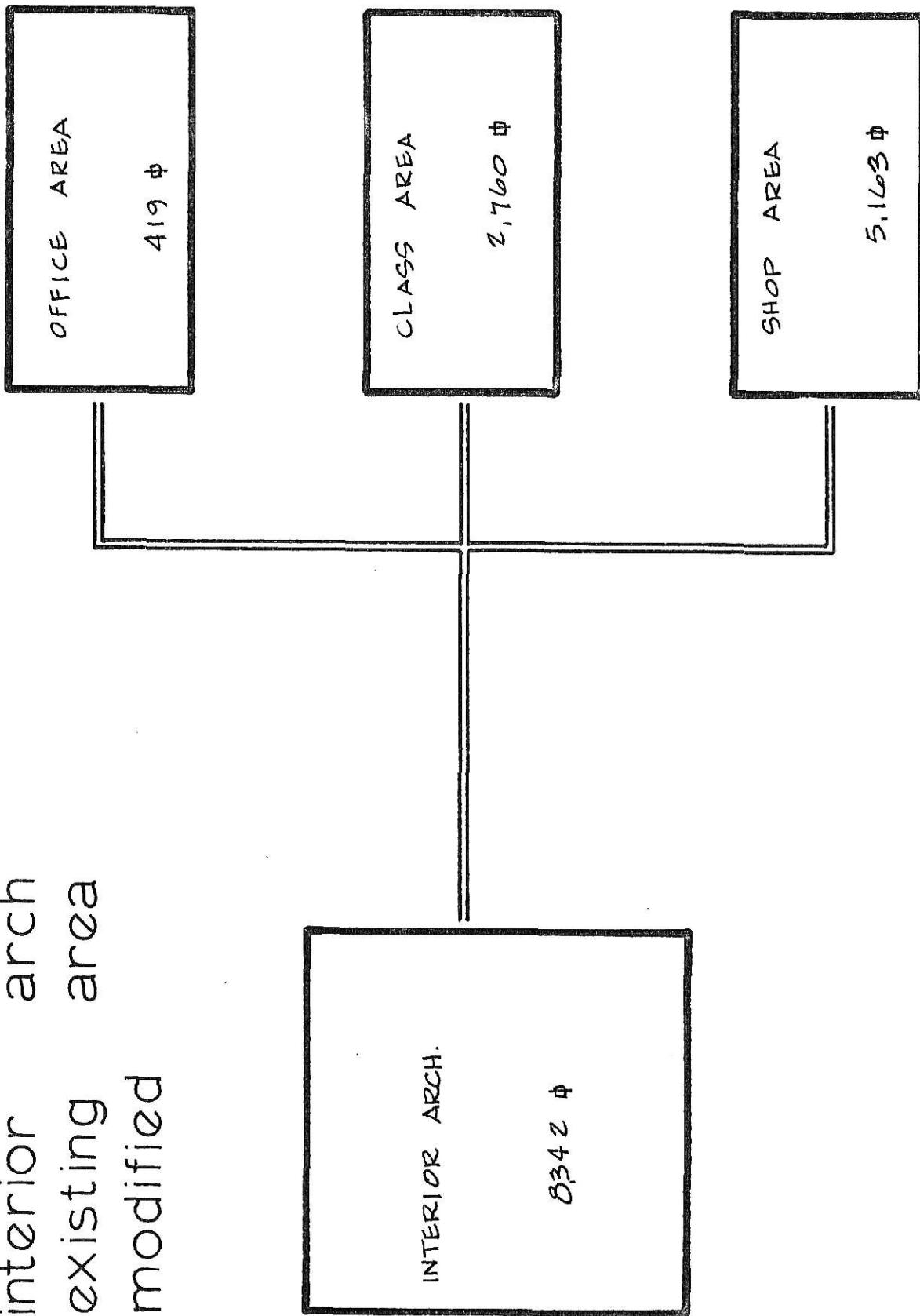
college general  
existing area  
modified



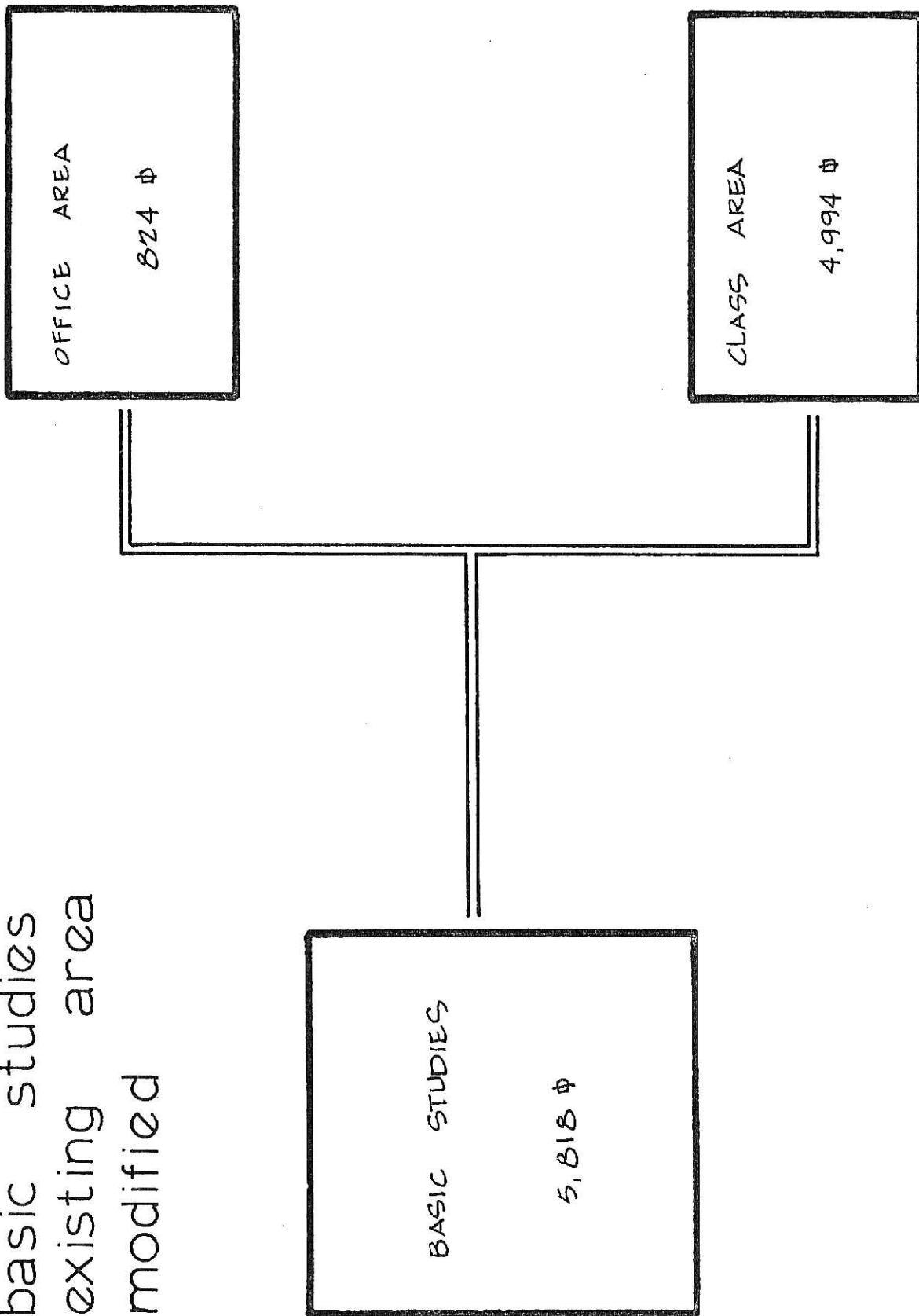
architecture & design  
existing area  
modified



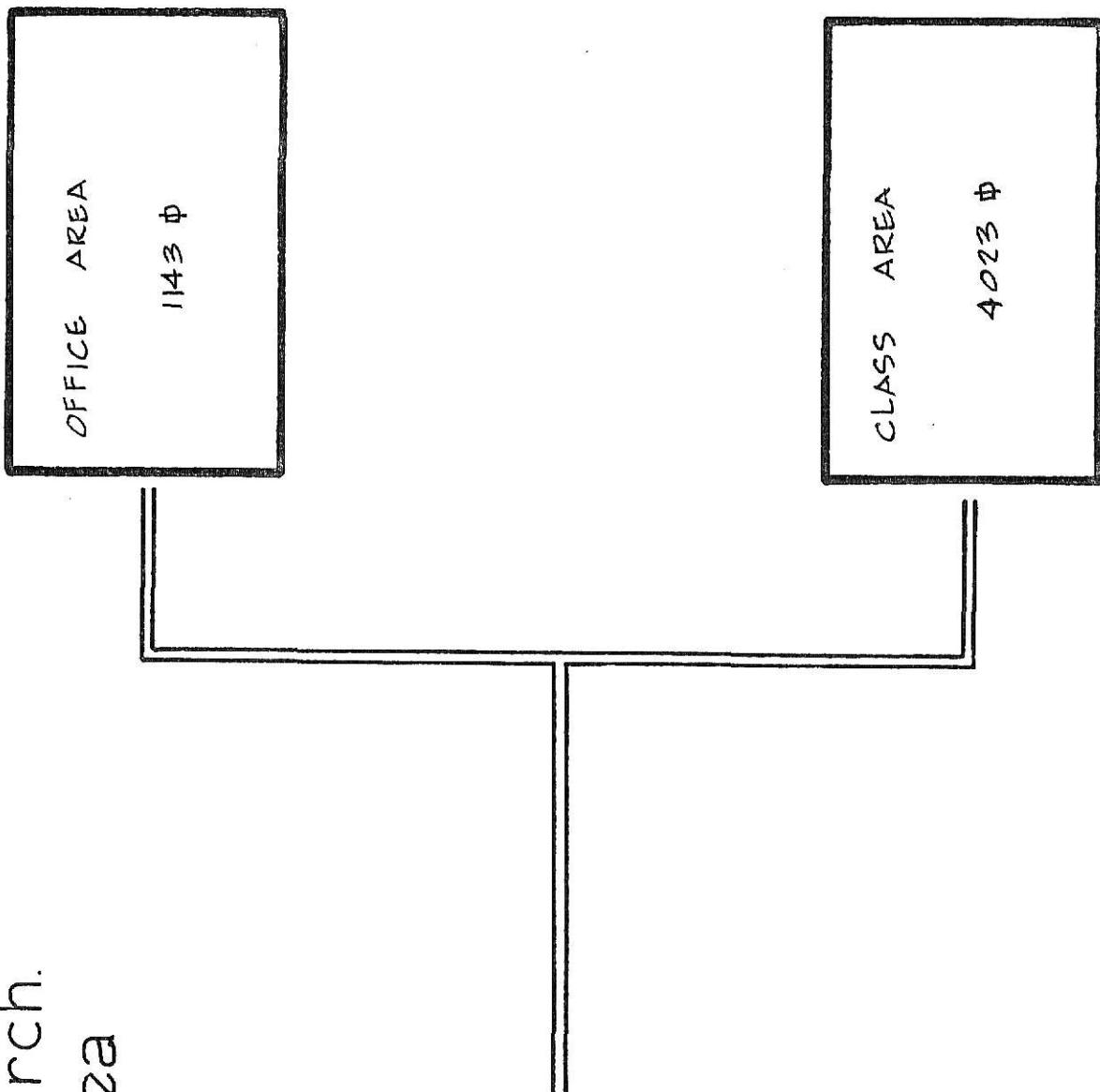
interior arch  
existing area  
modified



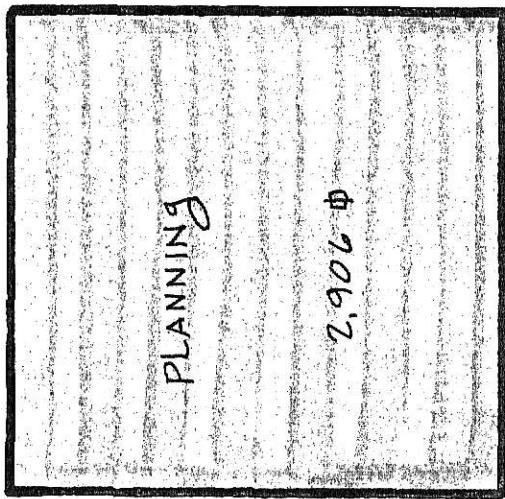
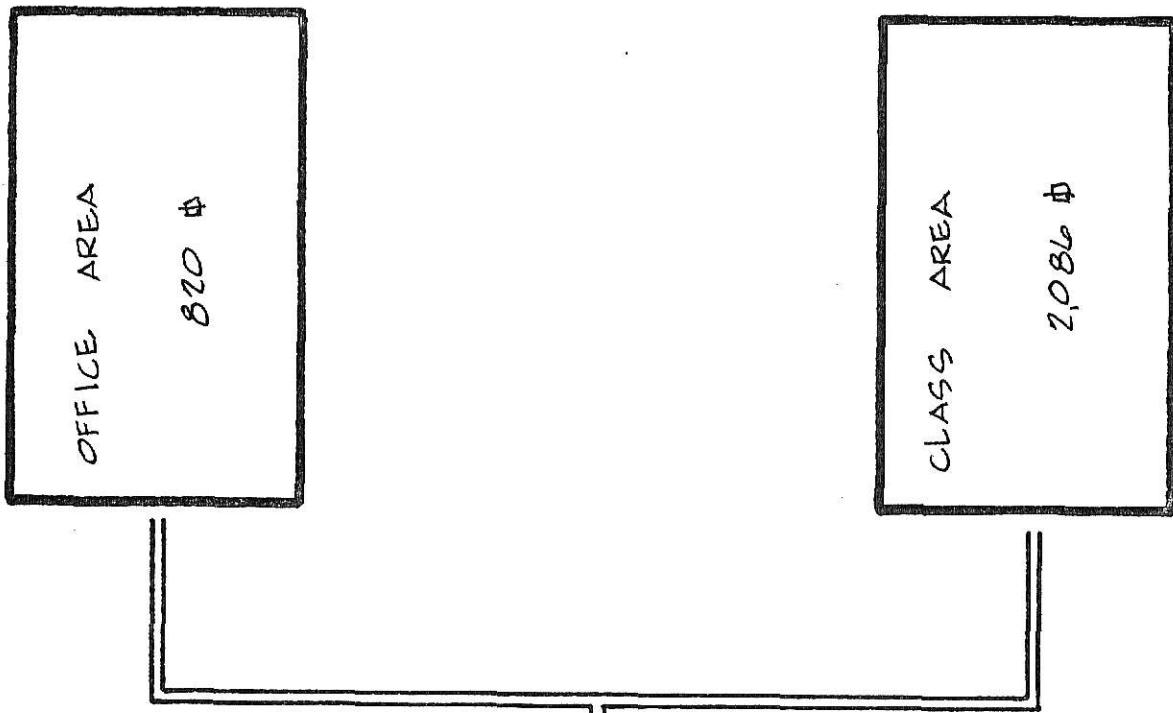
basic studies  
existing area  
modified



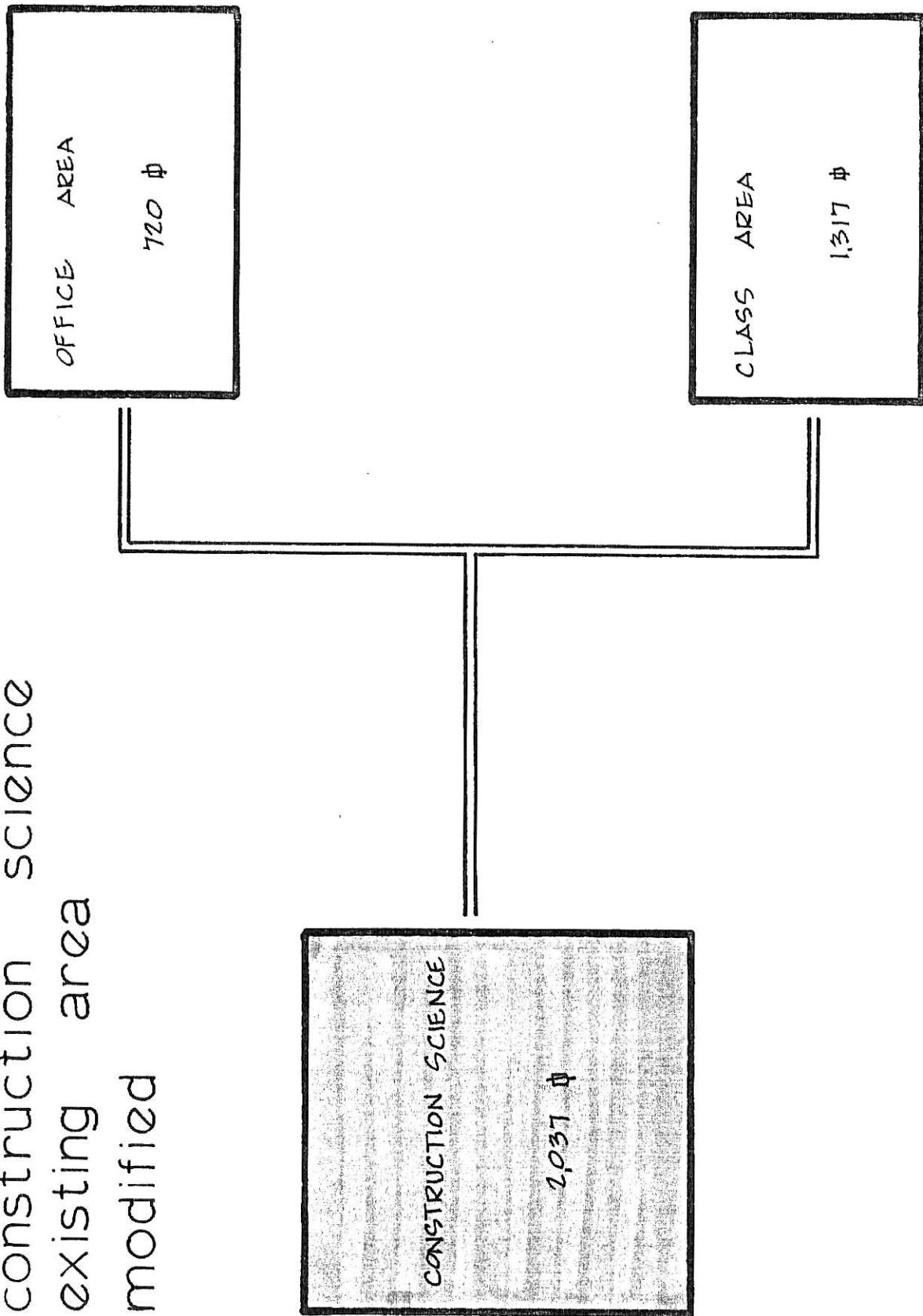
landscape arch.  
existing area  
modified



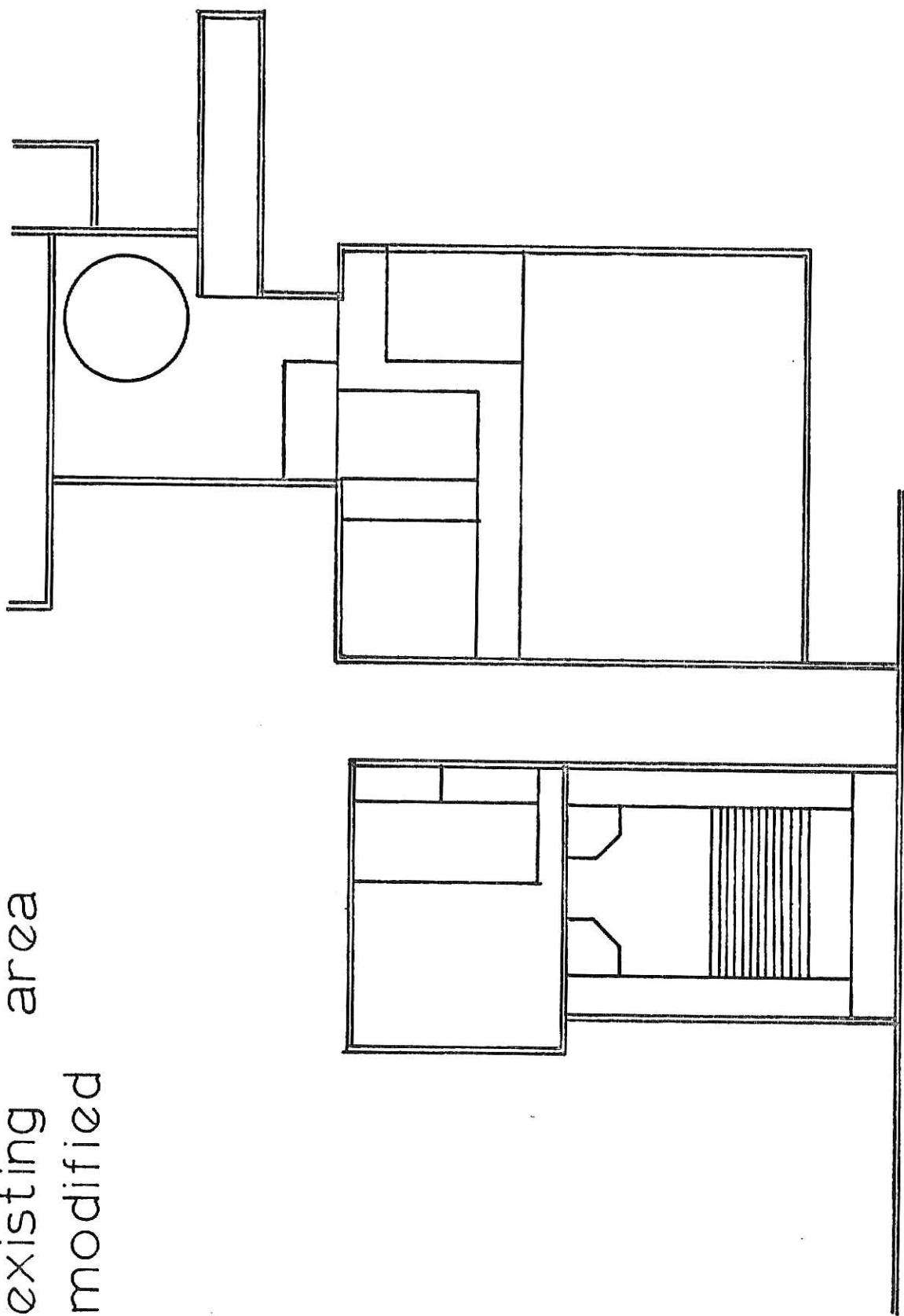
planning  
existing area  
modified



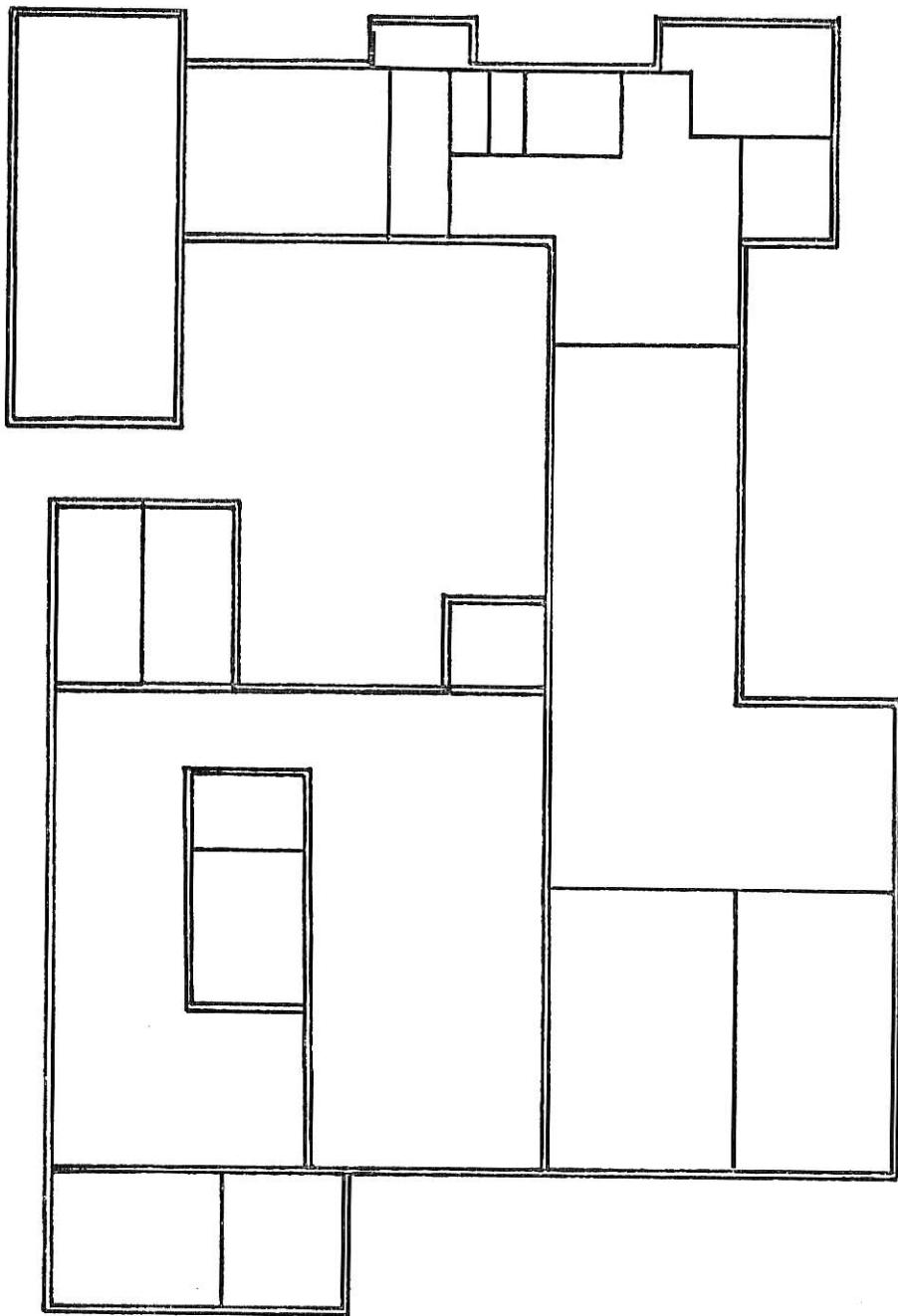
construction science  
existing area  
modified



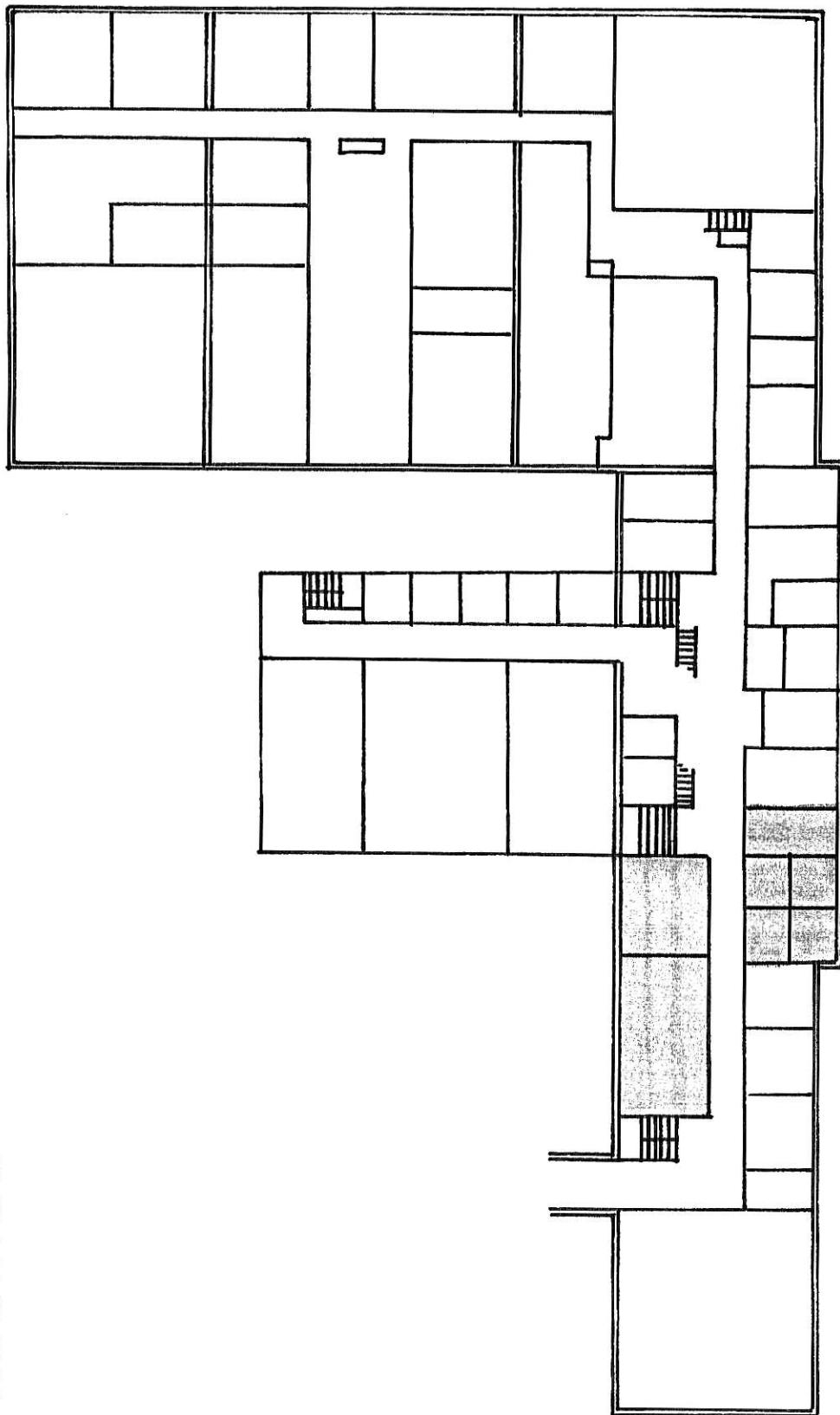
existing area  
modified



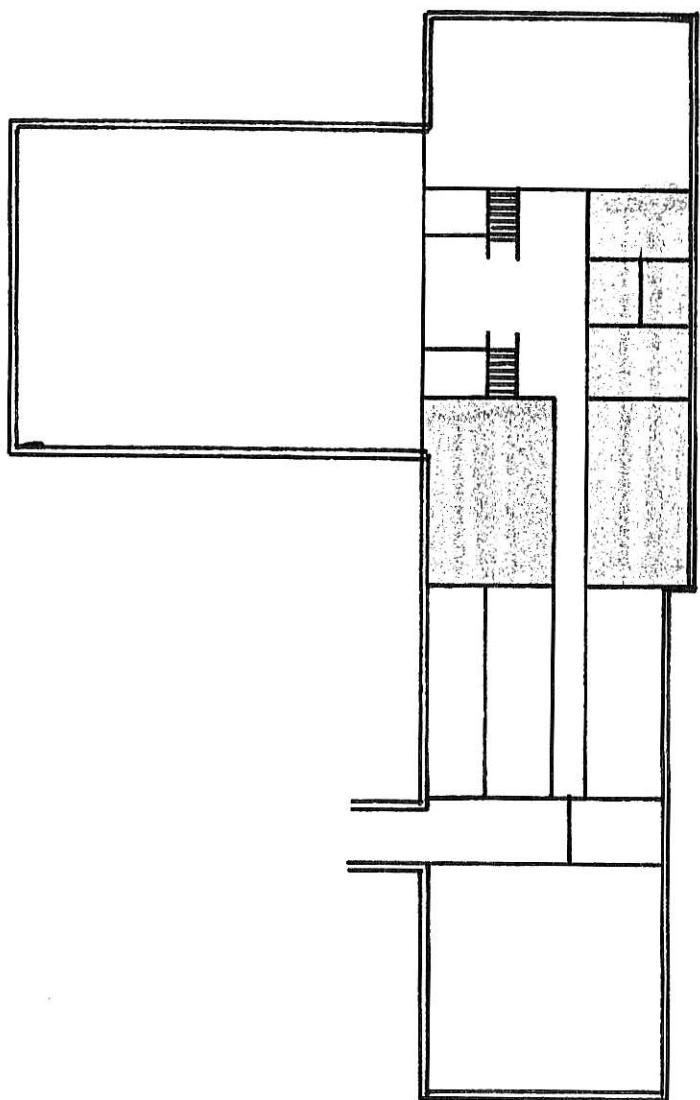
existing area  
modified

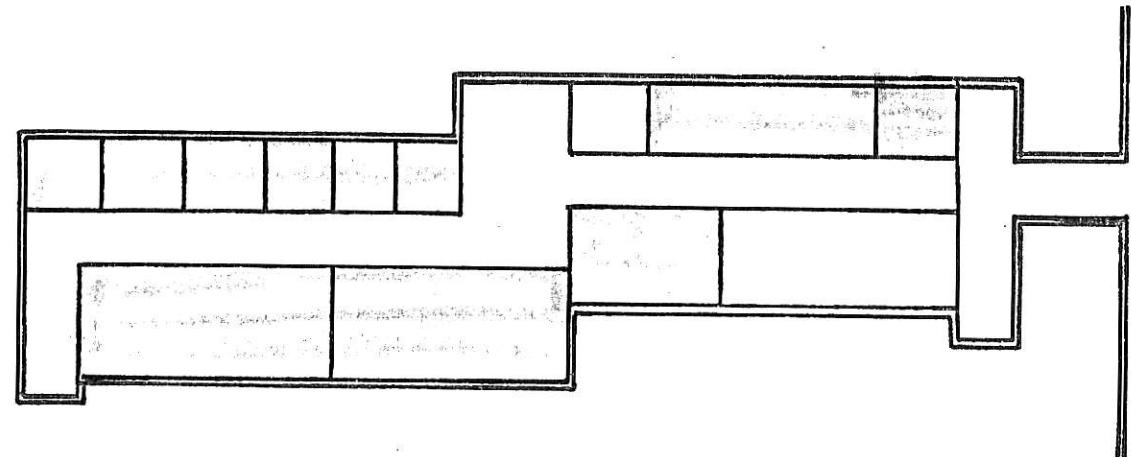


existing area  
modified



existing area  
modified





existing area  
modified

individual work station

## INDIVIDUAL WORK STATIONS

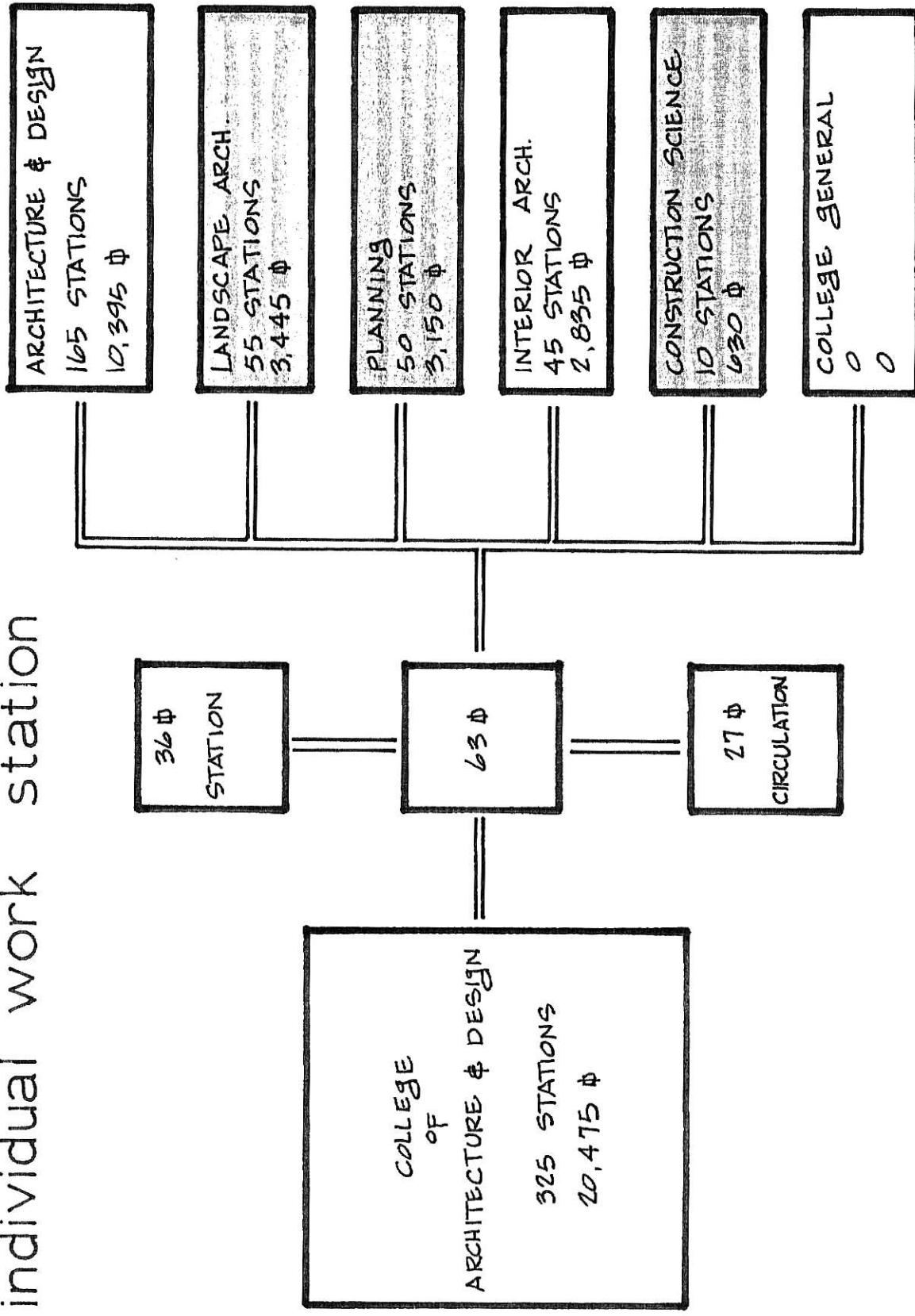
Plates XC-CXVI represent the analyzation of the individual work station concept. Understanding of the individual work station is important if the concept is to be implemented due to the amount of square footage needed to accommodate this function. Place XC expresses the minimum area required based on the projected enrollment.

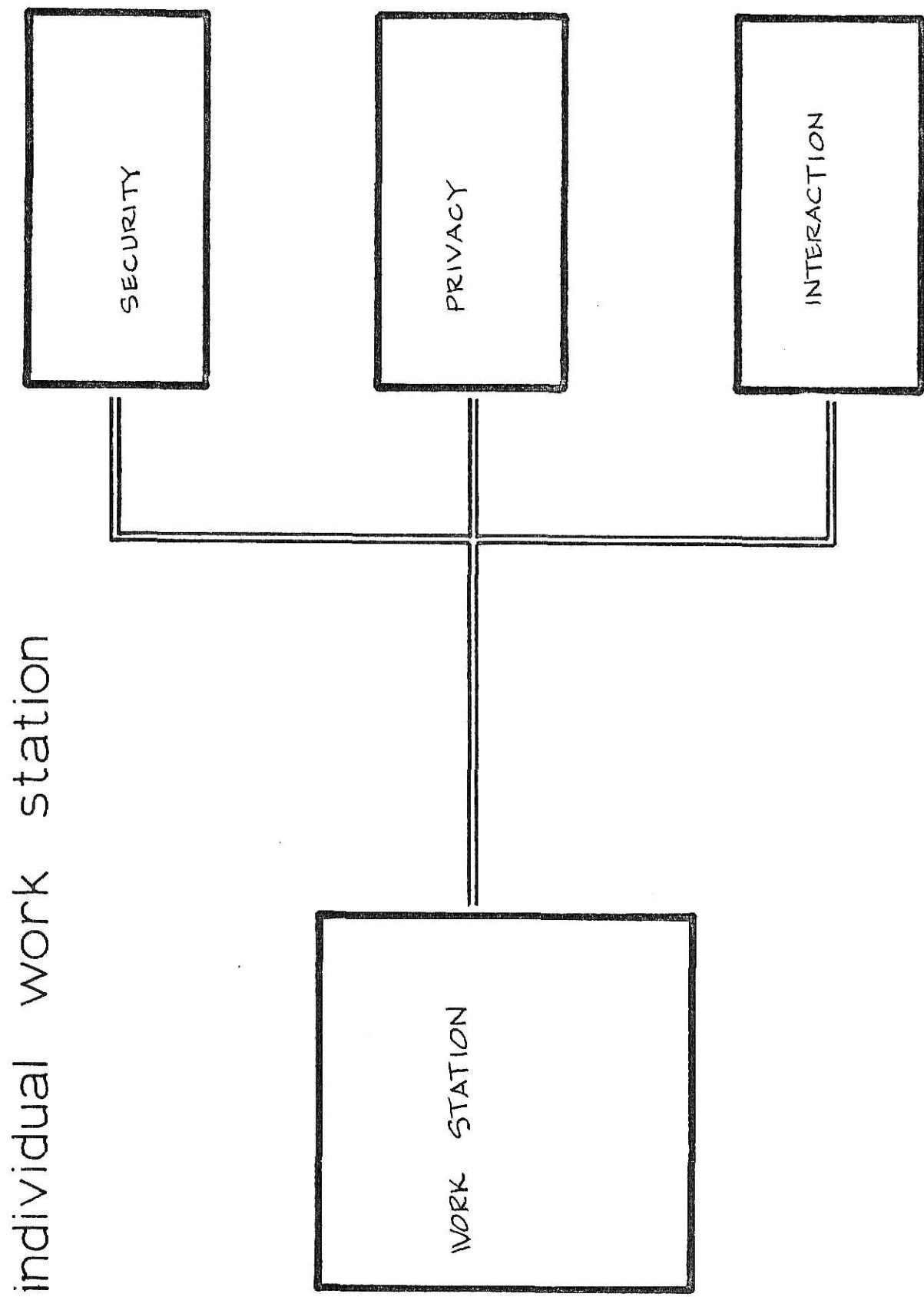
The concept of the work station is to offer a personal working area to each student from junior year to graduation. The station must supply some privacy to the individual and yet allow interaction between users. The station must supply the flexibility and security for individuality and yet contain some rigidity for order. All design work and any other drawing, such as construction work, will be scheduled at the station. Design class will have seminars scheduled on a weekly basis for group interaction, but all work will be done at the station. This situation puts more responsibility on the instructor and the student. The seminars will supply the instructor with informal verbal exchange with the group but he must move into the individual work stations for intimate contact with the student's work. The student has the responsibility of using the station. My concept is to intermingle all levels of students in the same work station area. It is my opinion that lower level students can benefit from the exposure with the more sophisticated verbal philosophy and graphical expression of the upper level students. The upper level students can also benefit from the work station mix. They will be forced to validate their expressions, therefore reinforcing and developing concepts.

The seminar space is a vital necessity. Philosophies are conceived, developed, and destroyed in seminar. A seminar has the potential for creating intellectual maturity in students. It is an opportunity for intimate contact within the vastness of the College.

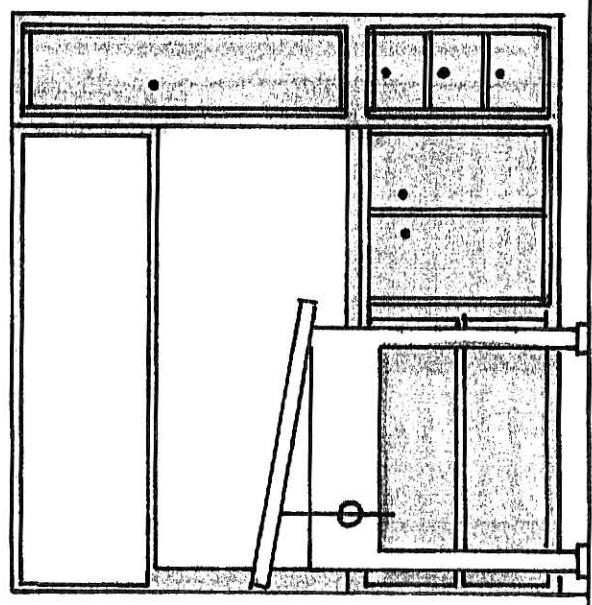
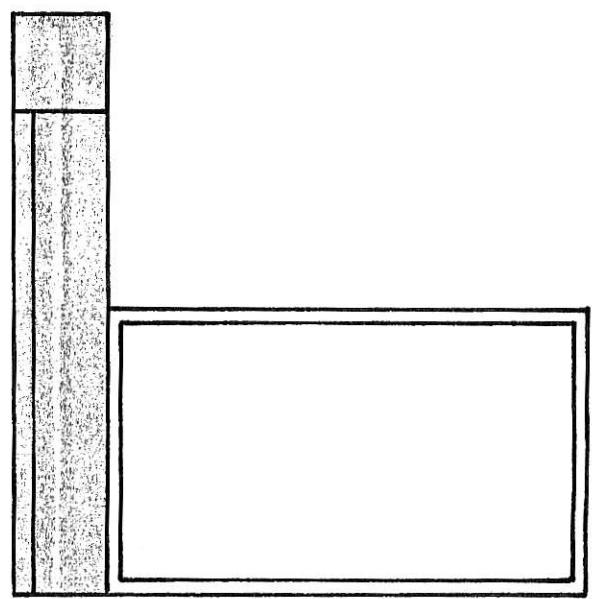
Plates XCV-XCIX represent the hours per week that work stations will be scheduled for use by each department. Plates C-CXV represent the number of work stations in scheduled use for each department for each hour of the day. Plate CXVI represents the percent of time the work stations are scheduled for use. This does not include the students' spare time when the work station may be a study carol or an environment for extended design work.

individual work station

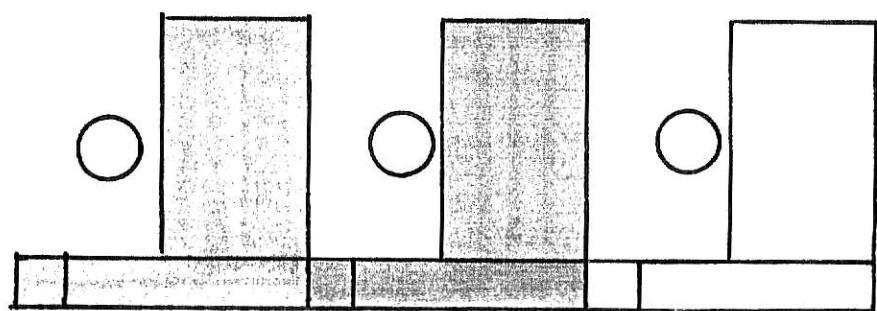
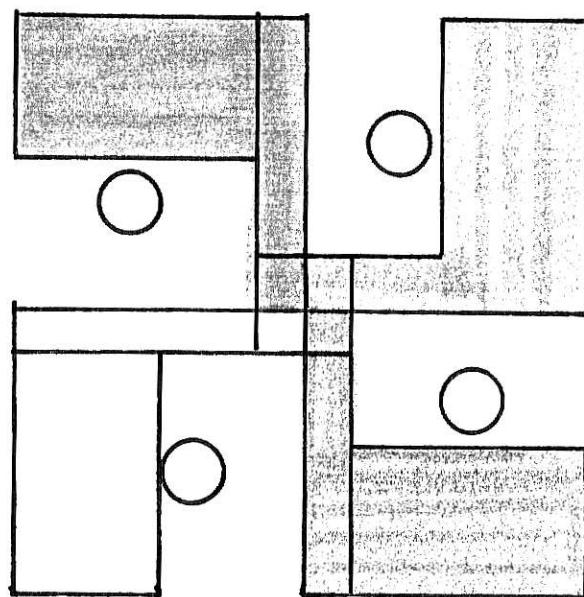
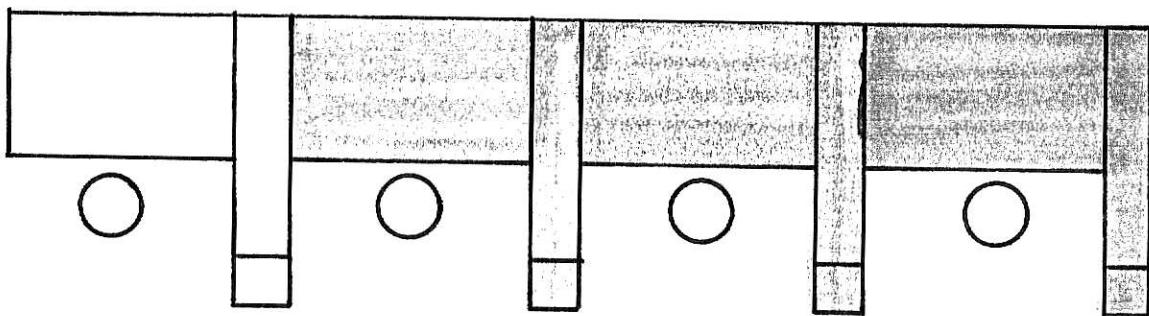




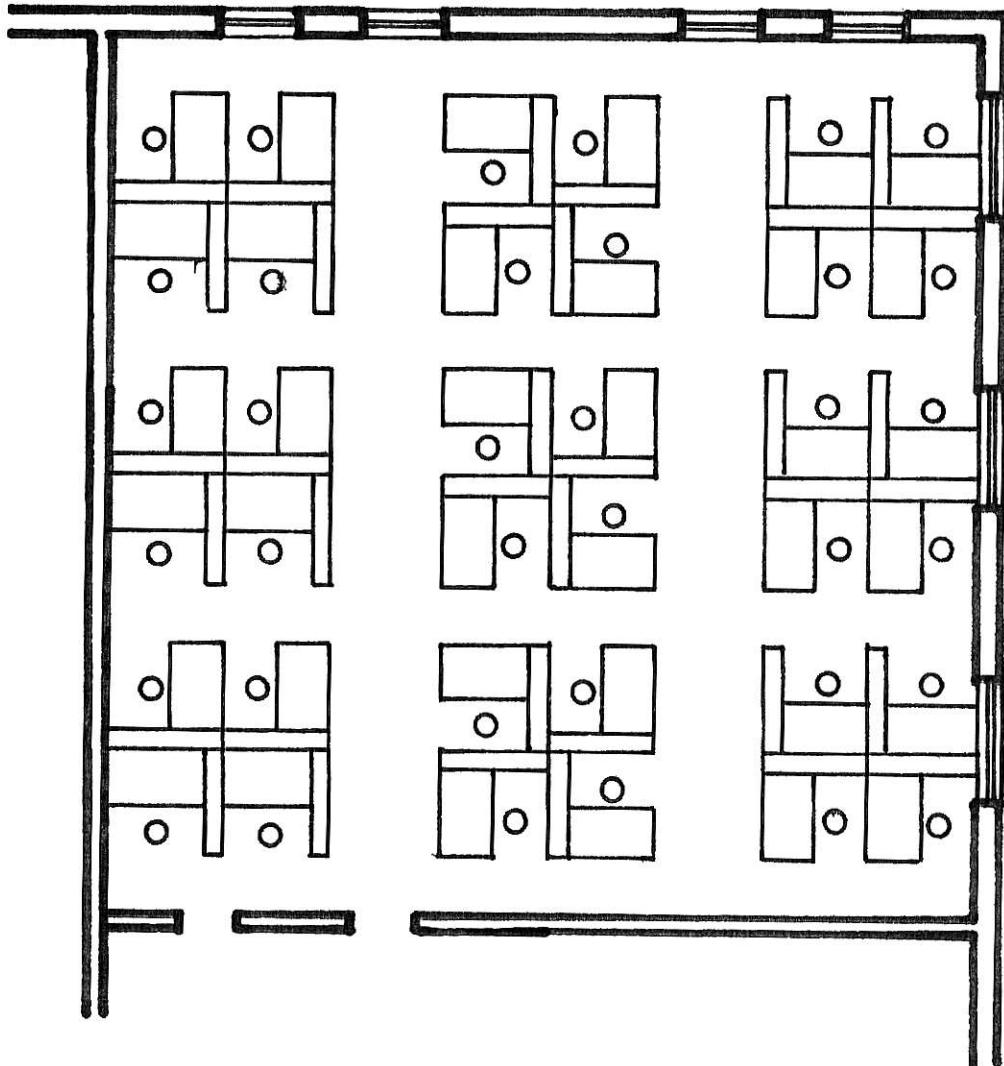
typical work station



## typical layouts



typical room layout - room 206



individual work station  
scheduled hours/week

ARCHITECTURE & DESIGN

165 STATIONS

ROOMS - 108, 218, 219  
260

JUNIOR - 60 STATIONS

ARCH. DESIGN I

M-T-V-T-F 1:30-4:30

ARCH. CONSTR. I

T-T 8:30-12:30

SENIOR - 50 STATIONS

ARCH. DESIGN III

M-T-W-T-F 1:30-4:30

SENIOR - 40 STATIONS

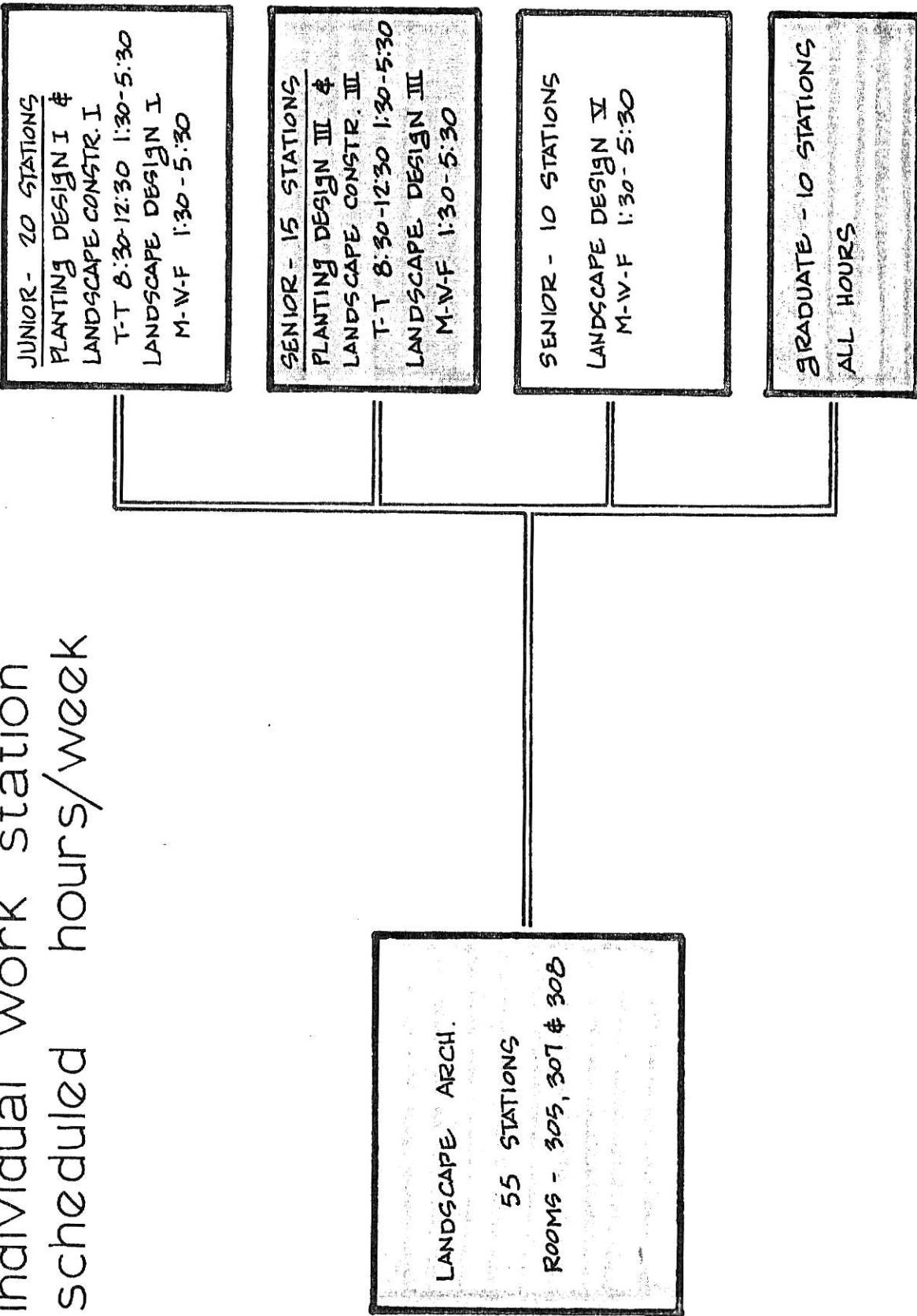
ARCH. DESIGN V

M-T-W-T-F 1:30-4:30

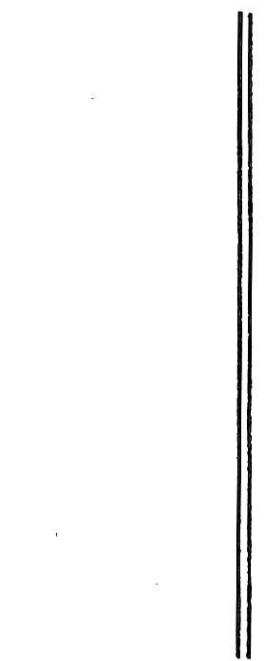
GRADUATE - 15 STATIONS

ALL HOURS

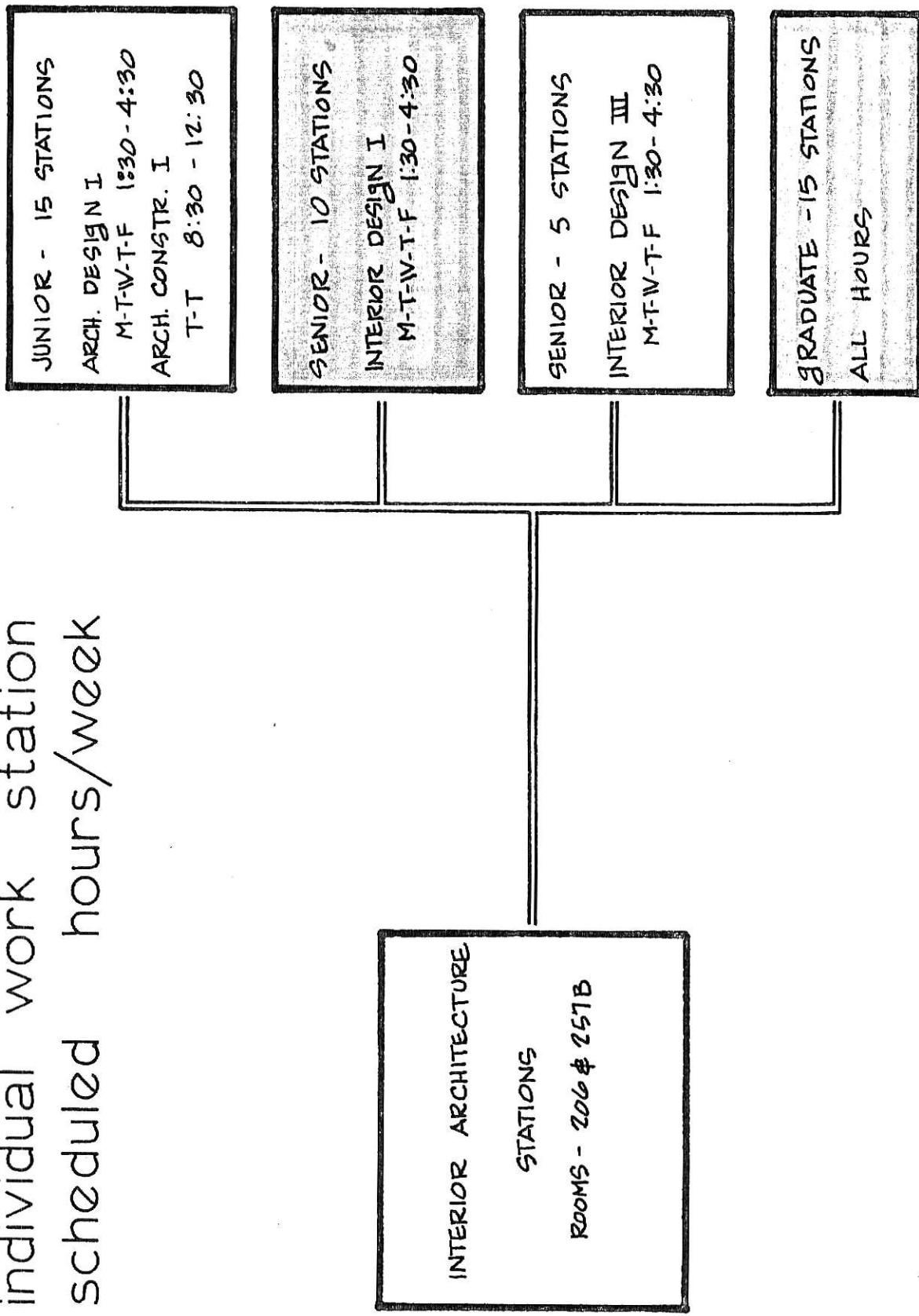
individual work station  
scheduled hours/week



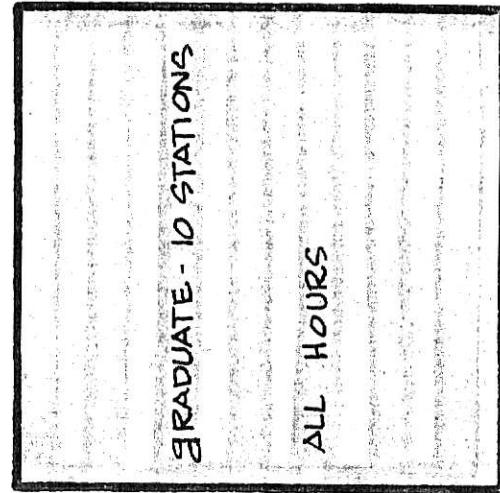
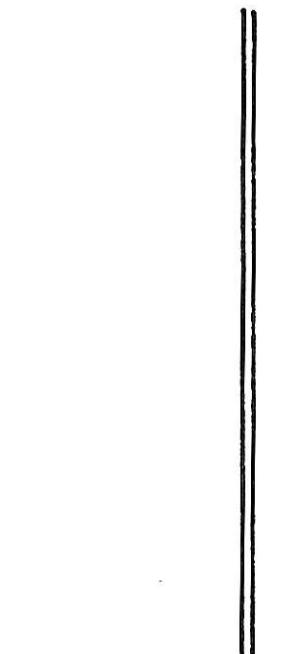
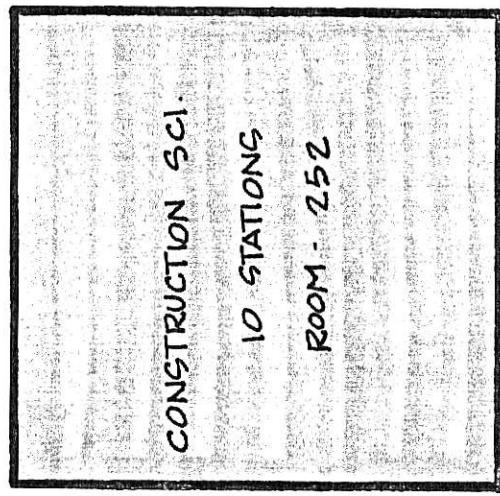
individual work station  
scheduled hours/week



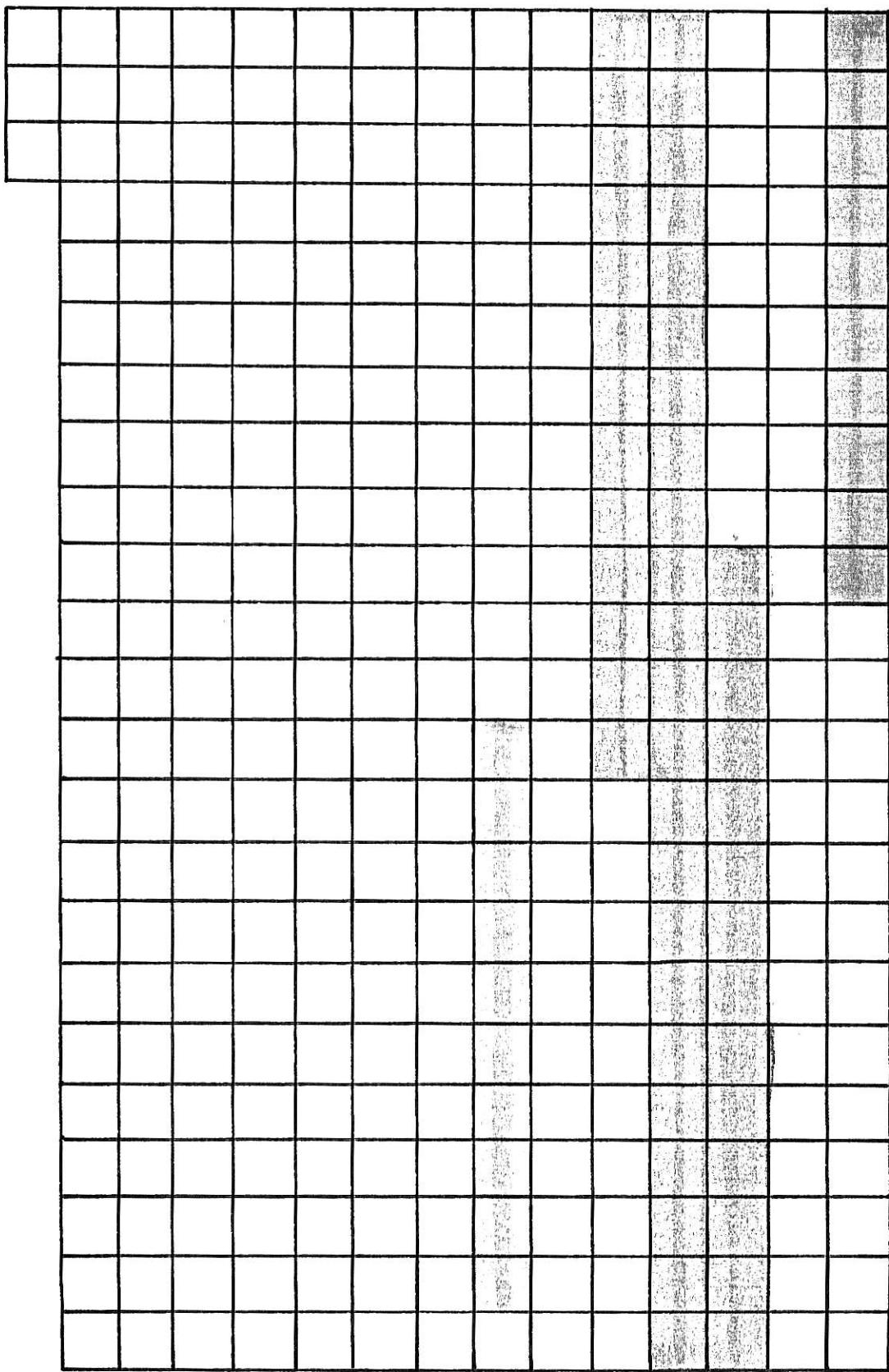
individual work station  
scheduled hours/week



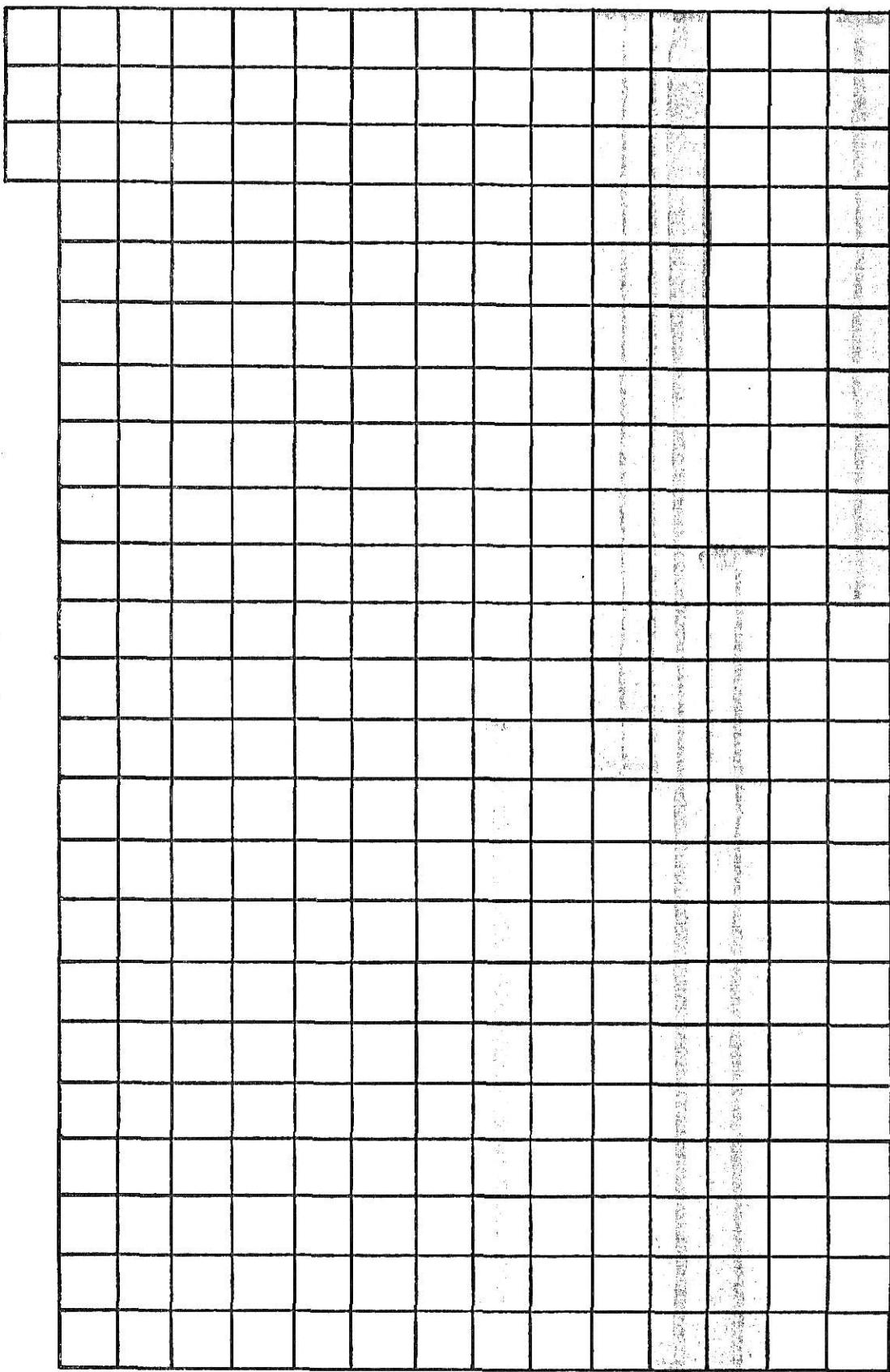
individual work station  
scheduled hours/week



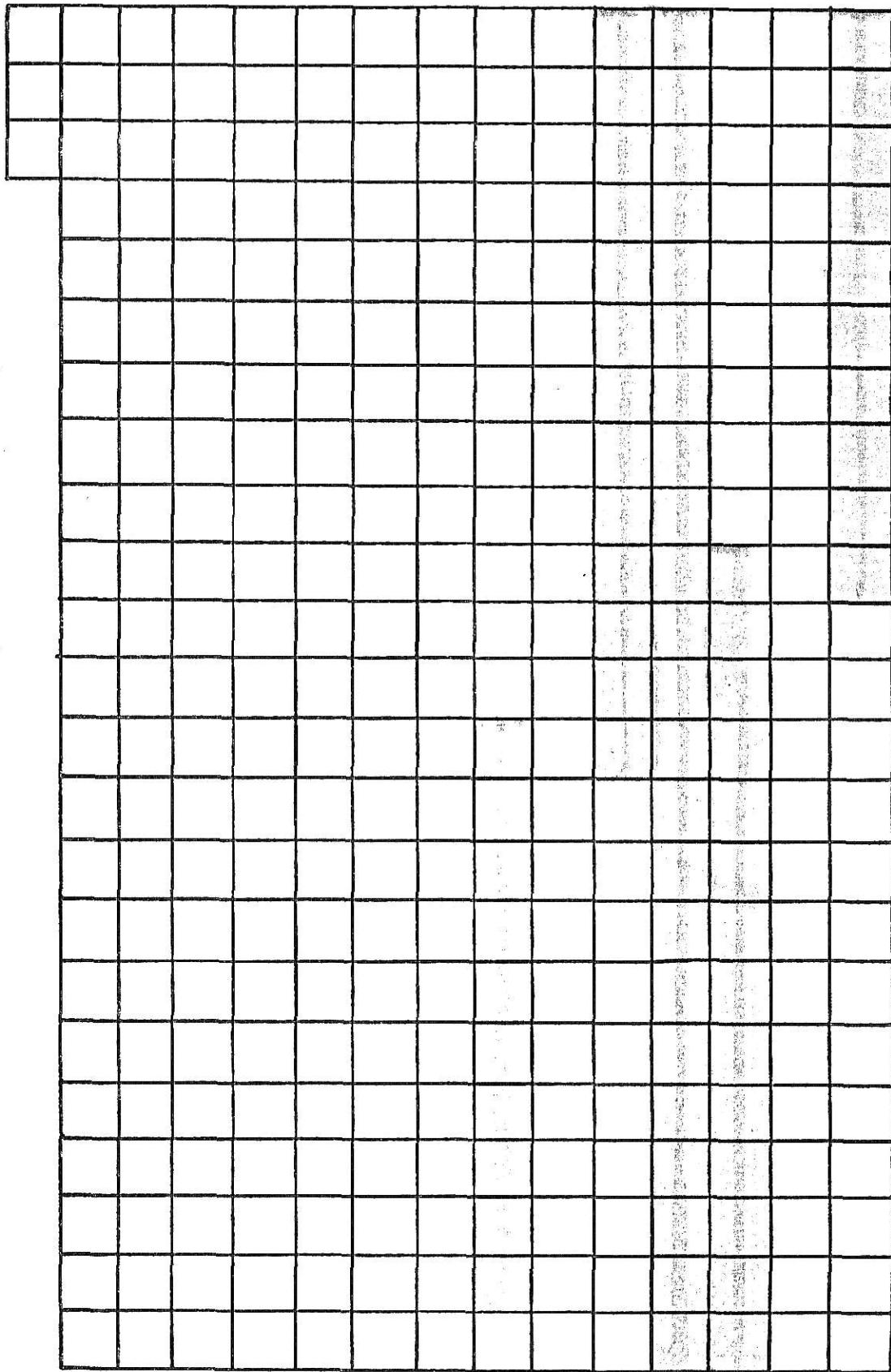
325 work stations - M/W/F 8:30 - 1:30



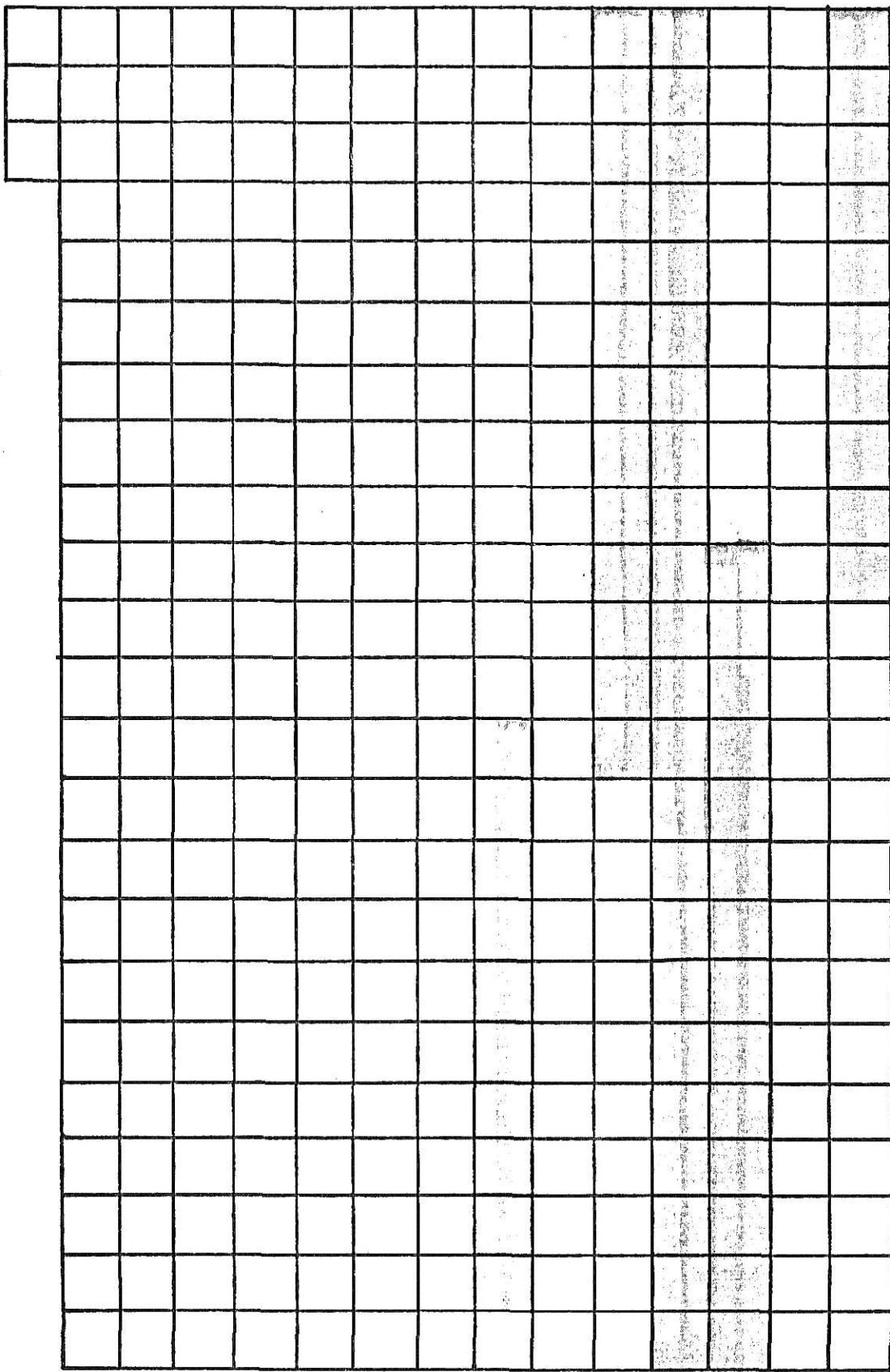
325 work stations - M/W/F 9:30-10:30



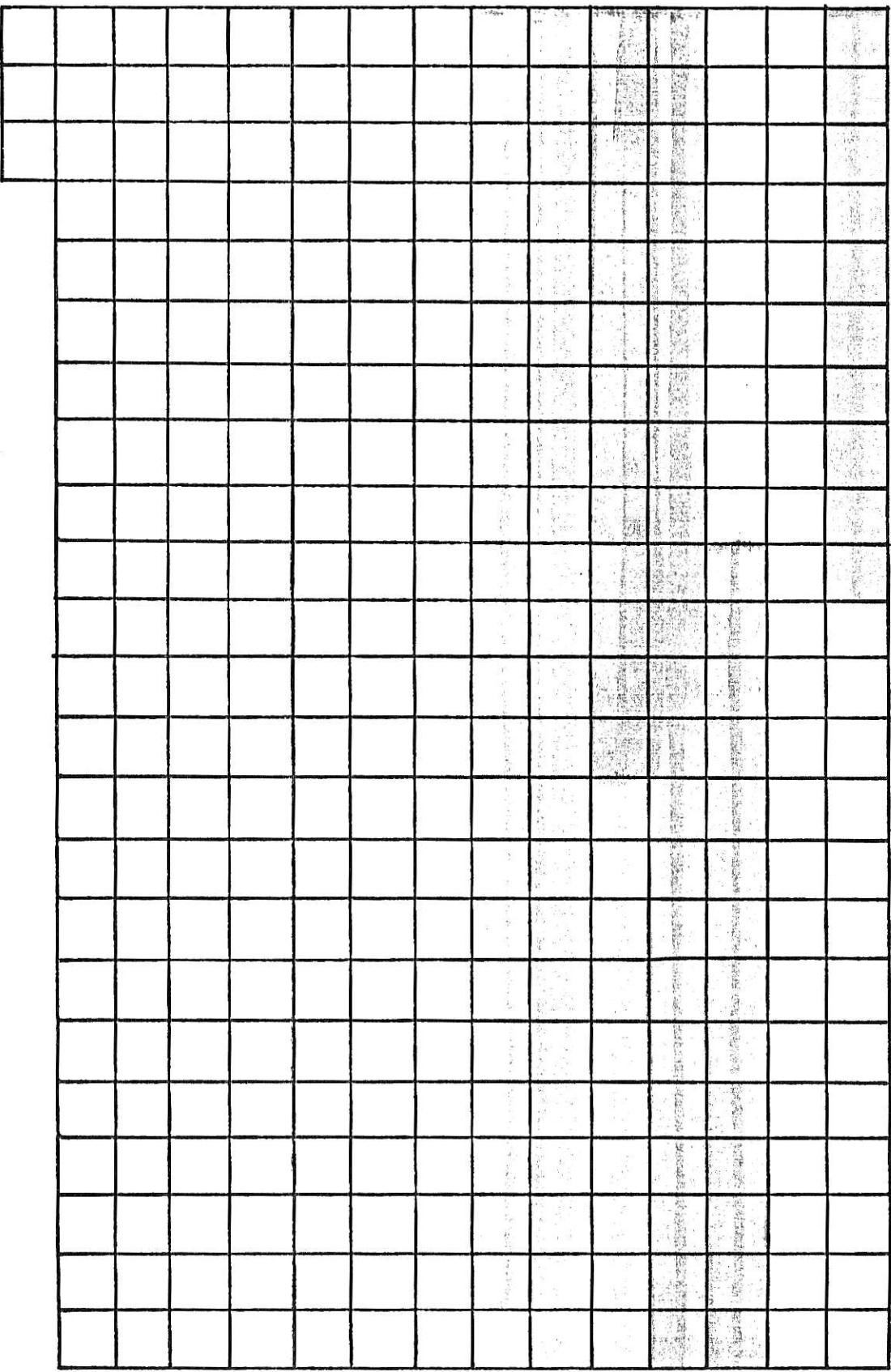
325 work stations - M/W/F 10:30 - 11:30



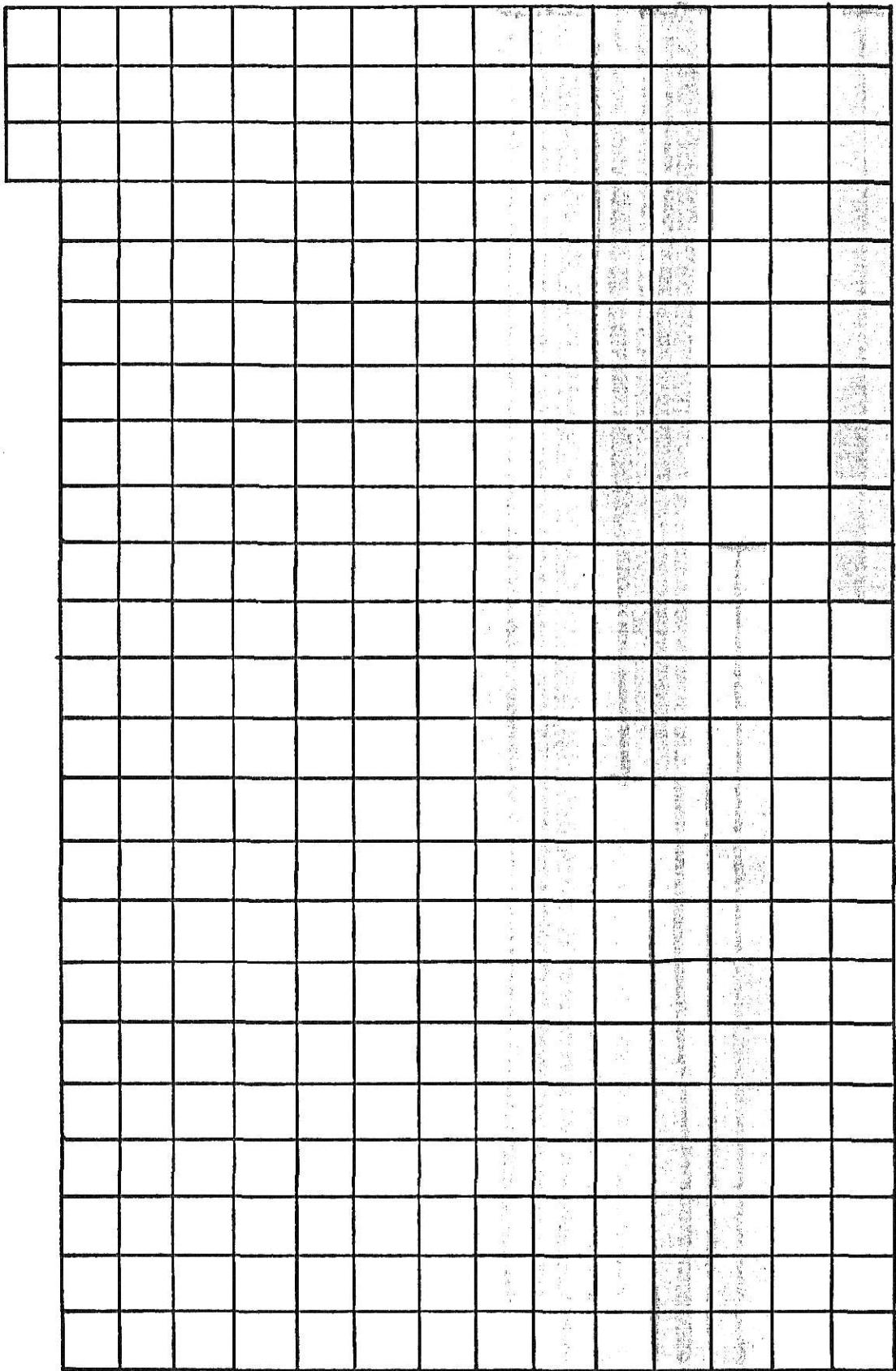
325 work stations - M/W/F 11:30 - 12:30



325 work stations - M/W/F 1:30-2:30

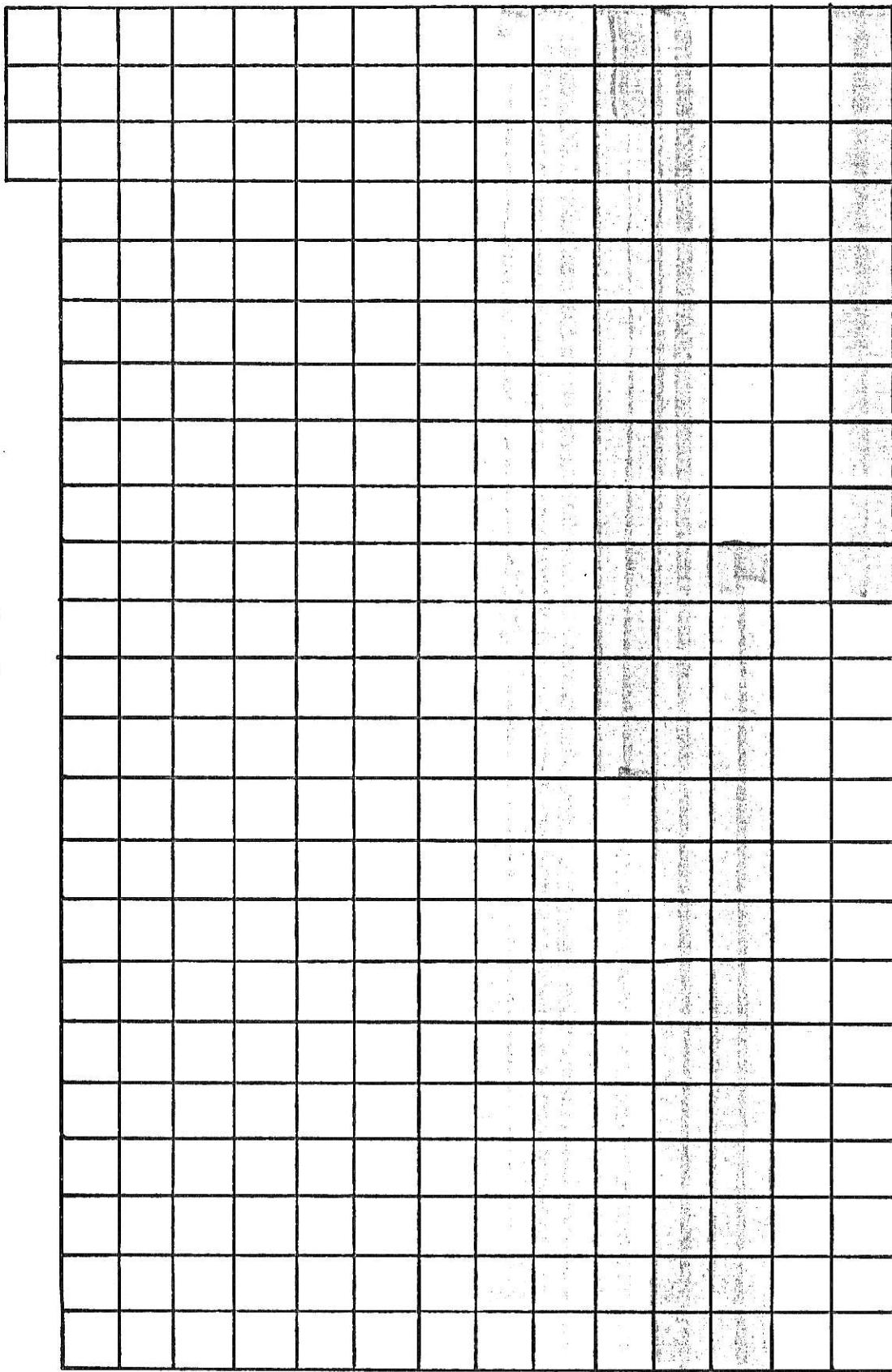


325 work stations -  $M/W/F$  2:30- 3:30

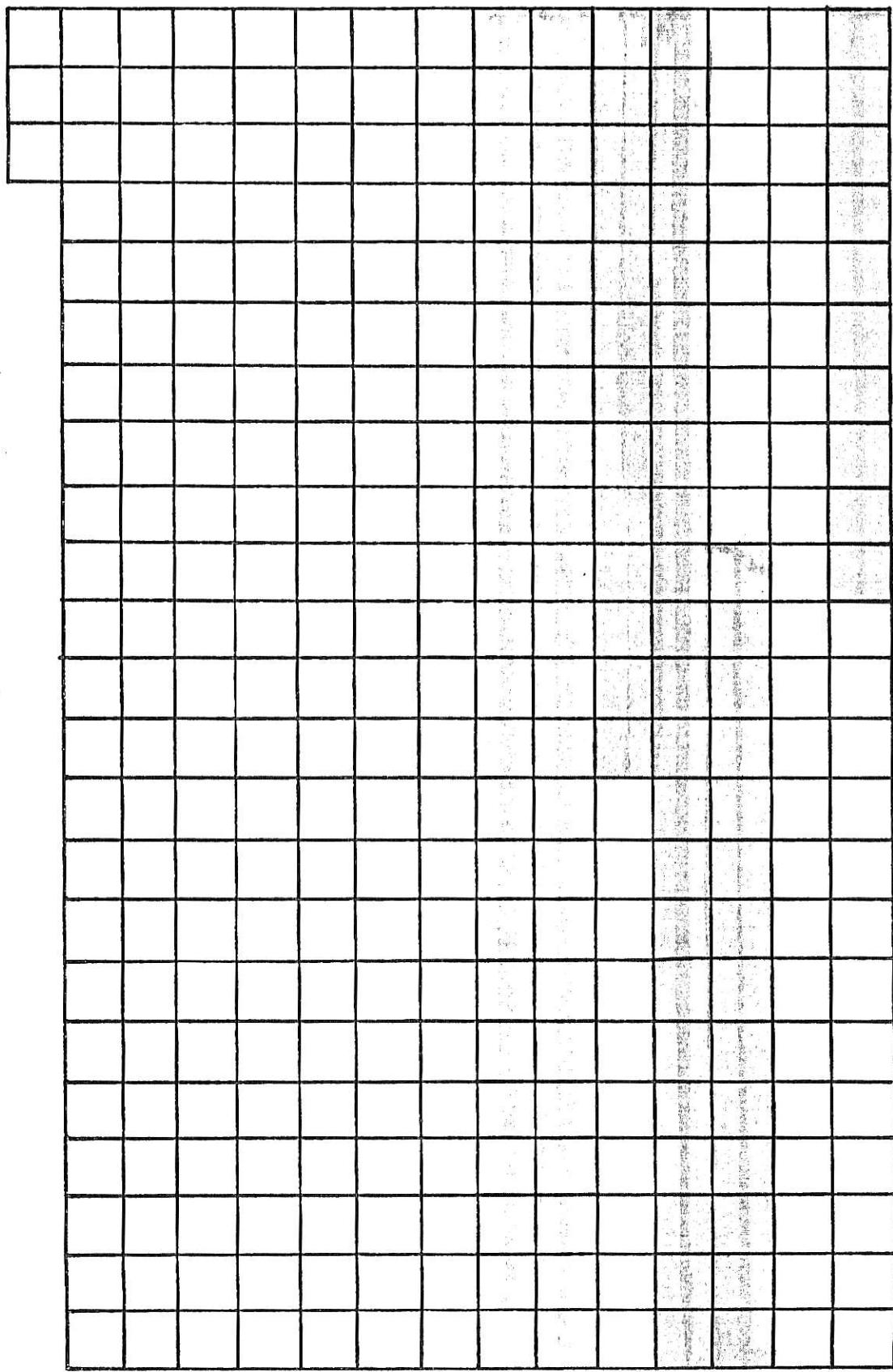




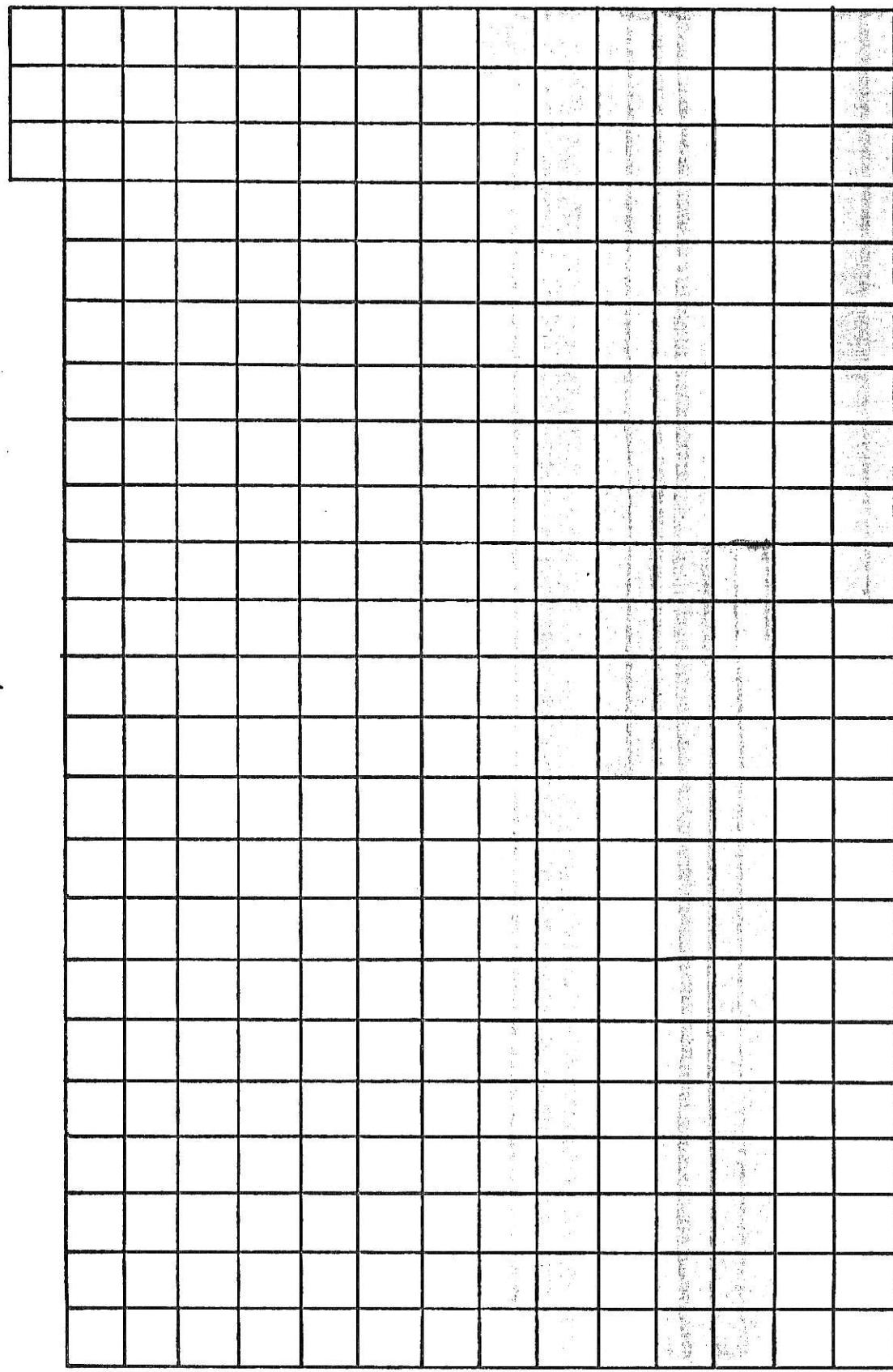
325 work stations - M/W/F 4:30-5:30



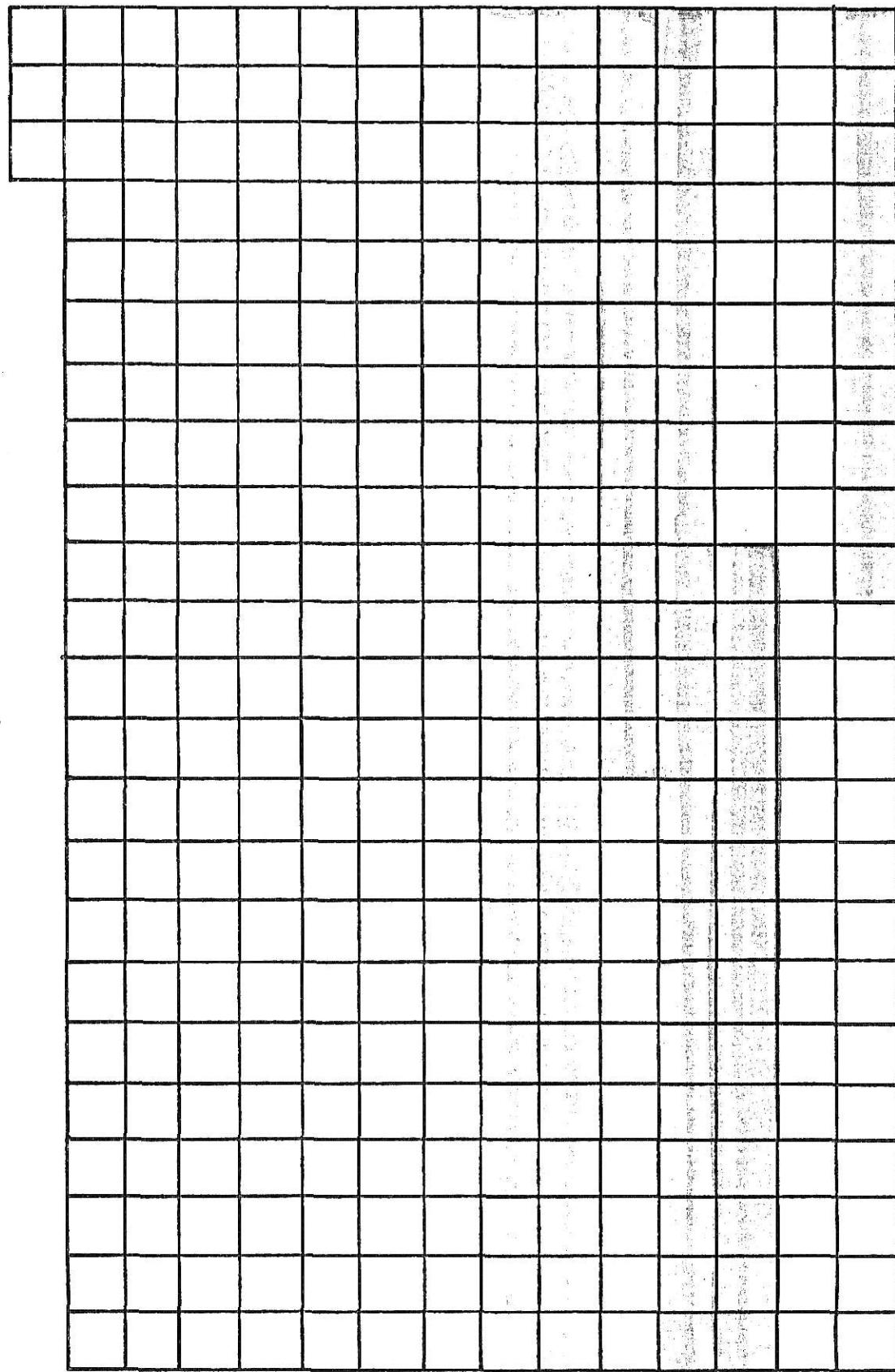
325 work stations -  $\tau/\tau_H$  8:30-9:30



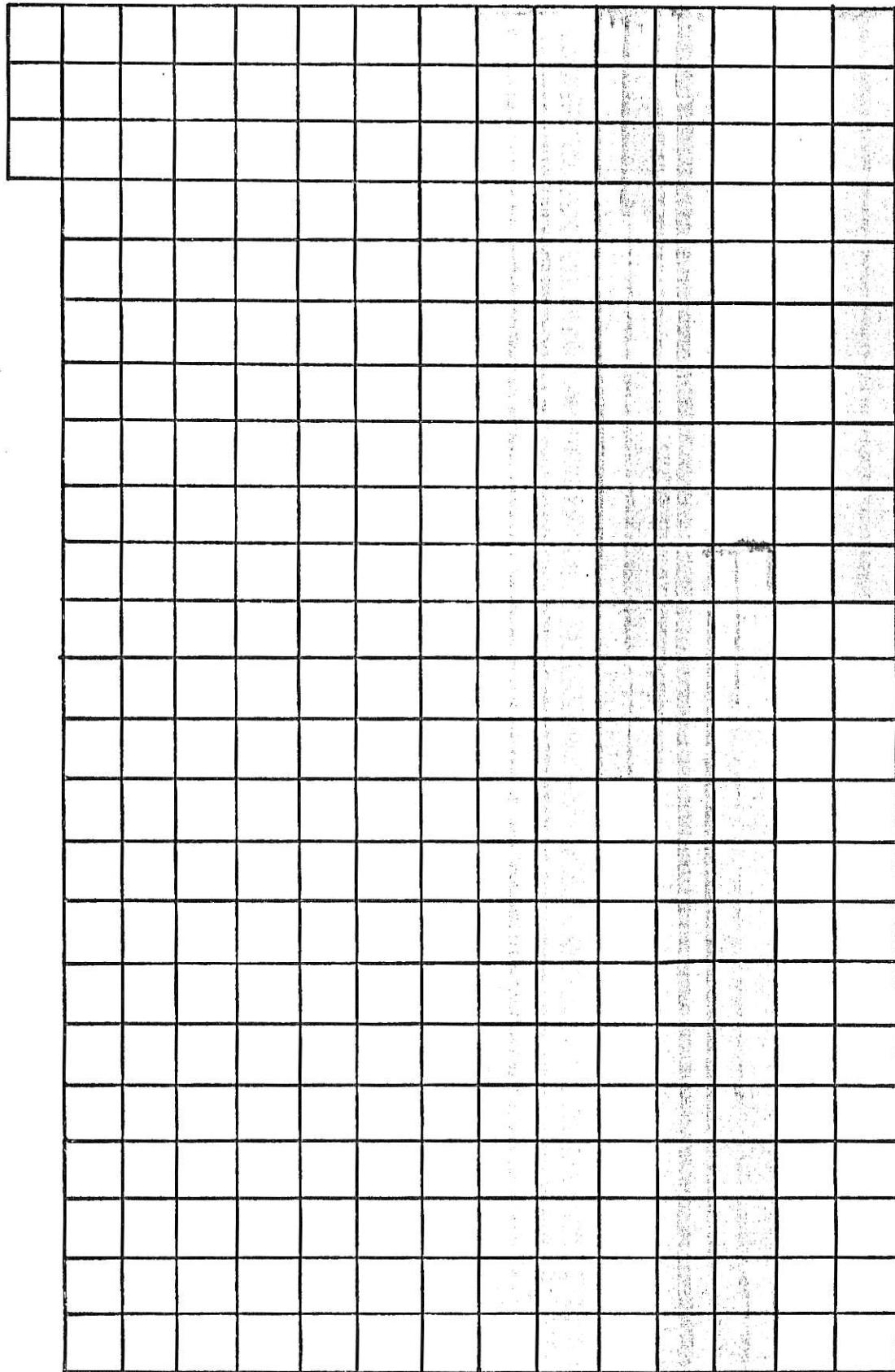
325 work stations -  $\tau/\tau_H$  1:30-10:30



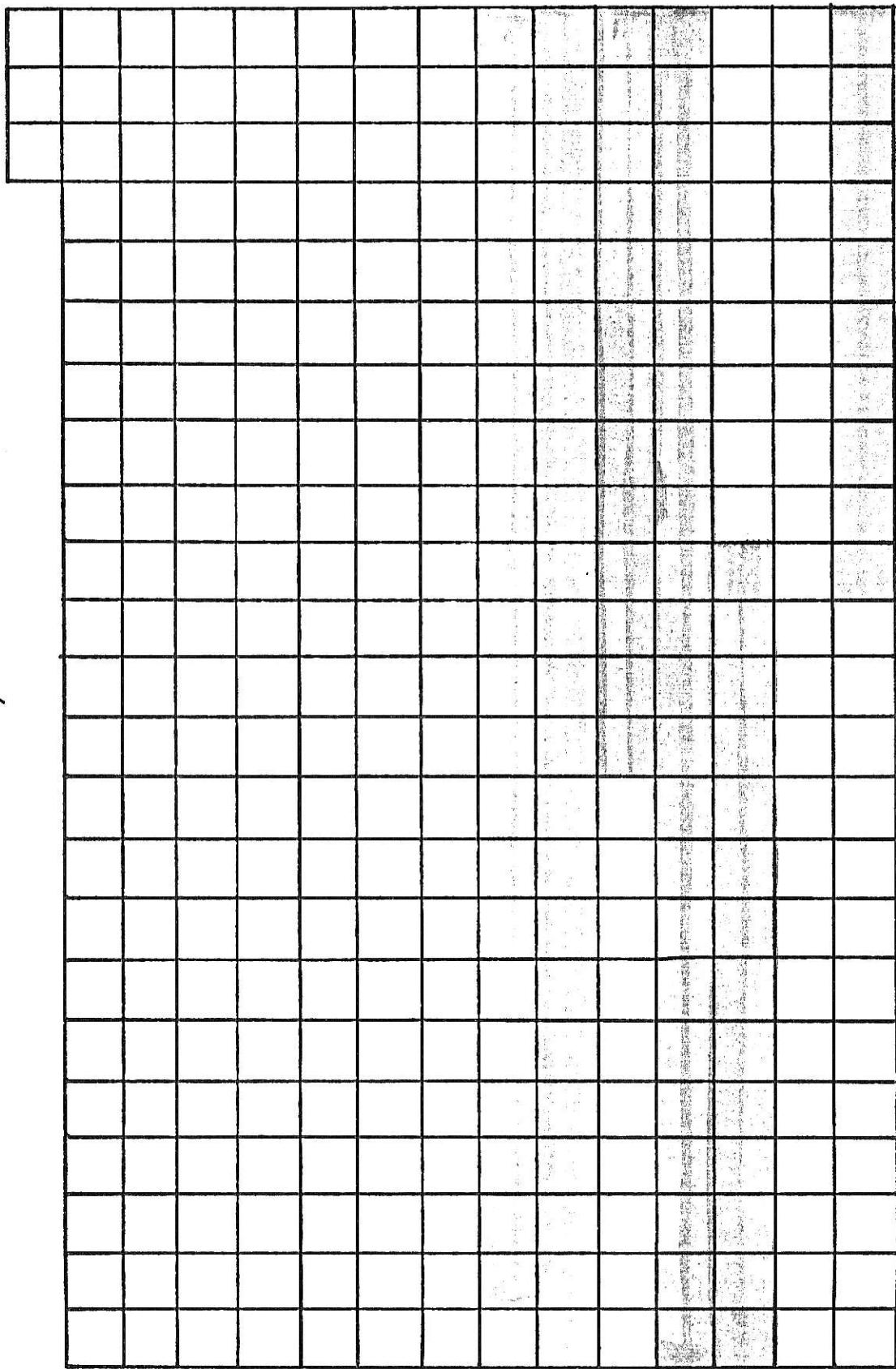
325 work stations -  $\tau/\tau_H$  10:30 - 11:30

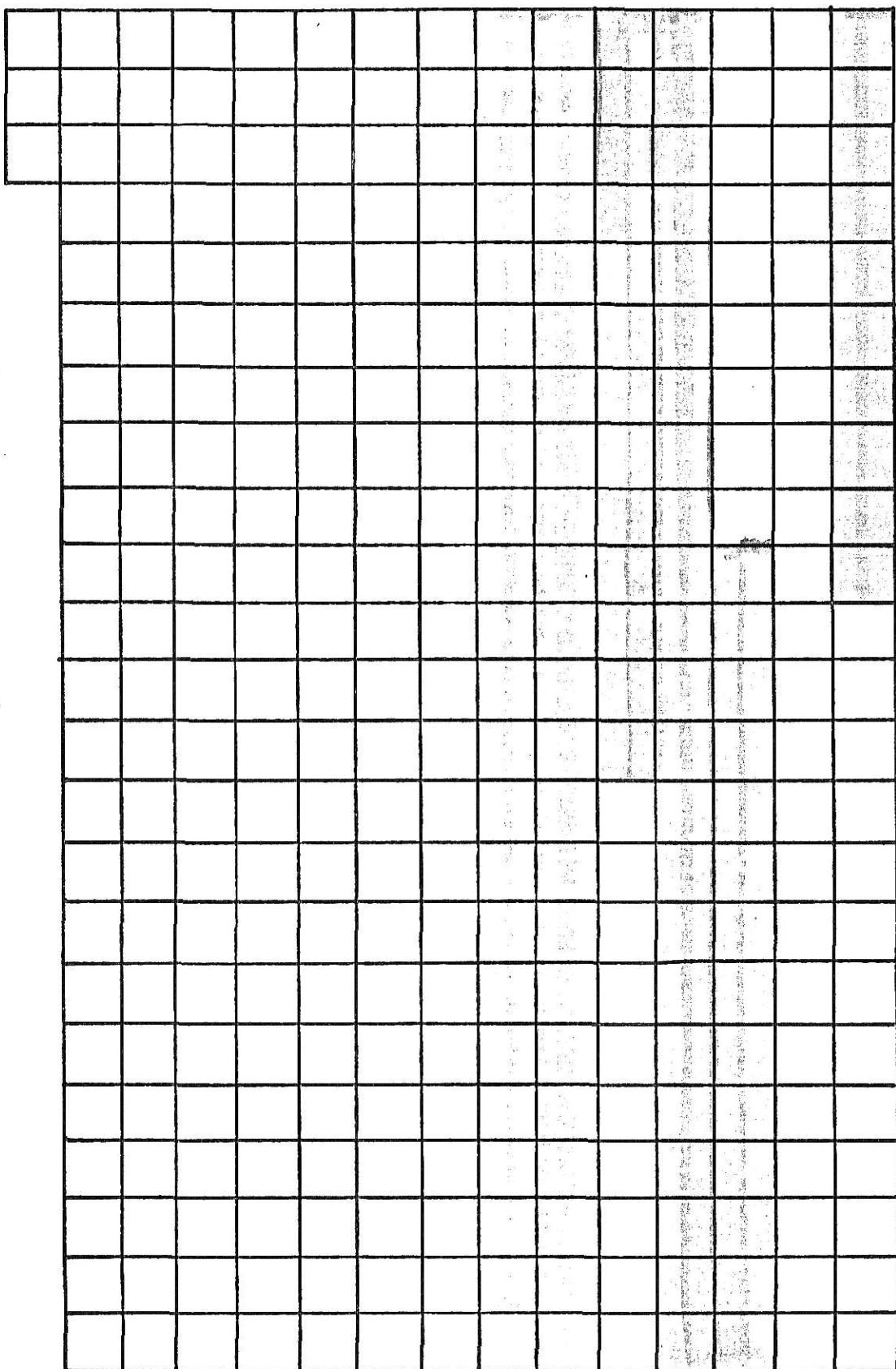


325 work stations -  $\tau/\tau_H$  11:30 - 12:30

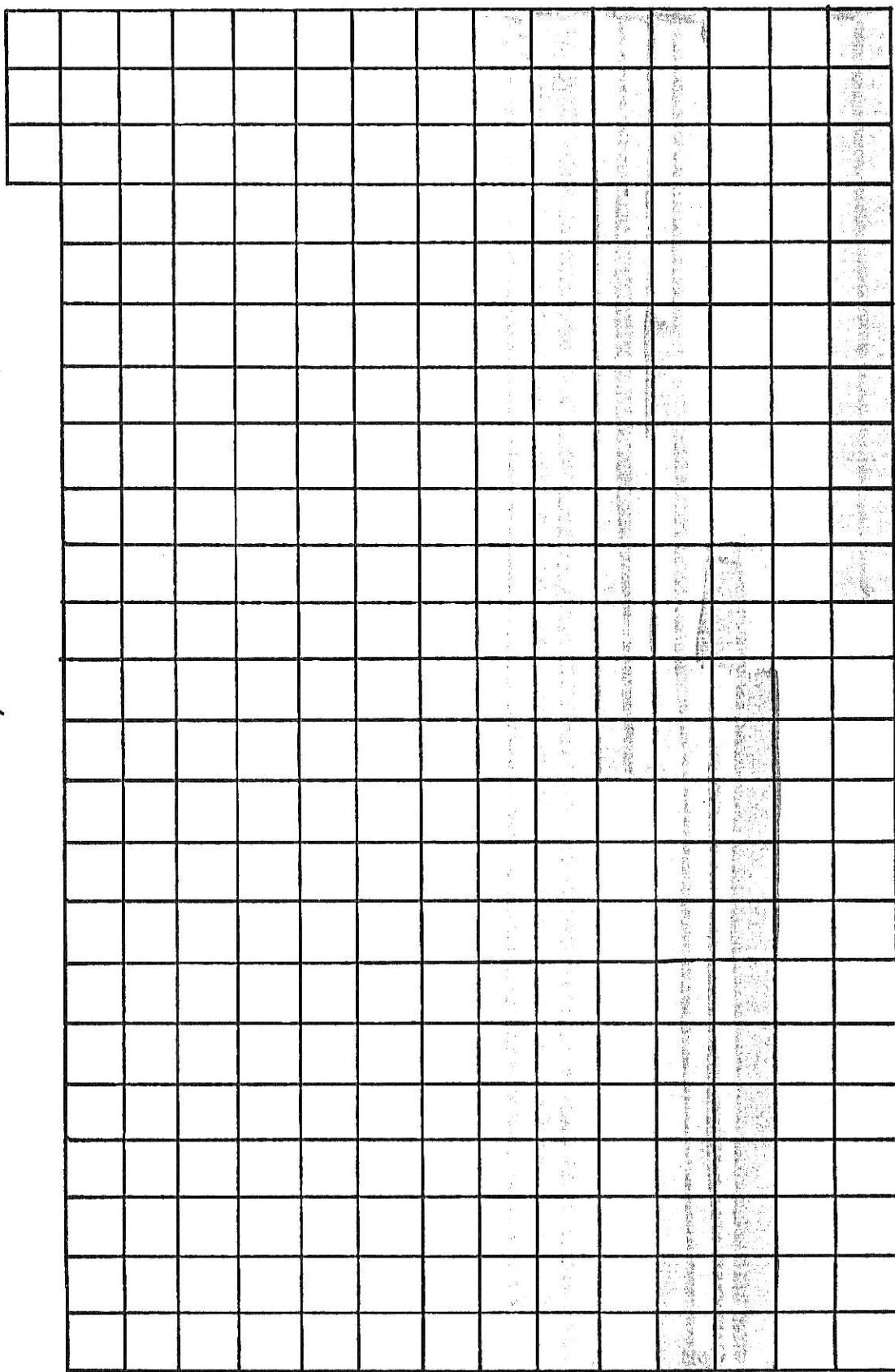


325 work stations -  $\tau/\tau_H$  1:30- 2:30

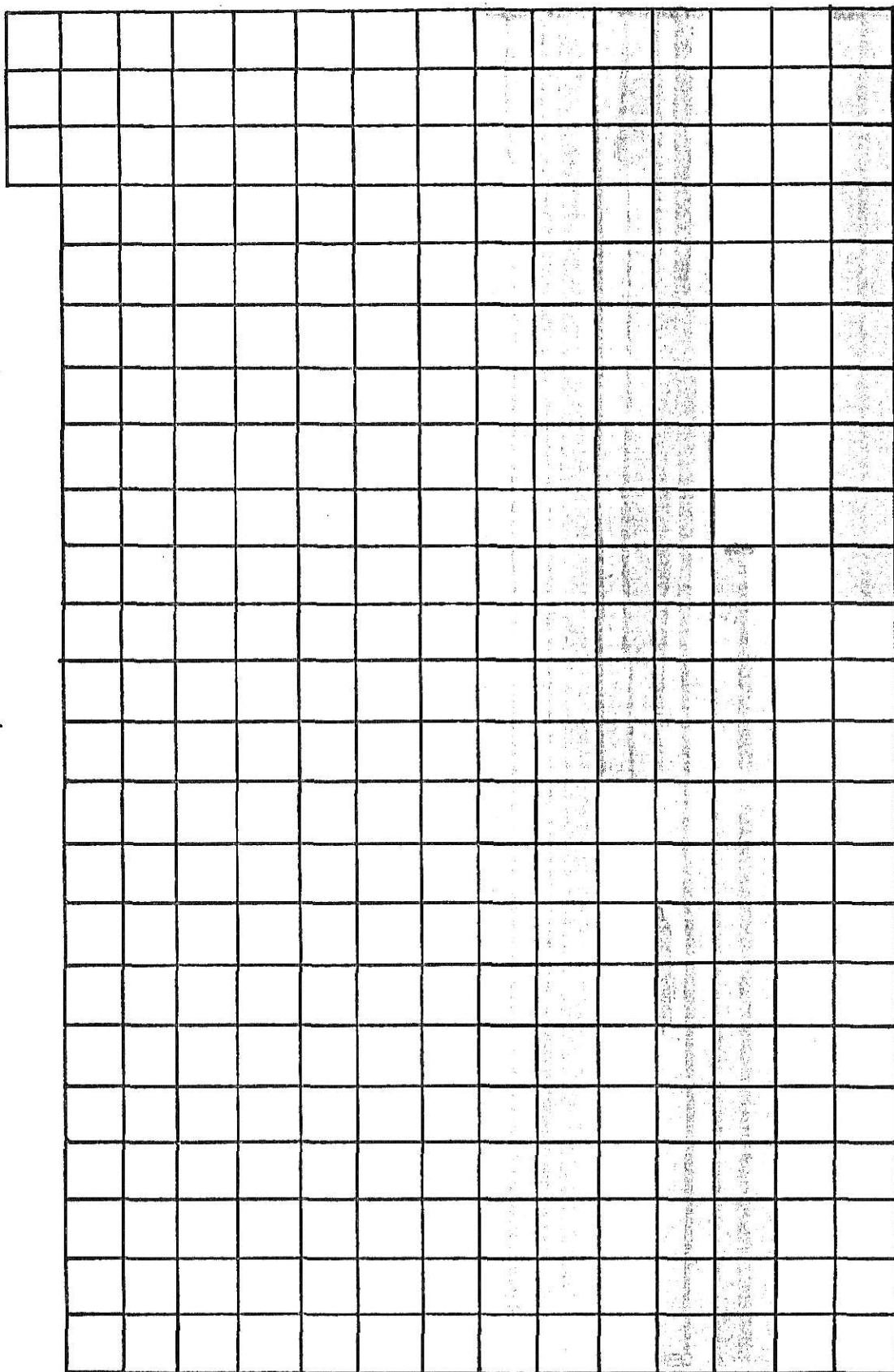


325 work stations -  $\tau/\tau_H$  2:30 - 3:30

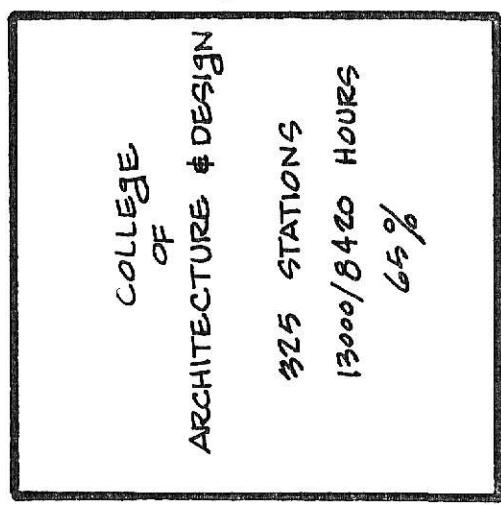
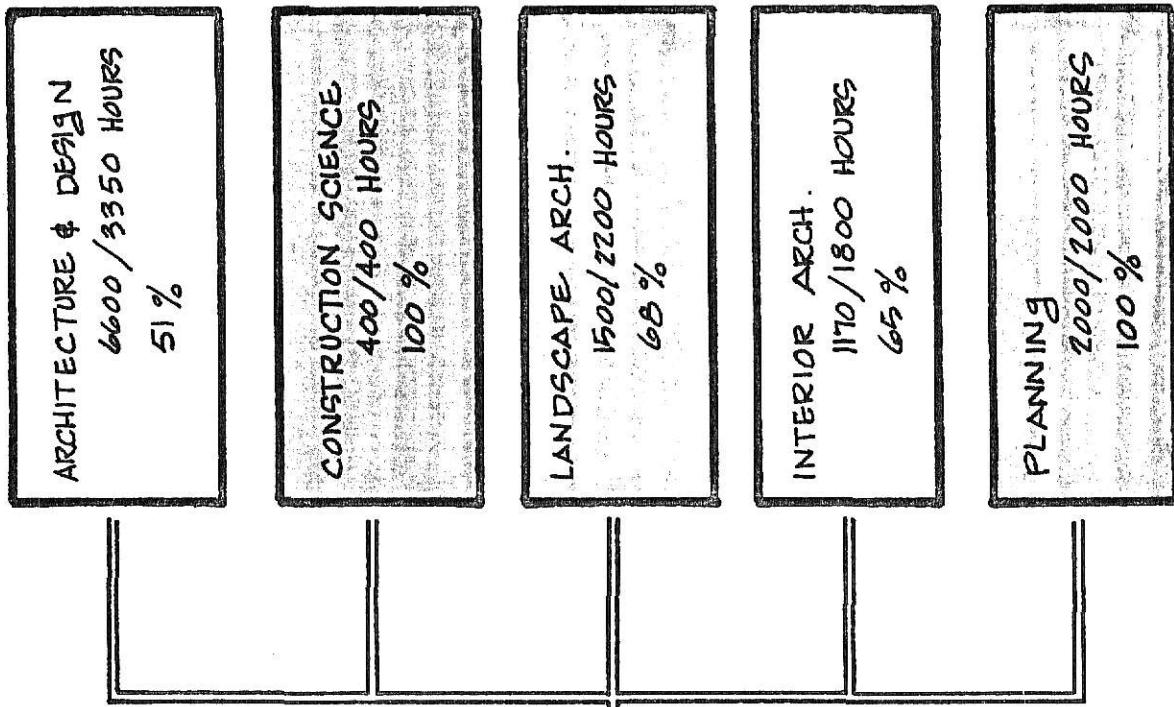
325 work stations -  $\tau / \tau_H$  3:30 - 4:30



325 work stations -  $\tau/\tau_H$  4:30 - 5:30



individual work stations  
scheduled use



projected area

## PROJECTED AREA

Plates CXXII-CXXX represent a projected area based on the existing curriculum and the projected enrollment. The individual work station and seminar concept has been implemented in this scheme.

I have taken all lecture rooms, seminar rooms, shop areas, and cross over areas away from the departments and placed them in College general. The departments will only possess areas required to contain their needed work stations. All College general area must be scheduled by the departments. The hatch marked area on Plates CXXVI and CXXVII show that this is College general area (gray) with a department priority (color). The pink areas on Plates CXXVIII-CXXX show the lecture and seminar rooms which can be scheduled from College general. This scheme also adds an art center, a models laboratory and laboratories for acoustics, lighting, sanitations and thermal. These areas are desperately needed but have been given no consideration in the past because of lack of area. It is important to note the new student/area ratio shown on Plate CXVIII. The College of Architecture and Design will be located in the following rooms:

College of Architecture and DesignCollege General

<u>Room Number</u>	<u>Area per Square Foot</u>
4	1811
4A	1130
4B	340
4D	1073
4E	557
63	3307
63A	120
63B	120
110A	197
110B	1145
111	4537
111A	91
111B	192
112	3215
112A	363
113	408
114	835
114A	408
115	114
115A	124
118	720
101	2792
204	837
205	594
212	263
212A	116
212B	196
212C	294
251	892
253	112
253A	213
255	201
257	1140
303	924
303A	372
303B	740
303C	122
303D	120
303E	95
303F	789

College General (contd.)

<u>Room Number</u>	<u>Area per Square Foot</u>
320A	201
320B	212
320C	210
321A	233
323	3019
322	2468
322A	128
306	748
314	233
318	229
	<u>38,660 Total</u>

Department of Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
4C	989
108	3697
108B	559
108C	600
108D	209
110	2344
203	346
210	291
211	237
211A	330
211B	190
214	251
215	244
216	274
217	161
218	1230
219	1001
260	1988
260A	788
260B	207
260C	768
	<u>16,496 Total</u>

Basic Studies

<u>Room Number</u>	<u>Area per Square Foot</u>
254A	184
254B	160
254C	160
254D	160
254E	160
254H	1272
254I	1712
254J	1222
317	736
	<u>5766 Total</u>

Department of Landscape Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
305	1074
307	1221
308	1001
308A	84
309	194
310	234
311	240
312	242
313	233
	<u>4523 Total</u>

Department of Interior Architecture

<u>Room Number</u>	<u>Area per Square Foot</u>
206	2268
207	192
208	244
209	175
257B	1620
	<u>4499 Total</u>

Department of Regional and Community Planning

<u>Room Number</u>	<u>Area per Square Foot</u>
301	1916
302	159

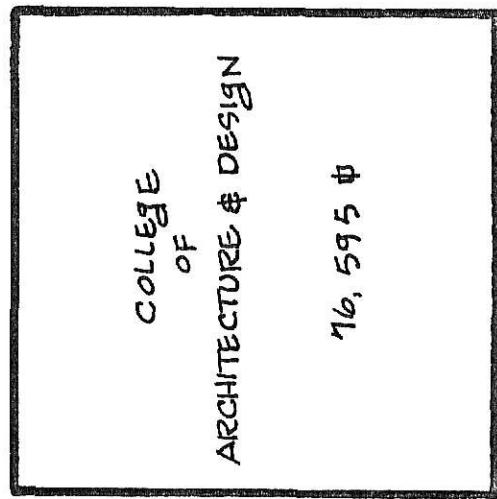
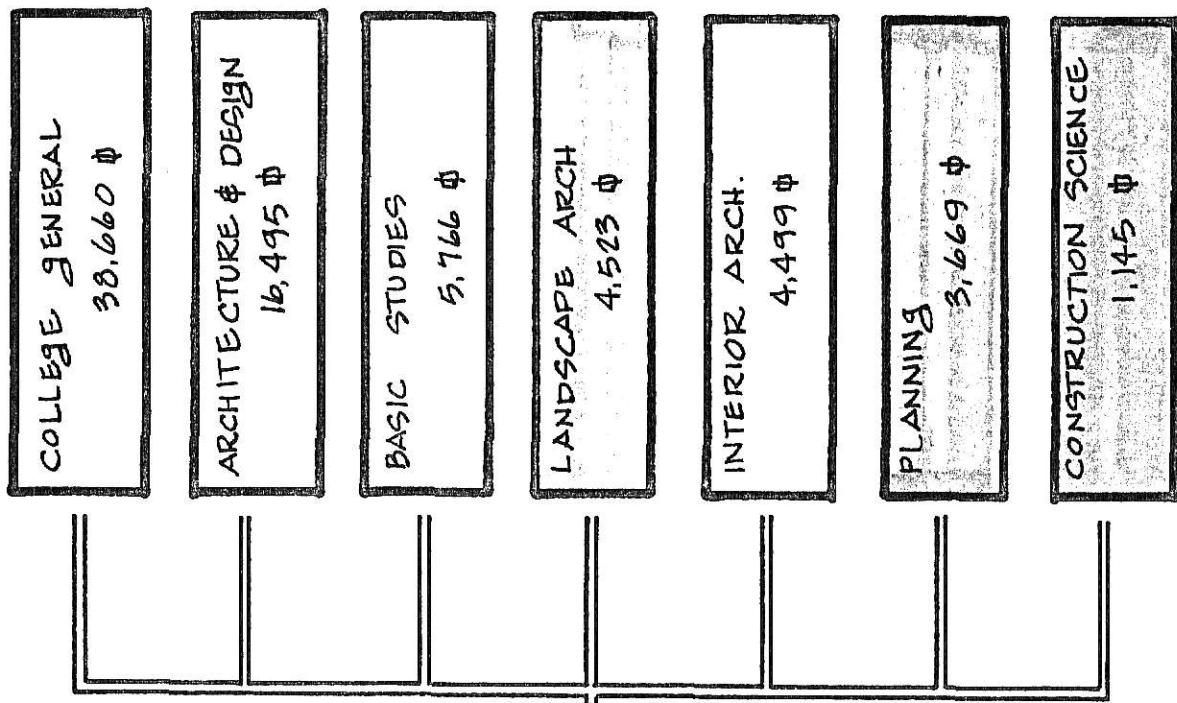
Department of Regional and Community Planning (contd.)

<u>Room Number</u>	<u>Area per Square Foot</u>
302A	244
302B	248
302C	169
320	933
	<u>3669 Total</u>

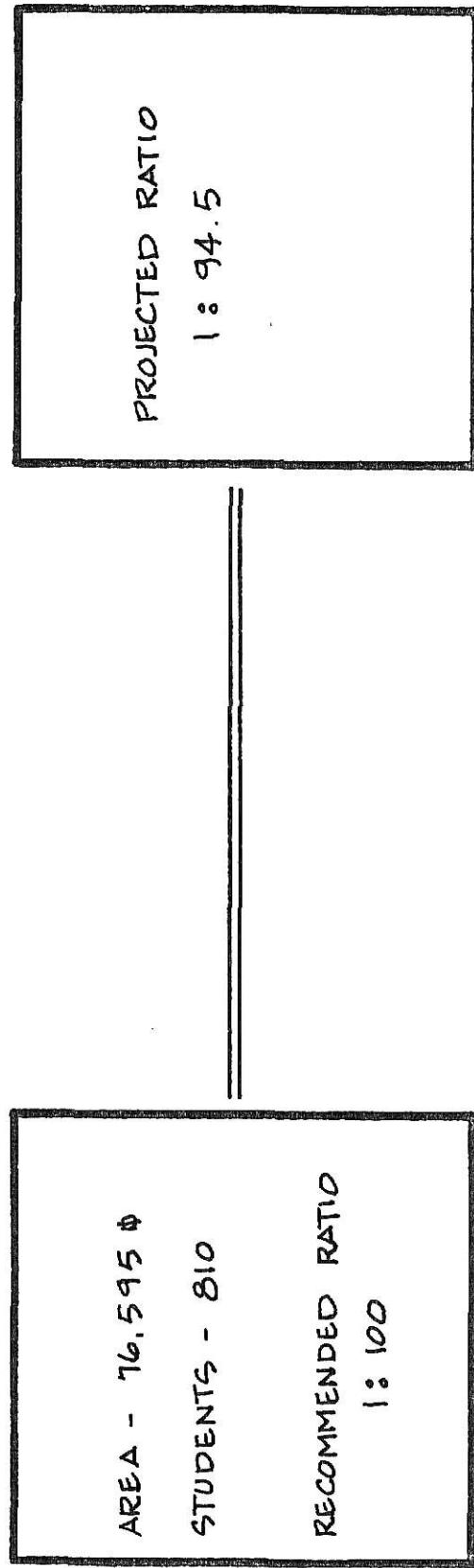
Department of Construction Science

<u>Room Number</u>	<u>Area per Square Foot</u>
213	110
213A	162
213B	100
213C	115
213D	233
252	425
	<u>1145 Total</u>

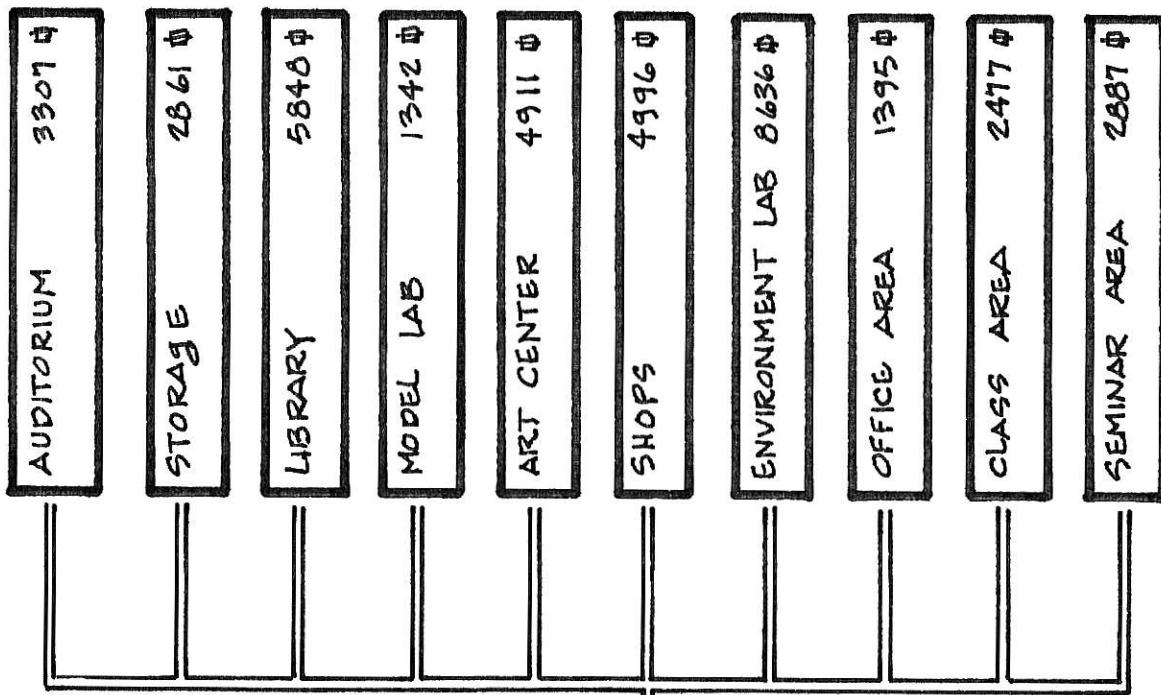
projected area



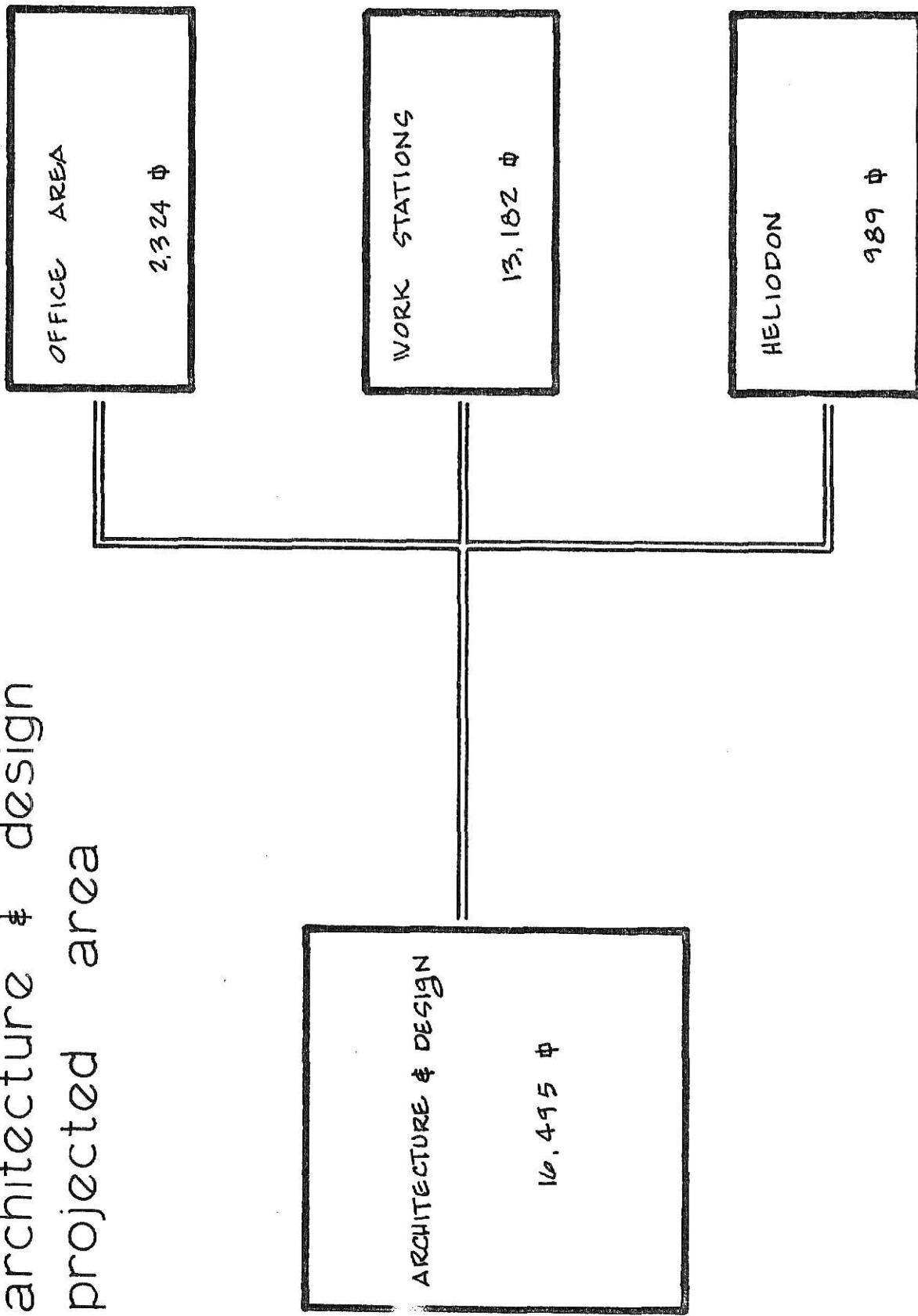
projected student-area ratio



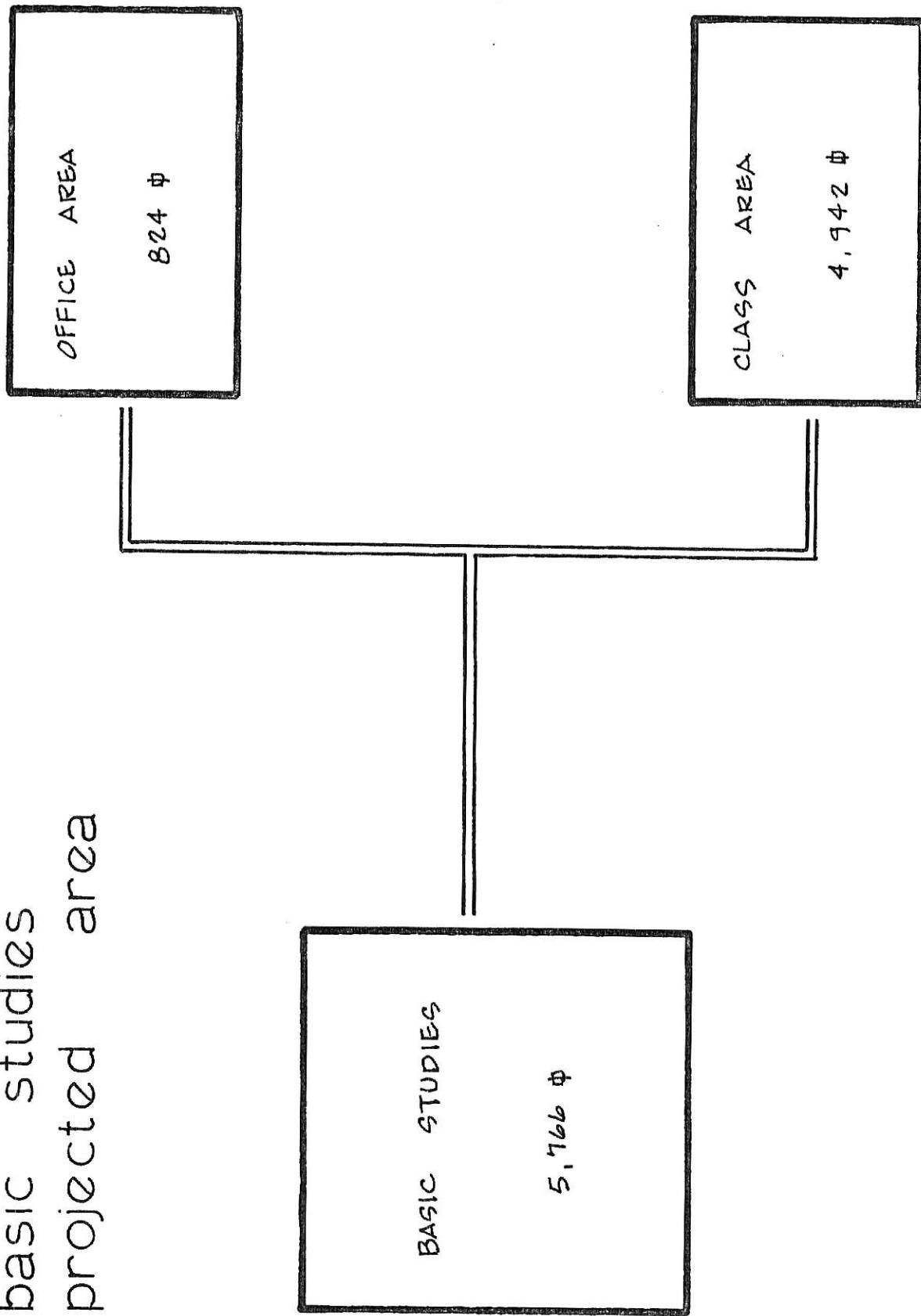
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projected area



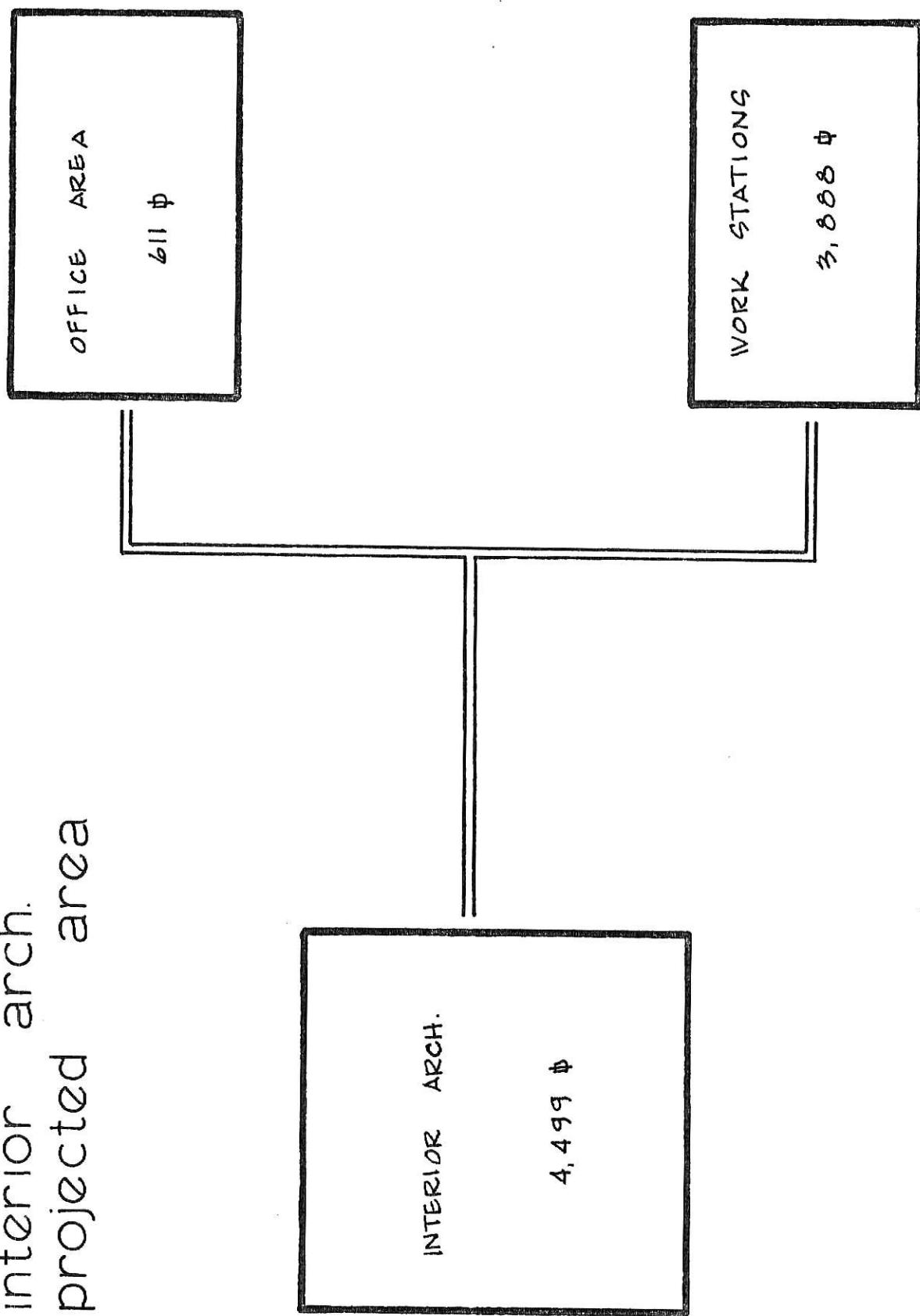
architecture & design  
projected area



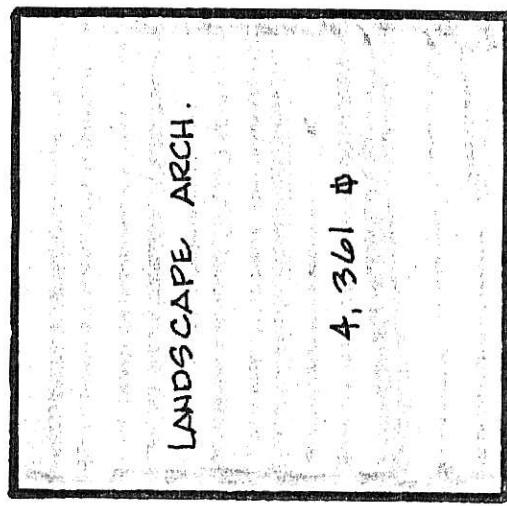
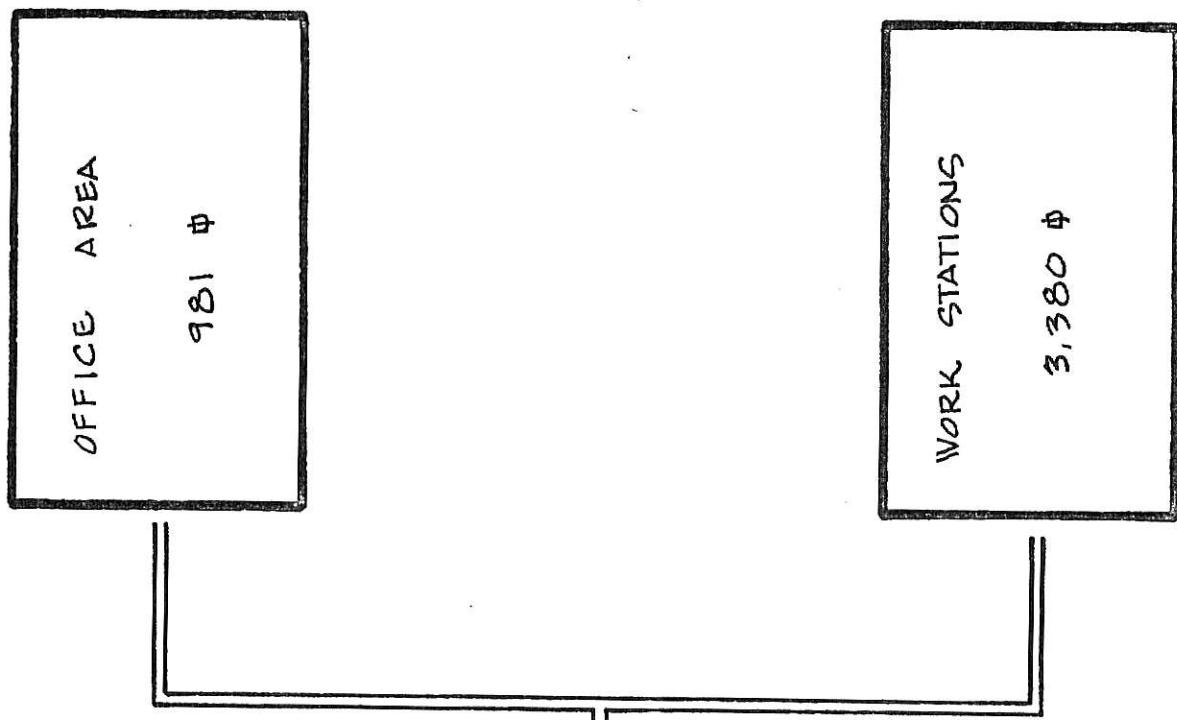
basic studies  
projected area



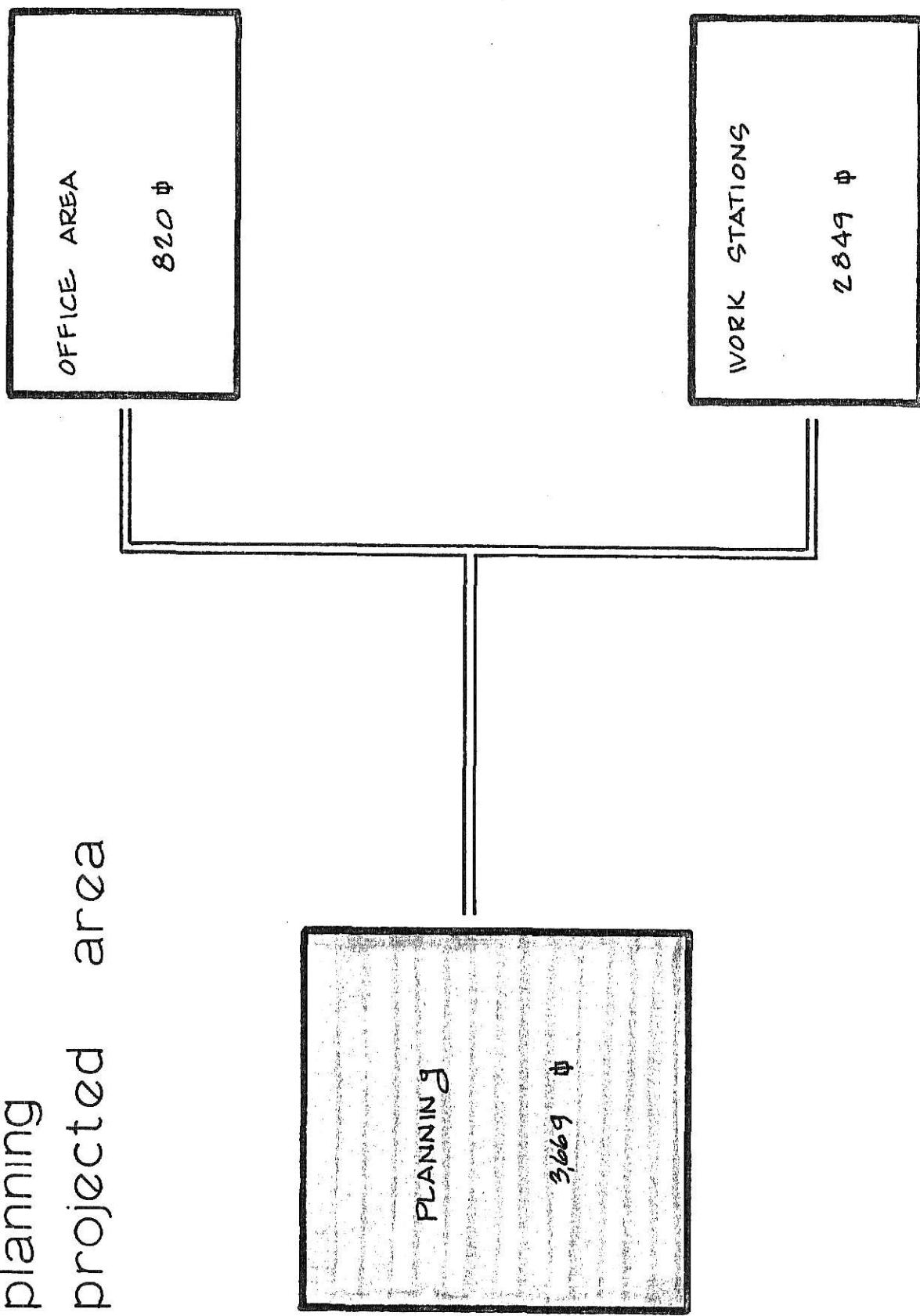
interior arch.  
projected area



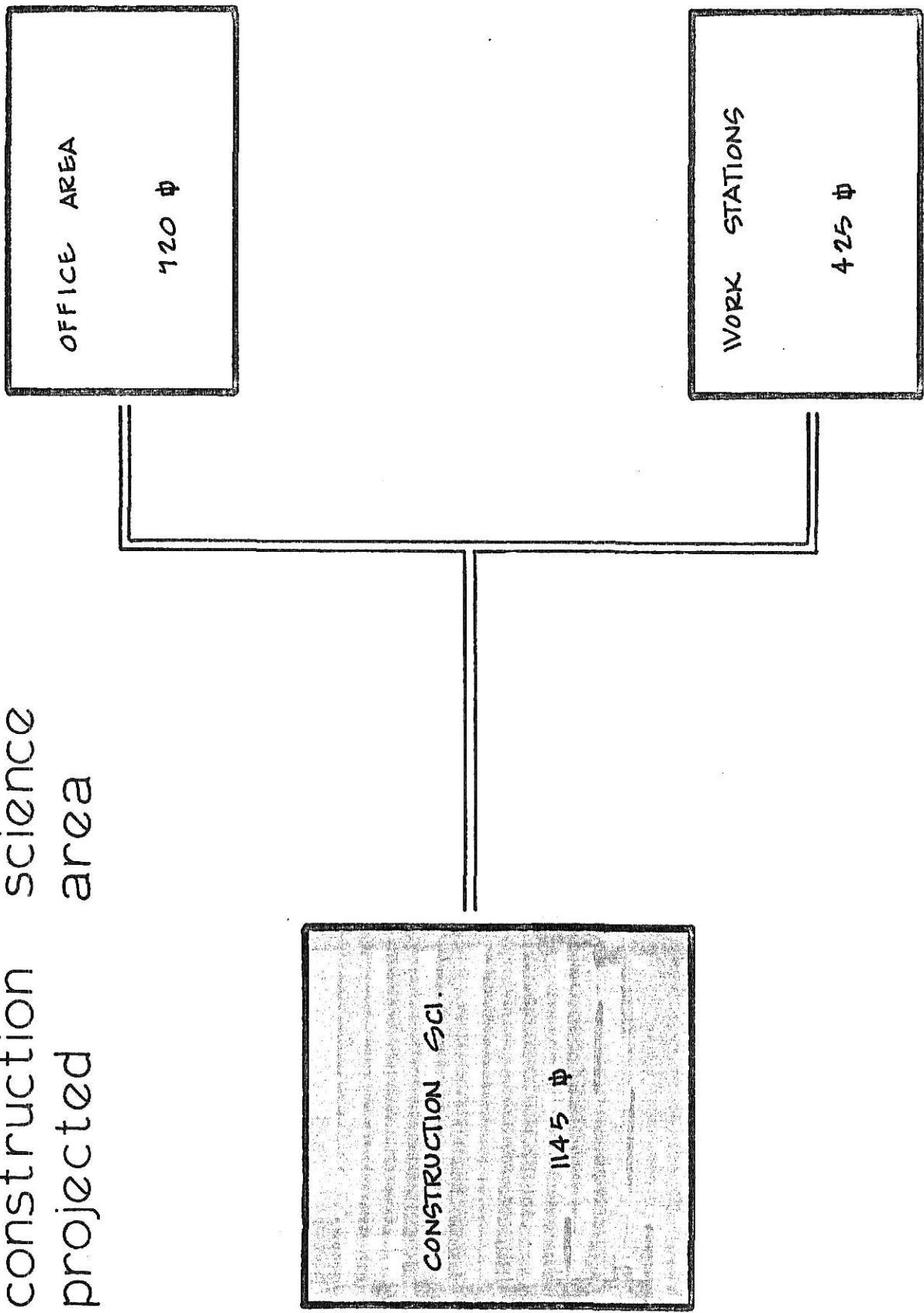
landscaped  
arch.  
projected  
area



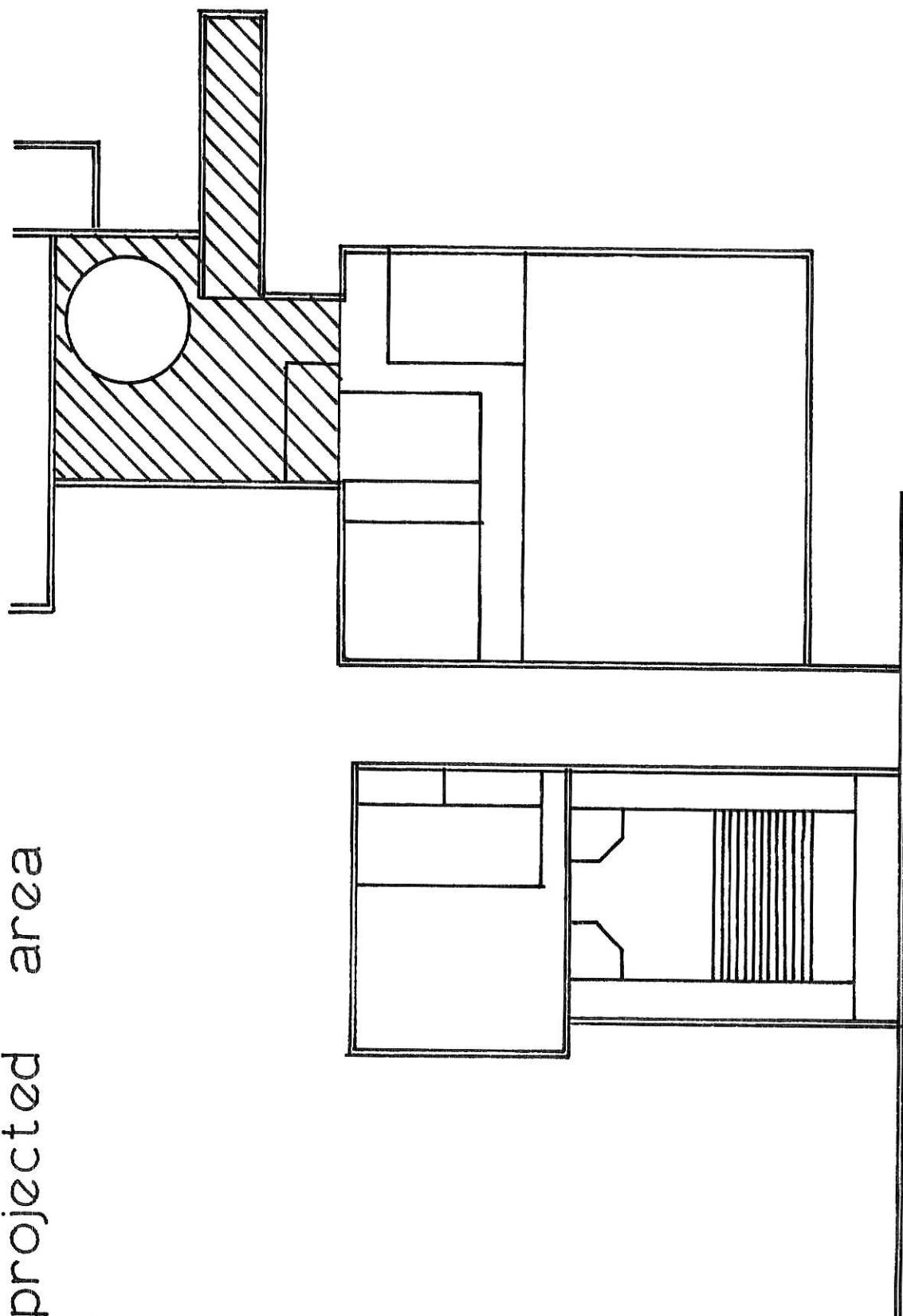
planning projected area



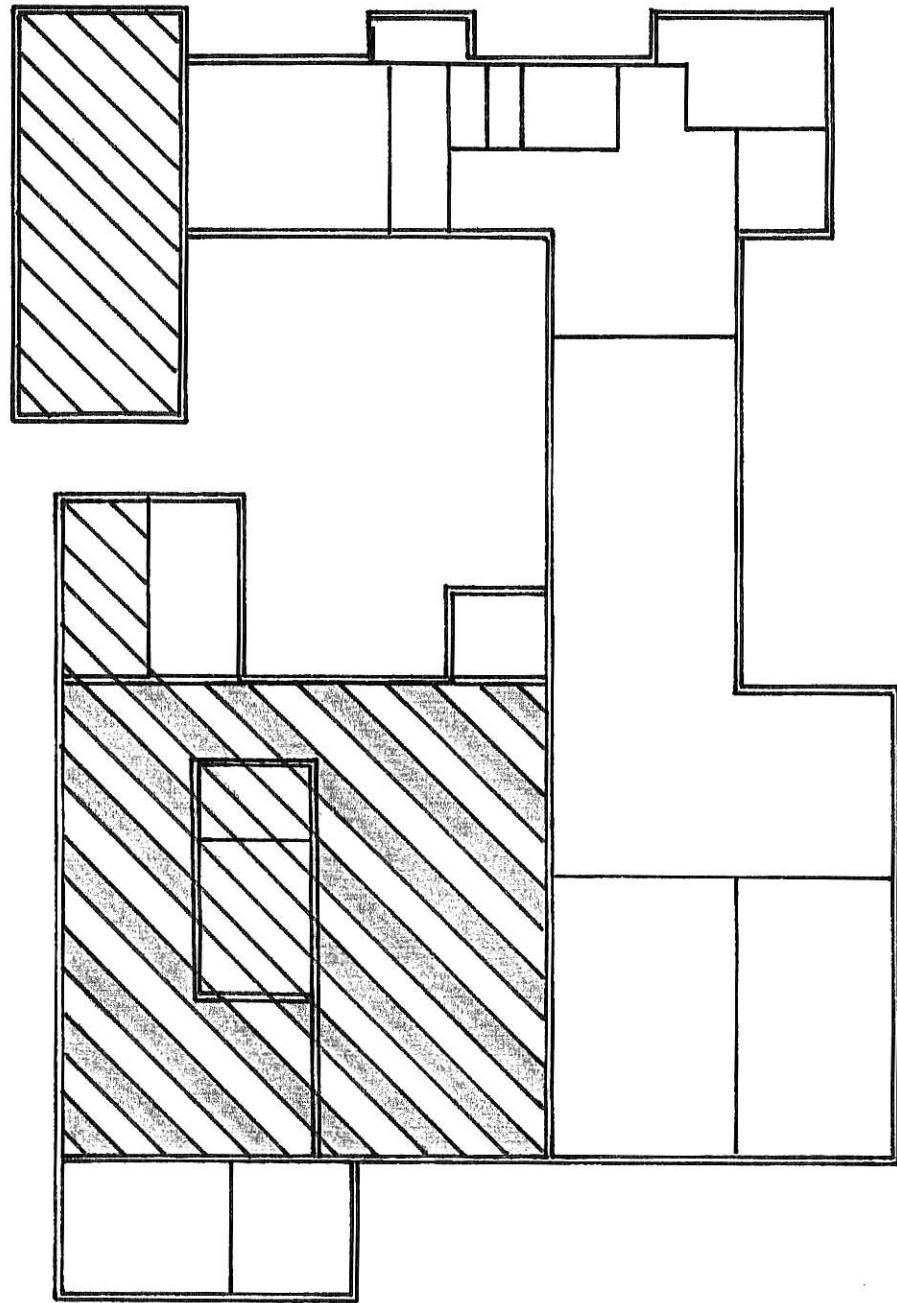
construction science  
projected area



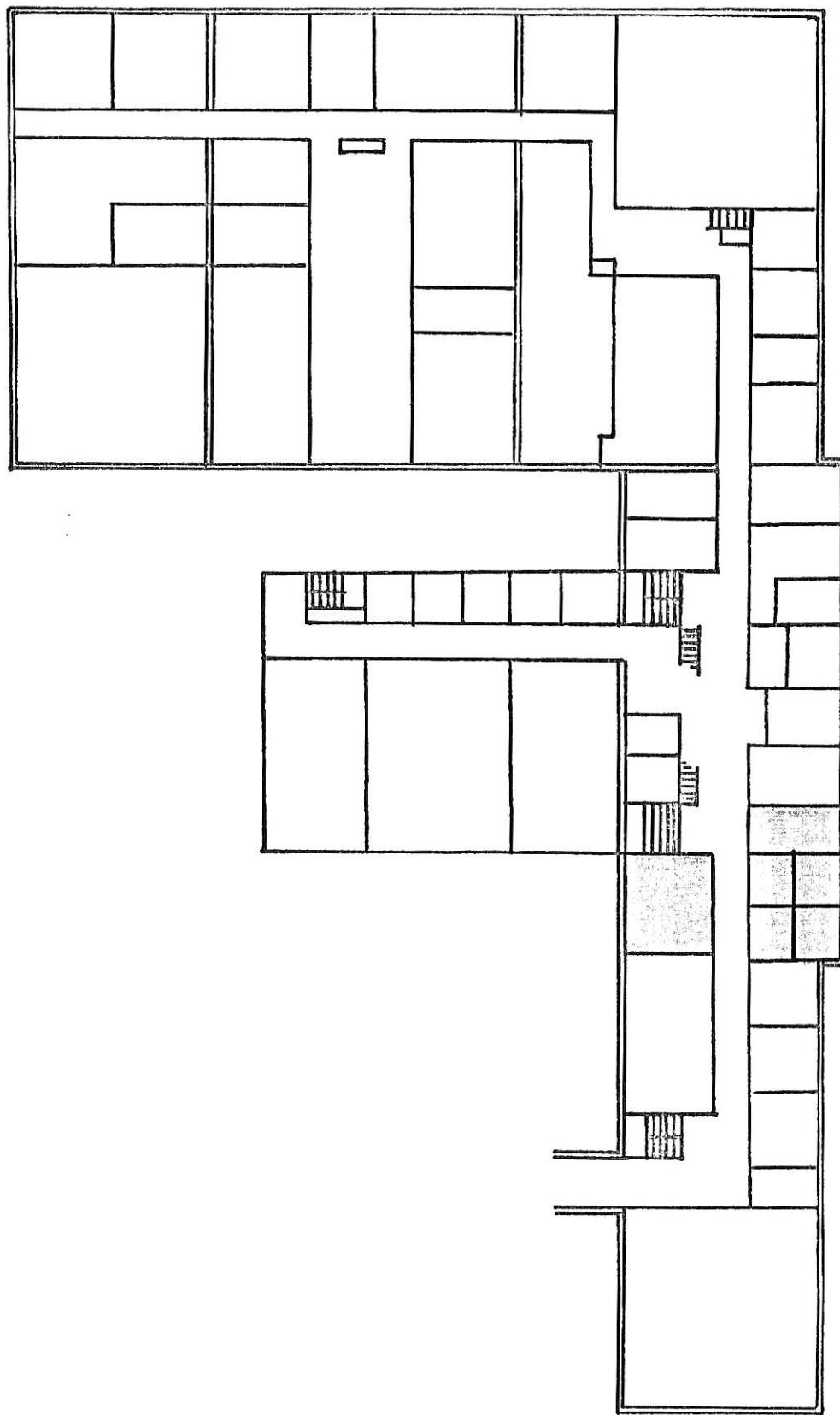
projected area



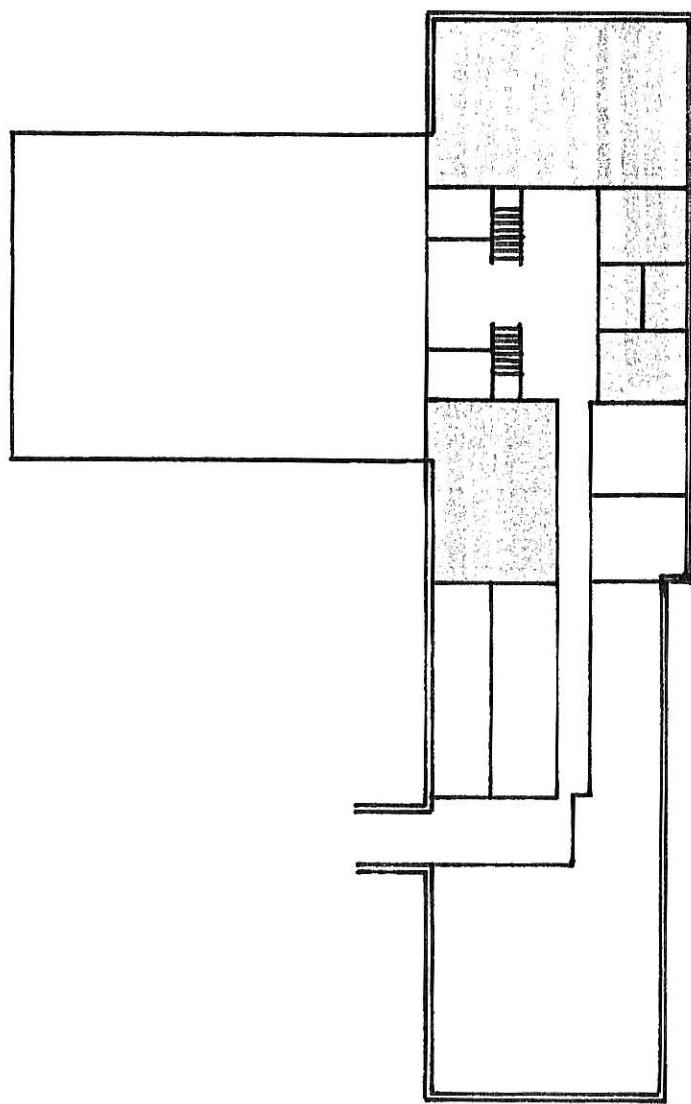
projected area

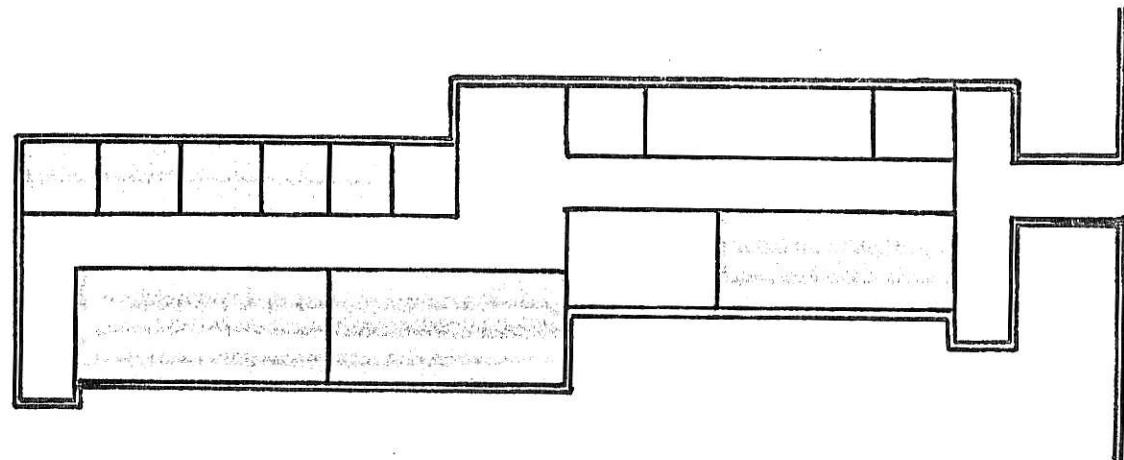


projected area



projected  
area





projected area

## CONCLUSION

The process of space planning for the College of Architecture and Design, Seaton Hall, Kansas State University, is very complex. The analysis expressed in the example is only a preliminary step toward the synthesis of the man-environment syndrome. The research, existing data, and the assumptions have been analyzed and synthesized into projections. It is important to note that the assumptions made in order to achieve projections were based on a reality frame of reference. This reality opposes utopian assumptions which seldom materialize or develop any significant results at the level at which they were proposed. The assumptions made may never materialize in terms of actually realizing the projected spaces which will distort the projections, but a framework has been established for the interjection of data compiled for this special situation.

The interior space planner must use such a preliminary analysis and develop each space by synthesizing the elements significant to the specific needs. Every element directly creating or indirectly affecting the man-environment must be considered. For example, human factors, utilization efficiency, space volume, lighting, color, and texture are a few of the factors. The space planner must establish priorities among elements and make trade offs within the realm of reality in order to synthesize the syndrome. It is important to understand that each specific man-environment has its own peculiar syndrome.

The influence of environment on man, ignored completely in the dark ages of his past, was given but little thought as the individual began to emerge from feudal obscurity. The unexpected change in the structure of our society took place much too rapidly to allow for any conscious planning for the future. But each day's unpredicted changes broadened man's horizons and brought him closer to the neighbor he had never known. As his world grew smaller and his knowledge of it greater, he began to appreciate man's interdependence. He learned that men walk together toward mutual understanding and that the peace that comes with understanding comes only when each carries his own inner dignity. Environment either adds to man's dignity or strips him of it. From this was born the realization that space planning and design is rapidly becoming one of the more important sociological tools for man's improvement.<sup>4</sup>

I feel that documenting and analyzing the data for preliminary synthesis of the specific example syndrome has aided in my development of understanding the necessity and responsibility of the space planner.

## FOOTNOTES

1. Michael Brawne, University Planning and Design, p. 21.
2. Anonymous "School of Architecture Committee Report" in Indiana Architect, January, 1965, p. 7.
3. Ibid.
4. Michael Saphier, Office Planning and Design, p. vii.

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\_\_\_\_\_. "University" in Rensselaer Polytechnic Institute, Troy, New York, Vol. III, 1965.

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Reed, Bob H. and William A. Harper. The College Facilities Thing, Impressions of an Airborne Seminar & A Guide for Junior College Planners. Washington, D.C.: American Association of Junior Colleges, 1968.

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## UNPUBLISHED DOCUMENTS

1. College of Architecture and Design  
Kansas State University  
Manhattan, Kansas
  - a) Program for College of Architecture and Design by Architectural Design III, 1967.
  - b) Survey Made Regarding Physical Space Allocated to the Architectural Curriculum. March, 1967.
  - c) Report of Committee to Determine Faculty-Student-Space Ratios. Chairman Albert Sanner, February, 1969.
  - d) Necessary Facilities. Developed by Dean's Office, 1971.

## UNPUBLISHED INTERVIEWS

1. Bunker, Charles G., Graduate Student, College of Architecture and Design, Kansas State University.
2. Deines, Vernon P., Professor/Head Regional and Community Planning, College of Architecture and Design, Kansas State University.
3. Durgan, Jack C., Professor/Head Interior Architecture, College of Architecture and Design, Kansas State University.
4. Ealy, Robert P., Professor/Head Landscape Architecture, College of Architecture and Design, Kansas State University.
5. Fischer, Emil C., Retiring Dean, College of Architecture and Design, Kansas State University.
6. Foerester, Bernard, Dean, College of Architecture and Design, Kansas State University.
7. Grosh, Louis E., Associate Professor Industrial Engineering, College of Engineering, Kansas State University.
8. Heintzelman, J. C., Professor, College of Architecture and Design, Kansas State University.
9. Hoyt, Donald P., Director of Educational Resources, Kansas State University.
10. Lauck, Alan, Undergraduate, College of Architecture and Design, Kansas State University.
11. McGraw, Eugene T., Professor Regional and Community Planning, College of Architecture and Design, Kansas State University.
12. Miles, Frederick D., Professor/Head Architecture, College of Architecture and Design, Kansas State University.
13. Murphy, Stephen M., Instructor Interior Architecture, College of Architecture and Design, Kansas State University.
14. Reid, Ronald L., Assistant Professor Architecture, College of Architecture and Design, Kansas State University.
15. Sanner, Albert E., Associate Professor Architecture, College of Architecture and Design, Kansas State University.

16. Thorson, I. Eugene, Professor/Head Construction Science, College of Architecture and Design, Kansas State University.
17. Tillman, Frank A., Professor/Head Industrial Engineering, College of Engineering, Kansas State University.
18. Wendt, Eugene, Assistant Professor Architecture, College of Architecture and Design, Kansas State University.
19. Young, Paul, Vice-President for University Development, Kansas State University.

## APPENDIX

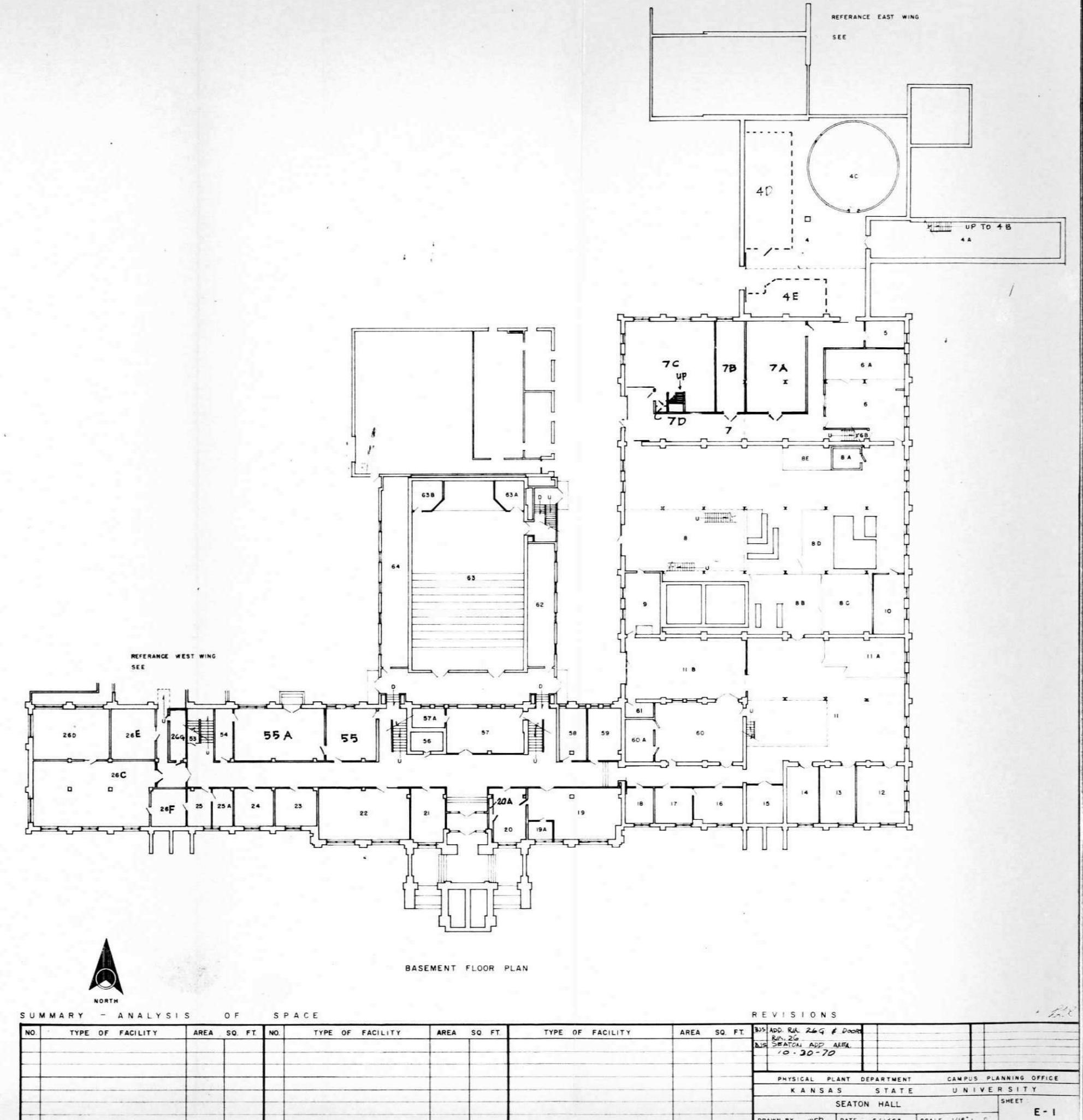
Plate	Page
I. Basement Floor Plan - Seaton Hall . . . . .	
II. First Floor Plan - Seaton Hall . . . . .	
III. Second Floor Plan - Seaton Hall . . . . .	
IV-V. Third Floor Plan - Seaton Hall . . . . .	

**ILLEGIBLE**

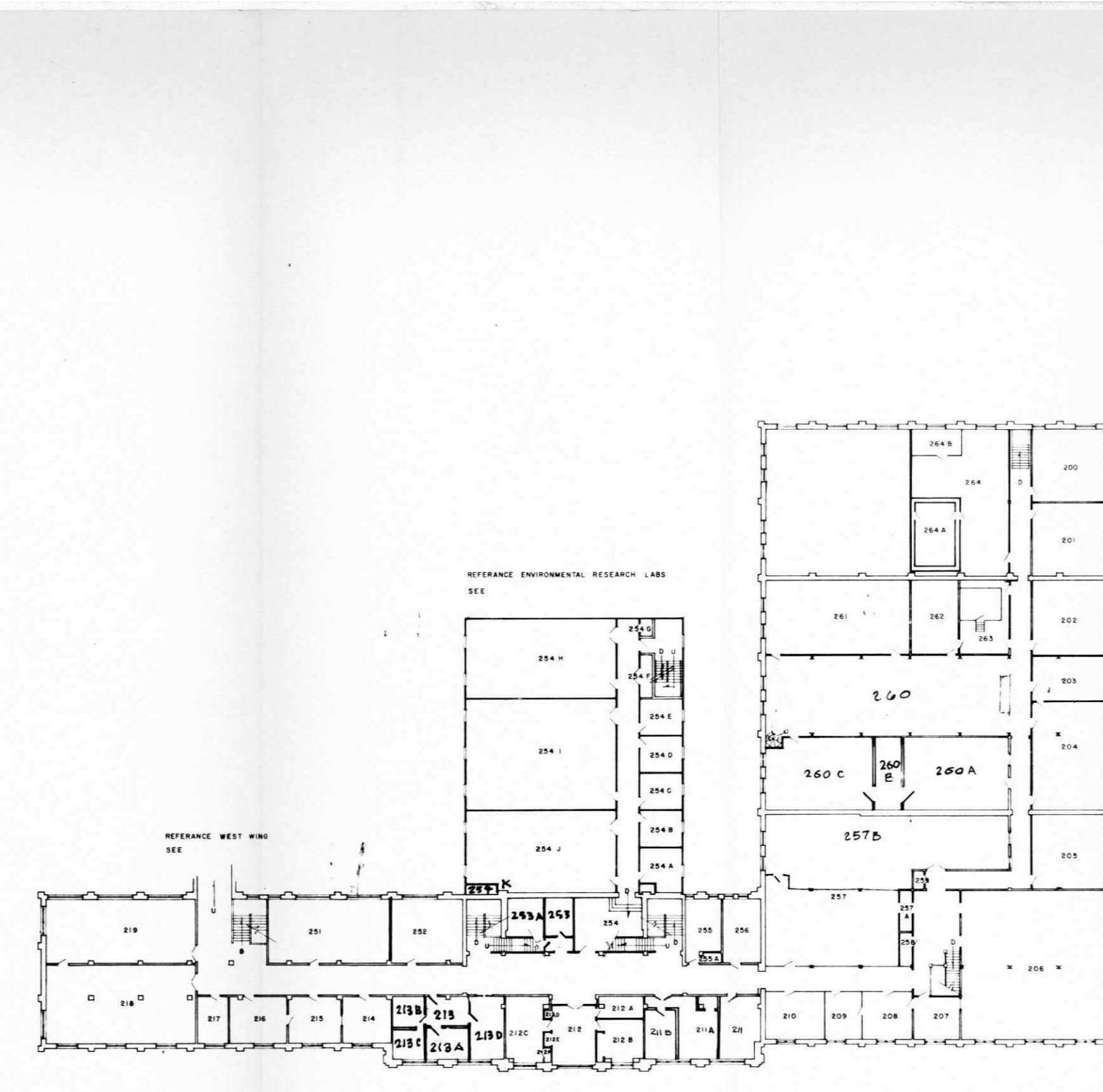
**THE FOLLOWING  
DOCUMENT (S) IS  
ILLEGIBLE DUE  
TO THE  
PRINTING ON  
THE ORIGINAL  
BEING CUT OFF**

**ILLEGIBLE**

ROOM SCHEDULE											
ROOM NO.	ROOM USE	CEILING HEIGHT	LENGTH	WIDTH	AREA SQ.FT.	ROOM NO.	ROOM USE	CEILING HEIGHT	LENGTH	WIDTH	AREA SQ.FT.
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4B	6-B	23'-9"	15'-6"		340						
4C	VARIETY	RADIUM	17'-9"		989						
5	9'-6"	13'-9"	11'-6"		158						
6	9'-6"	31'-0"	24'-3"		672						
6A	"	"	11'-3"		349						
6B	VARIETY	6'-0"	4'-3"		26						
6C	"	10'-0"	40'-0"		0000						
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8B	9'-0"	25'-0"	23'-6"		646						
8C	"	18'-6"	"		435						
8D	"	25'-0"	6'-9"		219						
8E	9'-0"	17'-9"	12'-9"		226						
9	"	24'-0"	14'-0"		336						
10	"	23'-9"	13'-9"		327						
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23	"	17'-5"	15'-0"		259						
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26F	"	15'-0"	14'-0"		210						
53	"	8'-0"	5'-0"		40						
54	11'-0"	20'-6"	7'-3"		149						
55	"	"	20'-0"	4'0"							
55A	"	"	35'	7'8"							
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57A	"	13'-3"	7'-6"		99						
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59	"	"	13'-3"		268						
60	9'-9"	34'-6"	23'-6"		817						
60A	"	16'-0"	11'-0"		176						
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62	12'-6"	18'-3"	10'-6"		504						
63	11'-0"	73'-0"	43'-6"		3067						
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63B	11'-3"	"	"		120						
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7	9'-0"	104'-0"	10'-2"		1318						
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7C	9'-0"	"	35'-4"		1181						
7D	"	4'-0"	7'-6"		10						
26G	11'-0"	20'-6"	5'-6"		113						
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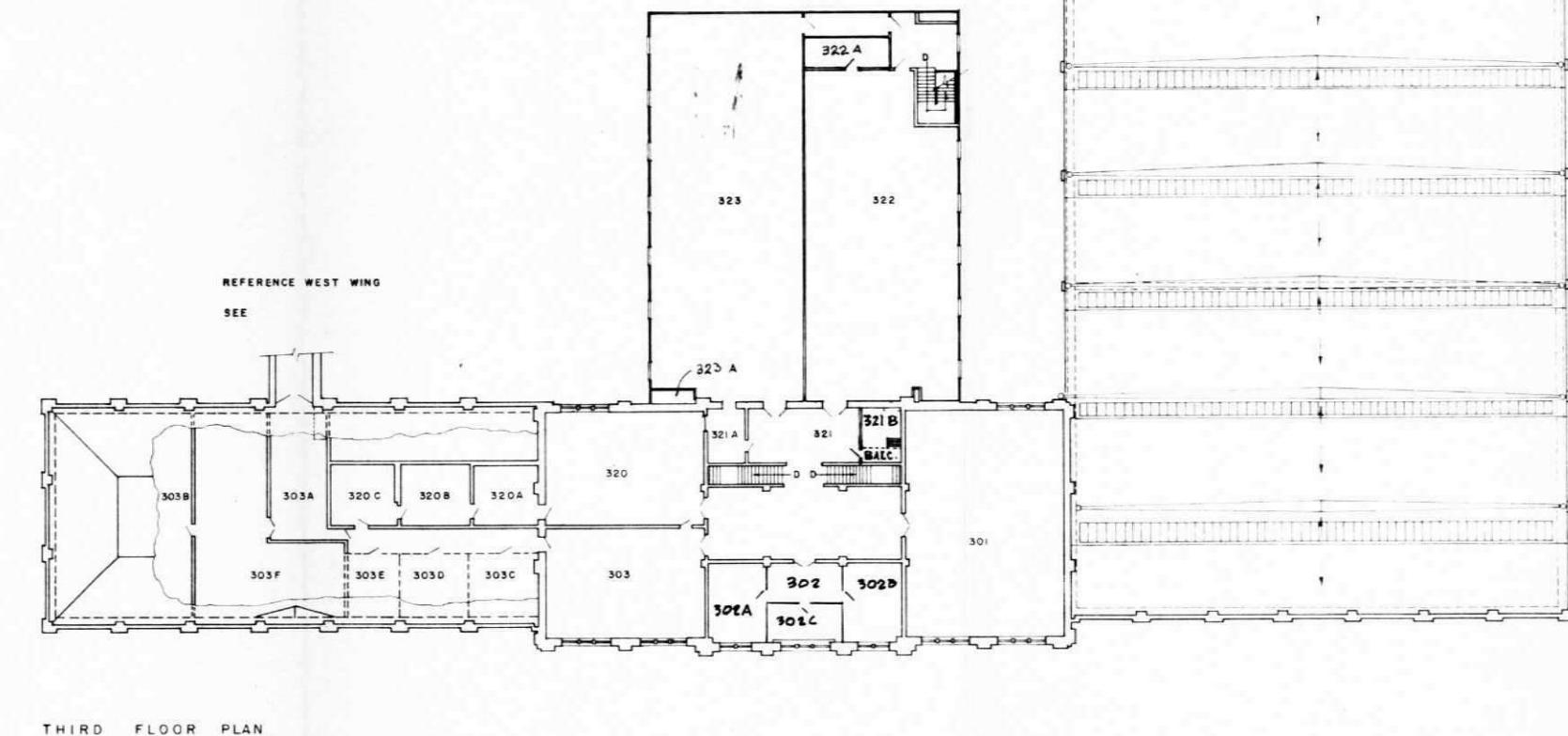


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206	VARIABLES	47'-9"	47'-6"	2268	
207	"	14'-3"	13'-6"	192	
208	11'-0"	16'-0"	15'-3"	244	
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254C	"	"	"	160	
254D	"	"	"	160	
254E	"	"	"	160	
254F	"	14'-0"	4'-3"	53	
254G	"	5'-9"	4'-3"	21	
254H	10'-6"	46'-9"	25'-6"	1272	
254I	"	"	35'-6"	1712	
254J	"	"	26'-3"	1222	
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260B	"	23'-0"	9'-0"	207	
260C	"	34'-9"	23'-0"	768	
213	8'-6"	13'-6"	8'-3"	110	
213A	"	13'-6"	12'-6"	162	
213B	"	10'-6"	9'-6"	100	
213C	"	11'-0"	10'-6"	115	
213D	"	20'-9"	11'-3"	233	
263	11'-6"	12'-6"	9'-0"	112	
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257B	10'-7"	79'-0"	23'-0"	1405	
TOTAL GROSS AREA _____					
TOTAL NET AREA _____					



65 ADD. WALLS RA. 211 (211A, 211B, 211C)	10-30-70		
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KANSAS STATE UNIVERSITY			
SEATON HALL			
DRAWN BY: MFD DATE: 8/9/84	REVISION:	E-3	

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303		13'-3"	36'-3"	25'-6"	924						
303A		8'-6"	30'-6"	13'-0"	372						
303B		"	33'-5"	22'-3"	740						
303C		"	15'-9"	7'-9"	122						
303D		"	15'-6"	"	120						
303E		"	12'-3"	"	95						
303F		"	36'-0"	33'-3"	789						
320		13'-3"	36'-3"	25'-9"	933						
320A		8'-6"	14'-9"	13'-9"	201						
320B		"	15'-0"	14'-0"	210						
320C		"	"	"	212						
321		13'-3"	CIRCULATION								
321A		"	19'-0"	"	233						
321B		"	9'-0"	"	110						
322		8'-6"	75'-0"	34'-6"	2468						
322A		"	6'-9"	19'-0	128						
323		"	88'-6"	34'-6"	3019						
323A		"	3'-3"	9'-9"	31						
309		13'-3"	18'-9"	8'-9"	159						
302A		"	18'-9"	12'-4"	244						
302B		"	"	18'-9"	248						
302C		"	18'-3"	9'-3"	169						
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<hr/>											



NORTH

REVISIONS

10-30-70			
PHYSICAL PLANT DEPARTMENT	CAMPUS PLANNING OFFICE		
KANSAS STATE UNIVERSITY			
SEATON HALL			
DRAWN BY G.D.W. DATE 6/9/65	SCALE 1/16" = 1'-0"	E-4	

## ROOM SCHEDULE

ROOM NO	ROOM USE	CEILING HEIGHT	LENGTH	WIDTH	AREA SQ FT
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102	"	42'-6"	35'-0"	1342	
102A	"	13'-6"	9'-6"	128	
103	"	10'-0"	6'-6"	65	
104	"	"	5'-9"	58	
105	"	61'-6"	35'-0"	1388	
105A	"	16'-3"	7'-6"	122	
105B	"	35'-0"	23'-0"	662	
105C	"	17'-3"	"	397	
105D	"	20'-3"	16'-9"	339	
105E	"	7'-6"	6'-6"	49	
105F	"	11'-0"	8'-0"	81	
106	VARIES	20'-9"	11'-6"	233	
106A	"	14'-3"	"	159	
107	"	27'-3"	20'-9"	386	
108	"	115'-3"	40'-0"	3697	
108A	"	20'-9"	18'-6"	384	
108B	"	42'-9"	13'-3"	559	
108C	"	33'-0"	20'-0"	600	
108C	BALCONY	"	"	456	
108C	ATTIC	60'-0"	18'-3"	1033	
108D	VARIES	26'-9"	9'-0"	209	
109	"	23'-9"	22'-9"	554	
110	"	60'-6"	38'-9"	2344	
110A	"	17'-6"	11'-3"	197	
110B	"	42'-6"	32'-6"	1145	
111	"	100'-0"	48'-6"	4537	
111A	"	11'-0"	8'-3"	91	
111B	"	16'-0"	12'-0"	192	
112	"	88'-6"	25'-9"	3215	
112A	"	25'-6"	14'-3"	363	
112B	"	29'-3"	24'-9"	724	
113	"	25'-6"	16'-0"	408	
114	"	32'-9"	25'-6"	835	
115	"	14'-9"	7'-9"	114	
115A	"	11'-6"	10'-9"	124	
116	"	18'-6"	"	199	
116A	11'-0"	12'-3"	4'-6"	55	
117	"	23'-9"	18'-6"	439	
118	"	40'-0"	18'-0"	720	
114A		25'-6"	16'-0"	408	

LEVEL 3  
(ABOVE RM. 110B)REFERENCE SEATON HALL  
SEE

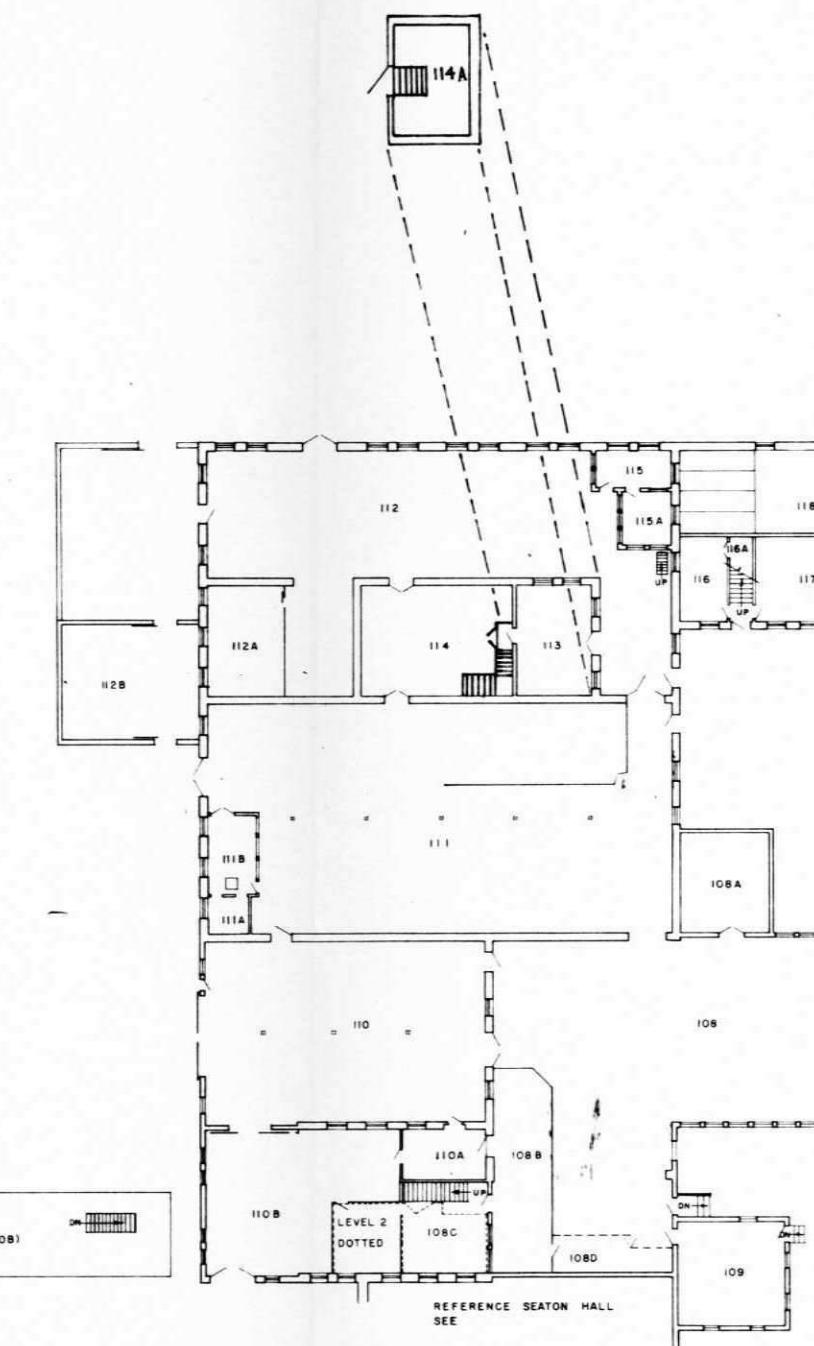
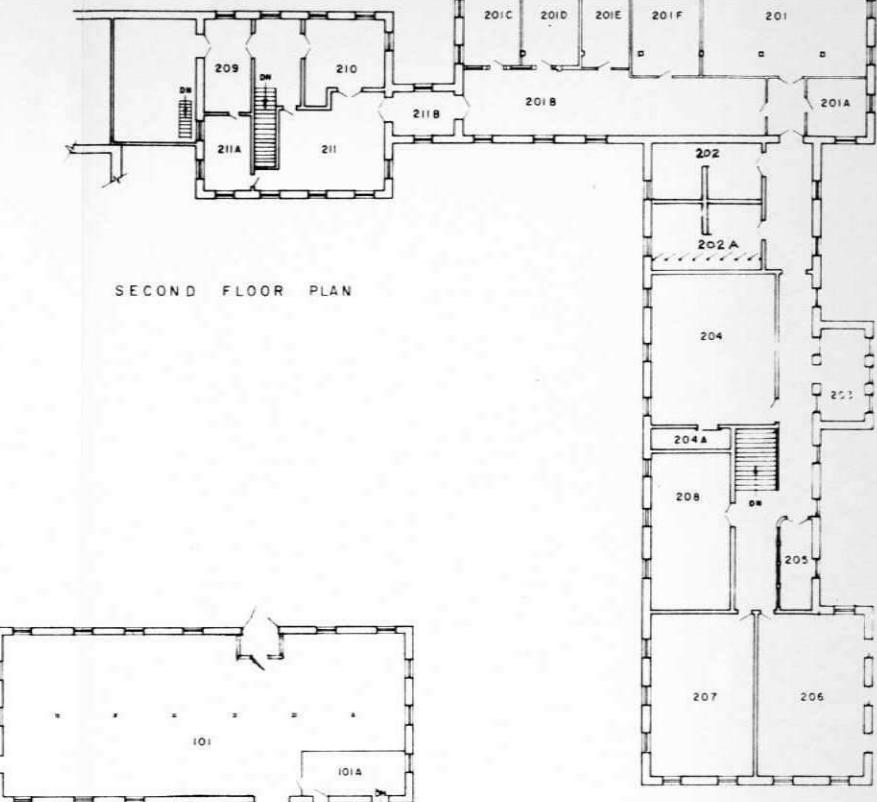
## SUMMARY - ANALYSIS OF SPACE

NO.	TYPE OF FACILITY	AREA SQ FT	NO.	TYPE OF FACILITY	AREA SQ FT	TYPE OF FACILITY	AREA SQ FT	REVISIONS	
								BS ADD. VALS 202-202A 10-30-70	

PHYSICAL PLANT DEPARTMENT CAMPUS PLANNING OFFICE  
KANSAS STATE UNIVERSITY  
SEATON HALL (ENGINEERING SHOPS) SHEET  
DRAWN BY GOW DATE 6/10/65 SCALE 1/16" = 1'-0"

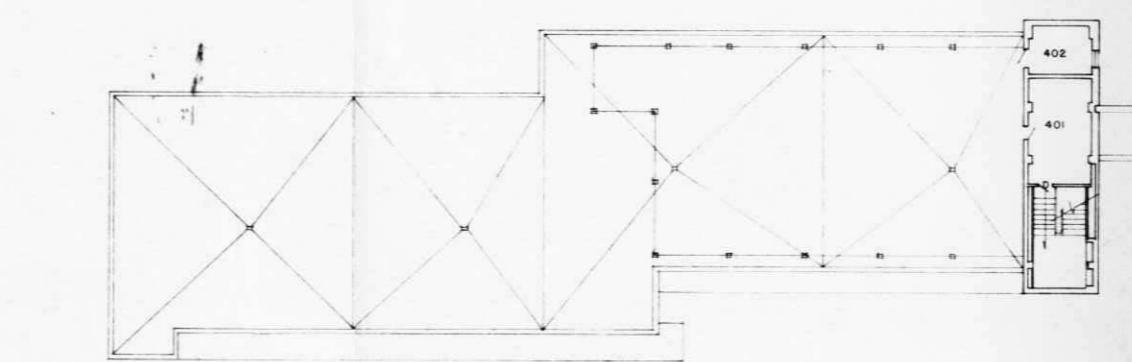
TOTAL GROSS AREA \_\_\_\_\_ TOTAL NET AREA \_\_\_\_\_

E-7

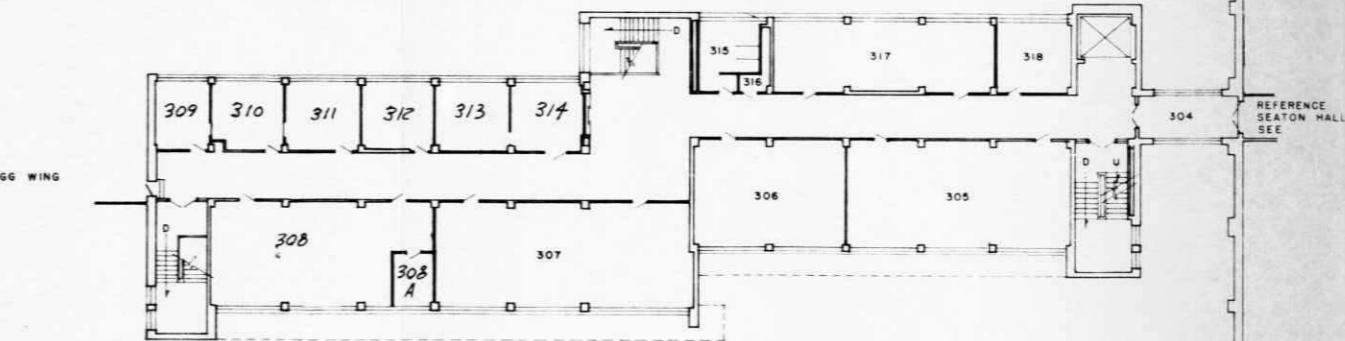


ROOM SCHEDULE					
ROOM NO.	ROOM USE	CEILING HEIGHT	LENGTH	WIDTH	AREA SQ.FT.
304	"	10'-0"	20'-9"	12'-0"	249
305	"	47'-9"	22'-6"	"	1074
306	"	33'-3"	"	"	748
307	"	54'-8"	"	"	1221
308	"	48'-9"	"	"	1001
308A	"	10'-6"	8'-0"	"	84
309	"	15'-6"	12'-6"	"	194
310	"	"	15'-6"	"	234
311	"	"	"	"	240
312	"	15'-0"	15'-6"	233	314
313	"	15'-6"	15'-0"	233	314
314	"	15'-6"	15'-0"	233	314
315	"	"	12'-9"	"	171
316	11'-4"	8'-6"	3'-6"	"	30
317	10'-0"	15'-6"	47'-9"	"	736
318	"	15'-3"	15'-3"	"	229
312	10'-0"	16'-0"	15'-0"	242	313
401	"	23'-9"	13'-6"	"	321
402	"	10'-0"	"	"	135

OLD NUMBERS



ROOF PLAN



THIRD FLOOR PLAN



REVISIONS

10-30-70

PHYSICAL PLANT DEPARTMENT	CAMPUS PLANNING OFFICE
KANSAS STATE UNIVERSITY	
SEATON HALL (WEST WING)	SHEET E-9
DRAWN BY: WHD	DATE: 5/27/64
SCALE: 1/16"	

TOTAL GROSS AREA — TOTAL NET AREA —

AN ANALYSIS FOR THE REDESIGN OF THE EXISTING  
FACILITIES FOR THE COLLEGE OF ARCHITECTURE &  
DESIGN, SEATON HALL, KANSAS STATE UNIVERSITY

by

DANIEL WAYNE MASTERS

Bach. of Arch., Kansas State University, 1970

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AN ABSTRACT OF A MASTER'S THESIS

submitted in partial fulfillment of the

requirements for the degree

MASTER OF ARCHITECTURE

College of Architecture and Design

KANSAS STATE UNIVERSITY  
Manhattan, Kansas

1971

Environment is all the conditions, circumstances, and influences surrounding and affecting the development of an organism or group of organisms. It has become the symbolic base of the designers' vocabulary with little knowledge of its complex forces and powers on organisms. I believe, that in this world and at this time, man is the most sophisticated organism and therefore I will limit my discussion to what I shall call man-environment. Man-environment is the interaction and articulation of every fact related to man. It is time for man-environment to be dealt with in reality and for its priority to become equal to its influence.

The expanding field of environmental technology is producing documented data directly related to the influences of the man-environment. It is an important responsibility of the designer to become aware, to understand, to place priorities, to make trade-offs, and to synthesize this data and all other factors into a man-environment. I call this process the synthesis of the man-environment syndrome. Environment is not a theory but a fact and not a word but a responsibility. We must stop evading its complexities because man suffers from the illusions presented as solutions.

The preceding paragraphs are the basis for developing theories leading to the production of my master's thesis. The education and development of Architects and related disciplines as man-environment creators is a complex situation. Every experience perceived by the five senses is a reflection on that education and total knowledge bank.

All design is eclectic and creativity is only the synthesization of experience. What caliber of creative people are evolving out of the experience influenced by the present facilities dictated by the present physical surroundings? It is hard to comprehend the fact that eight hundred seemingly sensitive, creative people, both developed and being developed, can function in this physical environment with such apathy. Seaton Hall has created a dichotomy because of the verbal expression of creativity in a stagnant space. The unfortunate thing would be if the apathetic students and faculty produce creativity that is eclectic of experiences influenced by the existing spaces.

I am making the assumption that it would be a valuable contribution to attempt to evaluate and redevelop the spaces of Seaton Hall for a more conducive man-environment. There have been many programs written both by faculty and students in direct relation to the educational process and facilities needed for Architecture and Design. These have often been based on a utopian concept to produce a maximum need. The results are always a new building or any new space and the reality of Seaton Hall is left ignored. It is time for Architecture and Design to face Seaton Hall as a factor in their man-environment.