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# A Design Program and Solution for a Multi-media Instructional Center on the Central Campus of the University of New Mexico

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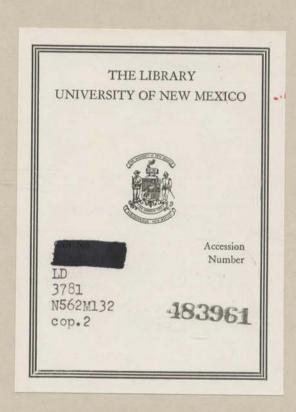
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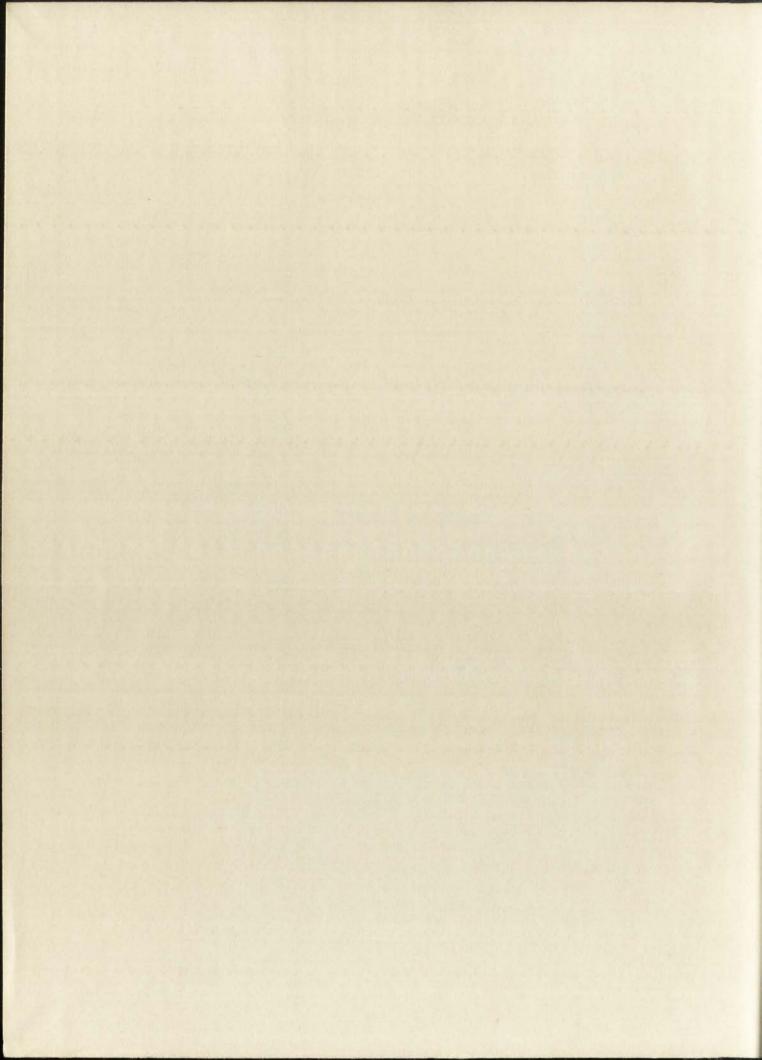
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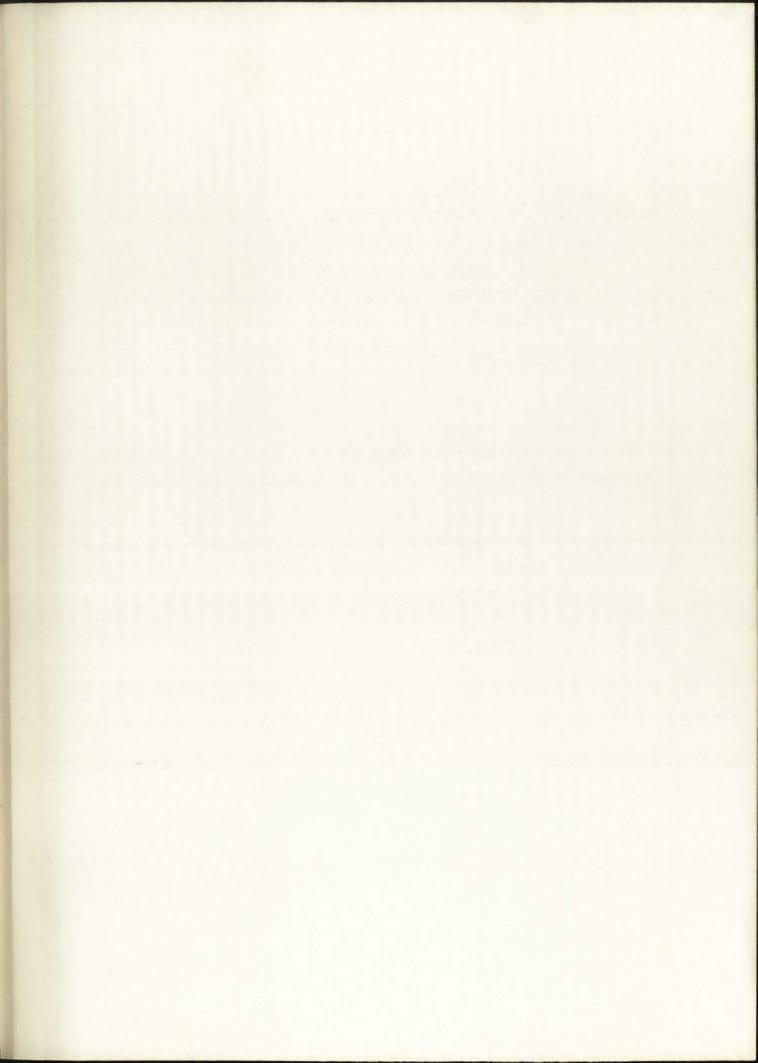


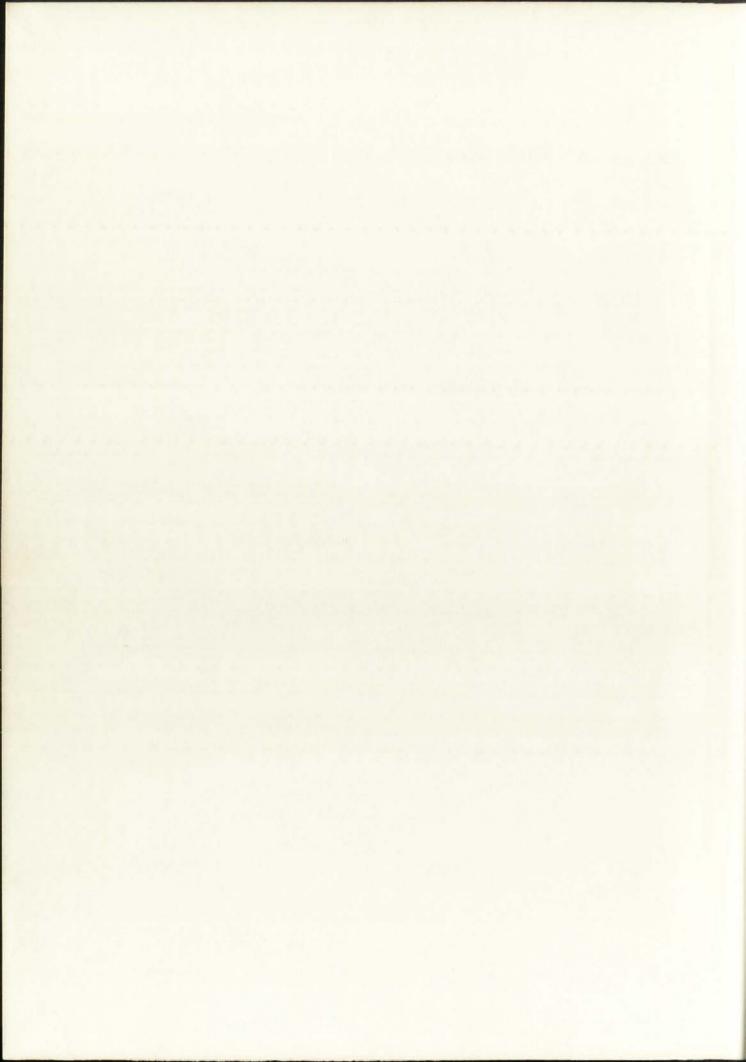
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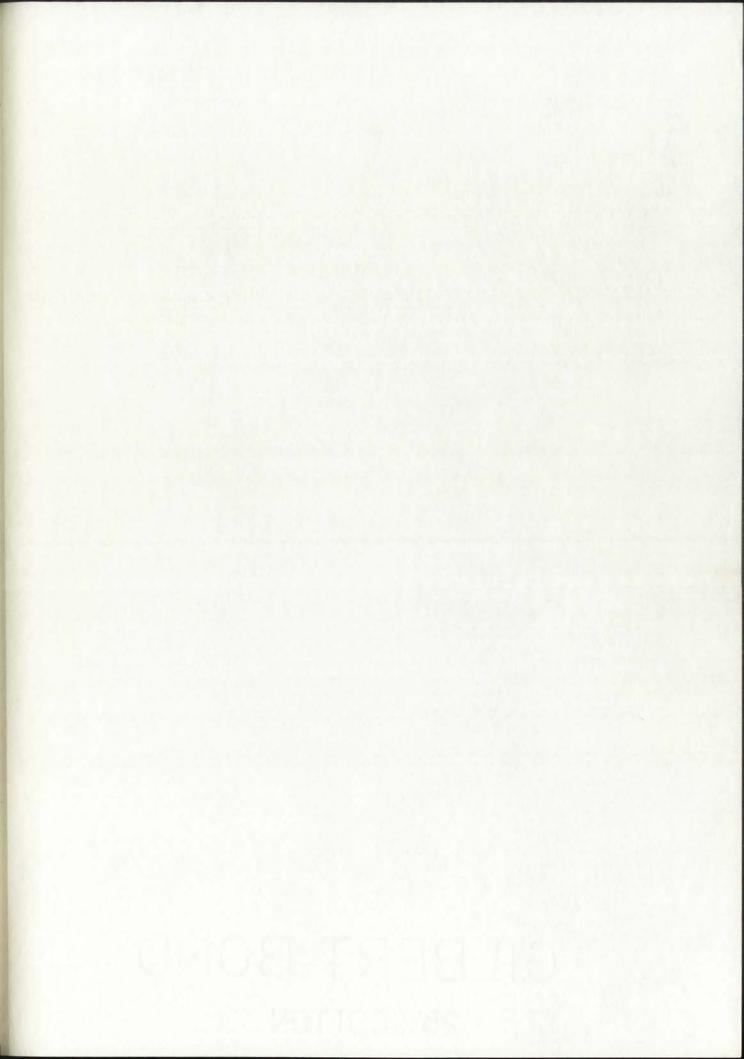
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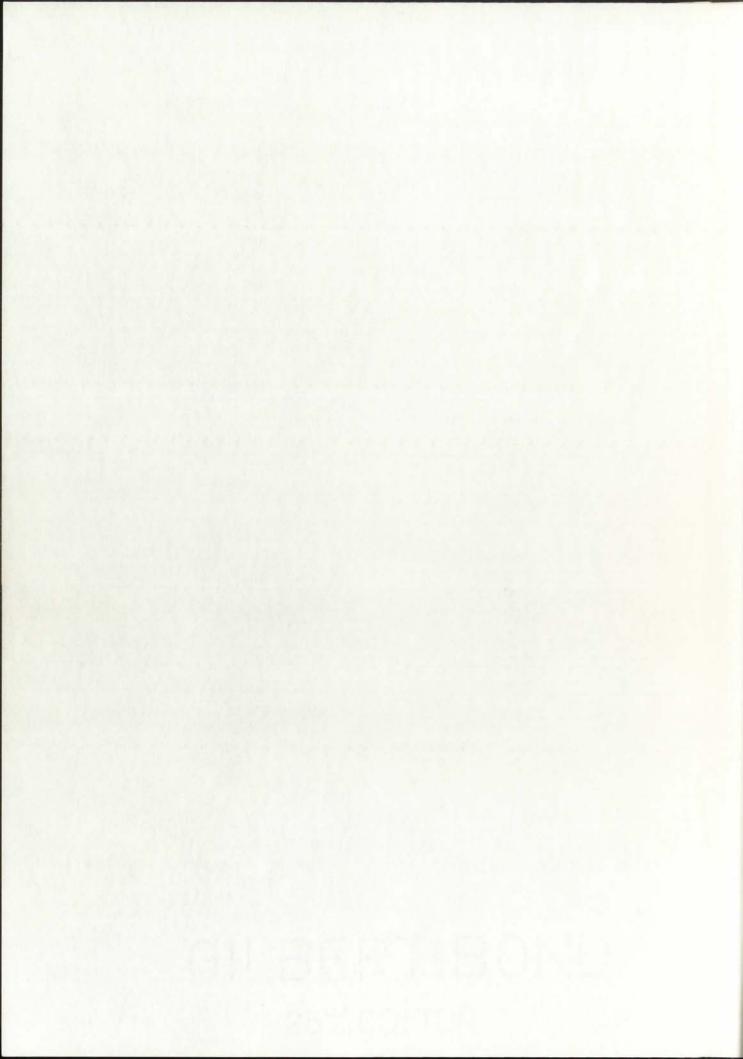
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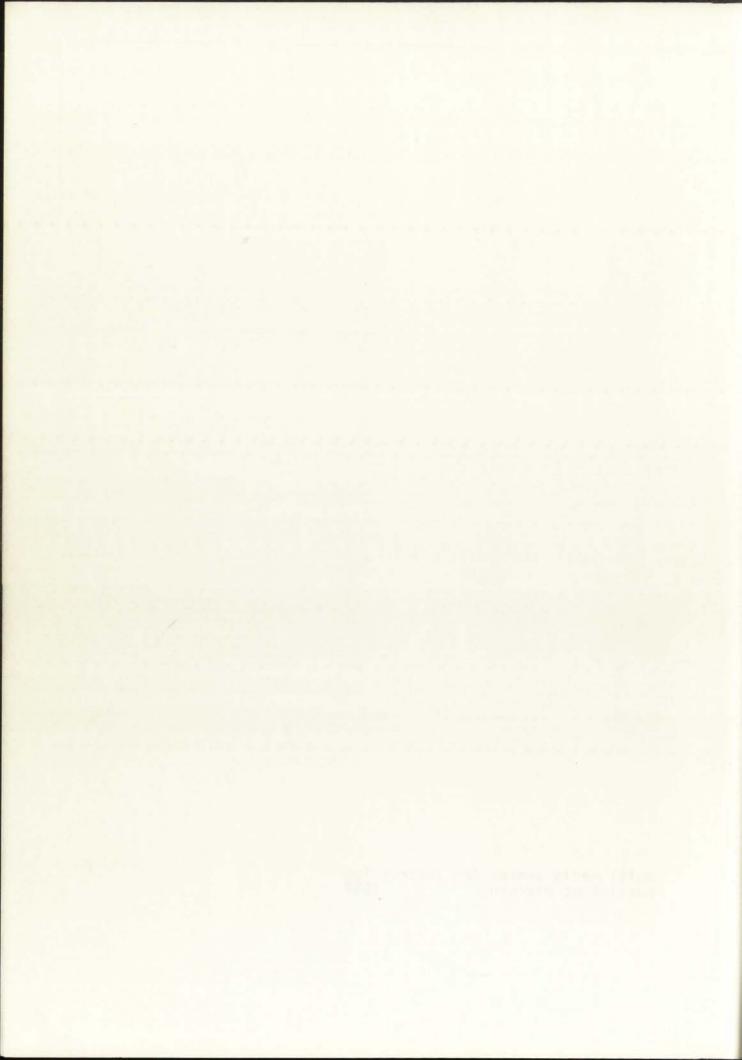












a design program and solution for a multi-media instructional center on the central campus of the university of new mexico.

by: patrick mc clernon

presented to the faculty of the department of architecture, university of new mexico, in partial fulfillment of the requirements for the degree of bachelor of architecture.

university of new mexico

may 21, 1968

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### PART I INTRODUCTION

THE TRADITIONAL CORE OF EVERY GREAT UNIVERSITY HAS IT'S LIBRARY. THIS ALONG WITH THE FACULTY HAS FORMED THE TEACHING CORE AT THE UNIVERSITY.

TODAY MAN IS GATHERING NEW INFORMATION AT AN ALMOST UNBELIEVABLE PACE AND THE RATE AND METHOD OF DISEMINATION LAGS BEHIND. A MAJOR NEED, THEREFORE, IS A CENTER THAT CAN MAKE THIS INFORMATION AVAILABLE IMMEDIATELY FOR THOSE WHO REQUIRE IT.

MORE DATA INFORMATION HAS BEEN ACCUMMULATED IN THE PAST 15 YEARS THAN IN THE WHOLE PREVIOUS HISTORY OF MANKIND. THIS INFORMATION EXPOLSION HAS BEEN IN PART CAUSED, BY INCREASED SPECIALIZATION WHICH IN TURN HAS BEEN INSTRUMENTAL IN CREATING EVEN GREATER AREAS OF SPECIALIZATION. OBVIOUSLY WITH THESE CHANGES BOTH IN QUANITY AND TYPE OF INFORMATION AVAILABLE, NEW SPACE NEEDS ARE NECESSARY.

THE NEW CORE WILL HOLD AND DISSMINATE INFORMATION EVEN AS THE TRADITIONAL LIBRARY CENTER DID IN THE PAST. IT CAN BE IMAGINED THAT SUCH A CORE WOULD CONTAIN FACILITIES SO STUDENTS WILL HEAR AND SEE POETRY PRESENTED BY THE AUTHORS, OPEN-HEART SURGERY, DRAMA PERFORMANCES, GOVERMENTAL DEBATES, SCIENTIFIC EXPERIMENTS, ETC. ETC.. IN SHORT WITH CLOSED CIRCUIT T.V., TAPES, INFORMATION RECALL SYSTEMS, MULTI-MEDIA PRESENTATION SYSTEMS, ETC., IT IS POSSIBLE TO EXTEND AND EXPAND MANY TIMES OVER THE IMMEDIATE AVAILIBILITY OF INFORMATION AND MATERIAL.

SUCH A CENTER WILL NOT REPLACE THE TRADITIONAL LIBRARY BUT WILL SUPPLEMENT IT.

IT WILL CONTAIN AREAS WHERE STUDENTS AND FACULITY CAN COME AND BE TOUGHT; AREAS FOR LEARNING THE PHILOSOPHY AND OPERATION OF NEW COMPUTER SYSTEMS; AREAS FOR EVALUATING AND DISTRUBUTING MULTI-MEDIA SYSTEMS, AREAS FOR INDEPENTANT RESEARCH WORK WITH ALL NEW INFORMATION QUICKLY AVAILIBLE THROUGH COMPUTER, TAPES, FILMS, SLIDES, TAPE RECORDERS, 3-D MODEL DISPLAYS, TELEVISION AND SYSTEM COMBINATIONS AND FOR EXPERMENTATION WITH MEDIA.

"THE COMPUTER HAS A MORE BENEFICIAL POTENTIAL FOR THE HUMAN RACE THEN ANY OTHER INVENTION IN HISTORY "RAY EPPERT. NO OTHER ITEM HAS CHANGED THE BASIC TERMS OF SO MANY HUMAN ACTIVITES IN SO SHORT A TIME. THE COMPUTER IS CAPABLE OF COLLECTING MASSES OF INFORMATION & SELECTING THE RESULTS REQUIRED ALMOST INSTANTANEOUSLY.

THE COMPUTER WILL BE USED AS A MAJOR EDUCATIONAL TOOL WITHIN THIS FACILITY THRU COMPUTER ASSISTED INSTRUCTION AND VARIOUS OTHER COMPONENTS TO BE DISCRIBED IN DETAIL. THE COMPUTER SPECIFIC USE IN THE C.A.I. PROGRAM IS AS FOLLOWS:

1. VISUAL COMMUNICATION:

A. TYPEWRITERS ARE USED AS INPUT-OUTPUT DEVICES UNDER COMPUTER (E.G., TO ASK THE STUDENT A QUESTION OR DIRECT HIM TO SOME READING MATERIAL) OR UNDER STUDENT CONTROL (E.G., TO ANSWER THE QUESTION).

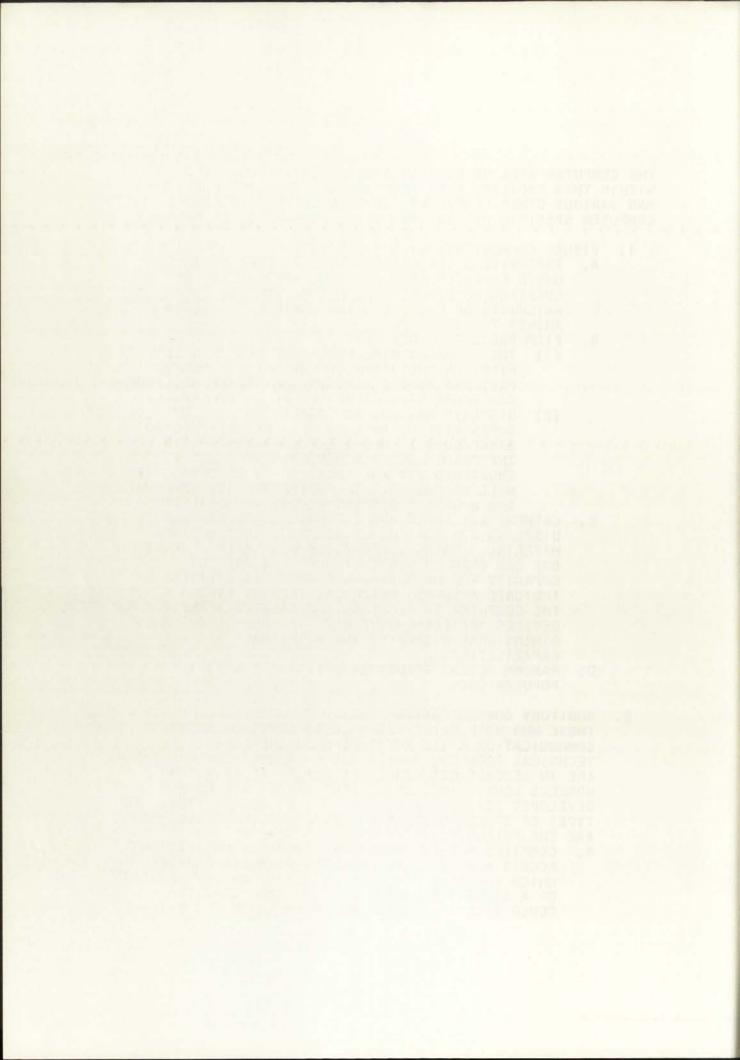
B. FILM PROJECTION DEVICES:

(1) THE THOMPSON RAMO WOOLRIDGE MENTOR SELECTS FILMS ON THE BASIS OF NO-LINE RESPONSES, PRESENTS AUDITORY AND VISUAL MATERIALS, AND CAN SCORE STUDENT RESPONSES AUTOMATICALLY.

(2) DISPLAYS MAY NOW BE CREATED ON-LINE BY SUPERIMPOSING SYMBOLS ON A FILM-PROJECTED BACKGROUND TO HIGHLIGHT CERTAIN ASPECTS OF THE FILM. AS FILM DEVELOPMENT TIME IS SHORTENED (IT NOW TAKES 10-15 SECONDS), IT WILL BE POSSIBLE TO PHOTOGRAPH NEW INFORMATION AND UPDATE A DISPLAY ALMOST IMMEDIATELY.

- C. CATHODE RAY TUBES ARE THE MOST ADAPTABLE VISUAL DISPLAYS FOR ON-LINE USAGE AND CHANGING DISPLAY MATERIAL. USING A LIGHT PEN HELD NEAR A SCREEN, ONE CAN DRAW CURVES (ALTHOUGH THE PRESENT CAPACITY FOR HANDDRAWN RESPONSES IS LIMITED) OR INDICATE ANSWERS, WHICH CAN THEN BE EVALUATED BY THE COMPUTER BY PLOTTING COORDINATES. THESE DEVICES ARE BEING DEVELOPED IN COLOR, FOR THREE DIMENSIONAL DISPLAYS, AND WITH IMAGE STORAGE CAPABILITIES.
- D. RANDOM ACCESS SLIDES AND FILMS ARE ALSO IN POPULAR USE.
- 2. AUDITORY COMMUNICATION:
  THOSE WHO WORK DAILY WITH C.A.I. CONSIDER AUDITORY
  COMMUNICATION A (IF NOT THE) MAJOR UNSOLVED
  TECHNICAL PROBLEM. WHILE RANDOM ACCESS TAPE RECORDERS
  ARE IN GENERAL USE, THEY ARE NOT AS EFFICIENT AS
  WORKERS WOULD LIKE. THUS, PROTOTYPES ARE BEING
  DEVELOPED FOR SPEECH GENERATION AND RECOGNITION. TWO
  TYPES OF SPEECH GENERATION DEVICES BEING DEVELOPED
  ARE THE FOLLOWING:

A. COMPILED SPEECH, WHERE THE COMPUTER HAS RANDOM ACCESS MEMORY OF PRERECORDED WORDS OR PHRASES WHICH ARE THEN ARRANGED AS OUTPUT ON THE BASIS OF A STUDENT'S RESPONSE (E.G., THE COMPUTER COULD TELL A STUDENT THE FORMULA OF A CHEMICAL).



B. SYNTHETIC SPEECH, WHERE THE COMPUTER USES A SET OF RULES TO CONVERT STORED SPEECH SOUNDS INTO MEANINGFUL SPEECH PATTERNS.

ALTHOUGH THE C.A.I. WILL INCORPORATE MANY MEDIUMS FOR PRESENTATION OF MATERIAL, THEY WILL ALSO BE AVAILABLE FOR THE MORE CONVENTIONAL USES AS WE ARE NOW FAMILAR WITH. AT THIS POINT I FEEL A DISCUSSION OF MEDIA, MEDIA STIMULUS AND TYPE OF LEARNING IS APPROPRIATE SINCE IT WILL ULTIMATLY BE APPLIED FOR ADVANCEMENT OR EXPERIENCE.

THE KEY TO THE SELECTION OF THE APPROPRIATE INSTRUCTIONAL MEDIA TO USE IN ANY PARTICULAR TEACHING SITUATION IS RELATIVE EFFECTIVENESS OF THAT MEDIUM IN ACCOMPLISHING THE DESIRED EDUCATIONAL OBJECTIVE. IN OTHER WORDS, GIVEN A SPECIFIC INSTRUCTIONAL GOAL, WHAT IS THE BEST MEANS OF REACHING IT? INTERESTINGLY ENOUGH, IN EDUCATION THERE IS LITTLE EXPERIMENTAL EVIDENCE TO POINT THE WAY FOR MAKING OF THESE INSTRUCTIONAL DECISIONS. THIS DOES NOT MEAN, OF COURSE, THAT WE KNOW NOTHING ABOUT SELECTING APPROPRIATE MEDIA FOR INSTRUCTION IN SPECIFIC TASKS. IT IS JUST THAT THIS KNOWLEDGE HAS NOT BEEN SYSTEMATICALLY ORGANIZED INTO A USEABLE SET OF OPERATIONAL PROCEDURES THAT MIGHT BE APPLIED TO TEACHING.

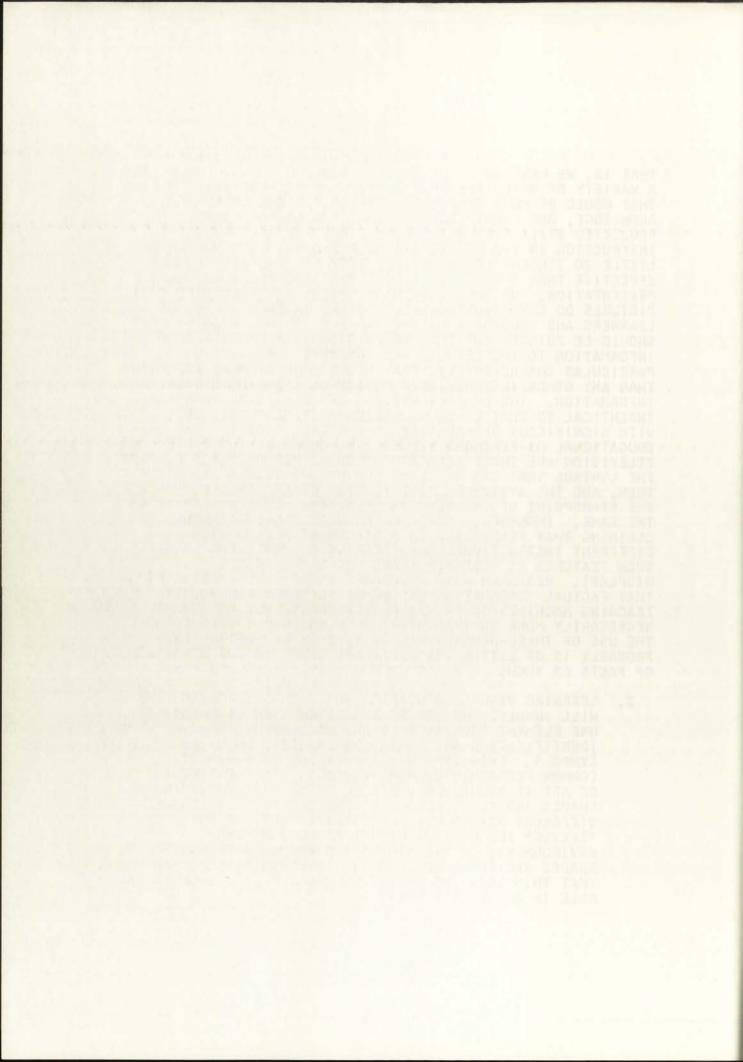
OVER THE ENTIRE RANGE OF TEACHING YOU HAVE, AT DIFFERENT TIMES, A VARIETY OF EDUCATIONAL OBJECTIVES. OUR TASK HERE IS TO RELATE THE AUDIOVISUAL INSTRUCTIONAL MEDIA TO THE ACCOMPLISHMENT OF THESE VARIOUS OBJECTIVES. THIS IS A DIFFICULT TASK AND HAS NEVER BEEN SYSTEMATICALLY APPLIED TO INSTRUCTIONAL MEDIA SELECTION. IN TABLE 1 A VERY ROUGH & PRELIMINARY RATING IS GIVEN FOR THE EFFECTIVENESS OF DIFFERENT INSTRUCTIONAL MEDIA TYPES WHEN USED TO ACCOMPLISH SIX DIFFERENT LEARNING OBJECTIVES. IT IS SUGGESTED THAT THIS EVALUATIVE GRID BE USED JOINTLY WITH THE FOLLOWING EXPLANATION OF THE MEDIA-OBJECTIVES RELATIONSHIPS.

LEARNING FACTUAL INFORMATION. THIS INCLUDES
INFORMATION SUCH AS NAMES, DATES, EVENTS, TERMS,
DEFINITIONS, ETC., ALL OF WHICH HAVE CONCRETE
REFERENTS. IN THE TEACHING OF ART THESE MIGHT
INCLUDE SUCH TASKS AS LEARNING THE FACTS OF ART
HISTORY, TERMINOLOGY, OR FACTS ABOUT ART MEDIA.

AN ABUNDANCE OF AUDIOVISUAL MEDIA RESEARCH POINTS TO THE EFFECTIVENESS OF FILMS, FILMSTRIPS, TELEVISION, AND PROGRAMED INSTRUCTION IN MEETING THE EDUCATIONAL OBJECTIVE. UNFORTUNATELY, HOWEVER, ALTHOUGH THE RESEARCH INDICATES THAT THESE AUDIOVISUAL MATERIALS ARE EFFECTIVE, IT DOES NOT TELL US SPECIFICALLY WHAT TYPES OF AUDIOVISUAL MEDIA ARE INDICATED UNDER WHAT KINDS OF TEACHING CONDITIONS.

THAT IS, WE HAVE NO EVIDENCE THAT WOULD HELP US CHOOSE FROM A VARIETY OF MATERIALS THAT PARTICULAR INSTRUCTIONAL MEDIUM THAT WOULD BE MOST EFFECTIVE. AT THIS STAGE OF OUR KNOWLEDGE, ONE MIGHT CONCLUDE THAT THE USE OF FILMS, PROJECTED STILL PICTURES, TELEVISION, AND PROGRAMED INSTRUCTION IN THE PRESENTATION OF FACTUAL INFORMATION ADDS LITTLE TO STUDENT LEARNING, AND THEY ARE PROBABLY NO MORE EFFECTIVE THAN SUCH CONVENTIONAL TYPES AS PRINT AND ORAL PRESENTATION. ON THE OTHER HAND, FILMS AND PROJECTED STILL PICTURES DO CONTRIBUTE GREATLY TO THE INTEREST LEVEL OF LEARNERS AND PROVIDE A USEFUL VARIETY IN THE TEACHING. SHOULD BE POINTED OUT THAT TELEVISION IS A CARRIER OF INFORMATION TO THE LEARNER AND PROBABLY POSSESSES NO PARTICULAR CHARACTERISTIC THAT WOULD MAKE IT MORE EFFECTIVE THAN ANY OTHER INSTRUCTIONAL MEDIUM IN TEACHING FACTUAL INFORMATION. THE CHARACTERISTICS OF TELEVISION IMAGE ARE INDENTICAL TO THAT OF SOUND MOTION PICTURE IMAGE, BUT WITH SIGNIFICANT DEGRADATION IN PICTURE QUALITY. EDUCATIONAL DIFFERENCES BETWEEN THE SOUND MOTION PICTURE & TELEVISION ARE THOSE RELATED TO THE METHOD OF IMAGE DISPLAY, THE CONTROL THAT CAN BE EXERCISED BY THE TEACHER IN USING THEM, AND THE SYSTEM OF DISTRIBUTION OF THE IMAGES. THE STANDPOINT OF THE TEACHING FUNCTION, THEY APPEAR TO BE THE SAME. (HOWEVER, MARSHALL MCLUHAN WOULD DISAGREE, CLAIMING THAT TELEVISION IS A DIFFERENT MEDIUM WITH DIFFERENT INSTRUCTIONAL CHARACTERISTICS JUST BECAUSE OF SUCH FEATURES AS DEGRADED IMAGE AND DIFFERENCE IN DISPLAY). RESEARCH WITH PROGRAMED INSTRUCTION INDICATES THAT FACTUAL INFORMATION MAY BE EFFICIENTLY TAUGHT WITH TEACHING MACHINES OR PROGRAMED TEXTBOOKS, BUT NOT NECESSARILY MORE SO THAN WITH OTHER INSTRUCTIONAL METHODS. THE USE OF THREE-DIMENSIONAL OBJECTS OR DEMONSTRATIONS PROBABLY IS OF LITTLE INSTRUCTIONAL VALUE IN THE LEARNING OF FACTS AS SUCH.

2. LEARNING VISUAL IDENTIFICATION. THIS LEARNING TASK WILL INVOLVE THE USE OF VISUAL CUES TO DISCRIMINATE ONE ELEMENT FROM ANOTHER AND WILL REQUIRE THE IDENTIFICATION AND NAMING OF OBJECTS, WORDS OR SYMBOLS. THIS TYPE OF TASK IS ONE OF THE MOST COMMON PERFORMED BY HUMAN BEINGS. IN THE TEACHING OF ART IT MIGHT INCLUDE SUCH TASKS AS IDENTIFYING SHAPES AND FORMS, LEARNING THE CHARACTERISTICS OF DIFFERENT ART FORMS, RECOGNIZING WORKS OF ART, "SEEING" THE VARIOUS VISUAL ASPECTS OF THE ENVIRONMENT, OR DISCRIMINATING AMOUNG DIFFERENT SHADES AND TONES OF COLORS. IT WOULD BE EXPECTED THAT THIS LEARNING OBJECTIVE WOULD PLAY A SIGNIFICANT ROLE IN ART EDUCATION.



IT HAS BEEN SHOWN THAT IN INSTRUCTIONAL SITUATIONS WHERE THE INITIAL PRESENTATION STIMULUS IS SIMILAR TO THE PERFORMANCE OR BEHAVIOR IN THE FINAL TASK TO BE LEARNED, HIGH POSITIVE TRANSFER WILL OCCUR. IT IS TO BE EXPECTED THAT SUCH A CONDITION WOULD PREVAIL IN THE LEARNING OF THIS MEANS THAT VISUAL DISCRIMINATIONS IN ART EDUCATION. THE STIMULUS REPRESENTATIONS OF THE ASSOCIATIONS TO BE LEARNED SHOULD BE MADE AS MUCH LIKE THE STIMULI IN THE PERFORMANCE OR BEHAVIOR IN THE FINAL TASK AS POSSIBLE. IS APPARENT THAT CONVENTIONAL PRINTED OR LECTURED VERBAL STIMULI HAVE ONLY SYMBOLIC SIMILARITY TO VISUAL IDENTIFICATION LEARNING TASKS AND WOULD NOT BE EXPECTED TO TRANSFER OPTIMALLY TO THE FINAL TASK SITUATION. ON THE OTHER HAND, HIGH AMOUNTS OF POSITIVE TRANSFER MAY BE EXPECTED FROM PICTURED REPRESENTATIONS (SUCH AS FILMS, SLIDES, FLAT PICTURES) OF STIMULUS OBJECTS WHERE THE FINAL TASK PERFORMANCE REQUIRES CRUCIAL KNOWLEDGE OF THESE OBJECTS. THE PURPOSE OF VISUALS OF THE KIND IS TO PRACTICE, IN THE LEARNING SITUATION, THE RESPONSE NEEDED IN THE PERFORMANCE SITUATION. GROPPER HAS CALLED THESE "CRITERION VISUALS" BE CAUSE THE "USE OF VISUAL PRESENTATIONS APPEARS TO BE DESIRABLE IN THOSE SUBJECT MATTERS IN WHICH VISUALLY PERCEIVED PHYSICAL OBJECTS AND EVENTS ARE INTEGRAL PARTS OF THE CRITERION SITUATION". THAT IS, THE LEARNER SHOULD BE ABLE TO OBSERVE, DESCRIBE, INTERPRET, OR RECONSTRUCT THE PRECISE CONTENT PRESENTED IN THE INSTRUCTION.

THAT CLOSELY REPRESENT THE PHYSICAL CHARACTERISTICS OF THIS MATERIAL BEING TAUGHT SHOULD BE EFFECTIVE IN THE TEACHING OF VISUAL DISCRIMINATIONS. THOSE INSTRUCTIONAL MEDIA PARTICULARLY HIGH IN THIS QUALITY ARE SOUND MOTION PICTURE FILMS, FILMSTRIPS, SLIDES, PHOTOGRAPHIC ILLUSTRATIONS, AND THREE-DIMENSIONAL OBJECTS. INTERESTINGLY ENOUGH, HOWEVER, LITTLE AUDIOVISUAL MEDIA RESEARCH HAS LOOKED SPECIFICALLY AT THIS PROBLEM. RATHER, THE RESEARCH HAS TESTED THE EFFECTS OF STIMULUS MATERIALS THAT HAVE MIXED OBJECTIVES; THUS, IT IS NOT POSSIBLE TO DETERMINE THE SPECIFIC OBJECTIVE. THE BEST WE CAN DO AT THIS POINT IS TO SAY THAT THE THEORY STRONGLY INDICATES THAT INSTRUCTIONAL MEDIA OF REPRESENTATIONAL NATURE WOULD BE HIGHLY EFFECTIVE IN THE TEACHING OF VISUAL IDENTIFICATIONS.

3. LARNING PRINCIPLES, CONCEPTS AND RULES. THIS TASK INVOLVES THE LEARNING AND UNDERSTANDING OF RELATIONSHIPS AMONG THINGS OR EVENTS, THE MEANING OF RULES, OR THE PRINCIPLES PERTAINING TO THE FUNCTIONING OF DIFFERENT KINDS OF OPERATIONS.

IN THE TEACHING OF ART, THIS OBJECTIVE WOULD BE ASSOCIATED WITH LEARNING OF PRINCIPLES GOVERNING COLOR OR THE UNDERSTANDING OF THE CONCEPTS UNDERLAYING THE VARIOUS SCHOOLS OF ART.

THERE IS LITTLE EXPERIMENTAL RESEARCH WITH PROJECTED MATERIALS OR TELEVISION LEARNING ON THIS PARTICULAR OBJECTIVE. HOWEVER, A RECENT STUDY BY GROPPER USED THE PROGRAMED INSTRUCTION MODE TO STUDY THE LEARNING OF SCIENCE CONCEPTS AND PRINCIPLES ON THE BASIS OF EITHER VISUAL (PICTORIAL) OR VERBAL (PRINT) PRESENTATION ALONE. GROPPER FOUND THAT WHEN A TOTALLY VISUAL (PICTORIAL) PRESENTATION OF THE CONCEPT TO BE LEARNED PRE-CEDED A VERBAL (PRINT) PRESENTATION OF THE SAME CONCEPT, THE LEARNING WAS SIGNIFICANTLY GREATER AND TOOK SIGNIFICANTLY LESS LEARNING TIME THAN WHEN THE VERBAL PRESENTATION PRECEDED THE VISUAL ONE. THE IMPORTANCE OF THIS STUDY, FOR OUR PURPOSES HERE, ARE TWOFOLD. FIRST, IT REPRESENTS A SYSTEMATIC ATTEMPT TO DEVELOPE A STRATEGY OF INSTRUCTIONAL MEDIA USE BY MANIPULATING CERTAIN VARIABLES AND CONTROLLING OTHERS TO ARRIVE AT A GENERALIZABLE CONCLUSION. SECOND, IT PRESENTS SOME VERY CONVINCING EVIDENCE IN SUPPORT OF THE EFFECTIVENESS OF VISUAL (PICTORIAL) PRESENTATIONS.

- 4. LEARNING PROCEDURES. THIS TASK INVOLVES LEARNING TO CARRY OUT A SEQUENCE OF ACTS OR OPERATIONS IN THE PROPER ORDER. IN THE TEACHING OF ART, THESE MIGHT BE THE LEARNING OF THE PROCEDURE FOR THE MAKING OF A SILK SCREEN PRINT OR THE PROCEDURE TO FOLLOW IN PREPARING ART MEDIA FOR USE. BECAUSE OF THE FAIRLY SIMPLE NATURE OF THE ORDER OF MOST ART PROCEDURES, THIS LEARNING OBJECTIVE MAY NOT BE AS IMPORTANT AS THE OTHERS. THERE IS NO RECOGNIZABLE AUDIOVISUAL RESEARCH RELATING DIRECTLY TO THIS PROBLEM, BUT IT MIGHT BE EXPECTED THAT SOUND MOTION PICTURES, TELEVISED INSTRUCTION, PROGRAMED INSTRUCTION, AND DEMONSTRATIONS WOULD BE THE EDUCATIONAL MEDIA MOST APT TO ENHANCE SUCH LEARNING.
- 5. PERFORMING SKILLED PERCEPTUAL-MOTOR ACTS. THIS TASK INVOLVES THE USE OF SIMPLE AND COMPLEX PERCEPTUALMOTOR SKILLS FOR PERFORMING A MANIPULATION TASK. IN THE TEACHING OF ART, THIS MIGHT ENTAIL THE LEARNING OF PROPER MANIPULATIVE TECHNIQUES WITH ART MEDIA SUCH AS THE HANDLING OF TOOLS, WATERCOLOR WASHES, ETC..

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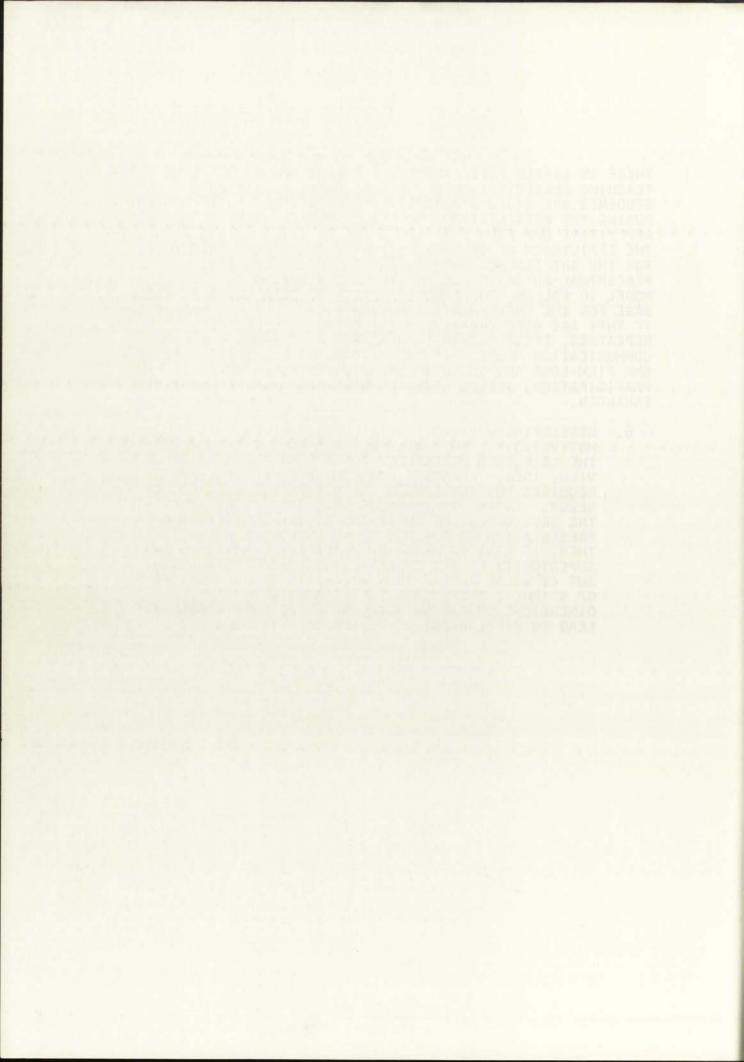
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PERIODINES THE USE OF STANDED COMPLEX PERSETUALISMS IN THE LEARNING OF STANDED COMPLEX PERSETUALISMS AS SECULAR PERSONAL PROPERTY OF ART. THE LEARNING OF ART THE LEARNING OF THE LEARNING OF

THERE IS LITTLE DOUBT ABOUT THE EFFECTIVENESS OF FILMS IN TEACHING PERCEPTUAL-MOTOR SKILLS, PARTICULARLY WHEN STUDENTS ARE GIVEN OPPORTUNITIES FOR ACTIVE PARTICIPATION DURING THE PRESENTATION PROCESS. STUDIES USING THE REPETITIVE 8MM FILM-LOOP FOR SKILL TRAINING HAVE DEMONSTRATED THE EFFICIENCY OF THIS PROMISING INSTRUCTIONAL TECHNIQUE. FOR THE ART TEACHER WHO WISHES TO DEVELOP SPECIFIC PERCEPTUAL-MOTOR SKILLS AND TO GIVE STUDENTS AN EXEMPLARY MODEL TO FOLLOW, THERE WOULD APPEAR TO BE A SOUND RESEARCH BASE FOR THE EMPLOYMENT OF MOTION PICTURE FILMS, PARTICULARLY IF THEY ARE USED CREATIVELY (STOPPING FOR PRACTICE, REPEATING, ETC.) RATHER THAN MERELY AS ONE-WAY ONE-TIME COMMUNICATION MEDIA. IF THE TEACHER WILL USE THE REPETITIVE 8MM FILM-LOOP AND BUILD IN OPPORTUNITY FOR STUDENT PARTICIPATION, SKILLS LEARNING WILL PROBABLY BE GREATLY ENHANCED.

6. DEVELOPING DESIRABLE ATTITUDES, OPINIONS AND MOTIVATIONS. THIS TASK RELATES TO THE ENHANCEMENT OF THE LEARNER'S PREFERENCE FOR A PARTICULAR POINT OF VIEW, IDEA, PRACTICE, OR COURSE OF ACTION, AND REQUIRES THE INVOLVEMENT OF HIS DRIVES, WISHES, OR NEEDS. IN THE TEACHING OF ART, THIS MIGHT INVOLVE THE DEVELOPMENT OF AWARENESS OF THE AESTHETICS OF PRESENTATION OR THE DESIRE TO ENGAGE IN ART ACTIVITIES. THERE IS LIMITED RESEARCH EVIDENCE POINTING TO THE SUPERIORITY OF ANY SPECIFIC MEDIUM OF INSTRUCTION; BUT IT WOULD APPEAR THAT A VARIETY OF DIFFERNT KINDS OF STIMULI, PRESENTING THE LEARNER WITH MANY DIMENSIONS OF THE SUBJECT, WOULD BE MOST LIKELY TO LEAD TO DEVELOPMENT OF DESIRABLE ATTITUDES.



# LEARNING OBJECTIVES:

			1	l	1		1	1	
Developing Desirable Attitudes, Opinions & Motivations	L	Σ	М	٦	Σ	Σ	Σ	Σ	Ψ
Performing Skilled Perceptual- Motor Acts	٦	Σ	٦	L	Г	T	M	Г	Γ
Learning Proce- dures	Σ	Н	Σ	٦	M	H	Ξ	M	M
Learning Principles, Concepts & Rules	М	Н	Н	٦	Г	Σ	-1	М	M
Learning Visual Identifi- cations	H	н	M	Н	Γ	M	M	L	1
Learning Factual Information	Σ	Σ	M	Г	M	W	Г	Σ	M
Les Fac INSTRUCTIONAL MEDIA TYPE:	Still Pictures	Motion Pictures	Television	3-D Objects	Audio Recordings	Programed Instruction	Demonstration	Printed Textbooks	Oral Presentation

M- medium H- high L- low

### PART II AIMS

CHANGE IS THE MOST CONSISTENT FACTOR IN AMERICAN EDUCATION TODAY. FROM MODERN MATHEMATICS TO MODULAR SCHEDULING, THE CURRICULUM, CONTENT, STAFF, ORGANIZATION, METHODOLOGY, AND BUILDINGS OF EDUCATION ARE ALL UNDERGOING REAPPRAISAL, EXPERIMENTATION AND CHANGE. THE COMMON GROUND THAT ALL INNOVATIONS SHARE CAN BE EXPRESSED BY THE FOLLOWING AIMS:

1. TO TEACH MORE STUDENTS WITH RELETIVELY FEWER FACULTY MEMBERS.

2. TO TEACH THEM MORE EFFECTIVELY IN SPITE OF THE GROWING COMPLEXITY OF SUBJECT MATTER.

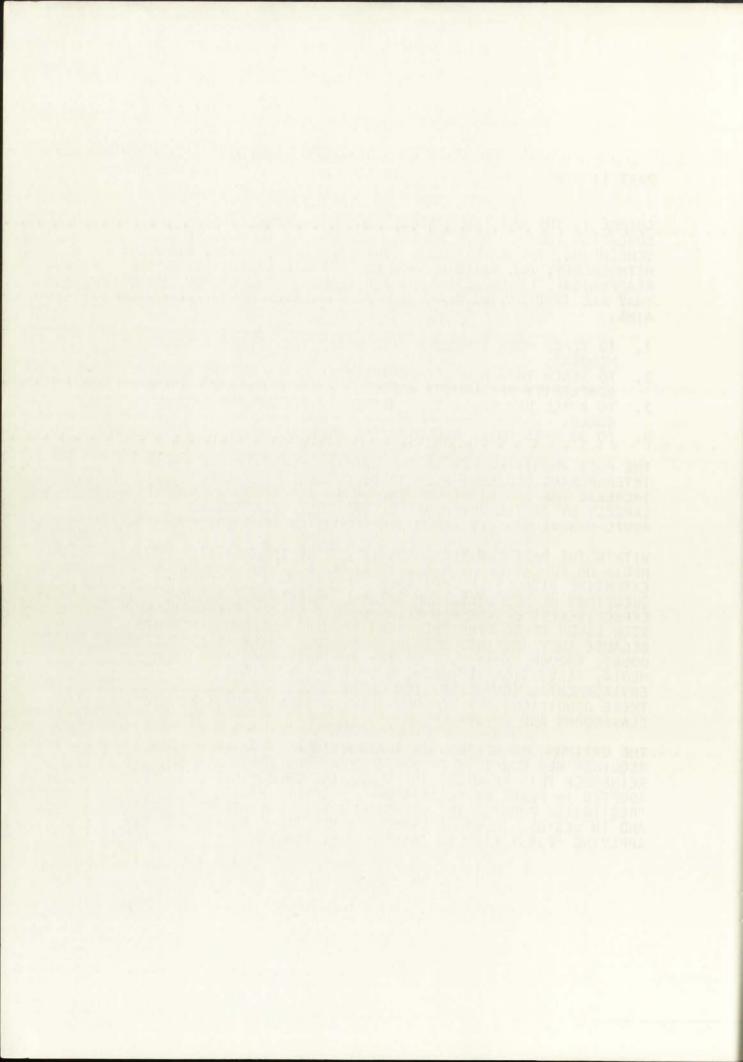
3. TO BUILD NEW FACILITIES NEEDED TO ACCOMPLISH THESE GOALS.

4. TO DO THIS WHILE REDUCING THE OVER ALL COST OF EDUCATION.

THE MOST PROMISING KEY TO THE EVENTUAL SOLUTION OF THESE INTERLOCKING PROBLEMS SEEM TO BE CONCENTRATED EFFORT TO INCREASE THE EFFICIENCY OF THE TOTAL EDUCATIONAL PROCESS LARGELY BY TAKING ADVANTAGE OF THE FULL SPECTRUM OF AUDIO-VISUAL DEVICES AND OTHER COMMUNICATIONS INSTRUMENTS.

WITHIN THE PAST FEW YEARS THE IMPACT OF THE NEW AIDS AND MEDIA ON EDUCATION AT ALL LEVELS HAS BEEN THE SUBJECT OF EXTENSIVE DISCUSSION. PRIMARY INTEREST HAS CENTERED IN QUESTIONS OF PEDAGOGY, EDUCATIONAL PHILOSOPHY, AND THE EFFECTIVENESS OF THE NEW TECHNIQUES. LITTLE ATTENTION HAS BEEN GIVEN TO SOLVING THE ARCHITECTURAL PROBLEMS, PERHAPS BECAUSE THEY HAVE NOT BEEN RECOGNIZED. THERE IS LITTLE DOUBT, THOUGH, THAT MOST OF THE INSTRUCTIONAL AIDS AND MEDIA, TELEVISION INCLUDED, REQUIRED SPECIFIC ENVIRONMENTAL CONDITIONS.FOR THEIR MOST EFFECTIVE USE. THESE CONDITIONS ARE NOT PROVIDED IN CONVENTIONAL COLLEGE CLASSROOMS AND BUILDINGS.

THE OPTIMUM USE OF THE NEW INSTRUCTIONAL AIDS AND MEDIA, REQUIRES NEW CONCEPTS OF SPACE TYPES AND THEIR DESIGN. TO REINFORCE THIS PREMISE, THE "LEARNING SPACE" HAS BEEN ADOPTED IN PLACE OF "CLASSROOM", "LECTURE HALL", OR "RECITATION ROOM". THE LEARNING SPACES ARE NEW IN FUNCTION AND IN DESIGN. GOOD LEARNING SPACES CANNOT BE CREATED BY APPLYING "FIRST AID" TO CONVENTIONAL SPACES.



THE PLANNING OF FACILITIES WITH INSTRUCTIONAL AIDS AND MEDIA REQUIRES NOT ONLY A GRASP OF PRESENT USAGE, BUT A FORECASTING OF TRENDS. THE EDUCATIONAL FACILITIES LABORATORY OFFERS THE FOLLOWING DEVELOPMENTS TO BE ANTICIPATED:

PROMOTION HAVE BROUGHT THE USE OF AIDS AND MEDIA TO PRESENT STATUS. WITHOUT SUCH INCENTIVE IT SEEMS DOUBTFUL THAT AMERICAN EDUCATION COULD HAVE ESPOUSED LEARNING MEDIA AS EXTENSIVELY AS IT HAS. NOTHING INDICATES THAT SUCH SUPPORT AND PROMOTION WILL BE WITHDRAWN; IF ANYTHING, THEY WILL BE EXPANDED.

2. INSTRUCTIONAL AIDS AND MEDIA WILL NOT "TAKE OVER" EDUCATION; TEACHERS WILL NOT BE REPLACED BY MACHINES. MEDIA BROADEN THE SPECTRUM OF EDUCATION; THEY DO NOT, OF THEMSELVES, PROVIDE AN EDUCATION. EVEN THE MOST MEDIA-ORIENTED EDUCATIORS RECOGNIZE VALID LIMITS AND RESTRICTIONS, AND ARE SIMPLY TRYING TO ESTABLISH THE MOST APPROPRIATE ROLES FOR MEDIA WITHIN THE EDUCATIONAL PROCESS.

3. THE UTILIZATION AND ADMINISTRATION OF AIDS AND MEDIA HAVE GENERALLY BEEN FRAGMENTED; IN FACT, THE DEVELOPMENT OF MEDIA HAS BEEN A HISTORY OF "AUDIO-VISUAL CULTS". AN INTEGRATED, MULTI-MEDIA APPROACH HAS ONLY RECENTLY BEEN RECOGNIZED AS SIGNIFICANT FOR SUCESS AND THIS CONCEPT WILL GROW. THE FILM MAKERS, THE TELEVISION SPECIALISTS, THE GRAPHIC ARTISTS, AND EQUIPMENT MANFACTURES WILL BE BROUGHT MORE AND MORE TOGETHER BOTH PHYSICALLY, AND PHILOSOPHICALLY. THIS IS THE FIRST REQUISITE FOR MORE EFFECTIVE MULTI-MEDIA USAGE AND SYSTEMS APPROACH TO LEARNING.

4. IN THE FUTURE, THE CLASSROOM TEACHER WILL BE BETTER PREPARED FOR, AND MORE SYMPATHETIC TOWARD, THE USE OF MEDIA IN DAY-BY-DAY INSTRUCTION.

5. THE AMOUNT OF HARDWARE AVAILABLE, THE VARIETY OF EQUIPMENT AND THE NUMBER OF FUNCTIONS IT CAN PERFORM, ARE INCREASING AND WILL CONTINUE TO INCREASE AT A RAPID RATE.

6. BECAUSE OF THE INTELLECTUAL CHALLENGE AND POTENTIAL CREATIVITY OF MEDIA IN EDUCATION, A SPECIALTY GROUP OF EDUCATIORS, SKILLED AND HIGHLY MOTIVATED IN USES OF MEDIA, WILL DEVELOP. THESE PERSONS WILL BE MORE THAN TEACHNICIANS; THEY WILL BE MEDIA-PEDAGOGISTS WHO WILL CREATE LEARNING SITUATIONS THAT WILL USE MEDIA AT ITS MAXIMUM VALUE.

THE SUPPORTING TEAM WILL ALSO INCLUDE THE PRODUCTION SPECIALLISTS WELL VERSED IN EFFECTIVE TELEVISION PRODUCTION, FILM MAKING, GRAPHIC PRODUCTION, PROGRAMMING, AUDIO RECORDING AND RADIO.

THESE SPECIALISTS WILL BE SUPPORTED, AS WILL THE FACULTY, BY TECHNICIANS KNOWLEDGEABLE IN MEDIA HARDWARE, ITS OPERATION, MAINTENANCE, AND REPAIR.

7. ALONG WITH THE AMASSING OF INFORMATION AND THE EXPANDED USE OF MEDIA MUST COME MORE EFFICIENT SYSTEMS FOR STORING AND CALLING UP INFORMATION. HOWEVER, SUCH SYSTEMS WILL BE DEVELOPED AND WILL PRACTICAL ONLY FOR INFORMATION THAT IS IN GREAT DEMAND. IT IS INCONCEIVABLE THAT THERE WILL EVER BE A TIME WHEN ALL INFORMATION, REGARDLESS OF REMOTENESS AND LIMITED APPLICATION, WILL BE READILY ACCESSIBLE THROUGH HIGH SPEED RETRIEVAL SYSTEMS. THE USE OF DIAL-UP SYSTEMS WILL LIKELY BE LIMITED TO INFORMATION OF THE "READY REFERENCE" TYPE.

THE PHILOSOPHY BEHIND THE MEDIA CENTER IS THIS:

LARGE-GROUP INSTRUCTION IS TO BE AN INTEGRAL PART OF THE FABRIC OF COLLEGE INSTRUCTION, WHICH IS NECESSARY TO INSTRUCT MORE STUDENTS AND STILL ACCOMPLISH IT ECONOMICALLY.

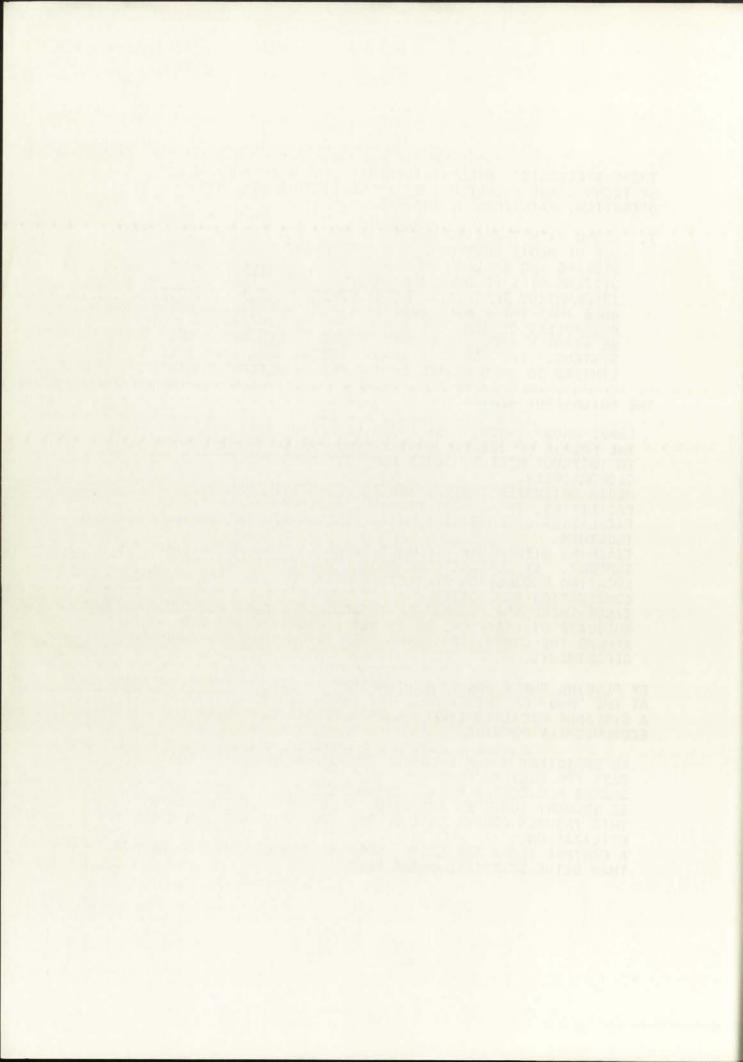
MEDIA ORIENATED INSTRUCTION PLACES GREAT DEMANDS ON FACILITIES, THERE FORE IT MAKES SENSE TO PLACE SIMILAR FACILITIES OF THIS KIND, WITH SIMILAR REQUIREMENTS, TOGETHER.

TEACHING WITH MEDIA REQUIRES TECHNICAL AND PRODUCTION SUPPORT. BY CENTRALIZING TEACHING FACILITIES, AND LOCATING PRODUCTION FACILITIES NEAR THEM, A REAL WORKING COMBINATION IS EVOLVED.

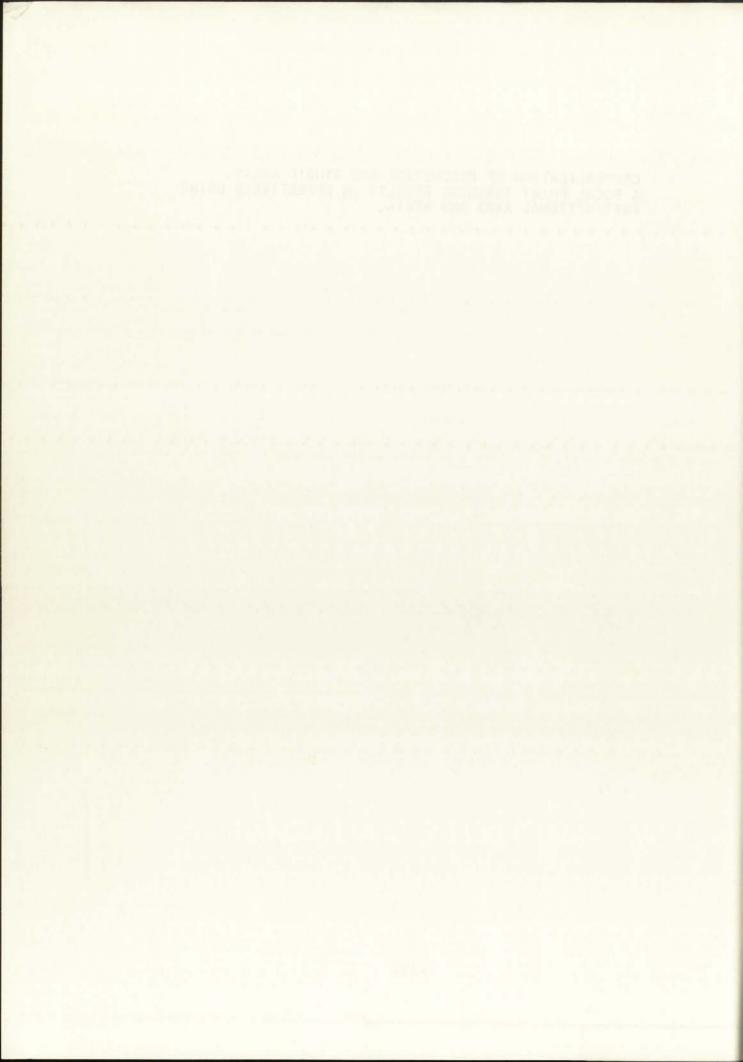
SINCE THESE SPACES MUST BE INTERDISCIPLINARY TO RECEIVE ADEQUATE UTILIZATION, IT IS NOT LOGICAL TO SCATTER THEM AROUND THE CAMPUS, ASSIGNING THEM TO THE VARIOUS ACADEMIC DEPARTMENTS.

BY PLACING THESE FUNCTIONS TOGETHER IN ONE OR TWO BUILDINGS AT THE "HUB" OF THE CAMPUS, THE MEDIA CENTER IS EVOLVED AS A DISTINCT FACILITY TYPE. SUCH A CENTER CAN THEN ECONOMICALLY PROVIDE:

AN EFFICIENT ARRANGEMENT OF THE ODD ROOM SHAPES THAT ARE BEST FOR LECTURE ROOMS.
SHARED PROJECTION AREAS, ALLOWING EXPENSIVE EQUIPMENT TO BE BROUGHT TOGETHER AND USED IN ONE AREA OF THE CAMPUS. THIS INSURES PROPER CARE OF THE EQUIPMENT AND ITS ADEQUATE UTILIZATION.
A CENTRAL TECHNICAL STAFF, WORKING IN ONE BUILDING RATHER THAN BEING SCATTERED AMONG MANY.



CENTRALIZATION OF PRODUCTION AND STUDIO AREAS.
A FOCAL POINT TRAINING FACULTY IN EFFECTIVELY USING INSTRUCTIONAL AIDS AND MEDIA.



PART III SPACE REQUIREMENTS.

DUE TO THE CENTRALITY OF THE ZIMMERMAN PLAZA SITE AND ITS PROXIMITY TO THE MAJOR EXISTING CLASSROOMS, IT IS APPROPRIATE THAT MOST OR ALL OF THE ADDITIONAL CLASSROOM FACILITIES BE BUILT BETWEEN THE PRESENT AND SUCH TIME AS THE PROJECTED LIMITS OF 25,000 STUDENTS IS REACHED, SHOULD BE LOCATED IN THIS AREA.

AT THE PRESENT TIME, WITH STUDENT ENROLLMENT STANDING AT 12,000 STUDENTS, BOTH FULL AND PART-TIME, THERE IS A CUMULATIVE TOTAL OF 123,000 STUDENT-HOURS PER WEEK SPENT IN GENERAL CLASSROOM FACILITIES, BASED ON A 67-HOUR WEEK. APPROXIMATELY 80 PER CENT OF THESE STUDENT-HOURS ARE INVOLVED IN CLASSES HELD DURING 9 DAYTIME HOURS, 5 DAYS A WEEK. DURING THIS 45-HOUR WEEK, 98,000 STUDENT-HOURS ARE SPENT IN GENERAL CLASSROOMS. I WILL BASE ALL FURTHER CALCULATIONS PERTAINING TO NEED AND USE ON THIS 45-HOUR WEEK, AS ALL INDICATIONS SHOW THIS PERIOD AS THE CONTINUING PERIOD OF HIGHEST UTILIZATION.

ON THE BASIS OF A 45-HOUR WEEK, THERE IS A TOTAL CAPACITY OF 284,000 STUDENT-STATION-HOURS PER WEEK IN EXISTING CLASSROOM FACILITIES, WHICH OPERATE AT A CUMULATIVE EFFICIENCY OF 34.5 PER CENT. BY USE OF COMPUTERIZED SCHEDULING, OTHER UNIVERSITIES AND COLLEGES HAVE SUCCESSFULLY RAISED THIS FACTOR OF UTILIZATION EFFICIENCY TO LEVELS AS HIGH AS 85 PER CENT. HOWEVER, THIS EFFICIENCY LEVEL IS SOMEWHAT HIGH FOR PLANNING PURPOSES, SO I HAVETHEREFORE ARBITRARILY SET THE EFFICIENCY STANDARD AT 66 PER CENT, WHICH LEVEL SHOULD PROVIDE A SUFFICINTLY BROAD LATITUDE FOR CONTINGENCIES AND POSSIBLE GROWTH BEYOND THE CURRENTLY STATED LIMITS.

ASSUMING THAT THE PRESENT AVERAGE OF 8.3 STUDENT-HOURS PER WEEK PER STUDENT IN CLASSROOM INSTRUCTION SHALL REMAIN MATERIALLY UNCHANGED IN THE FORSEEABLE FUTURE, AT THAT TIME THAT THE THEORETICAL LIMIT ON ENROLLMENT IS ARRIVED AT, CAPACITY OF 206,000 STUDENT-STATION-HOURS PER WEEK WILL BE NEEDED. IN THE INTERIM, HOWEVER, AN ESTIMATED TOTAL OF 97,000 STUDENT-STATION-HOURS PER WEEK WILL BE LOST TO CLASSROOM USE DUE TO THE REMOVAL OF BUILDINGS AND CONVERSION OF CLASSROOMS TO OTHER USES. THIS LOSS WILL LEAVE A 207,000 STUDENT-STATION-HOURS PER WEEK CAPACITY IN BUILDINGS TO BE CONTINUED IN USE.

AT 66 PER CENT EFFICIENCY, A TOTAL CAPACITY OF 343,300 STUDENT-STATION-HOURS PER WEEK WILL BE NEEDED, LEAVING A TOTAL CAPACITY OF 146,300 STUDENT-STATION-HOURS PER WEEK, OR 3,200 STUDENT-STATIONS, TO BE BUILT.

BECAUSE OF THE EVER-INCREASING FRESHMAN ENROLLMENT AND AN APPARENTLY CONTINUING SHORTAGE OF HIGHLY QUALIFIED PROFESSORS, THERE IS NOW AND WILL BE INCREASINGLY IN THE FUTURE, A NEED FOR LARGE CLASSROOM SPACES IN WHICH ONE VERY GOOD MAN CAN PRESENT BASIC MATERIAL TO A LARGE NUMBER OF STUDENTS, AND FOR SMALL LECTURE AND SEMINAR ROOMS WHERE THE MATERIAL PRESENTED IN THESE LECTURES CAN BE DISCUSSED BY A SMALLER BODY OF STUDENTS AND A LOWER-RANKEDINSTRUCTOR.

I THERFORE DIVIDED THE REQUIRED NUMBER OF STUDENT-STATIONS TO BE BUILT INTO A VARIETY OF CLASS SIZES WITH THE EMPHASIS ON THE LARGER LECTURE HALLS.

## PUBLIC SPACE:

LOBBY	4,000	SQ.FT	
EXHIBITION	1,000	11	11
RECPTION	500	H	11
REST ROOMS	AS	REQ'D	
INSTRUCTION SPACE:			
100 INDIVIDUAL STUDY AREAS	20	11	11
20 GROUP SEMINAR ROOMS	400	ii .	n
12 A-V LECTURE ROOMS FOR 50	900	н	11
8 SLOPE FLOOR LECTURE HALLS FOR 150	2,500	н	11
4 SLOPE FLOOR LECTURE HALLS FOR 240	4,000	н	11
2 SLOPE FLOOR LECTURE HALLS FOR 480	8,000	н	н
INFORMATION SPACES:			
BOOK LIBRARY	( EXI	STING	)
COMPUTER CENTER	3,200	11	11
FILM & TAPE LIBRARY	10,000	11	11.
A-V EQUIPMENT STORAGE & REPAIR	3,000	11.	п
MEDIA PRODUCTION & DISTRIBUTION:			
T.V. PRODUCTION & BROADCASTING	20,000	H	п
MOTION PICTURE PRODUCTION	10,000	n	н
RADIO STATION	4,500	0	H
GRAPHIC AND AIDS	14,000	11	н
MEDIA DISTRIBUTION	5,000	Н	11

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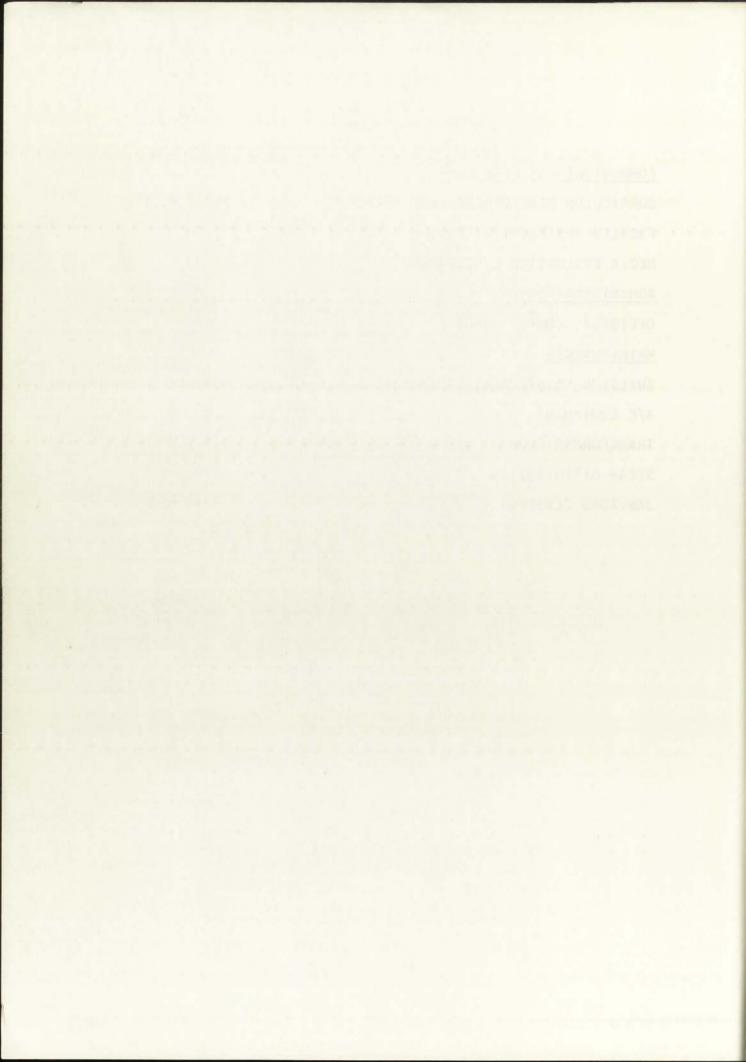
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# COMMUNICATIONS RESEARCH: CURRICULUM DEVELOPMENT FACIL

CURRICULUM DEVELOPMENT FACILITIES	2,000 SQ.FT.
FACULTY INSTRUCTION	4,000 " "
MEDIA EVALUATION & RESEARCH	3,000 " "
ADMINISTRATION:	
OFFICES/ CONF./ SECT./	3,000 " "
MAINTENANCE:	
BUILDING MAINTENANCE STORAGE	4,000 " "
A/C EQUIPMENT	2,000 "
TRANSFORMER ROOM	2,000 "
STEAM DISTRIBUTION	1,200 " "
JANITORS CLOSETS	AS REQID.



#### PUBLIC SPACE:

PUBLIC SPACES OTHER THAN CIRCULATION INCLUDE AN EXIBITION SPACE WHICH WILL BE OPEN FOR A VARIETY OF MATERIALS, ETC. MOSTLY RELATED TO EDUCATION. REST ROOMS WILL BE PROVIDED AS DICTATED BY THE PLAN.

#### INSTRUCTIONAL SPACES:

THIS AREA MOST IMPORTANT TO THE STUDENT, WILL PROVIDE A WIDE VARIATY OF SPACES WHICH WILL FACILITATE ANY COMBINATION OF CLASS SIZE. THE SMALLEST BEING THE INDIVIDUAL STUDY AREA WHICH WILL BE EQUIPTED WITH A VARIETY OF ELECTRONIC DEVICES RANGING FROM EAR PHONES TO A COMPUTER-CONNECTED DIAL-ACCESS SYSTEM ORIENTATED TOWARD SELF-EDUCATION. THEY WILL VARY IN DESIGN; SOME SHOULD GIVE STUDENTS A SENSE OF PRIVACY AND "IDENTITY" BUT NOT COMPLETE ISOLATION, WHILE OTHERS WILL PROVIDE TOTAL ACOUSTIC AND VISUAL PRIVACY. INDIVIDUAL UNITS, PARTICULARLY CARRELS, WILL VARY IN DESIGN AND FUNCTION DEPENDING ON THE LEARNING FUNCTIONS TO BE HOUSED.

THE SEMINAR ROOMS PROVIDED WILL HANDLE UP TO 20 STUDENTS AND WILL FUNCTION SIMILAR TO EXISTING FACILITIES. THE DIFFERIENTATION IS IN THE AVAILABILITY OF THE MEDIA PRESENTED IN THEM. THESE WILL OFTEN OCCUR IN CONJUNCTION WITH LABORATORIES, LARGE GROUP CLASSROOMS, AND SPECIALIZED INSTRUCTIONAL ROOMS WHERE IT IS DESIRABLE TO TAKE A PART OF A GROUP ASIDE FOR SPECIAL SMALL GROUP ACTIVITIES, OR WHERE A LARGE GROUP IS QUICKLY DIVIDED INTO SEVERAL SMALLER GROUPS FOR INTERACTIVE AND MORE PERSONAL LEARNING.

THE AUDIO-VISUAL LECTURE ROOMS WILL ACCOMODATE SMALL GROUPS (UP TO 50 PEOPLE) AND AGAIN WILL BE EQUIPTED WITH VARIOUS MEDIA SYSTEMS APPLICABLE TO SMALL GROUP PRESENTATION. THE GENERAL SHAPE OF THE GROUP ROOM IS OFTEN A SQUARE OR VARIATIONS ON IT, EITHER FOCUSED TO A CORNER OF FOCUSED TO ONE SIDE; IN THE LATTER CASE, THE FRONT CORNERS BECOME STORAGE, PREPARATION, OR OTHER ADJUNCT FACILITIES. THEY ARE GROUPED IN PAIRS SO THEY CAN EXPAND INTO ONE LARGE SPACE.

AS THE GROUP SPACES BECOME LARGE IT BECOMES NESSECARY TO PROVIDE MORE SOPHISTICATED SPACES. THE 120 PERSONS ACCOMODATED IN A SINGLE SPACE DICTATES SUCH THINGS AS SLOPED FLOORS AND ACCOUSTICALLY ORIENTED SIDE WALLS.

LARGE-GROUP INSTRUCTION CAN INCLUDE LEARNING FUNCTIONS OTHER THAN THE SIMPLE PRESENTATION OF INFORMATION. EMPLOYED HERE IS A COMBINATION OF LABORATORY AND LECTURE-DEMONSTRATION FUNCTIONS WITHIN THE SAME FACILITY. THE RESULTING "LECTURE-LABORATORY" PERMITS THE EXPERIMENTAL INFORMATION PRESENTATION FUNCTIONS TO BE CARRIED ON SIMULTANEOUSLY AND WITHOUT CHANGING ROOMS. THE ADVANTAGES OF BEING ABLE TO DEMONSTRATE AND PRESENT INFORMATION TO A GROUP OF STUDENTS SEATED AT LABORATORY STATIONS IS ONE THAT MAY HELP OVERCOME THE PROBLEMS OF AMALGAMATING MEDIA AND INSTRUCTION IN SCIENCE AREAS.

THE 240 AND 480 PERSON LECTURE HALLS WILL PROVIDE BASIC INSTRUCTION AND PRESENTATION OF INFORMATION. EVEN IN SPACES OF THIS SIZE, APPROPRIATE FACILITIES WILL PERMIT THE EXTENSIVE AND EFFECTIVE UTILIZATION OF LEARNING MEDIA WHICH BECOMES MOST EFFICIENT WITH GROUPS OF THIS SIZE.

#### INFORMATIONAL SPACES:

THE BOOK LIBRARY WHICH WILL ALWAYS PLAY A ROLE IN EDUCATION IS PRESENTLY EXISTING AND THERE WILL BE NO NEED TO DUPLICATE THIS FACILITY WITHIN THE PROPOSED COMPLEX.

THE COMPUTER CENTER WHICH WILL NOT HOUSE THE COMPUTERS THEMSELVES BUT WILL PROVIDE STUDY CUBICLES (PUBLIC AREA FOR STUDENT AND FACULITY TO COLLECT INFORMATION) AND TRAINING ROOMS, A CONFERANCE ROOM AND 5 TECHNICIANS OFFICES. THE FUNCTIONS WILL INCLUDE INFORMATION RETRIVAL, PROGRAMED INSTRUCTION, ETC. INCLUDING DATA PROCESSING FOR INVENTORY, SCHEDULING, ETC.

THE FILM AND TAPE LIBRARY WILL BE OPEN TO STUDENT AND FACULTY ALIKE AND WILL FUNCTION IN MUCH THE SAME MANNER AS THE EXISTING LIBRARIES.

THE A-V EQUIPMENT STORAGE AND MAINTENCE SECTION IS ALSO A RENTAL FACILITY FOR STUDENTS AND FACULITY AND WILL OPERATE IN THIS MANNER.

### MEDIA PRODUCTION & DISTRIBUTION:

WITHIN THE PRODUCTION SPACES; T.V., SOUND AND FILM STUDIOS, DRESSING ROOMS, CENTRAL ENGINEERING AND CONTROL, EQUIPMENT STORAGE, PROP STORAGE, FILMPROCESSING AND EDITING AND STAFF SPACES FOR WORK CONFERENCE AND PREVIEWING WILL MAKE UP MAJOR PORTION ALOTTED.

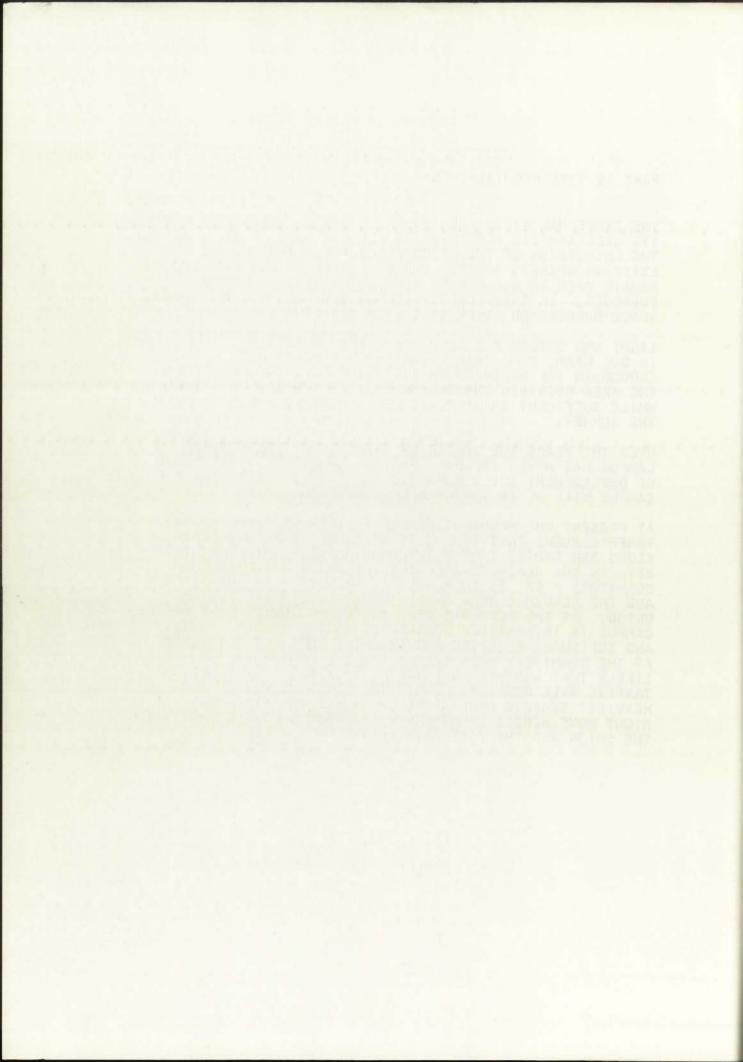
#### PART IV SITE REQUIREMENTS

THE ZIMMERMAN FIELD AREA IS THE PROPOSED SITE BECAUSE OF ITS GEOGRAPHICAL PROXIMITY TO ALL PORTIONS OF THE CAMPUS. THE UNIQUENESS OF THE GEOGRAPHICAL LOCATION AND THE EXISTING OPENESS SUGGEST THE RETENTION IN CONCEPT THAT IT REMAIN OPEN TO ACCOMODATE STUDENT GATHERINGS OF ALL PURPOSES. IN THIS CONNOTATION IT THUS BECOMES A FORMAL SPACE BOUNDED ON EVERY SIDE WITH BUILDINGS.

LIGHT AND SHADOW ARE ALSO PRIME CONSIDERATIONS, PARTICULARLY IN OUR WARM, SEMI-ARID CLIMATE. THE PLAZA MUST BE LONG ENOUGH IN THE NORTH-SOUTH DIRECTION THAT THE MAJORITY OF THE AREA RECEIVES SUN DURING MOST OF THE DAY IN THE WINTER, WHILE SUFFICENT SHADE FOR COMFORT MUST BE PROVIDED DURING THE SUMMER.

OVER THE YEARS THE CENTER OF GRAVITY OF THE CENTRAL CAMPUS HAS MOVED STEADILY EASTWARD. AT THE FINAL STAGE OF DEVELOPMENT THE GEOGRAPHIC AND TRAFFIC CENTER OF THE CAMPUS WILL BE IN THE AREA OF ZIMMERMAN PLAZA.

AT PRESENT THE HEAVIEST SINGLE PATTERN OF CAMPUS FOOT TRAFFIC FLOWS EAST-WEST JUST NORTH OF ZIMMERMAN PLAZA ALONG ASH STREET (THE FUTURE ASH MALL). THIS TRAFFIC, BETWEEN THE ACADEMIC AREA AND THE UNION BUILDING-DORMITORY AREA, IS AUGMENTED BY FLOW BETWEEN THE LIBRARY AND THE ACADEMIC AREA AND BETWEEN THE LIBRARY AND THE UNION. AS THE ACADEMIC AREA IN THE SOUTHWEST PART OF THE CAMPUS IS INTENSIVELY DEVELOPED, AS THE STUDENT ADMINISTRATION AND INFIRMARY BUILDING AND SWIMMING POOL ARE BUILT, AND AS THE DORMITORY AREA EXPANDS TO THE SOUTHEAST, IT SEEMS LIKELY THAT ANOTHER MORE SOUTHERLY LINE OF EAST-WEST TRAFFIC WILL DEVELOP. SINCE THE UNION IS ONE OF THE HEAVIEST TRAFFIC GENERATORS ON CAMPUS THE EAST-WEST FLOW MIGHT MOVE ACROSS ZIMMERMAN PLAZA THROUGH THE GAP BETWEEN THE UNION AND THE FINE ARTS CENTER.



GRAPHICS PRODUCTION WITH ART AND FINISHING STUDIOS, PHOTO AND FINISHING STUDIOS, STAFF AND PREVIEW AREAS WILL TAKE UP TO REMAINDER.

THE FUNCTION OF THE PRODUCTION AREA STAFF WILL BE TO PROVIDE THE NECESSARY ART WORK, ETC. TO FURTHER THE MULTI-MEDIA EDUCATIONAL APPROACH. THE STAFF CORE WILL BE MADE UP OF PERSONS WHO WILL BE MORE THAN TECHNICIANS; THEY WILL BE MEDIA PEDAGOGISTS WHO WILL ALSO HAVE PRODUCTION SPECIALISTS ETC. TO CARRY OUT THE TECHNOLOGICAL ASPECT OF T.V., FILMS, ETC. .

#### COMMUNICATIONS RESEARCH:

THE CURRICULUM DEVELOPMENT FACILITY OBJECTIVES ARE:

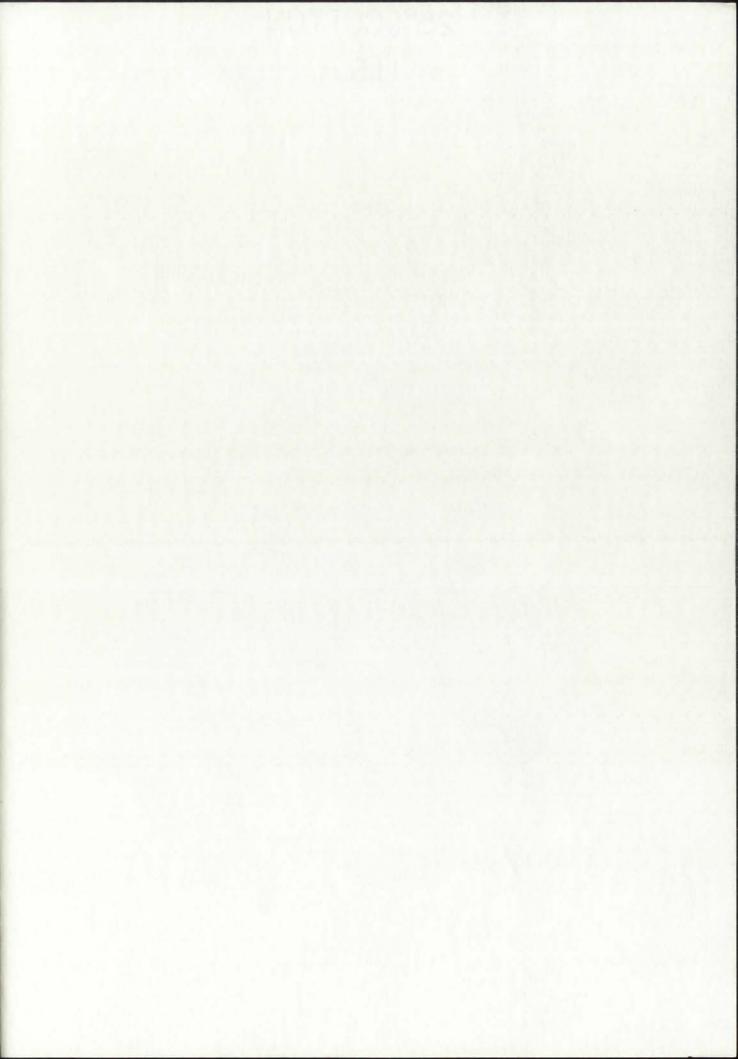
TO CARRY ON A PROGRAM OF EDUCATIONAL RESEARCH.
THESE ACTIVITIES WILL MOST LIKLEY BE ACCOMPLISHED
BY QUALIFIED PERSONS AND WILL HAVE WIDESPREAD
RATHER THAN LIMITED APPLICATIONS.
TO DEVELOP NEW CURRICULUM UNITS WITH SPECIAL
WAYS OF SUPPORTING THEM.
TO TEST, EVALUATED & DISSEMINATE INNOVATIONS

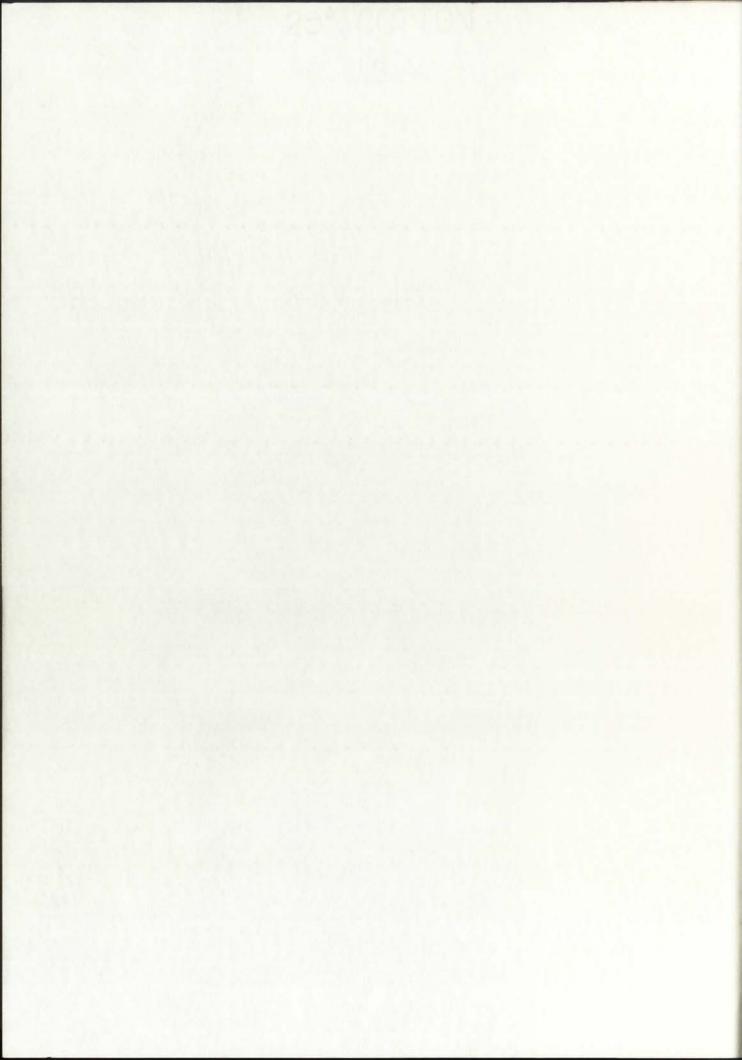
IN ORDER TO ACHIEVE THESE GOALS, THE LABORATORY WILL REMAIN FLEXIBLE. IT WILL ADAPT TO THE SITUATION AS NECESSARY, CHANGING ITS OWN CHARACTER AS IT UNDERTAKES DIFFERANT KINDS OF PROJECTS.

MEDIA EVALUATION WILL BE A RESEARCH ORIENTED FACILITY PROVIDING SMALL OFFICES AND CONFERENCE ROOMS.

#### ADMINISTRATION:

THE ADMINISTRATION OF SUCH A LARGE CENTER WILL NECESSARILY BE DECENTRALIZED FOLLOWING A SYSTEM NOW INFORCE BY DIFFERENT COLLEGES WITHIN THE UNIVERSITY. THUS THE MULTI-MEDIA CENTER DOESN'T BECOME THE PROPERTY OF ANY DEPARTMENT OR DISCIPLINE, ITS USE WILL BE ENCOURAGED FOR ALL DEPARTMENTS.





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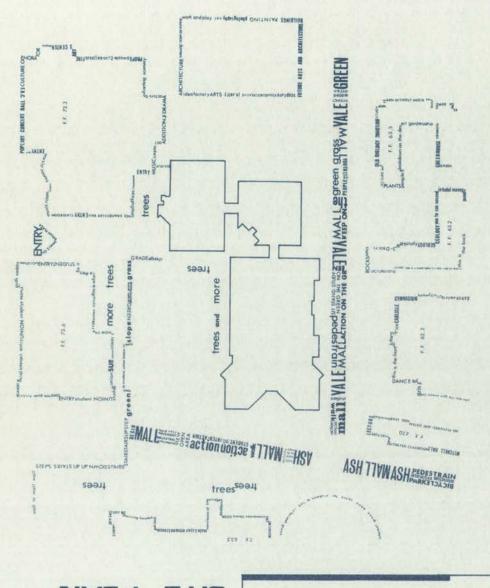
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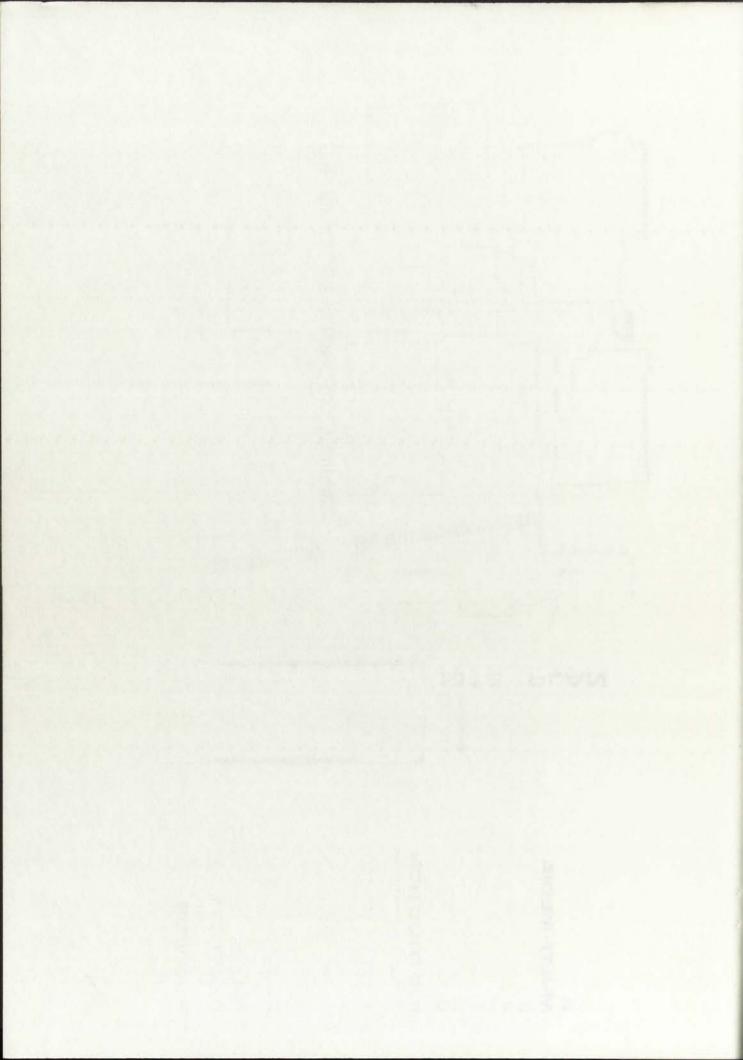
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patrick mcclernon, jr.

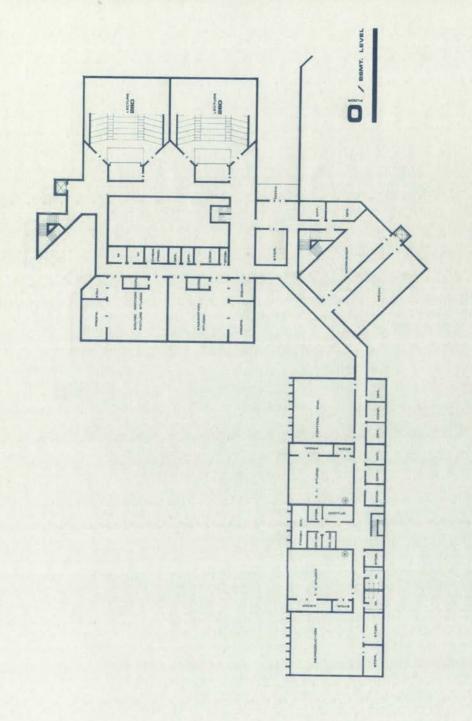
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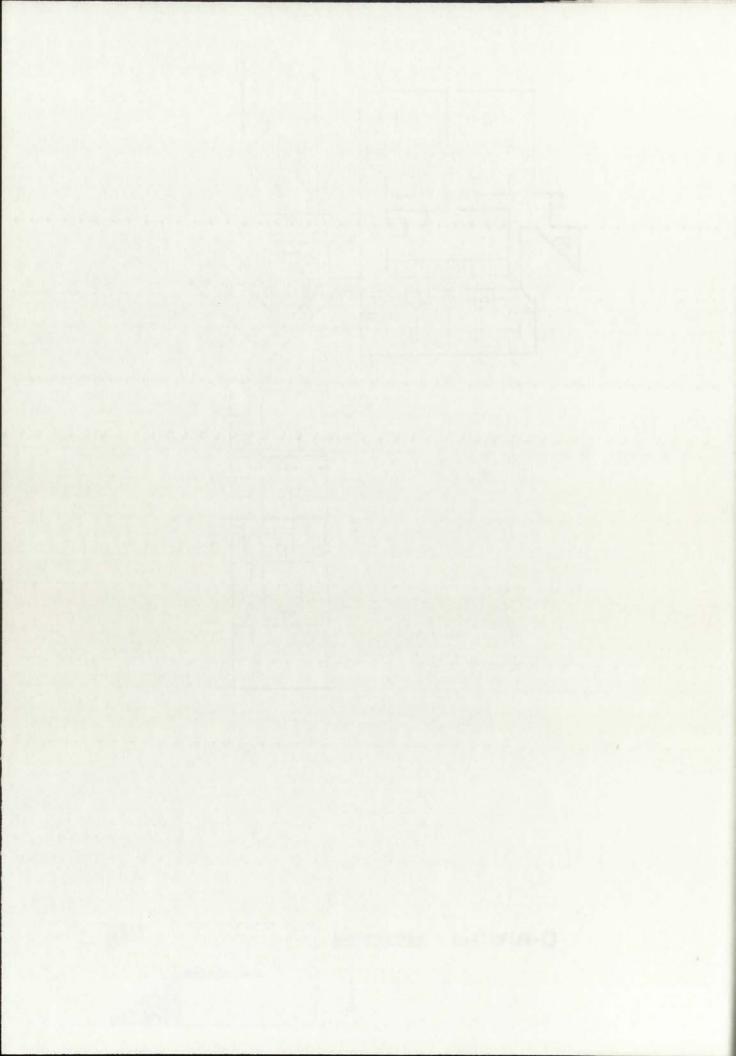


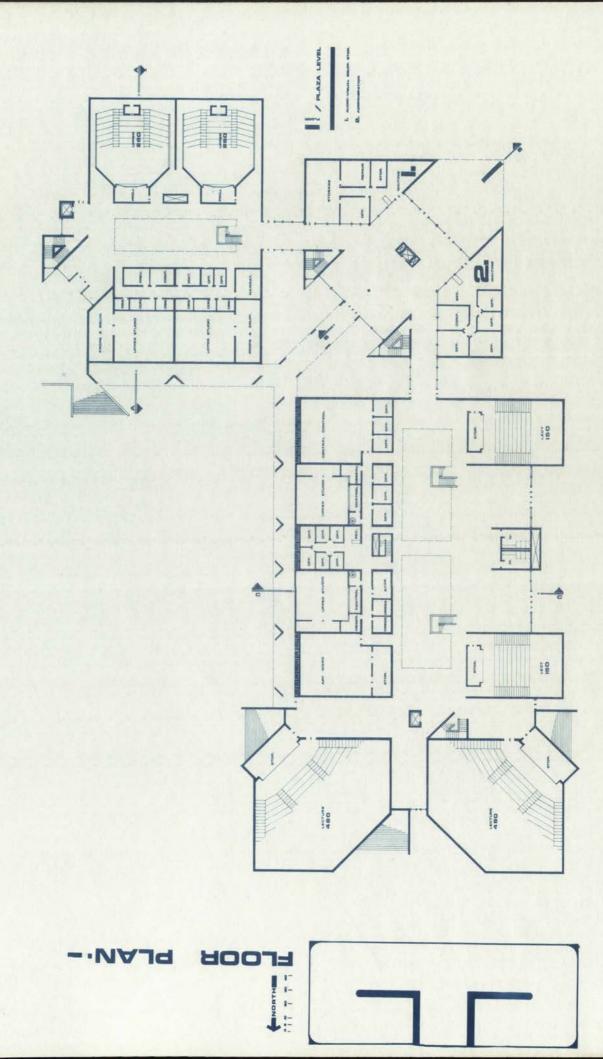


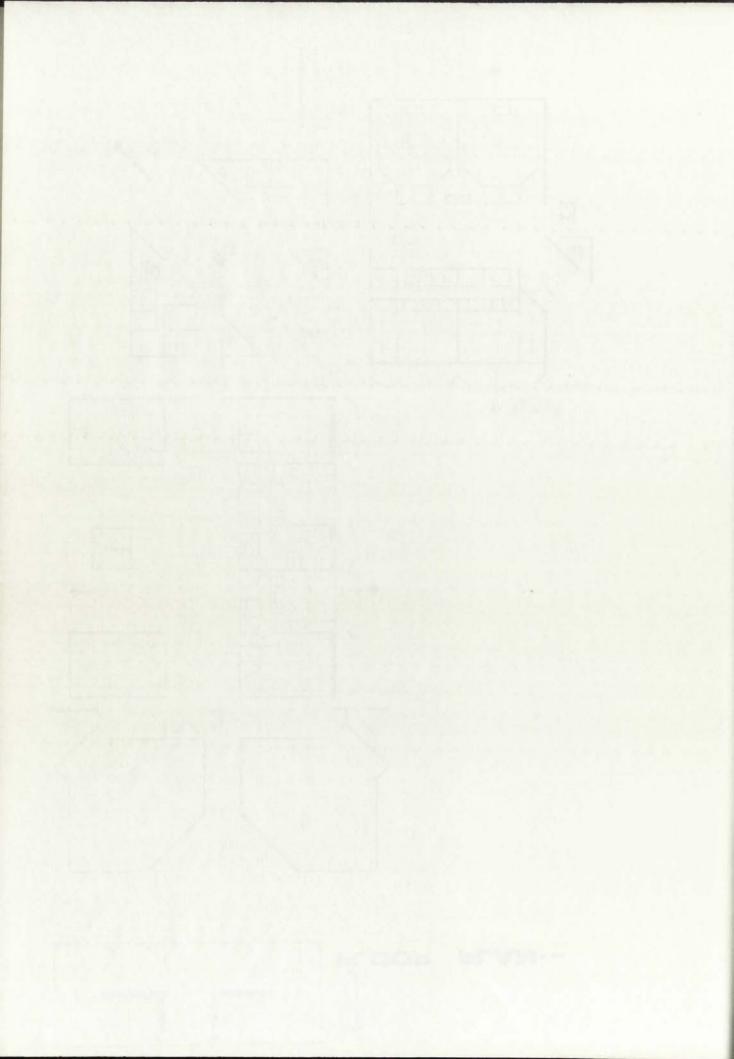
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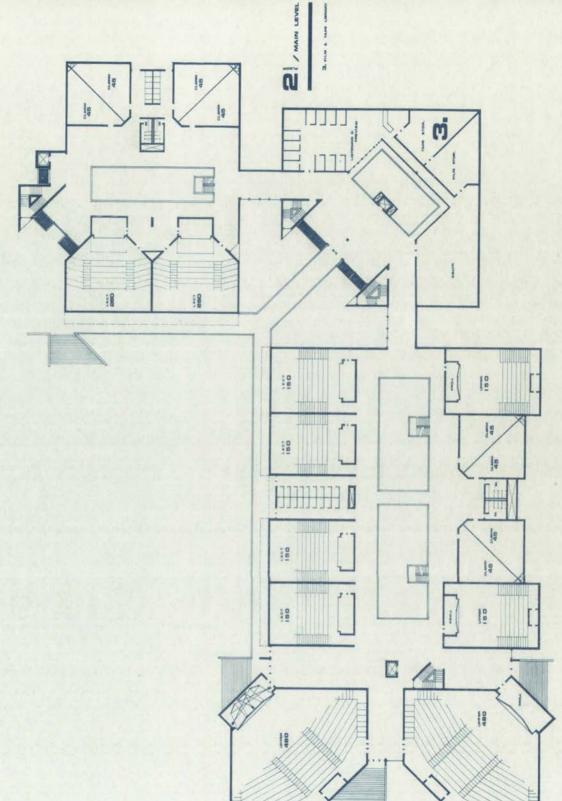


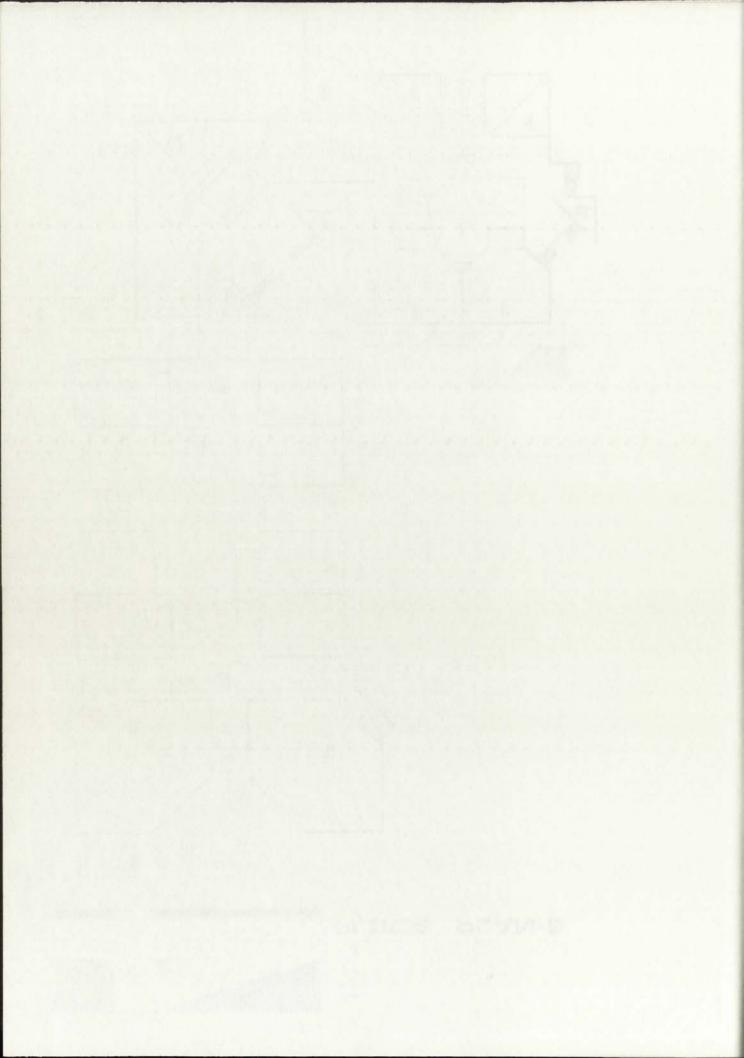






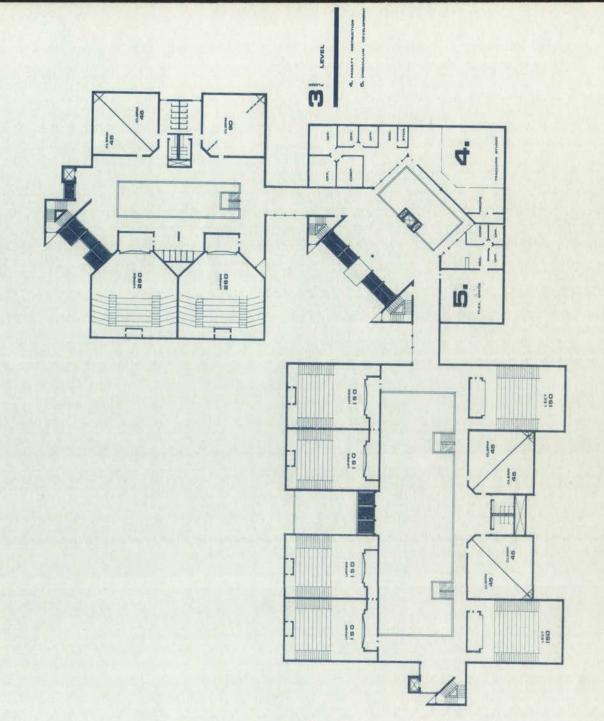
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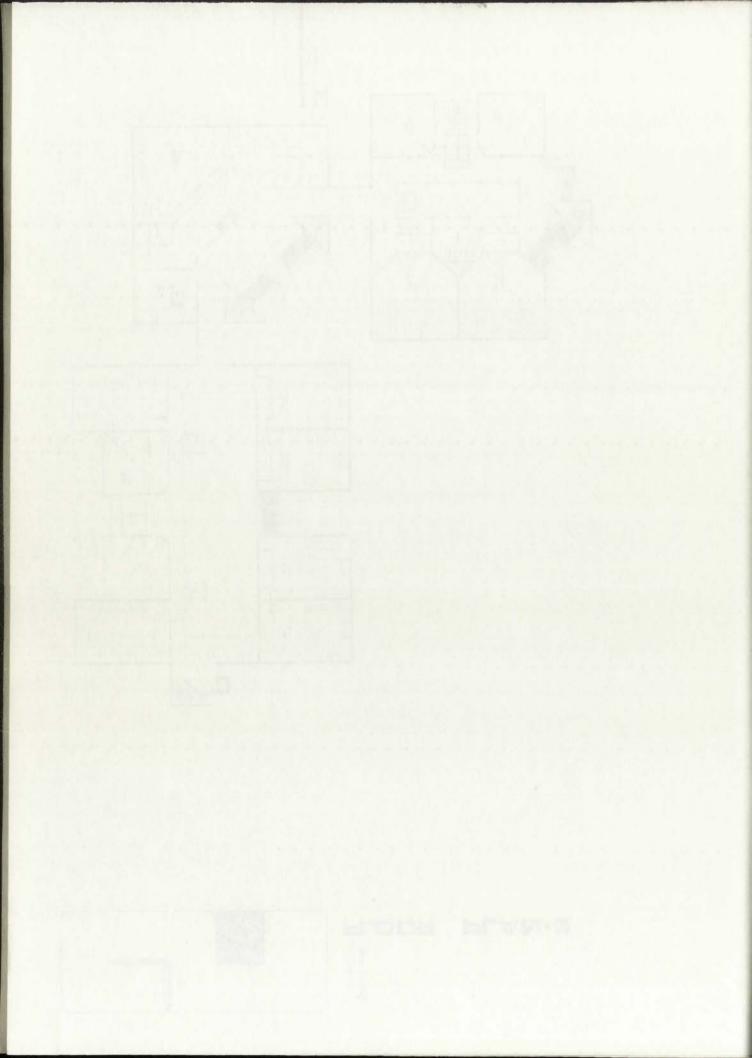


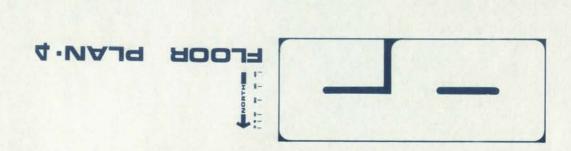


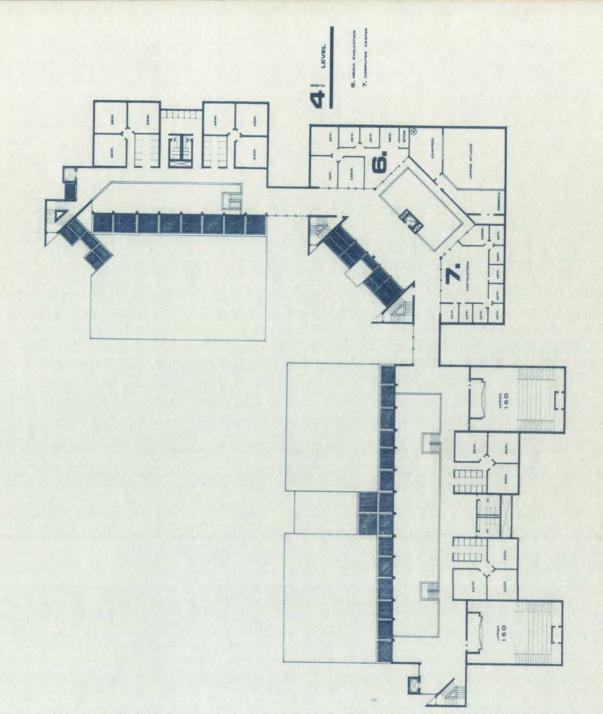
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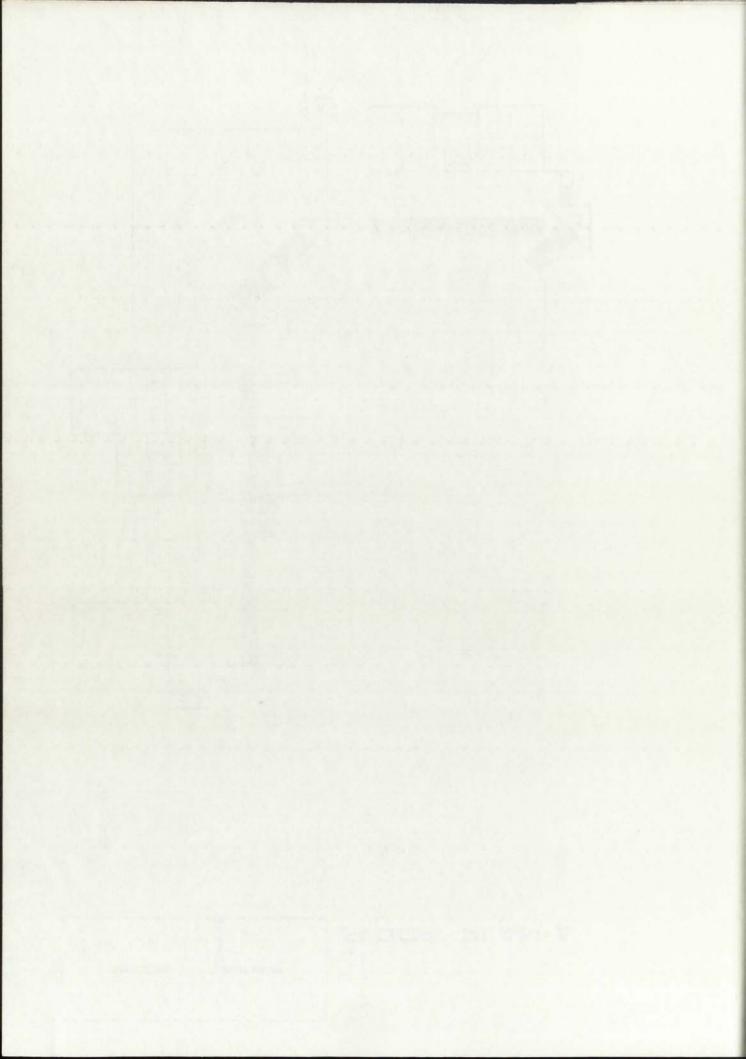




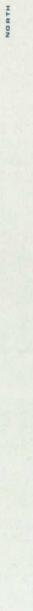


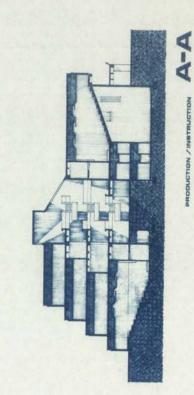


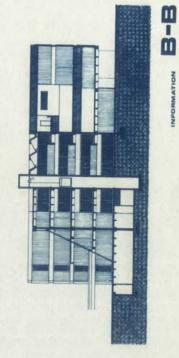


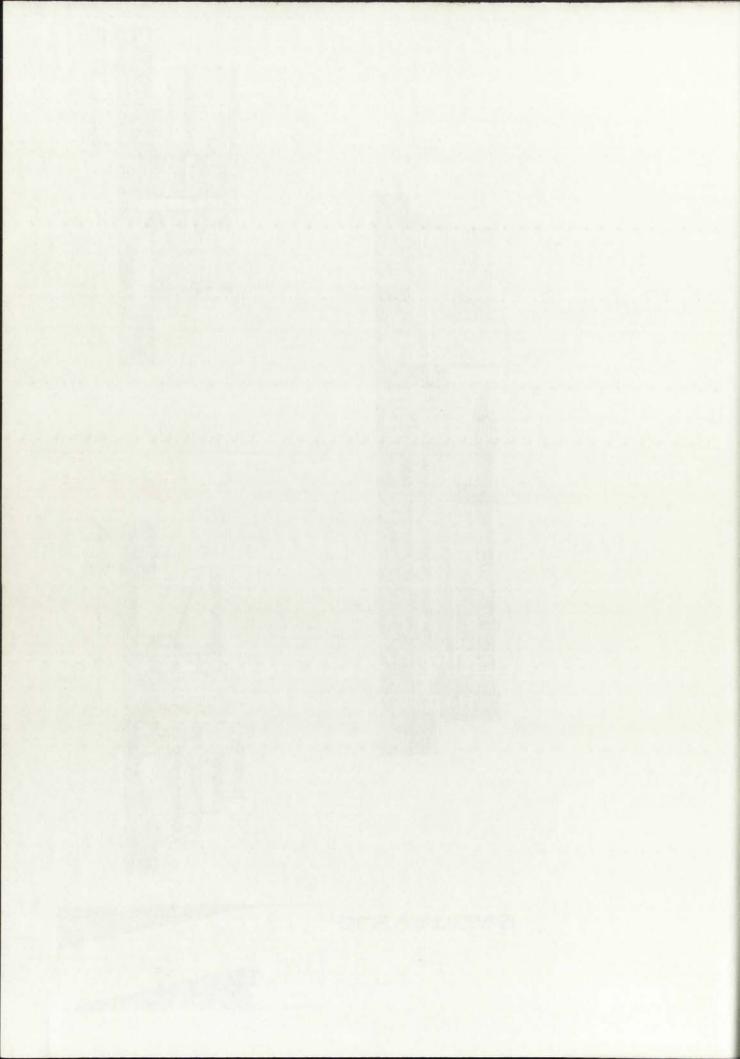




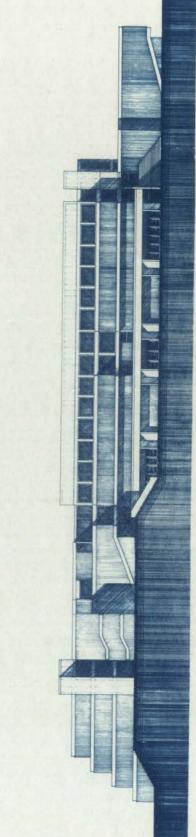




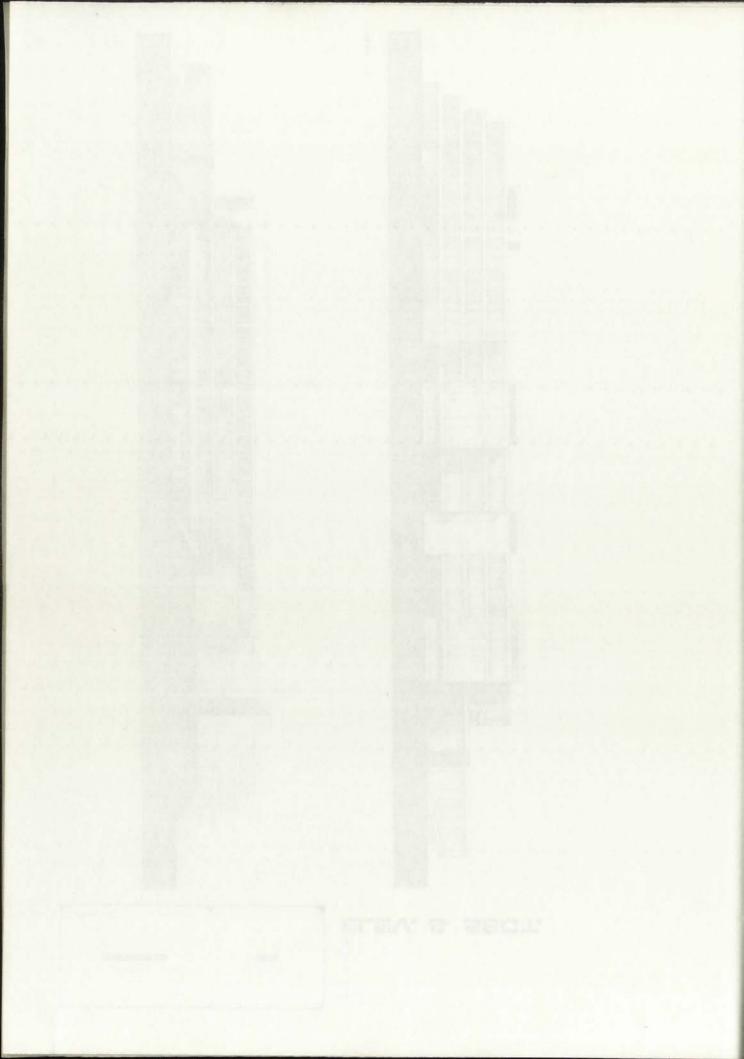






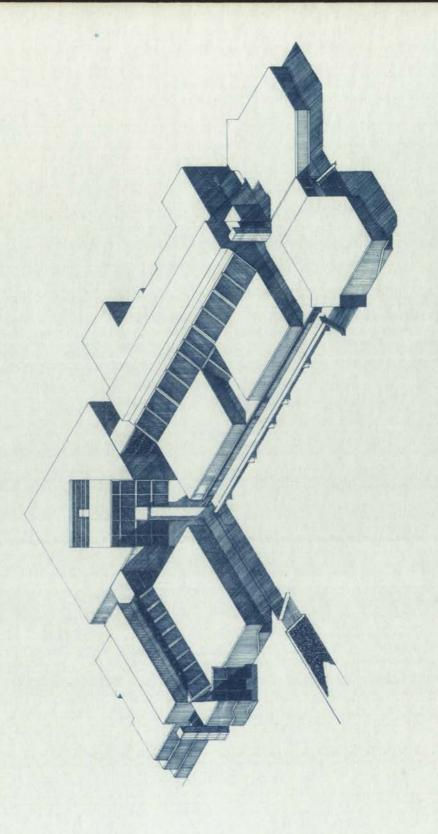


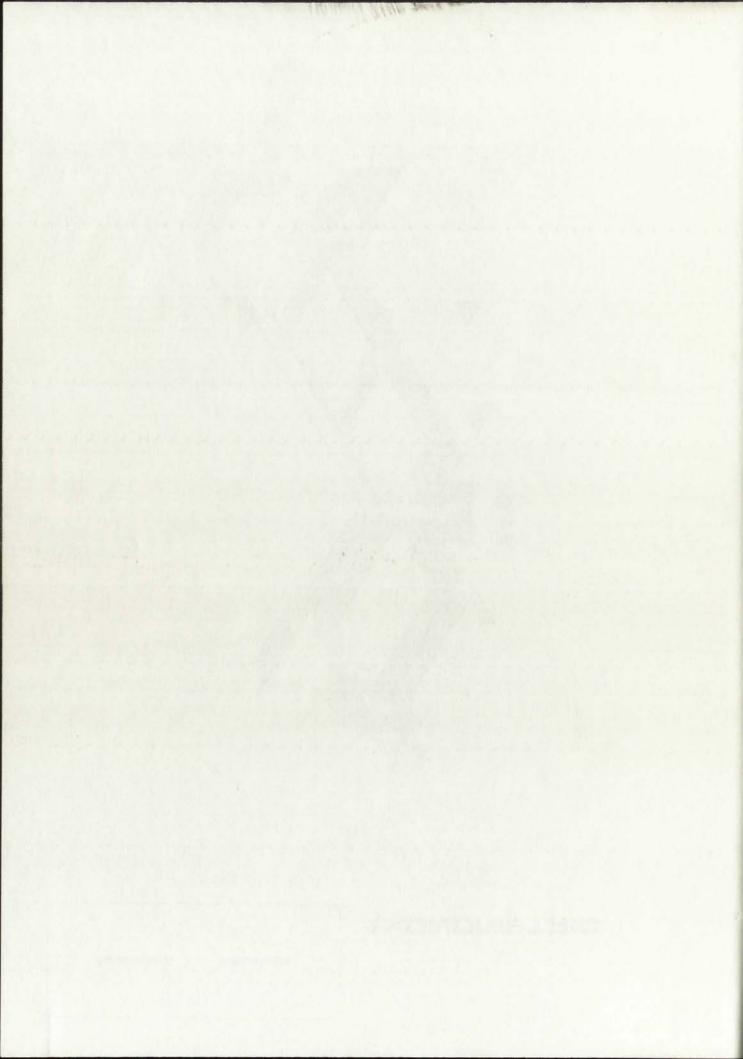
ELEV.

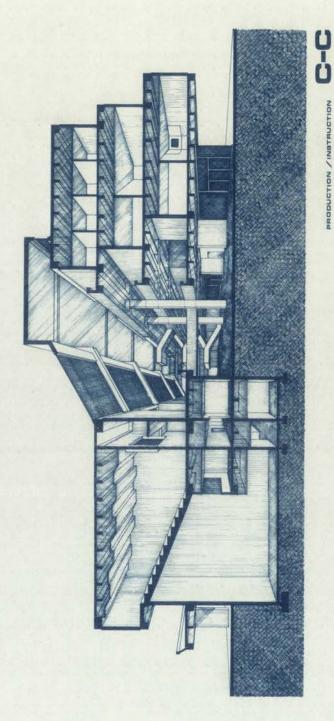


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