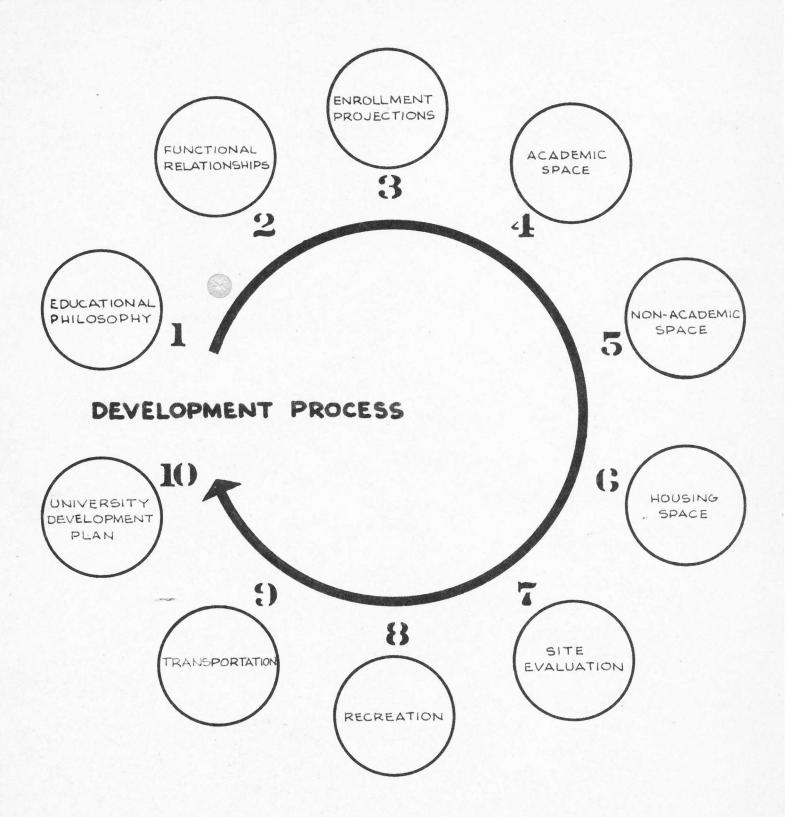
#### MICHIGAN STATE UNIVERSITY OAKLAND

## UNIVERSITY DEVELOPMENT ANALYSIS



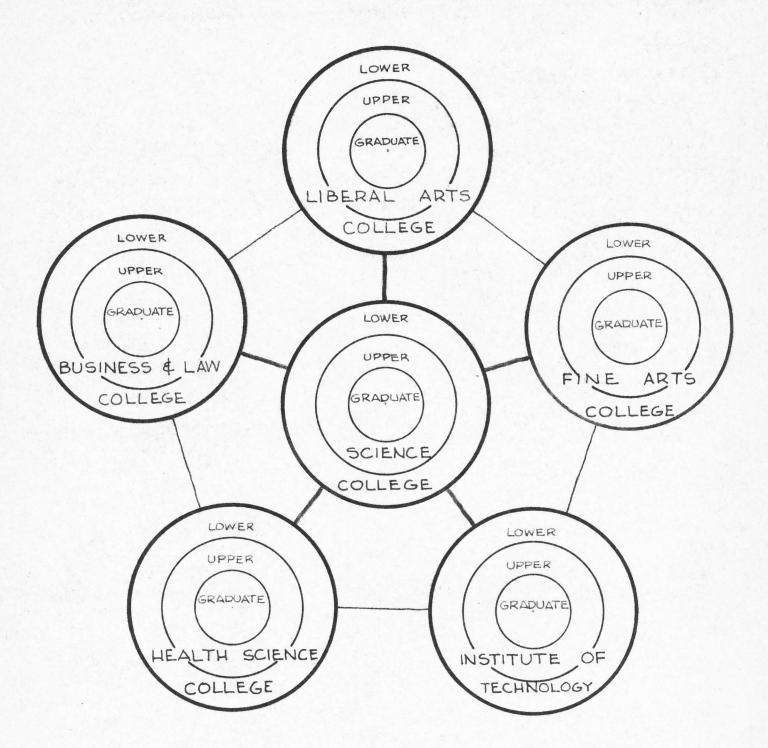
DEVELOPED AND PREPARED BY SWANSON ASSOCIATES INC. ARCHITECTS AND PLANNERS

## UNIVERSITY DEVELOPMENT



THE FOLLOWING DEVELOPMENTAL PROCESS FOR THE DESIGN OF A COMPREHENSIVE UNIVERSITY SUGGESTS TEN SUCCESSIVE STEPS OF EDUCATIONAL AND ARCHITECTURAL ANALYSIS PROGRESSING TOWARDS A UNIVERSITY DEVELOPMENT PLAN

## EDUCATIONAL PHILOSOPHY 1a

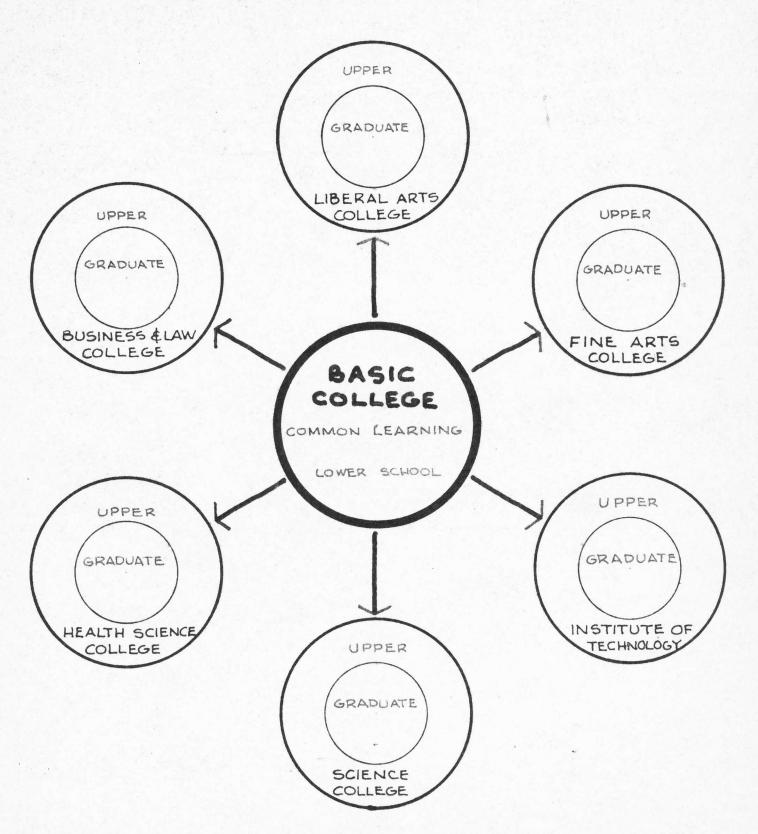


#### INTEGRATED SELF-CONTAINED COLLEGES

LOWER SCHOOL = FRESHMEN + SOPHOMORES

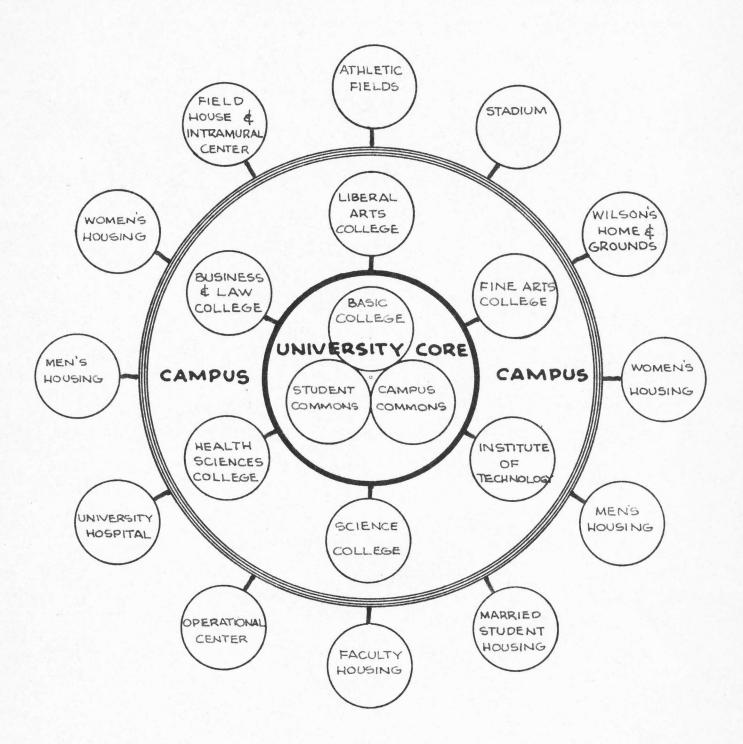
UPPER SCHOOL= JUNIORS +SENIORS

## EDUCATIONAL PHILOSOPHY 16



CORE CURRICULUM COLLEGE

# FUNCTIONAL RELATIONSHIPS 2a

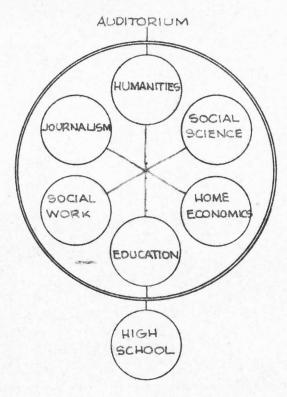


UNIVERSITY RELATIONSHIPS

USING IC AS AN EXAMPLE

## FUNCTIONAL RELATIONSHIPS





ARTS COLLEGE LIBERAL

FINE

ART &

DESIGN

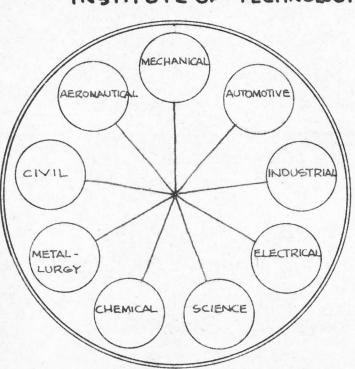
No m.

ARTS COLLEGE

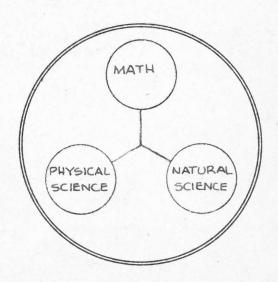
ARCHITEC URE

MUSIC

INSTITUTE OF TECHNOLOGY

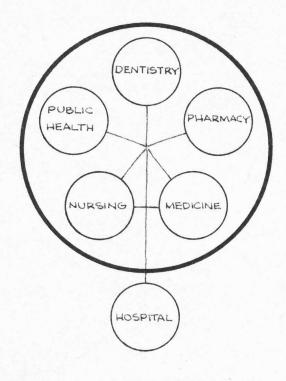


SCIENCE COLLEGE



# FUNCTIONAL RELATIONSHIPS 2c





SCIENCES COLLEGE HEALTH

BUSINESS & LAW COLLEGE

LAW

SCHOOL

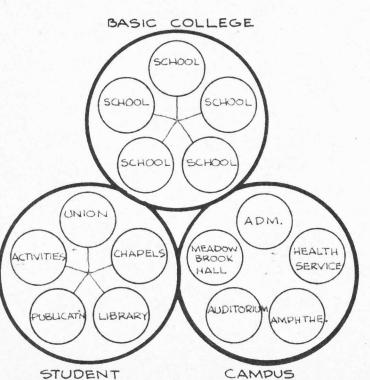
BUSINESS

ADM.

OPERATIONAL CENTER

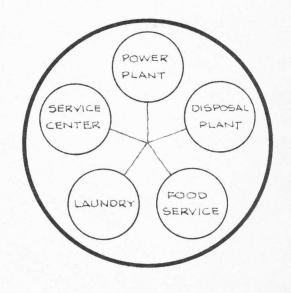
ECONOMICS

CORE UNIVERSITY



COMMONS

COMMONS



# ENROLLMENT PROJECTIONS 3

	20,000 FTE	30,000 FTE	40,000 FTE
LIBERAL ARTS COLLEGE	27 % 5300 FTE	23 % 7000 FTE	21 % 8250 FTE
FINE ARTS COLLEGE	4. % 800 FTE	5 % 1550 FTE	6 % 2500 FTE
BUSINESS & LAW COLLEGE	14 /. 2800 FTE	13 % 3900 FTE	13 % 5000 FTE
SCIENCE COLLEGE	12 % 2500 FTE	13 % 3900 FTE	13 % 5250 FTE
INSTITUTE OF TECHNOLOGY	32 /. 6400 FTE	34 7. 10150 FTE	36 % 14500 FTE
HEALTH SCIENCES COLLEGE		12. 7. 3500 FTE	/ 4500 FTE
UNIVERSITY ENROLLMENT TOTALS	20,000 FTE	30,000 FTE	40,000 FTE

FTE = FULL TIME EQUIVALENT STUDENTS

## ACADEMIC SPACE

4

	20,000 FTE	30,000 FTE	40,000 FTE
LIBERAL ARTS COLLEGE	43 ACRES	59 ACRES	70 ACRES
FINE ARTS COLLEGE	H 13 ACRES	E 25 ACRES	H 41 ACRES
BUSINESS & LAW COLLEGE	32 ACRES	## 46 ACRES	63 ACRES
SCIENCE COLLEGE	32 ACRES	52 ACRES	72 ACRES
INSTITUTE OF TECHNOLOGY	179 ACRES	296 ACRES	436 ACRES
HEALTH SCIENCES COLLEGE	30 ACRES	49 ACRES	G2 ACRES
TOTAL ACADEMIC ACREAGE	329 ACRES	527 ACRES	744 ACRES

AREAS BASED ON 50% UNDERGRADUATES, 50% GRADUATES, 50% PARKING, 2½ STORY BUILDINGS (AVERAGE), 15% LAND COVERAGE FACTOR, ENROLLMENTS FROM CHART No. 3

## NON-ACADEMIC SPACE

5

40,000 20,000 FTE 30,000 FTE CORE UNIVERSITY ADMINISTRATION 15 ACRES 18 ACRES 20 ACRES HOTEL IO ACRES 10 ACRES 10 ACRES UNION 15 ACRES 10 ACRES 20 ACRES AUDITORIUM 15 ACRES 15 ACRES 15 ACRES LIBRARY 15 ACRES 20 ACRES 25 ACRES H CHAPELS 10 ACRES 10 ACRES 10 ACRES 田 STUDENT ACTIVITIES 5 ACRES 10 ACRES 15 ACRES H 開 田 STUDENT PUBLICATIONS 5 ACRES 5 ACRES 5 ACRES 用 HEALTH 5 ACRES 7 ACRES 10 ACRES SERVICE 90 ACRES 130 ACRES 110 ACRES TOTALS ATHLETIC PLANT ARMORY 10 ACRES 10 ACRES 10 ACRES FIELD HOUSE 10 ACRES 10 ACRES 10 ACRES INTRAMURAL BUILDING 15 ACRES 20 ACRES 10 ACRES WOMENS ATHLETIC BLOG. 10 ACRES 15 ACRES 20 ACRES HOCKEY RINK 10 ACRES 10 ACRES 10 ACRES STADIUM 40 A. 40 A. 40 A. PLAYING 60 ACRES 80 ACRES 100 ACRES FIELDS 150 ACRES 180 ACRES 210 ACRES TOTALS CENTER SERVICE HEATING PLANT, FOOD 20 ACRES 25 ACRES 30 ACRES SERVICE, MAINTENANCE SHOPS, YARD STORAGE

315 ACRES

260 ACRES

370 ACRES

GRAND

TOTALS

## HOUSING

\* BUILDABLE LAND

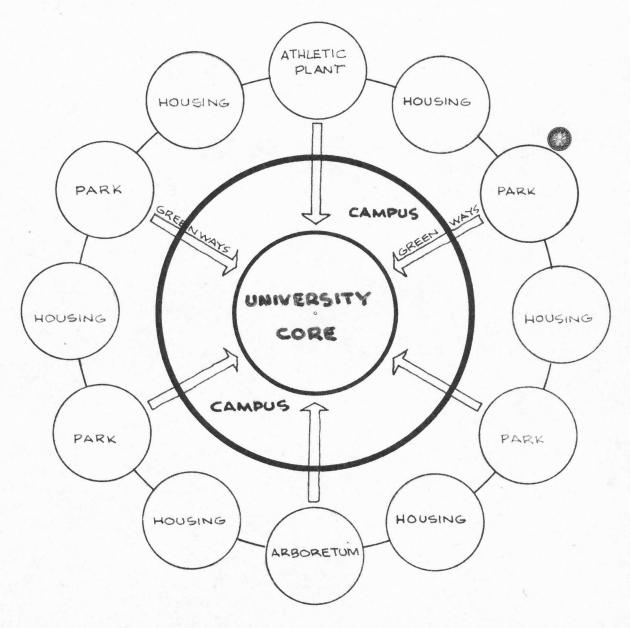
	LAND REQU 20,000 FTE	JIREMENTS 30,000 FTE	40,000 FTE
RESIDENCE HALLS	9,600 STUDENTS 8 UNITS OF 1,200 @ 20 ACRES** PER UNIT	14,400 STUDENTS 12 UNITS OF 1,200  @ 20 ACRES PER UNIT	19,200 STUDENTS 16 UNITS OF 1,200 20 ACRES** PER UNIT
	160 ACRES	240 ACRES	320 ACRES
MARRIED STUDENTS \$ FACULTY HOUSING	650 FAMILIES @ 5 PER ACRE 130 ACRES	650 FAMILIES  @ 5 PER ACRE  130 ACRES  840 FAMILIES  @ 8 PER ACRE  105 ACRES	650 FAMILIES  © 5 PER ACRE  130 ACRES  1,280 FAMILIES  © 8 PER ACRE  160 ACRES
SUB-TOTAL	130 ACRES	235 ACRES	290 ACRES
ALL HOUSING	290 ACRES	475 ACRES	610 ACRES
NON-ACADEMIC	260 ACRES	315 ACRES	370 ACRES
ACADEMIC	329 ACRES	527 ACRES	744 ACRES
* TOTAL LAND REQUIRED	879 ACRES	1317 ACRES	1724 ACRES

\*\* INCLUDES PARKING

### RECREATION



#### PEDESTRIAN ACCESSIBILITY TO CORE VIA PARKWAYS

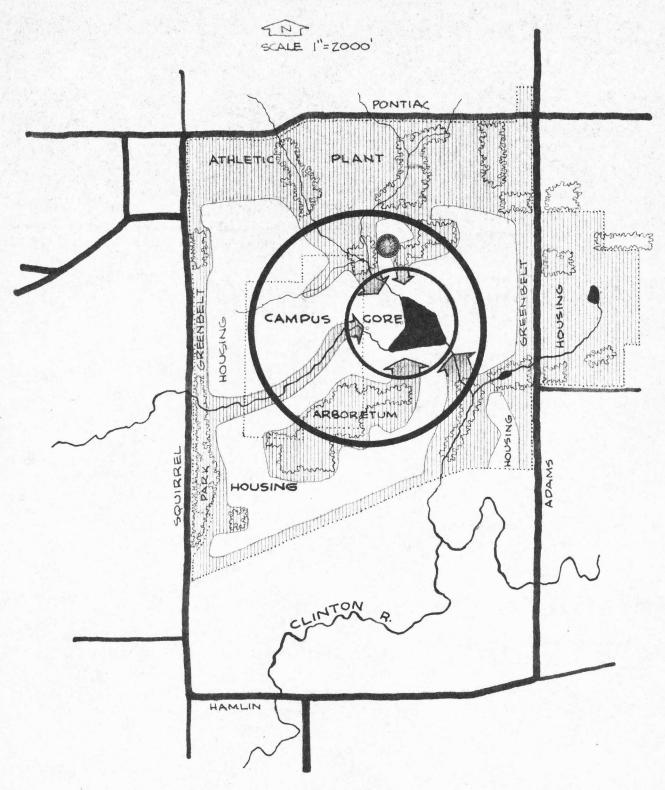


#### ATHLETIC PLANT

STADIUM
INTRAMURAL BUILDING
FIELD HOUSE
ATHLETIC FIELDS

#### PARKS

PLAYGROUNDS
PICKNIC GROUNDS
TENNIS COURTS
BASEBALL
GREENBELTS
RIVERS & LAKES
ZOO

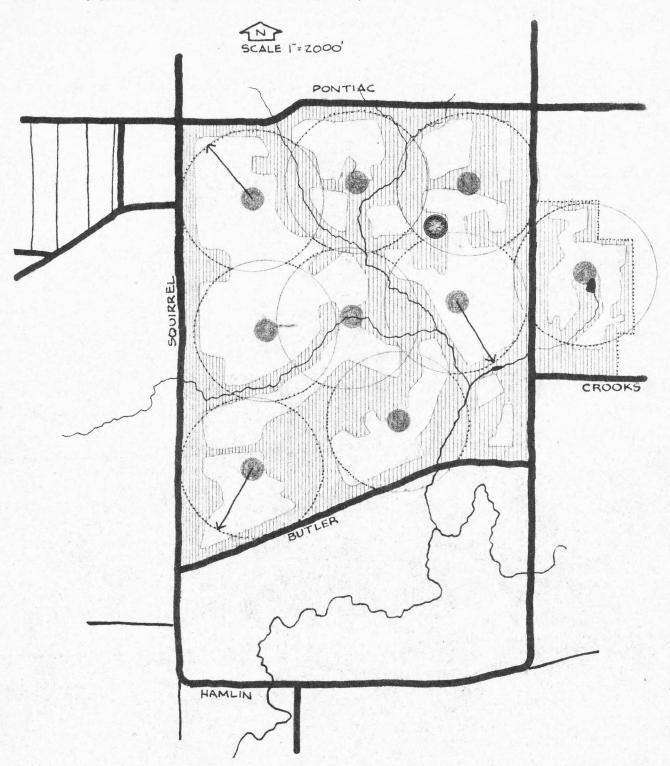


PEDESTRIAN ACCESSIBILITY TO UNIVERSITY CORE VIA GREENWAYS & PARKS

### TRANSPORTATION



PEDESTRIAN WALKING LIMITATIONS



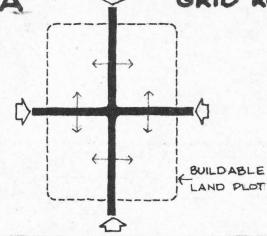
WALKING RADII = 5 MINUTE WALK OR 1500' RADIUS
BASED ON 300'/MINUTE NORMAL WALKING PACE

### TRANSPORTATION



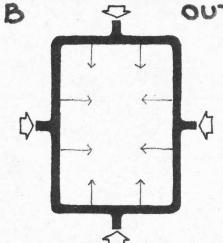
COMPARABLE ROAD SYSTEMS





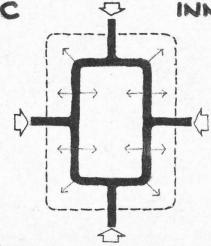
THIS TRADITIONAL GRIDIRON ROAD SYSTEM HAS THESE LIMITATIONS : SEVERS THE LAND PLOT INTO 4 SEPARATE PLOTS , CONGESTED INTERSECTION AT LANDS CENTER , PARKING DIFFICULTIES ASSETS : EXPANSION EASY - WALKING DISTANCES FROM ROAD ARE SMALL, GOOD ACCESSIBILITY TO PLOTS, MIN. BOAD & UTILITY LENGTH

#### OUTER LOOP



THE OUTER LOOP LIMITATIONS : DOUBLED ROAD LENGTH & LONGER WALKING DISTANCES , LAND EXPANSION IS STOPPED ASSETS: UNIFIED INNER LAND PLOT, UNCONGESTED CENTER, EASE OF ACCESSIBILITY TO FEEDER ROAD ENDING AT CENTRAL PARKING AREAS

#### INNER LOOP



THE INNER LOOP LIMITATIONS: ROAD LENGTH = 12/3 A ASSETS: UNIFIED INNER LAND PLOT EXPANSION IN OUTER LAND PLOT EASE OF ACCESSIBILITY TO PARKING

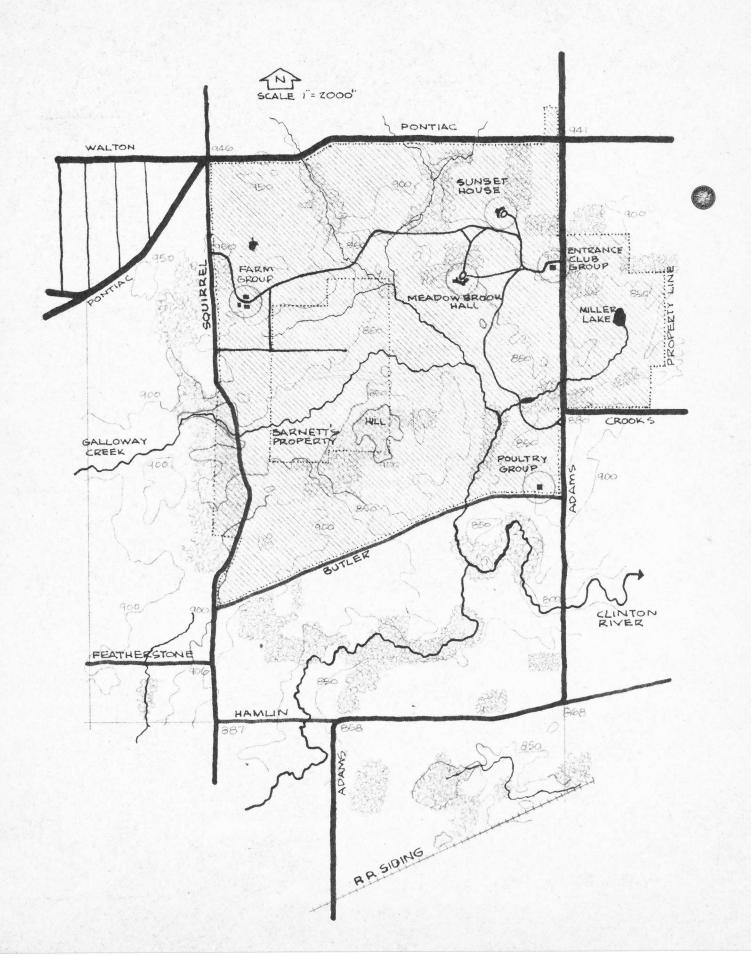
## TRANSPORTATION





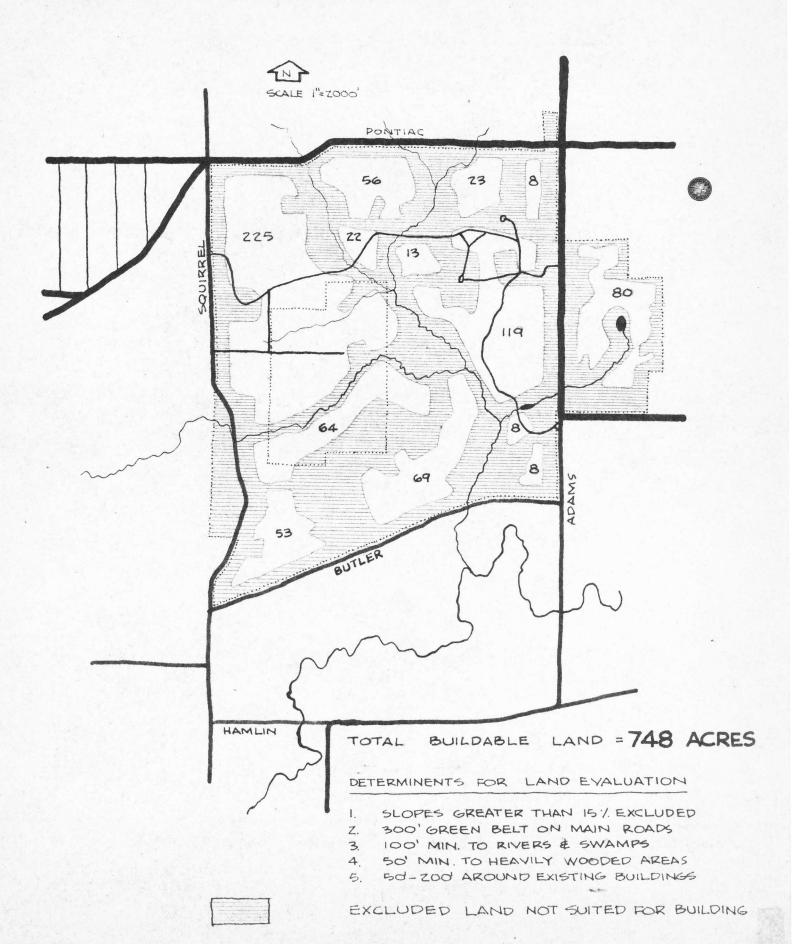
# SITE CHARACTERISTICS ()a





### SITE EVALUATION





## ADDITIONAL LAND



