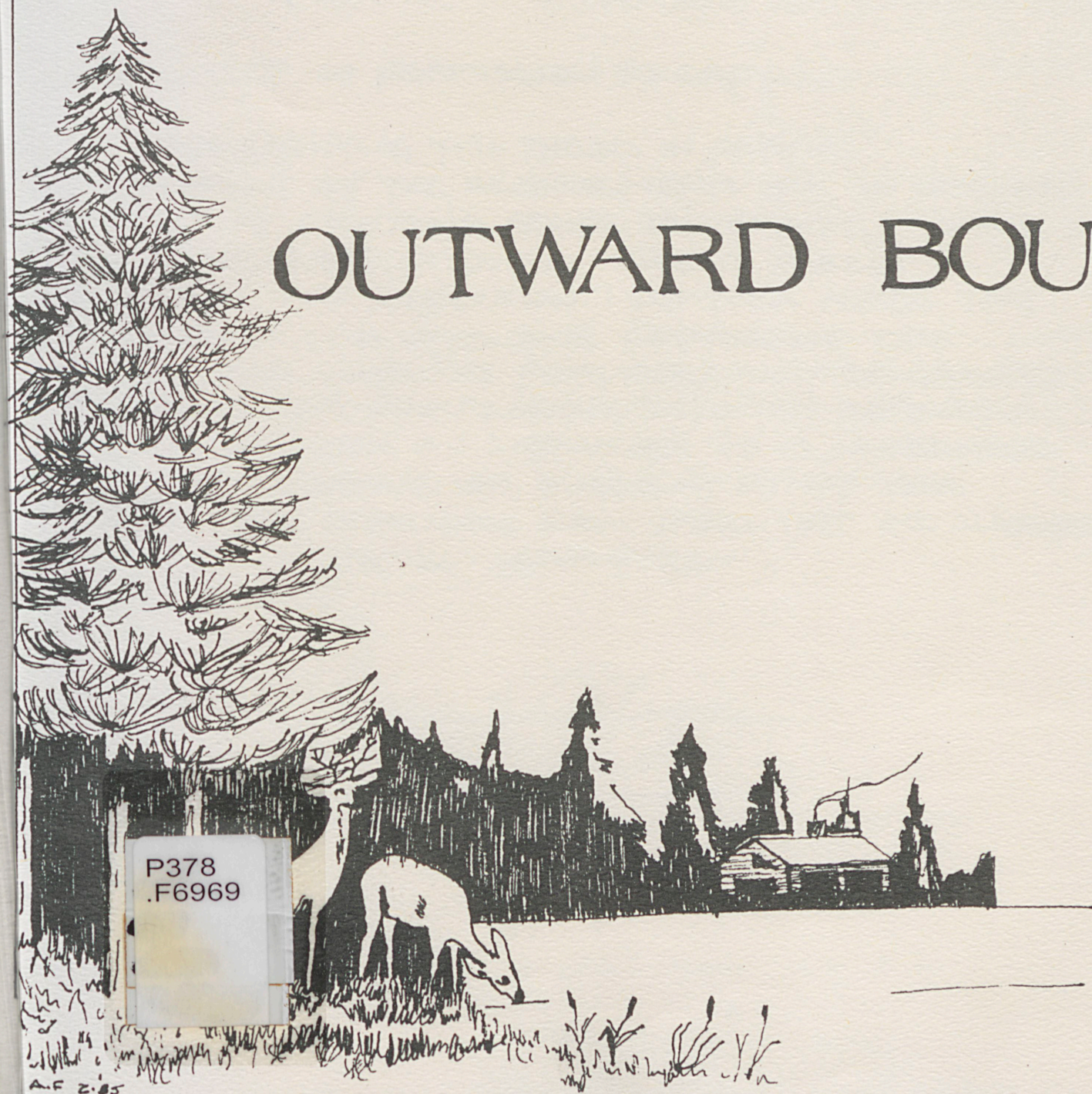


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OUTWARD BOUND



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REGIONAL HEADQUARTERS FOR OUTWARD BOUND

PEQUOT LAKES, MINNESOTA

BY

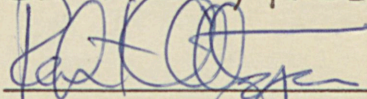
ANNE FOLEY

A PROFESSIONAL PAPER SUBMITTED IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE
DEGREE OF BACHELOR OF ARCHITECTURE.

APPROVED:

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CHAIRMAN, THESIS COMMITTEE



DIRECTOR, SCHOOL OF ARCHITECTURE

MONTANA STATE UNIVERSITY
BOZEMAN, MONTANA

JUNE 10, 1985

DEDICATION:

TO MY PARENTS, WITHOUT THEIR CONTINUOUS
SUPPORT AND ENCOURAGEMENT THIS BOOK
WOULD NOT HAVE BEEN POSSIBLE.

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THESIS STATEMENT

THE PROBLEM OF MAN IN HARMONY WITH NATURE IS NOT ONE OF SIMPLE AESTHETIC PRESENCE FOR HUMAN ACTIVITY, NOR IS IT ONE OF IMPROVING THE CITY: IT IS THE NECESSITY OF MAINTAINING NATURE AS THE ESSENCE OF LIFE, RETREAT, CHALLENGE AND ABOVE ALL, OF REDISCOVERING NATURE'S ROLE IN THE REACQUAINTANCE OF THE UNKNOWN SELF.

SUBJECT

THE SUBJECT OF THIS THESIS IS A REGIONAL HEADQUARTERS FOR THE SCHOOL OF OUTWARD BOUND TO BE LOCATED IN NORTHERN MINNESOTA. ALONG WITH THIS FACILITY THERE WILL BE RESTAURANT AND CONFERENCE ACCOMMODATIONS FOR PUBLIC USE.

THEORY

INTRODUCTION

MAN IS OBLIGATED TO LIVE IN HARMONY WITH NATURE AND OTHERS. TO FALL SHORT OF THIS OBLIGATION, MAN REMOVES AND ALIENATES HIMSELF FROM THE SUPPORT OF OTHERS AND THE SUPPORT OF THE WORLD.

IN TODAY'S BUSY SOCIETY, IT IS VERY EASY TO LOSE TRACK OF VALUES AND GOALS THAT AT ONE TIME SEEMED SO VERY IMPORTANT. PEOPLE SUBJECT THEMSELVES AND THEIR SENSES TO THE HARD, HECTIC, BUILT ENVIRONMENT THAT MAN HAS CONSTRUCTED. IT SEEMS THAT MUCH OF WHAT IS BUILT TAKES INTO NO CONSIDERATION OF NATURE AND ITS OFFERINGS. BUILDINGS WITH ORIENTATIONS THAT IGNORE SOUTHERN EXPOSURES AND WINDOWS SEALED SO THAT NATURAL VENTILATION IS IMPOSSIBLE ARE JUST A FEW EXAMPLES OF A BUILT ENVIRONMENT THAT REFUSES TO ACKNOWLEDGE THE BENEFITS OF WORKING WITH NATURE.

MANY OF THE PROBLEMS THAT SOCIETY CONFRONTS ARE OF SUCH COMPLEXITY THAT IT TAKES THE UTMOST VIGOR, ENTHUSIASM, AND DEDICATION TO COLLECT, ANALYZE AND PRESENT

A SUITABLE RESOLUTION. IN TRYING TO DESIGN IN HARMONY WITH NATURE AND MAN IT IS IMPORTANT TO REALIZE THAT A SMALL PERCEPTION CAN OPEN UP A WHOLE NEW REALM OF POSSIBILITIES AND RESULTS. "IF ONE ACCEPTS THE ARENA OF LIFE AND THAT A MODICUM OF KNOWLEDGE OF HER PROCESSES IS INDISPENSABLE FOR SURVIVAL AND RATHER MORE FOR EXISTENCE, HEALTH AND DELIGHT, IT IS AMAZING HOW MANY APPARENTLY DIFFICULT PROBLEMS PRESENT READY RESOLUTION."¹

MAN EXISTS IN NATURE AND IT MUST BE REALIZED THAT BECAUSE MAN CAN CONTROL NATURE TO A CERTAIN EXTENT, THE UNIQUENESS OF THE INDIVIDUAL MUST ASSUME CERTAIN OPPORTUNITIES AND RESPONSIBILITIES. THE REALIZATION THAT MAN AND NATURE MUST WORK TOGETHER IS DESCRIBED IN THE DEFINITION OF HARMONY BY ELLEN EVE FRANK. "THE CONDITION OF HARMONY, THAT ARCHITECTURE BE NATURAL AND NATURE BE ARCHITECTURAL."²

BOTH NATURE AND ARCHITECTURE USE SOME TYPE OF PROCESS TO ACHIEVE A DESIRED

1. IAN L. MCHARG, DESIGN WITH NATURE, p.14.
2. ELLEN EVE FRANK QUOTED BY EDWARD T. HALL, THE HIDDEN DIMENSION, p.45.

GOAL. "NATURE IS PROCESS, BUT FORM AND PROCESS ARE INDIVISIBLE ASPECTS OF A SINGLE PHENOMENON. THAT WHICH IS SEEN TO BE IS AN IMPORTANT ASPECT OF THAT WHICH IS. IT IS A VALUABLE MODE FOR UNDERSTANDING AND ONE INDISPENSABLE FOR EXPRESSION."³ AN UNDERSTANDING OF NATURE AND ARCHITECTURE, AND THE PROCESS BETWEEN THE TWO, OFFERS THE DESIGNER THE KNOWLEDGE AND INSPIRATION TO COMBINE THE TWO AND RESULTS IN EACH AREA ENHANCING THE OTHER.

"PARADISE IS A STRANGE LAND BUT A FAMILIAR PRESENCE; FEW HAVE BEEN THERE, BUT MANY PEOPLE HAVE AN IDEA OF WHAT IT IS LIKE. AS A GARDEN AT ONE END OF TIME AND A CITY AT THE OTHER, PARADISE IS IN ONE SENSE REMOTE FROM WORLDLY CONCERNS. PARADISE, IN ALL SENSES OF THE WORD, IS THE MOST STRIKING PLACE I CAN DISCOVER WHERE AN IMMATERIAL VISION AND A MATERIAL STRUCTURE OR SYSTEM OF RELATIONSHIPS ARE BROUGHT TOGETHER AND DEPEND UPON EACH OTHER. THAT RELATIONSHIP AND THAT DEPENDENCE EXISTS IN LITERARY VERSIONS OF PARADISE THAT INCORPORATE TO A GREATER OR LESSER EXTENT

³ PAOLO SOLERI, MATTER BECOMING SPIRIT, p. 20.

THE DESCRIPTION OF PARADISE AS A PHYSICAL ENTITY, WHETHER GARDEN, CITY OR A COMBINATION OF BOTH; AND THAT RELATIONSHIP EXISTS IN ARCHITECTURE THAT PRETENDS TO DEFINE OR ENCLOSE HEAVENLY SPACE OR TO TRANSLATE TO EARTH THE PROPERTIES OF HEAVEN."⁴

⁴ WILLIAM MCCLUNG, THE ARCHITECTURE OF PARADISE, p.3.

OUTWARD BOUND

THERE IS A SCHOOL THAT ALLOWS PEOPLE TO EXPERIENCE FIRST HAND THE CHALLENGE OF JOINING NATURE AND OTHERS IN A HARMONIOUS UNION. THIS SCHOOL IS OUTWARD BOUND. OUTWARD BOUND INVITES YOU TO LOOK INWARD AND STRETCH OUTWARD. THE SCHOOL HAS BEEN PROMOTING SELF-DISCOVERY THROUGH OUTDOOR ADVENTURE FOR PEOPLE OF ALL AGES AND WALKS OF LIFE FOR OVER 20 YEARS.

THE ONLY PREREQUISITES NEEDED FOR THIS ADVENTURE IS A WILLINGNESS TO TRY. THE COURSES ARE DESIGNED TO START AT THE STUDENTS PRESENT CAPABILITIES. THEN THROUGH SUPPORT AND EARNEST INSTRUCTION FROM THE STAFF, THE STUDENTS LEARN THE SKILLS NECESSARY TO COMPLETE THE COURSE. OUTWARD BOUND OFFERS THE TIME AND CHALLENGES, AWAY FROM THE ROUTINE AT HOME; TO PROVIDE THE FREEDOM AND SPACE FOR A FRESH PERSPECTIVE; A NEW OUTLOOK AND A DIFFERENT ATTITUDE TOWARDS LIFE; AN ATTITUDE THAT CAN CARRY OVER TO THE ROUTINE LIFE AFTER THE COURSE.

WHEN LIFE CAN BECOME SO HECTIC THAT
PEOPLE LOSE SIGHT OF THEIR GOALS AND
VALUES, OUTWARD BOUND ALLOWS TIME FOR
THE STUDENTS TO REFLECT AND REEVALUATE
THEIR LIVES. THE POEM BY WILFRED A. PETERSON
ELOQUENTLY DESCRIBES THIS FEELING.

"SLOW ME DOWN, LORD

EASE THE POUNDING OF MY HEART BY
THE QUIETING OF MY MIND.

STEADY MY HURRIED PACE WITH A VISION
OF THE ETERNAL REACH OF TIME.

GIVE ME AMID THE CONFUSION OF THE DAY
THE CALMNESS OF THE EVERLASTING HILLS.

BREAK THE TENSIONS OF MY NERVES AND
MUSCLES WITH THE SOOTHING MUSIC OF
THE SINGING STREAMS THAT LIVE IN MY
MEMORY. HELP ME KNOW THE MAGICAL,
RESTORING POWER OF SLEEP.

TEACH ME THE ART OF TAKING MINUTE
VACATIONS- OF SLOWING DOWN TO LOOK
AT A FLOWER, TO CHAT WITH A FRIEND,
TO PAT A DOG, TO READ A FEW LINES
FROM A GOOD BOOK.

SLOW ME DOWN, LORD, AND INSPIRE
ME TO SEND MY ROOTS DEEP INTO THE
SOIL OF LIFE'S ENDURING VALUES THAT
I MAY GROW TOWARD THE STARS OF
MY GREATER DESTINY."⁵

BEYOND THE TOOLS AND SKILLS ACQUIRED, THE
INDIVIDUAL RETURNS WITH A NEW FRIEND-THEMSELVES.
THEY HAVE BOTH ROOTS AND WINGS AND HAVE
DEVELOPED THE ABILITY TO LIVE IN HARMONY
WITH NATURE.

THE MOTTO THAT THE SCHOOL FOLLOWS EXPRESSES
THE DESIRE FOR PERSONAL ACHIEVEMENT. "TO
STRIVE AND NOT TO YIELD."⁶ NOT ONLY ARE YOU
FACED WITH THE CHALLENGE OF LIVING IN THE
WILDERNESS BUT ALSO THE CHALLENGE OF LIVING
WITH OTHERS AND YOURSELF. OUTWARD BOUND
PROVIDES A STRUCTURED SET OF PHYSICAL AND
MENTAL CHALLENGES RIGOROUS ENOUGH TO HELP
DISCOVER THAT THERE IS A WORLD OF NEW
ACCOMPLISHMENTS WAITING. THERE IS A NEED
FOR ADVENTURE THROUGHOUT LIFE; TO INCREASE
SELF CONFIDENCE, PATIENCE, ENDURANCE, STAMINA
AND CONCENTRATION.

⁵ WILFRED A. PETERSON, UNTITLED.

⁶ MOTTO FOR OUTWARD BOUND.

THROUGHOUT THE SCHOOL'S HISTORY, OUTWARD BOUND HAS FOLLOWED THE PHILOSOPHY OF "WALK SOFTLY IN THE WOODS, LEAVE NOTHING BUT FOOT-PRINTS, TAKE NOTHING BUT PICTURES AND KILL ONLY TIME."⁷

IN THE WILDERNESS THE INDIVIDUAL LEARNS MANY SKILLS WHICH APPLY TO ALL EXPERIENCES. THE SENSES BECOME MORE ACUTE; THE SOUND OF A MOUNTAIN STREAM AWAKENS THE EARS; THE TASTE OF ICE COLD WATER FROM A FORGOTTEN LAKE ENLIVENES THE TASTEBUDS; THE SMELL OF WET MOSS AND PINE RENEWS THE DORMANT SENSE OF SMELL; THE FEEL OF A COOL BREEZE ON YOUR FACE AND THE WARMTH OF THE SUN ON YOUR BACK IS SOOTHING TO THE SENSE OF TOUCH.

TO UNDERSTAND NATURE ONE MUST FIRST UNDERSTAND THE SENSES THAT ALLOW A PERSON TO EXPERIENCE NATURE.

"I LOVE NOT MAN THE LESS BUT NATURE MORE, FROM THESE OUR INTERVIEWS, IN WHICH I STEAL FROM ALL I MAY BE, OR HAVE BEEN BEFORE, TO MINGLE WITH THE UNIVERSE, AND FEEL

7 PHILOSOPHY OF OUTWARD BOUND.

WHAT I CAN NE'ER EXPRESS."⁸

THE SENSES ARE THE VERY ELEMENTS OF THE
CONSCIOUSNESS WHICH ALLOW PEOPLE TO REVIEW
WHAT EACH CONTRIBUTES TO THE BEAUTY OF THE
WORLD.

⁸ PAOLO SOLERI, MATTER BECOMING SPIRIT, p. 25.

THE SENSES

"..... NO INDIVIDUAL IS FREE TO DESCRIBE NATURE WITH ABSOLUTE IMPARTIALITY BUT IS CONSTRAINED TO CERTAIN MODES OF INTERPRETATION EVEN WHILE HE THINKS HIMSELF MOST FREE."⁹

IT IS IMPORTANT TO UNDERSTAND THAT A PERSON'S RELATIONSHIP TO THEIR ENVIRONMENT IS A FUNCTION OF SENSORY AWARENESS AND HOW THIS AWARENESS IS CONDITIONED TO RESPOND. AN INDIVIDUAL TRAVERSING AN UNEVEN TERRAIN APPEARS TO USE AN EFFICIENT YET LARGELY UNCONSCIOUS PROCESS. IT IS POSSIBLE THAT AN INDIVIDUAL MAY HAVE FEELINGS OF THE SENSES BEING STIMULATED, AND MAY EVEN BE ABLE TO ACT ON THE BASIS OF SUCH STIMULI AWARENESS WITHOUT QUESTIONING THE INFORMATION.

THE CONTRIBUTION OF ONE SENSE AS OPPOSED TO ANOTHER DIFFERS VERY MUCH IN THE AMOUNT AND DIRECTNESS OF THE CONTRIBUTION.

THE PLEASURES OF THE EYE AND EAR, OF THE IMAGINATION AND MEMORY, ARE THE MOST TANGIBLE AND MERGE IN IDEAS. THEY ARE THE MATERIALS OF BEAUTY, FACTORS OF CONSCIOUSNESS

⁹ EDWARD T. HALL, THE HIDDEN DIMENSION, P. 19.

AND MORE OR LESS EXTERNAL DIVISIONS OF THE SENSE'S.

EVOLUTION THROUGH THE CENTURIES HAS BEEN MARKED BY THE DEVELOPMENT OF SIGHT AND HEARING. THUS THE CREATION OF THE ARTS WHICH EMPLOY THESE TWO SENSES, TO THE VIRTUAL EXCLUSION OF ALL OTHERS, POETRY, PAINTING, MUSIC, SCULPTURE, ARCHITECTURE AND THE DANCE PRIMARILY DEPEND ON THE EYES AND EARS. SIGHT IS, THEREFORE, PERCEPTION, SINCE AN INDIVIDUAL BECOMES MOST AWARE OF THE ENVIRONMENT THROUGH THEIR EYES IN VISUAL TERMS. THE STRONGEST EFFECTS OF BEAUTY IN SIGHT IS IN FORM, WHICH IS CREATED IN THE IMAGINATION, AND COLOR, WHICH IS PURELY SENSUOUS, AND INVOLVES THE PERCEPTION OF THE ENVIRONMENT TO BECOME MORE READILY AN ELEMENT OF BEAUTY.

TO TRULY APPRECIATE WHAT ONE SEES IT IS IMPORTANT TO REALIZE THAT AN INDIVIDUAL LEARNS WHILE THEY SEE, AND WHAT THEY LEARN INFLUENCES WHAT THEY SEE. ALTHOUGH TECHNICALLY THE VISUAL FIELD IS THE SAME, IT MAY BE PERCEIVED AS TWO DIFFERENT VISUAL WORLDS.

"THE SHIFT FROM RELIANCE ON THE NOSE TO RELIANCE ON THE EYE AS A RESULT OF ENVIRONMENTAL PRESSURES HAS COMPLETELY REDEFINED THE HUMAN SITUATION. AN INDIVIDUAL'S ABILITY TO PLAN HAS BEEN MADE POSSIBLE BECAUSE THE EYE TAKES IN A LARGER SWEEP; IT CODES VASTLY MORE COMPLEX DATA AND THUS ENCOURAGES THINKING IN THE ABSTRACT."¹⁰

SOUND IS SHARED WITH THE LOWER SENSES OF HAVING NO INTRINSIC SPATIAL CHARACTER OR DEFINITION. IT FORMS NO PART OF THE ABSTRACTED EXTERNAL WORLD AND THE PLEASURES OF THE EAR CANNOT BECOME QUALITIES OF THINGS. BUT AUDIBLE IDEAS CAN DESCRIBE AND BE RECOGNIZED WITH CONTENT, COHESION AND INDIVIDUALITY. THESE QUALITIES HELP TO DEFINE AND DESCRIBE AN IDEA REGARDLESS OF WHETHER IT'S AN AUDIBLE OR SPATIAL IDEA. THE PLEASURE OF SOUND HAS UNLIMITED VARIETY AND UNLIMITED EXTENSION. IT HAS AS MUCH IMPACT AS THE VISUAL WORLD TO AROUSE INTEREST AND EVOKE EMOTIONS. AUDIBLE PERCEPTION IS NOT JUST A MATTER OF WHAT CAN BE PERCEIVED BUT WHAT CAN BE SCREENED OUT.

¹⁰

EDWARD T. HALL, THE HIDDEN DIMENSION, p.52.

THE DISTINCTION IS NOT ABSOLUTE IN DESCRIBING SOUNDS, FOR THE SIMPLE SENSATION IS ITSELF INTERESTING. AN EXAMPLE OF AN AUDIBLE IDEA CAN BE FOUND IN MUSIC. THE MUSIC CAN, THROUGH SOUND, DESCRIBE AN OCEAN, A SUNSET AND THE EMOTIONS THESE IDEAS MAY EVOKE.

THE SENSES OF TOUCH, TASTE AND SMELL, THROUGH EVOLUTION, HAVE SERVED DIMINISHING PURPOSES FOR INTELLIGENCE AS OPPOSED TO THOSE OF SIGHT AND HEARING. TOUCH, TASTE AND SMELL REMAIN IN THE BACKGROUND OF CONSCIOUSNESS AND CONTRIBUTE THE LEAST TO OBJECTIVE IDEAS.

SMELL AND TASTE HAVE THE SAME DISADVANTAGE AS HEARING BY NOT BEING INTRINSICALLY SPATIAL. THEY ARE UNABLE TO DEFINE AND RECOGNIZE NATURE IN SPATIAL TERMS IN THE SAME MANNER AS VISION OR HEARING. BUT SMELL PROVIDES A SENSE OF LIFE; THE SHIFTS AND THE TRANSITIONS NOT ONLY HELP TO LOCATE AN INDIVIDUAL IN SPACE BUT ADDS ZEST TO DAILY LIVING. A PARTICULAR SCENT CAN TRIGGER THE MEMORY INTO A STATE OF SENTIMENTALITY. IT CAN EVOKE THE MEMORIES OF CHILDHOOD,

MEALS, RELATIONSHIPS AND PLACES. IT ALLOWS ONE TO SAVOR THE SMELL OF COFFEE, SPICES, FLOWERS AND PINES.

A PERSON IS NOT LIMITED SOLELY TO VISUAL EXPERIENCES; TACTILE EXPERIENCES DEFINE AND RECONIZE SPACES AND DISTANCES AS WELL AS THOSE OF THE OTHER SENSES. "ENVIRONMENT SPEAKS TO US THROUGH OUR SENSES, BUT IF IT ADDRESSES ITS VOICE ONLY TO THEM, THE BUFFERED NOISES REACHING OUR SPIRITS WILL NOT BE SUFFICIENT TO SUSTAIN OUR EFFORTS FOR BETTERMENT. TACTILE SPACE SEPERATES THE VIEWER FROM OBJECTS WHILE VISUAL SPACE SEPERATES OBJECTS FROM EACH OTHER. THE SENSE OF TOUCH ALLOWS THE INDIVIDUAL TO EXPERIENCE THEIR SURROUNDINGS BY FEELING TEXTURES, AIR MOVEMENT, TEMPERATURE CHANGES AND THE 'FEELING OF ENCLOSURE.'" II

TACTILE EXPERIENCE IS ONE OF THE ATTRACTIONS OF SAILING. IT IS AN INTERPLAY OF TACTILE AND VISUAL EXPERIENCES. SAILING PROVIDES THE INDIVIDUAL WITH A RENEWED SENSE OF BEING IN CONTACT WITH SOMETHING, A FEELING DENIED BY THE

II EDWARD T. HALL, THE HIDDEN DIMENSION, p. 59.

INCREASINGLY INSULATED, AUTOMATED LIFE.

THE CONCEPT OF SPACE IS NOT EASILY DEFINED.

A PERSON IS AWARE OF AN OBJECT AS CLOSE OR DISTANT, BUT WHY THERE IS THIS AWARENESS IS HARD TO EXPLAIN. REACTIONS STEM FROM HOW THE SENSES PERCEIVE THE SURROUNDINGS. VISION AND HEARING ALLOWS ONE TO DISTINGUISH DISTANCE AND SPACE TO A GREAT EXTENT BUT ALSO THE TACTILE SENSE ALLOWS ONE TO DISTINGUISH TEXTURE AND TEMPERATURE WHILE THE SENSE OF SMELL ALLOWS ONE TO DISTINGUISH AND DEFINE THE DISTANCE AND SPACE THROUGH THE SCENT IT RECEIVES.

DISTANCE WHEN ANALYZED BY THE SENSES HAS BEEN DIVIDED INTO FOUR CATEGORIES, INTIMATE, PERSONAL, SOCIAL AND PUBLIC. THROUGH THESE FOUR DISTANCES SPACES ARE CREATED TO ENHANCE AND CONTROL WHAT THE SENSES RECEIVE AND RECOGNIZE.

"PERFECTION WOULD, OF COURSE LIE IN THE UNION OF ELEMENTS ALL INTRINSICALLY BEAUTIFUL, IN FORMS ALSO INTRINSICALLY SO; BUT WHERE THIS IS IMPOSSIBLE, DIFFERENT NATURES PREFER TO SACRIFICE ONE OR THE OTHER ADVANTAGE."¹²

¹² PAOLO SOLERI, MATTER BECOMING SPIRIT, P. 72

CONCLUSION

AN INDIVIDUAL CAN NEVER BE AWARE OF THE WORLD AS SUCH, BUT ONLY AWARE OF THE PHYSICAL FORCES ON SENSES. OUTWARD BOUND PROVIDES THE OPPORTUNITIES TO AWAKEN THE INDIVIDUAL AND THEIR SENSES. THE SENSES AND THE PROGRAM AT OUTWARD BOUND PROVIDES EXPERIENCES THAT CAN BE EVALUATED IN A QUANTIFYING SCALE.

1.) PHYSICAL EXPERIENCES - THE OPPORTUNITY FOR PHYSICAL EXERCISE AND EXERTION THAT STIMULATES THE BODY.

2.) EMOTIONAL EXPERIENCES - IDENTIFIED BY PHYSICAL REACTIONS SUCH AS THE THRILL OF EXPERIENCING NEW SENSATIONS AND EXPLORING WILD REGIONS, OR THE JOY OF TESTING ONE'S SKILL AGAINST THE FORCES OF NATURE.

3.) AESTHETIC EXPERIENCES - MENTAL EVALUATION OF A SCENE, A FORM, AN ACTION OR A PATTERN OF COLORS, THE ENJOYMENT OF THE BEAUTIES AND INFINITE VARIETY OF RELATIONSHIPS THAT EXIST IN AN UNMOLESTED NATURAL ENVIRONMENT.

4.) EDUCATIONAL EXPERIENCES - THE OPPORTUNITY TO GAIN NEW KNOWLEDGE OR TEACH OTHERS ABOUT

THE IMPORTANCE OF PRESERVING SOIL, WATER, WILDLIFE, PLANT AND SCENIC RESOURCES OF A WILDERNESS AREA.

5.) SOCIAL EXPERIENCES - THOSE RANGING FROM BRIEF CONVERSATIONS WITH FELLOW STUDENTS ALONG THE TRAIL TO MORE LENGTHY CONVERSATIONS ENGAGED IN DURING A STOP AT A TRAIL OR CAMP IN THE WILDERNESS.

ALL OF THESE EXPERIENCES REACQUANT THE STUDENT TO NATURE AND HER OFFERINGS. "IN OTHER WORDS, HE FINDS HIMSELF SO OUT OF SYMPATHY WITH HIS ENVIRONMENT THAT HIS CREATIVE POWERS LIE DORMANT UNTIL BY REMOTE INFLUENCES THEY ARE QUICKENED INTO ACTION, A FORM OF LIFE WHICH, WE MUST GRANT, IS FAR FROM NORMAL. ARCHITECTURE SIMILARLY DEVOTES ITSELF TO THIS SENSATION MAKING."¹³

¹³ EDWARD T. HALL, THE HIDDEN DIMENSION, p.87.

PROGRAM

USER PROFILE

THE MAIN CONCERN FOR THIS THESIS IS THE CREATION OF A REGIONAL HEADQUARTERS FOR OUTWARD BOUND WHICH DEALS WITH THE ADMINISTRATIVE ASPECTS OF THE SCHOOL.

THE EMPLOYEES OF OUTWARD BOUND ARE OF A UNIQUE CHARACTER. WHETHER THEY ARE OUT IN THE FIELD LEADING A COURSE OR IN THE ADMINISTRATION OFFICE HANDLING REGISTRATION AND PUBLIC RELATIONS, THE EMPLOYEES SHARE A COMMON AWARENESS OF THEIR SURROUNDINGS. ALL THE MEN AND WOMEN ARE OUTSTANDING INDIVIDUALS. THEY ARE SELF-RELIANT, HIGHLY SKILLED AND COMPETENT IN THEIR FIELD, PROFESSIONALLY TRAINED TO WORK WITH PEOPLE AND ARE CHOSEN AS MUCH FOR THEIR ABILITY TO DEAL SUCCESSFULLY WITH PEOPLE AS THEY ARE FOR THEIR TECHNICAL EXPERTISE.

THESE PEOPLE COME FROM ALL WALKS OF LIFE, AND HAVE HAD PREVIOUS OUTWARD BOUND EXPERIENCE. THEY ARE TEACHERS, BUSH PILOTS, FORMER PEACE CORPS MEMBERS, DOCTORS AND BUSINESS PEOPLE. MANY HAVE ADVANCED

DEGREES, AND OTHERS ARE EXCEPTIONAL FOR THEIR ABILITY TO LEAD, SCALE MOUNTAINS AND WHITEWATER CANOE.

THE SCHOOL OPERATES YEAR ROUND WITH COURSE OFFERINGS IN ALL FOUR SEASONS. THE PRIMARY EMPHASIS FOR THIS REGION IS CANOEING, BACKPACKING, CROSS COUNTRY SKIING, SNOWSHOE AND DOGSLEDDING EXPEDITIONS.

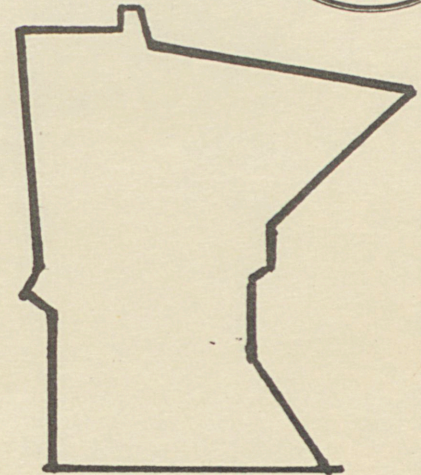
BECAUSE OF THE INCREASING PARTICIPATION IN THE SCHOOL THE PRESENT OFFICE IS SEEKING TO MOVE AND EXPAND. WITH AN OPPORTUNITY TO ADD TO THE ANTICIPATED NEEDS, OUTWARD BOUND WOULD LIKE INVITE THE PUBLIC TO UTILIZE THEIR BUILDING BY INCORPORATING DINING AND CONFERENCE FACILITIES TO ESTABLISH GOOD PUBLIC RELATIONS AND CREATE A REVENUE GENERATING POSSIBILITY.

PLACE

MINNESOTA IS CALLED THE "LAND OF 10,000 LAKES." IT IS LOCATED AT THE BIOLOGICAL CROSSROADS OF THREE GREAT REGIONS - THE WESTERN PLAINS AND PRAIRIES, THE NORTHERN CONIFEROUS FOREST AND THE EASTERN HARDWOOD FOREST. THE RIVERS AND LAKES ARE FILLED WITH WALLEYE, NORTHERN PIKE, TROUT, BASS AND OTHER SPECIES. MOOSE, WHITE TAILED DEER, BLACK BEAR, TIMBER WOLVES, FOX AND SQUIRRELS THRIVE IN THESE NATURAL HABITATS. WITH ALL THESE QUALITIES, PIONEERS BROUGHT HOPE FOR A BETTER LIFE. FIRST CAME THE FRENCH-CANADIANS IN THE 1650'S, THEN THE YANKEE TRADERS FOLLOWED BY THE EUROPEAN IMMIGRANTS.

THE FIRST COMMERCIAL INDUSTRIES IN MINNESOTA WERE FUR TRADING, FARMING, FORESTRY AND MINING. THE FRENCH-CANADIAN VOYAGEURS TRADED GOODS FROM THEIR COUNTRY FOR THE FUR PELTS OF THE DAKOTA INDIANS.

AFTER 1830, IMMIGRANTS CLEARED THE LAND FOR HOMESTEADS, CULTIVATED THE PRAIRIE FOR CROPS, HARVESTED THE DENSE STANDS OF WHITE PINE FOR THE LUMBER AND MINED THE IRON ORE.

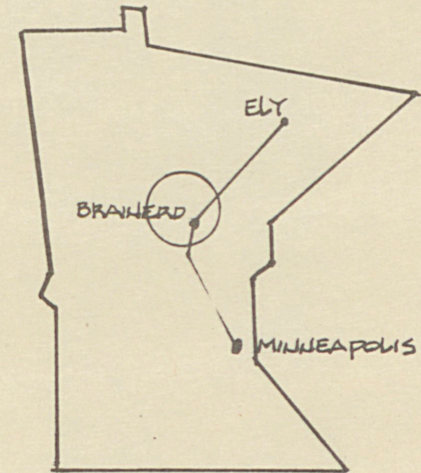


AS THE SETTLERS WORKED TOGETHER THEY FORMED TOWNS AND CITIES. BY THE END OF THE 19TH CENTURY, THEY HAD BUILT THE FOUNDATION FOR MODERN CIVILIZATION IN MINNESOTA.

MANUFACTURING NOW ACCOUNTS FOR THE LARGEST PORTION OF MINNESOTA'S ECONOMY. MINNESOTA PRODUCTS ARE WELL KNOWN THROUGHOUT THE WORLD. THIS SWITCH FROM TIMBER INDUSTRIES TO FARMING AND MANUFACTURING WAS MAINLY DUE TO THE DECLINE OF TREES SUITABLE FOR HARVEST.

LOCATION

THE PRESENT FACILITIES OF THE OUTWARD BOUND OFFICE NO LONGER SATISFY THE NEEDS AND SPACE REQUIREMENTS NEEDED TO OPERATE THE ADMINISTRATION ASPECTS OF THE SCHOOL. BECAUSE THE OFFICE IS MOVING, THE EMPLOYEES AND DIRECTOR OF THE SCHOOL EXPRESSED THE DESIRE TO RELOCATE TO AN AREA THAT IS CLOSER TO THE BASE CAMP IN ELY, MN, WHERE COURSES START AND END, AND ARE ACCESSABLE TO MINNEAPOLIS.



MPLS TO BRAINERD 150 MILES

ELY TO BRAINERD 160 MILES

THE LOCATION CHOSEN FOR OUTWARD BOUND IS BRAINERD, WHICH IS IN THE NORTH CENTRAL PORTION OF THE STATE. THE CITY OF BRAINERD, POP. 30,000, IS SERVICED DAILY BY REPUBLIC AND MESABA AIRLINES TO AND FROM MINNEAPOLIS. BUS SCHEDULES HAVE MANY DAILY RUNS TO AND FROM MINNEAPOLIS AND BEING LOCATED THREE HOURS NORTH, BRAINERD HAS BECOME A POPULAR PLACE FOR TOURISM, CONFERENCES, BUSINESS GROWTH AND VACATION AREAS.

THE BRAINERD LAKES AREA COMPILED SOME

PRACTICAL INFORMATION FROM THE CASS AND CROW WING COUNTY SOIL AND WATER DISTRICTS.

THE REPORT CONSIDERED MORE THAN NATURAL RESOURCES SINCE DEVELOPMENT POTENTIAL ALSO DEPENDS UPON PEOPLE AND FACILITIES NECESSARY FOR DEVELOPMENT. THE BRAINERD LAKES AREA IS RATED VERY HIGH IN POTENTIAL DEVELOPMENT IN TWENTY-ONE OUT OF TWENTY-TWO AREAS RESEARCHED. INCLUDED IN THOSE AREAS RATED VERY HIGH, EIGHT OF THEM ARE PERTINENT TO THE PROJECT. THEY ARE AS FOLLOWS:

- VACATION SITES
- CANOE AND PACK TRIPS
- TRANSIENT PUBLIC
- NATURAL AREAS
- SCENIC AREAS
- HISTORICAL AREAS
- WATER SPORTS
- WINTER SPORTS

THESE AREAS COVER THE POTENTIAL GROWTH OF DEVELOPMENT AND ARE FOLLOWED BY A GROWTH IN POPULATION. THE COMBINED POPULATION, SEASONAL AND PERMANENT RESIDENTS, AS OF 1980 WAS

2,728,000 AS OPPOSED TO 187,841 IN 1960. IT IS
ESTIMATED THAT THE POPULATION DOUBLES IN THE
SUMMER MONTHS BECAUSE PEOPLE MOVE TO
THE BRAINEED LAKES TO LIVE IN THEIR VACATION
HOMES.

SPACE REQUIREMENTS

THE PRESENT FACILITIES FOR THE OUTWARD BOUND OFFICE ARE LACKING IN SPACE AND FUNCTION. THEY ARE IN THE PROCESS OF EXPANDING AND DESIRE A NEW FACILITY.

PRESENT FACILITIES

RENTAL SPACE IN OFFICE COMPLEX
45 MINUTE DRIVE WEST OF MINNEAPOLIS
12 EMPLOYEES
2 SEPERATE OFFICES
1 COMMON OFFICE
1 CONFERENCE ROOM/BREAK ROOM

NEEDS OF FUTURE FACILITY

SEPERATE BUILDING / PORTRAY IMAGE
WILDERNESS SETTING OR AREA
20 EMPLOYEES / 4-6 VISITING INSTRUCTORS
10-12 SEPERATE OFFICE AREAS
CONFERENCE ROOM
XEROX ROOM

SHOWER FACILITIES

SLEEPING ACCOMODATIONS

ABILITY TO EXPAND ON SITE

CAMPING POSSIBILITIES

KITCHEN/DINING /RESTAURANT FACILITIES

RESTROOMS

MEETING /CONFERENCE ROOMS FOR PUBLIC USE

PRACTICE AREA FOR CAMPING /WATER SKILLS

BUILDING DESCRIPTION

THE INCLUSION OF RESTAURANT AND CONFERENCE FACILITIES ALLOWS OUTWARD BOUND TO OPEN THEIR BUILDING TO THE PUBLIC. THE OFFICE ITSELF IS FOR THE ADMINISTRATION ASPECTS OF OUTWARD BOUND. IN THE OFFICE, ALL THE ADVERTISING, REGISTRATION AND PAPER WORK IS HANDLED. ALTHOUGH THEY ARE BASED IN THE OFFICE, THE STAFF AND LEADERSHIP AT OUTWARD BOUND HAVE SPENT YEARS LIVING IN THE OUTDOORS. THEY SHARE ONE COMMON INTEREST AND THAT IS TO COMMUNICATE THEIR LOVE OF OUTDOOR ADVENTURE AND THE SKILLS IT TAKES TO ENJOY THE ADVENTURE SAFELY.

OUTWARD BOUND WANTS TO OPEN ITS BUILDING FOR THE PUBLIC TO UTILIZE. IN VIEW OF THE POTENTIAL GROWTH IN THE BRAINERD LAKES AREA, THE NEED FOR A YEAR ROUND REVENUE GENERATING FACILITY IS APPARENT TO HELP OFFSET THE ECONOMICALLY SLOWER PERIODS DURING THE OFF SEASON. THERE ARE NO YEAR ROUND FACILITIES FOR CONFERENCES IN THE AREA. BY INCLUDING MEETING AND CONFERENCE ROOMS OPEN TO THE PUBLIC, THIS WOULD PROVIDE THE AREA RESORTS WITH CLIENTS FOR OVER NIGHT LODGING, AND HELP IN ESTABLISHING ECONOMIC STABILITY IN THE OFF SEASON.

THE CONFERENCE FACILITY WOULD OFFER PRIVACY AND VARIETY. NOW IS A TIME WHEN CONFERENCES OF ALL KINDS ARE MEETING AND THE DESIRE IS FOR A PLACE THAT OFFERS SOMETHING OTHER THAN MEETING ROOMS OR LOCATED NEXT TO THE AIRPORTS. A CONFERENCE FACILITY THAT IS OFF THE BEATEN PATH HOLDS MORE OF AN ALLURE FOR OUT OF TOWN BUSINESSES WHO WOULD WANT FEW DISTRACTIONS AND A BREAK IN THE ROUTINE. THE FACILITY IS PROPOSED MOSTLY FOR OUT OF

TOWN CLIENTS IN NORTHERN MINNESOTA AND AREA BUSINESSES CONVENING OVER LUNCH OR HOLDING ONE DAY WORKSHOPS.

BECAUSE THE OUTWARD BOUND OFFERS NO LODGING ACCOMODATIONS FOR THE PUBLIC, THIS ALLOWS FOR A DISTINCTION BETWEEN WORK AND RELAXATION. BY BOOKING AN AREA RESORT FOR LODGING ACCOMODATIONS, NOT ONLY WOULD THIS PRODUCE REVENUE BUT IT WOULD ALLOW THE CLIENTS TO BECOME REACQUAINTED AND GET TO KNOW ONE ANOTHER INSTEAD OF BEING DISTRACTED BY THE NIGHTLIFE OF CONFERENCES LOCATED CLOSER TO TOWN OR WITHIN A HOTEL. CONFERENCES ARE BECOMING EXTREMELY POPULAR AND ARE GOOD WAYS TO MEET OTHER PEOPLE AND ESTABLISH CONTACTS. THE LOCATION OF THE CONFERENCE FACILITY OFFERS MANY RECREATIONAL OPPORTUNITIES AS OPPOSED TO THE USUAL NIGHT LIFE ENTERTAINMENT OF THE CITY.

BESIDES THE ADDITION OF A CONFERENCE FACILITY, OUTWARD BOUND WOULD LIKE TO INCLUDE A KITCHEN AND DINING FACILITY FOR THE EMPLOYEES AND PUBLIC. THIS WOULD ENABLE

THE OUTWARD BOUND STAFF TO RESEARCH NEW FOOD SCHEDULES FOR THEIR PROGRAMS, OFFER A COOKING FACILITY FOR THE EMPLOYEES PERSONAL USE, AND OFFER A RESTAURANT TO THE AREA RESIDENTS. BESIDES PROVIDING JOBS AND REVENUE, THE RESTAURANT WOULD BE ABLE TO CATER CONFERENCES AND PROVIDE ON SITE COOKING FACILITIES. IT WOULD BE OPEN YEAR ROUND TO TOURISTS AND LOCAL RESIDENTS AND SHOULD BE ZONED FOR A LIQUOR LICENSE BECAUSE WITHOUT ONE IT IS DIFFICULT FOR A RESTAURANT TO SUCCEED WHEN LOCATED IN AN OUT OF THE WAY AREA.

THE CONFERENCE AND RESTAURANT FACILITIES FURTHER EXPANDS THE SCOPE OF THIS THESIS AND OPENS THE BUILDING TO BE UTILIZED BY THE PUBLIC. THIS ALLOWS OUTWARD BOUND TO GAIN PUBLIC RELATIONS AND AWARENESS OF THEIR SCHOOL.

SENSITIVITY TO THE SITE AND AREA IS OF THE MOST IMPORTANCE IN ESTABLISHING A SUCCESSFUL BUILDING. BY LIMITING THE SIZE AND FACILITIES, THIS ENABLES MAXIMUM USE AND ENJOYMENT WHILE

STRIVING ONLY TO ENHANCE THE AREA.

IN RELATING TO OUTWARD BOUNDS PHILOSOPHY OF MAN IN HARMONY WITH NATURE, THE INDIVIDUAL ARRIVING TO THE SITE AND BUILDING SHOULD FIND THEMSELVES OUT OF SYMPATHY WITH NATURE. BY OFFERING REMOTE AND SLIGHT INFLUENCES TO THEIR SENSES WOULD ALLOW OPPORTUNITIES FOR A DEEPER APPRECIATION AND AWARENESS OF THEIR SURROUNDINGS AND NATURE. THE BUILDING SHOULD EXPRESS THIS IMAGE; TO HAVE THE ESSENCE OF BALANCE, TO MAXIMIZE THE IMPACT ON MAN AND MINIMIZE THE IMPACT ON NATURE.

SPACE REQUIREMENTS

OFFICE

QUANTITY SQ. FT.

SPACE: ANTEROOM

DESCRIPTION: ENTRANCE POINT LEADING TO THE HEART OF THE BUILDING.

1

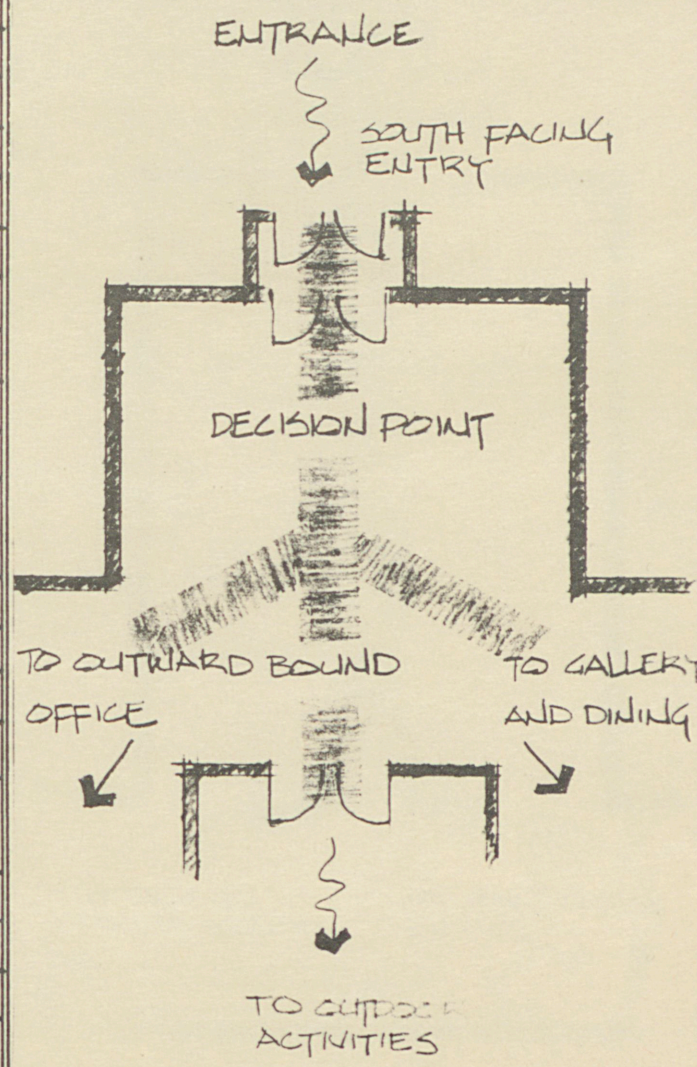
400 #

ENVIRONMENTAL NEEDS: DOUBLE DOORS FOR CLIMATIC CONTROL, MAXIMUM NATURAL LIGHT.

CIRCULATION: ACTIVE TRAFFIC FLOW.

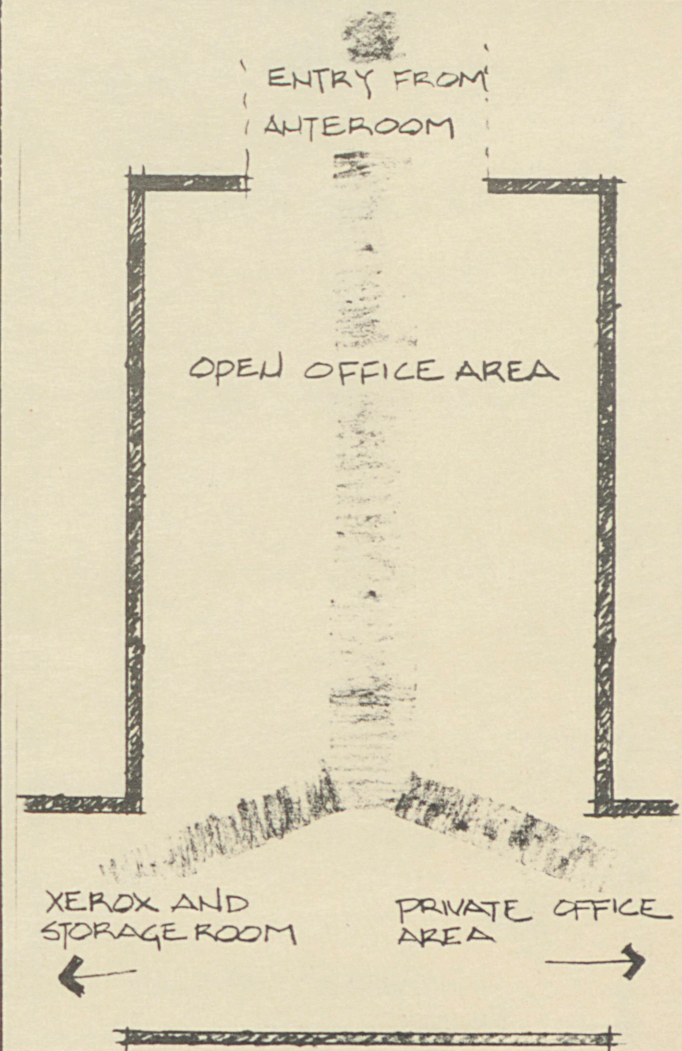
SECURITY: OPEN ALL HOURS WITH RECEPTIONIST ON DUTY.

RELATED SPACES: OFFICE, OUTDOOR ACTIVITIES, CONFERENCE ROOMS, DINING AREA, RESTROOMS, GALLERY.



SPACE REQUIREMENTS

<u>OFFICE</u>	<u>QUANTITY SQ. FT.</u>	
<u>SPACE: OPEN OFFICE SPACE</u>		
<u>DESCRIPTION: ACCOMMODATES THOSE</u>	1	BOOTH
<u>FUNCTIONS NECESSARY TO THE</u>		
<u>OPERATIONS OF BOOKKEEPING,</u>		
<u>ADVERTISING, AND PUBLIC RELATIONS.</u>		
<u>SPACE FOR EIGHT EMPLOYEES WITH</u>		
<u>INDIVIDUAL DESKS.</u>		
<u>EQUIPMENT: FILES, DESKS, CHAIRS,</u>		
<u>SWITCH BOARD.</u>		
<u>ENVIRONMENTAL NEEDS: FREE FROM</u>		
<u>NOISE OF LOBBY, MAXIMUM NATURAL</u>		
<u>LIGHT, ARTIFICIAL LIGHT AS REQUIRED.</u>		
<u>SECURITY: OFFICE WILL BE SECURED</u>		
<u>AFTER HOURS.</u>		
<u>RELATED SPACES: ANTEROOM, XEROX ROOM</u>		



SPACE REQUIREMENTS

OFFICE

QUANTITY SQ. FT.

SPACE: OPEN OFFICE SPACE (CONTINUED)

RELATED SPACES: BREAK ROOM,
RESTROOMS, SEPERATE OFFICE
AREAS.

SPACE: PRIVATE OFFICE SPACE

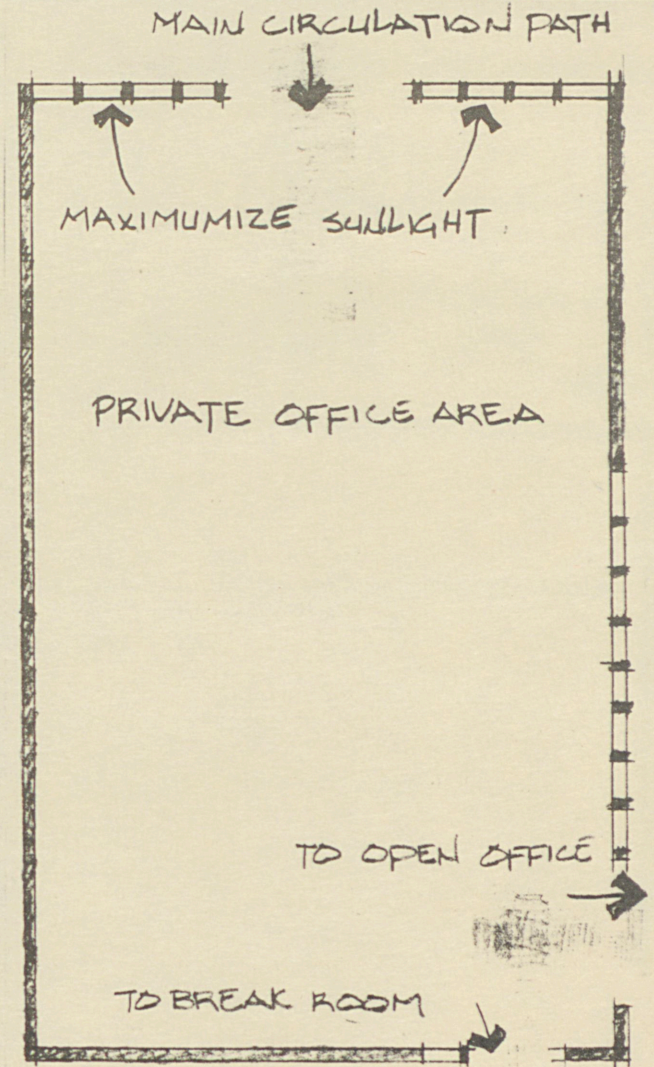
DESCRIPTIONS: ACCOMODATES THOSE
FUNCTIONS NECESSARY FOR MANAGING
OPERATIONS, CLIENT RELATIONS,
SALES, PUBLIC RELATIONS, ADVERTISING.
SPACE FOR TEN TO TWELVE WORK
AREAS WITH INDIVIDUAL DESKS.

EQUIPMENT: DESKS, CHAIRS, FILES,
BOOKSHELVES, SWITCHBOARDS.

ENVIRONMENTAL NEEDS: FREE FROM
NOISE OF LOBBY.

1

1200 ft²



SPACE REQUIREMENTS

OFFICE

QUANTITY SQ. FT.

SPACE: PRIVATE OFFICE SPACE (CONTINUED)

ENVIRONMENTAL NEEDS: MAXIMUM
NATURAL LIGHT, ARTIFICIAL LIGHT AS NEEDED

RELATED SPACES: OPEN OFFICE AREA,
CONFERENCE ROOM, BREAK ROOM,
XEROX ROOM, RESTROOMS.

SPACE: XEROX ROOM

1

200 ft

DESCRIPTION: ACCOMODATES SPACE
AND UTILITIES NEEDED FOR COPYING.

EQUIPMENT: XEROX MACHINE, SHELVES
FOR PAPER AND OFFICE STORAGE.

ENVIRONMENTAL NEEDS: ARTIFICIAL LIGHT

RELATED SPACES: PRIVATE AND OPEN SPACE

OPEN OFFICE
AREA

XEROX ROOM/
OFFICE STORAGE

TO SERVICE
ENTRY

PRIVATE OFFICE AREA

SPACE REQUIREMENTS

OFFICE QUANTITY SQ. FT.

SPACE: CONFERENCE ROOM

1

300 ft²

DESCRIPTION: ACCOMODATES INFORMAL MEETINGS WITH EMPLOYEES AND CLIENTS.

EQUIPMENT: LARGE TABLE, TWENTY CHAIRS.

ENVIRONMENTAL NEEDS: NATURAL LIGHT AND VENTILATION, ARTIFICIAL LIGHT AS NEEDED.

RELATED SPACES: PRIVATE AND OPEN OFFICES.

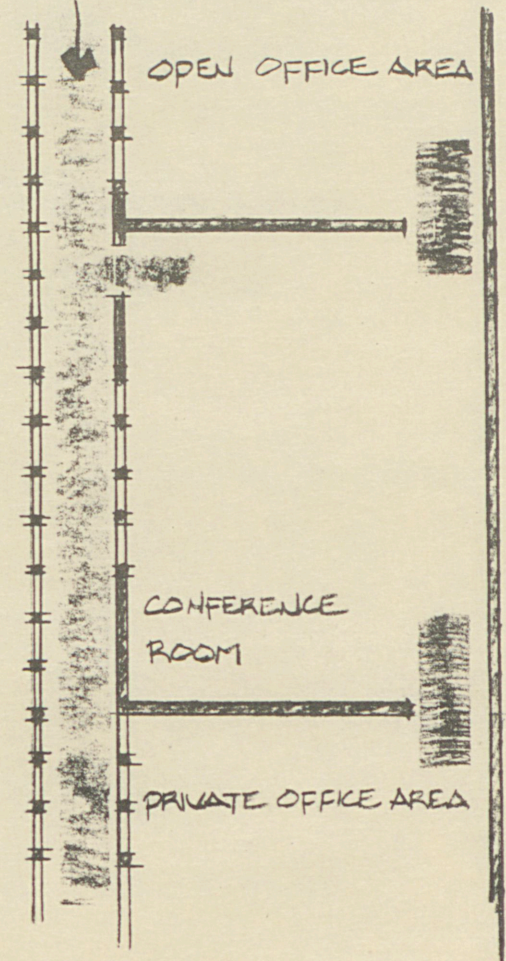
SPACE: BREAK ROOM

1

300 ft²

DESCRIPTION: ACCOMODATES EMPLOYEES FOR RELAXATION AND A SPACE AWAY FROM WORK AREA.

MAIN CIRCULATION PATH



SPACE REQUIREMENTS

OFFICE

QUANTITY SQ. FT.

EQUIPMENT: COUCHES, LOUNGE CHAIRS,
LOW TABLES, SMALL REFRIGERATOR.

ENVIRONMENTAL NEEDS: NATURAL LIGHT
AND VENTILATION, ARTIFICIAL LIGHT AS
NEEDED.

RELATED SPACES: PRIVATE AND OPEN
OFFICES, OUTDOOR ACTIVITIES, RESTROOMS.

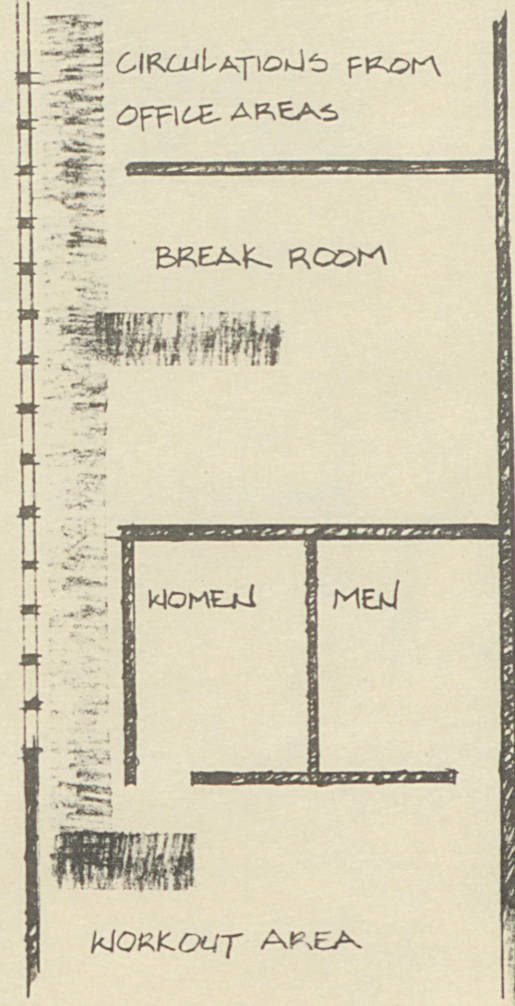
SPACE: RESTROOMS

2

150 $\pm$

DESCRIPTION: ACCOMMODATES CLIENTS,
EMPLOYEES AND PUBLIC.

EQUIPMENT: MEN'S ROOM, 2 URINALS,
1 STALL, 2 SINKS, 2 PAPER TOWEL
DISPENSERS. WOMEN'S ROOM, 2 STALLS,
2 SINKS, 2 PAPER TOWEL DISPENSERS.



SPACE REQUIREMENTS

OFFICE

QUANTITY SQ. FT.

SPACE: RESTROOMS (CONTINUED)

ENVIRONMENTAL NEEDS: NATURAL OR ARTIFICIAL LIGHT AND VENTILATION.

RELATED AREAS: BREAK ROOM, PRIVATE AND OPEN SPACES, ANTEROOM.

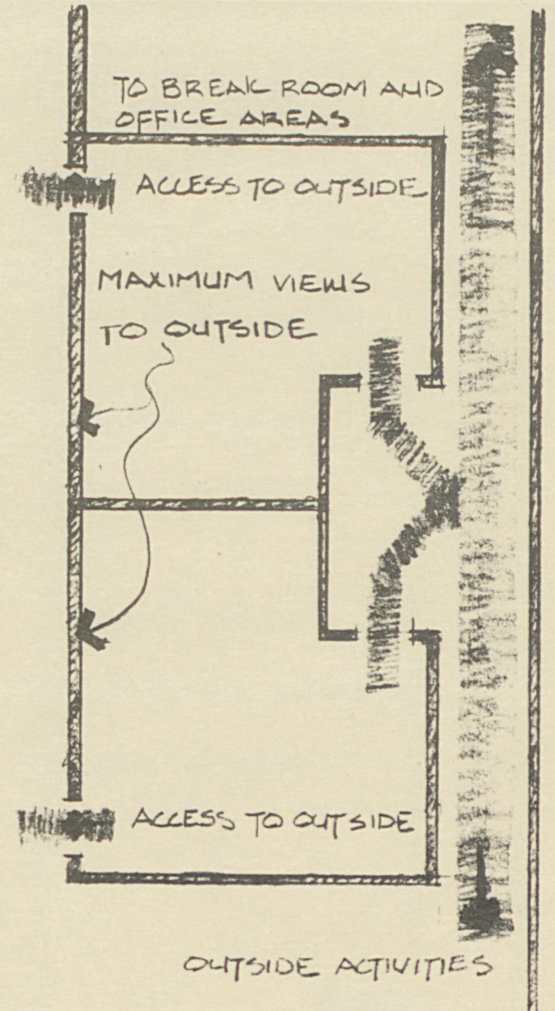
SPACE: SLEEPING ACCOMMODATIONS

2

200#

DESCRIPTION: ACCOMMODATES VISITING INSTRUCTORS AND EMPLOYEES FOR EXTENDED VISITS WITH OVERNIGHT SLEEPING QUARTERS.

EQUIPMENT: 2 ROOMS WITH A JOINING BATH ROOMS. EACH BEDROOM WILL HAVE 1 DOUBLE BED, 1 BUNK BED. THE BATH ROOMS WILL HAVE 1 SINK, 1 STALL AND 1 BATH W/SHOWER.



SPACE REQUIREMENTS

OFFICE QUANTITY SQ. FT.

SPACE: SLEEPING ACCOMMODATIONS (CONTINUED)

ENVIRONMENTAL NEEDS: FREE FROM NOISE OF LOBBY, NATURAL LIGHT AND VENTILATION, ARTIFICIAL LIGHT AS NEEDED.

RELATED SPACES: BREAK ROOM, OUTDOOR ACTIVITIES, LOCKER ROOMS.

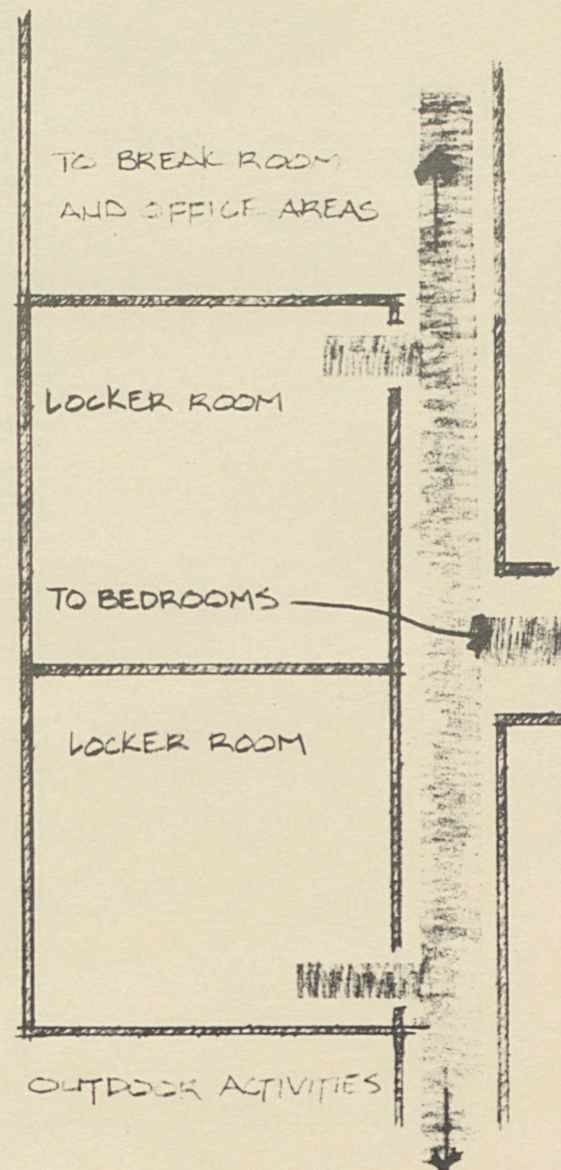
SPACE: LOCKER ROOMS

2

200 ft

DESCRIPTION: ACCOMMODATES VISITING INSTRUCTORS AND EMPLOYEES WITH A CHANGING AREA AND SHOWER FACILITIES.

EQUIPMENT: 3 INDIVIDUAL SHOWERS, LOCKERS, 2 STALLS, 2 SINKS FOR WOMEN'S ROOM.



SPACE REQUIREMENTS

OFFICE

QUANTITY SQ. FT.

SPACE: LOCKER ROOMS (CONTINUED)

EQUIPMENT: 3 INDIVIDUAL SHOWERS,
LOCKERS, 1 URINAL, 1 STALL, 2 SINKS FOR
MEN'S. 1 COMMON SAUNA FOR ALL
VISITING INSTRUCTORS AND EMPLOYEES.

ENVIRONMENTAL NEEDS: NATURAL OR
ARTIFICIAL VENTILATION AND LIGHT
AS NEEDED.

RELATED SPACES: OUTDOOR ACTIVITIES,
SLEEPING ACCOMODATIONS, BREAK ROOM

SPACE REQUIREMENTS

CONFERENCE ROOMS

QUANTITY SQ. FT.

SPACE: MEETING ROOMS

3

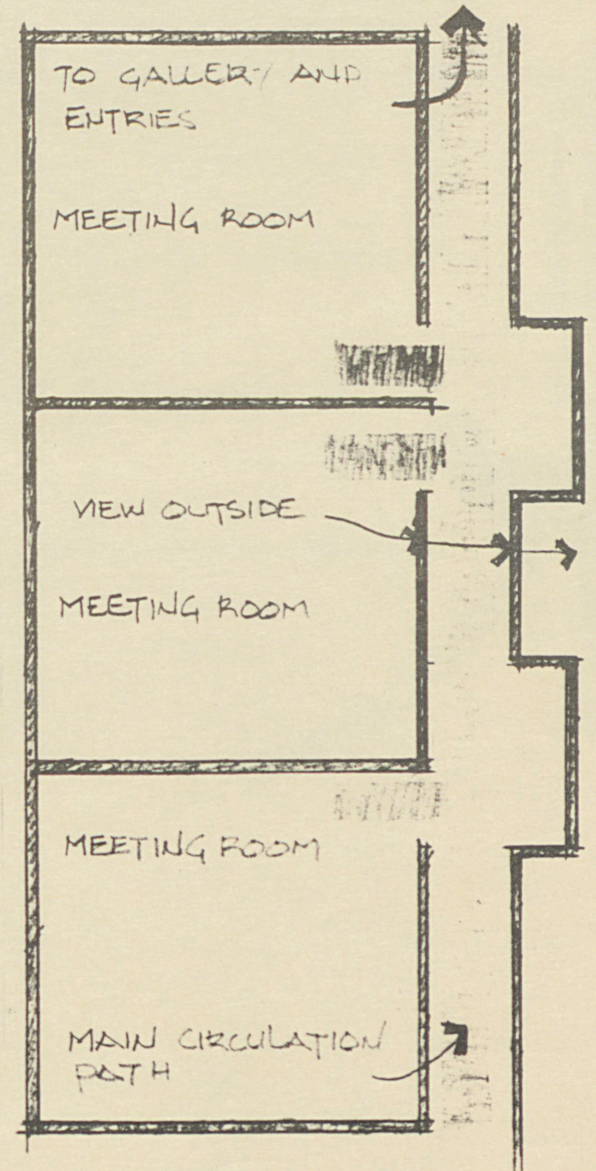
1600 ft²

DESCRIPTION: ACCOMODATES PUBLIC FOR CONVENTIONS, MEETINGS, WORKSHOPS. ONE ROOM WILL HAVE A CAPACITY FOR FIFTY PEOPLE AND EQUIPPED WITH AUDIO/VISUAL EQUIPMENT.

EQUIPMENT: SCREENS FOR VISUAL PRESENTATIONS, PROJECTORS, MINIMUM CEILING HEIGHT OF 12', TABLES, CHAIRS, STORAGE AREA FOR EQUIPMENT.

SECURITY: CONFERENCE ROOMS WILL BE SECURED AFTER HOURS.

ENVIRONMENTAL NEEDS: ARTIFICIAL LIGHT IN VISUAL PRESENTATION ROOM AS NEEDED.



SPACE REQUIREMENTS

CONFERENCE ROOMS

QUANTITY SQ. FT.

SPACE: MEETING ROOMS (CONTINUED)

RELATED SPACES: ANTEROOM, RESTROOMS, GALLERY.

SPACE: GALLERY

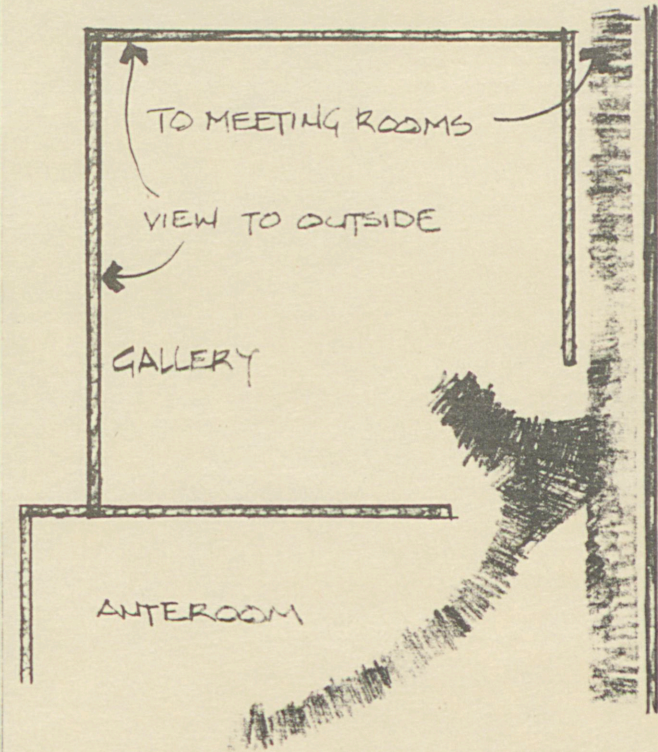
1

500 #

DESCRIPTION: ACCOMODATES FOR CONVENTIONS TO DISPLAY PROGRAMS AND PRESENTATIONS OF OUTWARD BOUND TO PUBLIC AND FOR AREA RESIDENTS TO DISPLAY HOBBIES AND PROJECTS.

EQUIPMENT: WALL SPACE, FREE STANDING, PARTITIONS, STANDS, ARTIFICIAL SPOT LIGHTS.

SECURITY: GALLERY WILL BE SECURED AFTER HOURS.



SPACE REQUIREMENTS

CONFERENCE ROOMS

QUANTITY SQ. FT.

SPACE: GALLERY (CONTINUED)

ENVIRONMENTAL NEEDS: NATURAL AND
ARTIFICIAL LIGHT AS NEEDED.

RELATED SPACES: ANTEROOM, MEETING
ROOMS, RESTROOMS.

SPACE: RESTROOMS

2

150 $\frac{1}{2}$

DESCRIPTION: TO BE INCORPORATED
WITH THE OUTWARD BOUND OFFICE
FACILITIES, OR USED EXCLUSIVELY BY
VISITING PUBLIC.

SPACE REQUIREMENTS

RESTAURANT	QUANTITY	SQ. FT.
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SPACE: KITCHEN	1	800 ft
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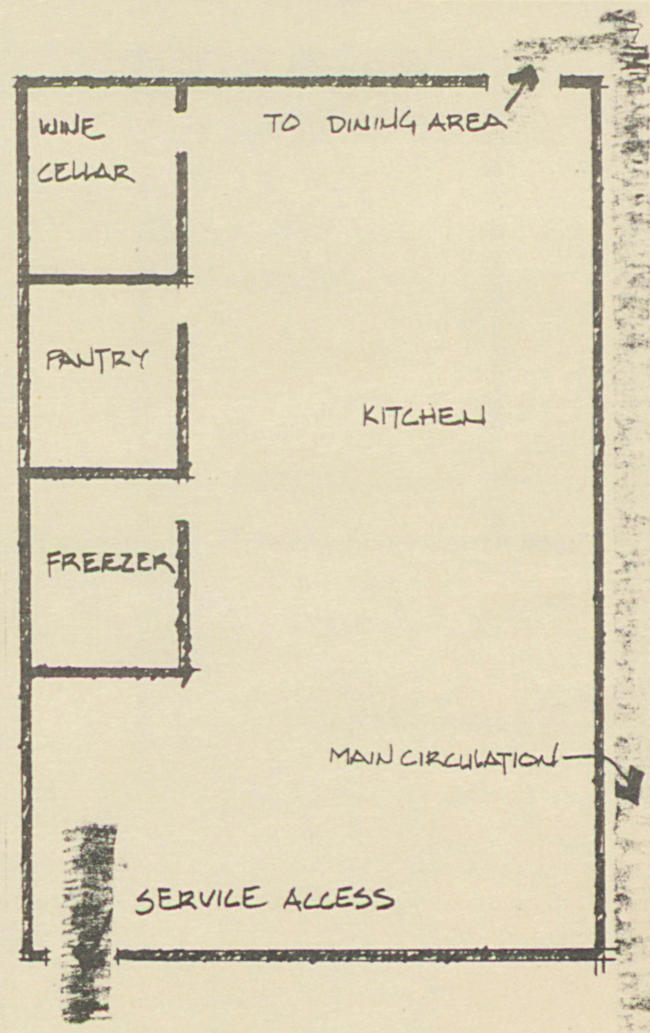
DESCRIPTION: ACCOMODATES EMPLOYEES AND VISITING INSTRUCTORS THE PREPERATION OF FOOD.

EQUIPMENT: COLD STORAGE, DRY STORAGE, PREP TABLES, OVEN, STOVE, DISHWASHER, 3 SINKS, WINE CELLAR, UTILITIES ROOM, REFUSE AREA.

ENVIRONMENTAL NEEDS: SEDERATION OF FOOD PREPERATION AND REFUSE AREAS. NATURAL OR ARTIFICIAL LIGHT AS REQUIRED.

SECURITY: KITCHEN WILL BE SECURED AFTER HOURS.

BELETED SPACES: DINING AND SERVICE AREAS.



SPACE REQUIREMENTS

RESTAURANT

QUANTITY SQ. FT.

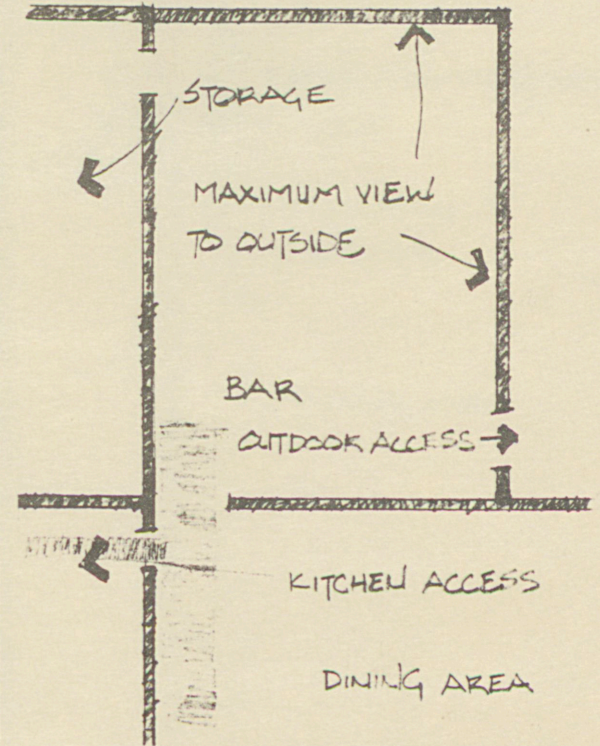
SPACE: BAR

DESCRIPTION: ACCOMODATES EMPLOYEES, PUBLIC AND VISITING INSTRUCTORS AN AREA FOR INDOOR AND OUT DOOR RELAXATION.

EQUIPMENT: BAR, STOOLS, SHELVES, SINK, GLASS WASHER.

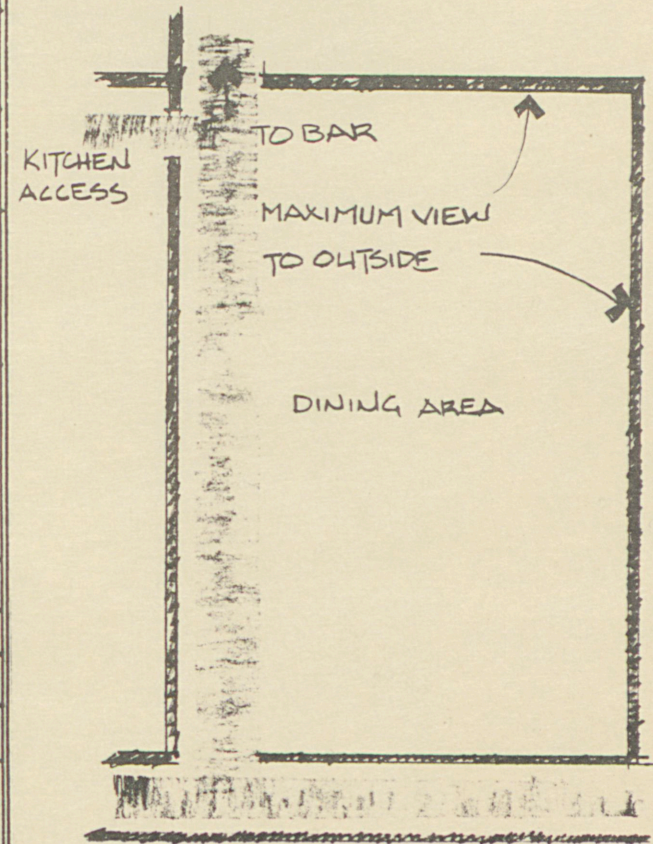
ENVIRONMENTAL NEEDS: NATURAL AND ARTIFICIAL LIGHT AND VENTILATION AS REQUIRED.

RELATED SPACES: DINING AREA, SERVICE AREA.



SPACE REQUIREMENTS

<u>RESTAURANT</u>	<u>QUANTITY SQ. FT.</u>	
<u>SPACE: DINING AREA</u>	1	500 #
<u>DESCRIPTION: ACCOMMODATES EMPLOYEES, VISITING INSTRUCTORS, CONVENTIONS AND THE PUBLIC AN AREA FOR INDOOR AND OUTDOOR EATING.</u>		
<u>EQUIPMENT: HOSTESS STAND, COAT RACK, TABLE, CHAIRS, CASH REGISTER, OUTDOOR FURNITURE, BARBACUE.</u>		
<u>SECURITY: INDOOR AREA WILL BE SECURED AFTER HOURS.</u>		
<u>ENVIRONMENTAL NEEDS: ARTIFICIAL AND NATURAL LIGHT AND VENTILATION.</u>		
<u>RELATED SPACES: ANTEROOM, KITCHEN, OUTDOOR DINING, RESTROOMS.</u>		



SPACE REQUIREMENTS

OUTDOOR ACTIVITIES

QUANTITY SQ. FT.

SPACE: CAMPING SKILLS

1

VARIABLES

DESCRIPTION: ACCOMMODATES EMPLOYEES
AND INSTRUCTORS AN AREA TO
PRACTICE SKILLS OF CAMPSITE,
STARTING FIRES, PITCHING TARPS ETC....
SEPERATE FROM IMMEDIATE BUILDING.

SPACE: WATER SKILLS

1

VARIABLES

DESCRIPTION: ACCOMMODATES EMPLOYEES
AND INSTRUCTORS AN AREA TO PRACTICE
WATER SAFETY SKILLS FOR CANOEING
AND SWIMMING.

EQUIPMENT: STORAGE SHED FOR LIFE
JACKETS, PADDLES, FISHING GEAR.
SHORE AREA TO BEACH CANOES AND
DOCK MOTOR BOATS. 10-15 BOAT SLIPS.

SPACE REQUIREMENTS SUMMARY

ENTIRE BUILDING

THE SPACE REQUIREMENTS PROGRAMMED ARE APPROXIMATIONS AND MAY VARY IN QUANTITY AND/OR SQUARE FOOTAGE AS DEEMED NECESSARY IN THE FINAL DESIGN OF THE PROJECT.

<u>AREA</u>	<u>SQUARE FOOTAGE</u>
<u>OFFICE</u>	4300 $\pm$
<u>CONFERENCE</u>	2400 $\pm$
<u>RESTAURANT</u>	<u>1700 $\pm$</u>
<u>BUILDING TOTAL</u>	<u>8400 $\pm$</u>

BUILDING IS ESTIMATED AT 8400 $\pm$ + 10% FOR SERVICE AND CIRCULATION.

PARKING FOR 50 CARS. APPROX. 10,000 $\pm$.

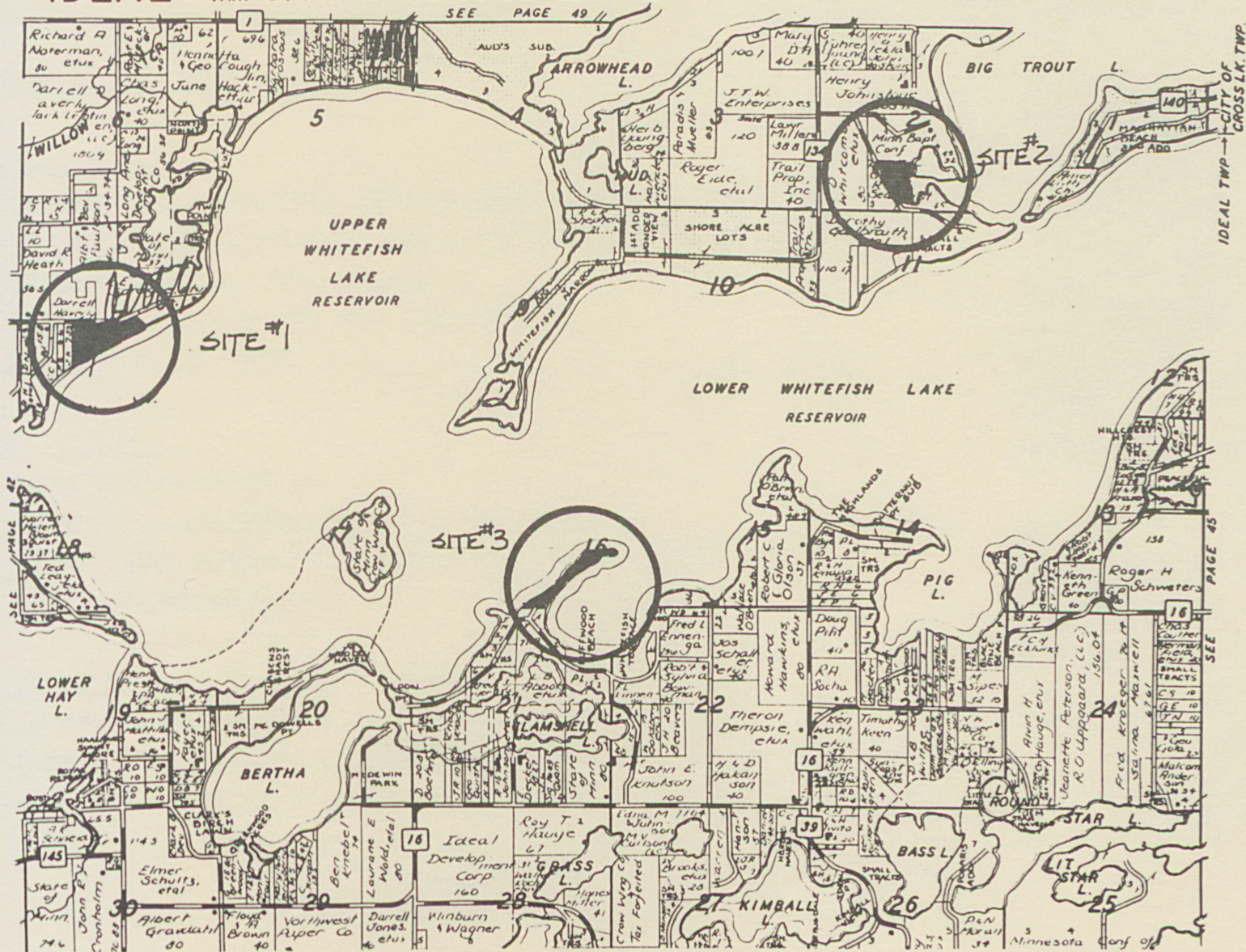
SITE INVESTIGATIONS

THE SITES INVESTIGATED FOR THIS PROJECT ARE LOCATED ON WHITEFISH LAKE. LOCATED 25 MILES NORTH OF BRAINERD, WHITEFISH LAKE OFFERS MUCH IN REAL ESTATE, DEVELOPMENT AND SCENERY. THE LAKE IS REMOVED FROM MUCH OF THE TOURIST TRADE THAT IS APPARENT CLOSER TO BRAINERD AND OFFERS MORE OF A SENSE OF PRIVACY AND ISOLATION THAT OUTWARD BOUND DESIRES.

THE SITES CONSIDERED FOR THIS PROJECT WERE DETERMINED BY AVAILABLE LAND ZONED FOR WATERFRONT COMMERCIAL DEVELOPMENT. FROM THOSE LISTINGS, 3 SITES WERE SELECTED FOR SITE VISITATIONS AND INVESTIGATIONS THAT WERE VERY DIFFERENT FROM EACH OTHER CONCERNING LOCATION, TERRAIN AND WATER FRONTAGE.

IDEAL WEST CITY OF CROSS LAKE

T. 137 N.-R. 28 W. 43



SITE #1

KETCH PROPERTY

DESCRIPTION:

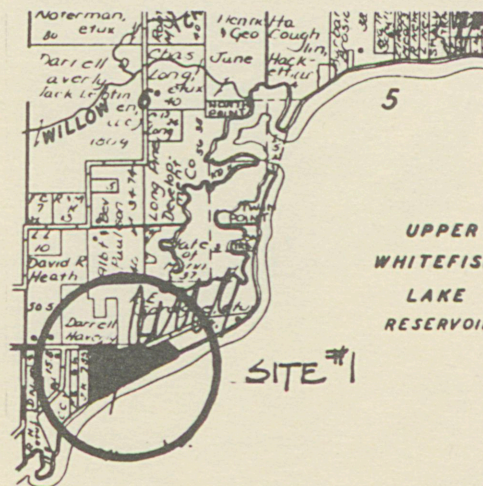
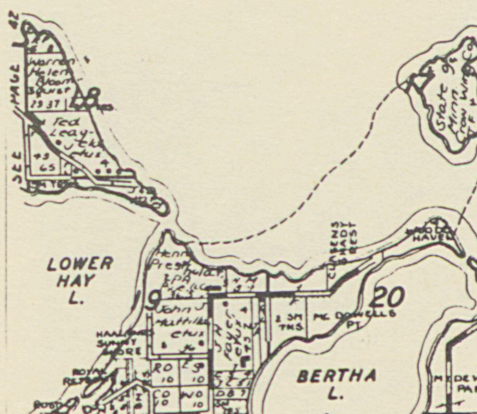
- LOCATED ON WEST SHORE OF WHITEFISH LAKE
- ZONED FOR WATERFRONT COMMERCIAL DEVELOPMENT
- CLEAR WATER FRONTAGE
- ROAD ACCESS 15 VIA HWY 371
- FAIRLY FLAT SITE

GOOD POINTS

- SOUTH EXPOSURE
- EASY ACCESS BY BOAT AND CAR
- NEAR-BY RESORT PROVIDES OVERNIGHT LODGING
- WELL FORESTED

BAD POINTS

- LACK OF PRIVACY, SECLUSION, ISOLATION
- RESORT ACROSS FROM SITE, NOISE DISTRACTIONS
- NO PREVIOUS DEVELOPMENT



SITE #2

SEAGUST PROPERTY

DESCRIPTION:

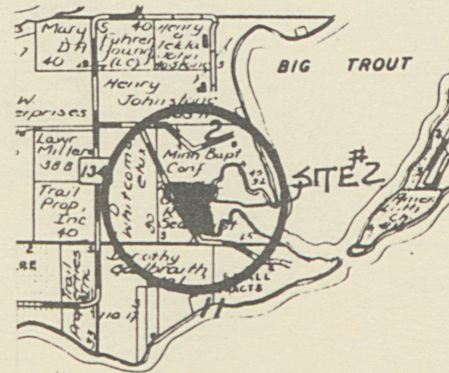
- LOCATED ON WEST SHORE OF BIG TROUT LAKE
- ZONED FOR WATERFRONT COMMERCIAL DEVELOPMENT
- MARSH WATER FRONTAGE
- NEAR-BY ACCESS TO MAIN LAKE
- ROAD ACCESS 134 VIA HWY. 6 NORTH OF BRAINERD
- FAIRLY STEEP SITE

GOOD POINTS

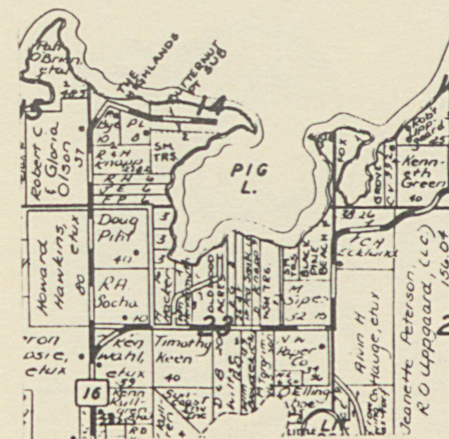
- PRIVATE LITTLE HOOK, SECLUDED
- EAST EXPOSURE
- OFF MAIN LAKE, MINIMUM BOAT TRAFFIC

BAD POINTS

- ACCESS DIFFICULT BY BOTH CAR AND BOAT
- LIMITED SOUTH EXPOSURE
- MARSH WATER FRONTAGE
- PRIVATE RESIDENTS SURROUND SITE
- NO RESORTS NEAR-BY FOR OVERNIGHT LODGING
- NO PREVIOUS DEVELOPMENT



WHITEFISH LAKE
RESERVOIR



SITE #3

RUTTGERS PROPERTY

DESCRIPTION:

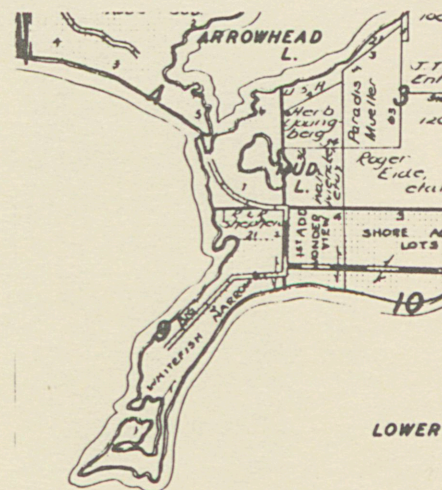
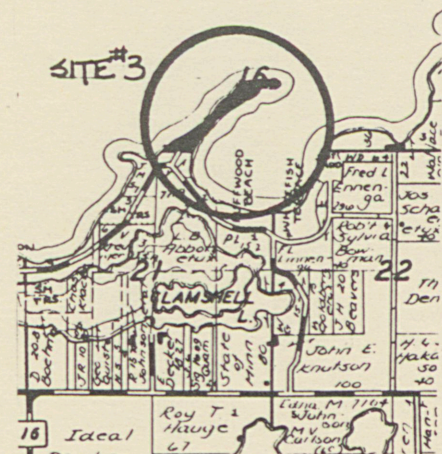
- LOCATED ON SOUTH SHORE OF WHITEFISH LAKE
- ZONED FOR WATERFRONT COMMERCIAL DEVELOPMENT
- ROAD ACCESS 16 VIA HWY 371
- CLEAR WATER FRONTAGE
- PENINSULA
- FAIRLY ROLLING CONTOURS

GOOD POINTS

- • PRIVATE, SECLUDED, ISOLATED
- • EASY ACCESS FROM BOAT AND CAR
- • VIEWS OUT OVER MUCH OF THE LAKE
- • EAST, WEST, SOUTH EXPOSURES
- • PREVIOUS DEVELOPMENT
- • RESORT NEAR-BY FOR OVERNIGHT LODGING

BAD POINTS

- NORTH EXPOSURE
- HIGHLY VISIBLE FROM LAKE AND ROAD ALONG THE BAY
- MINIMUM WIDTH FOR ACCESS ON TO SITE



CONCLUSION

THE THREE SITES INVESTIGATED FOR THIS THESIS WERE LOCATED IN DIFFERENT AREAS AND TERRAINS OF THE LAKE SHORE. EACH SITE OFFERED VERY DIFFERENT SIGHTINGS AND CHARACTER AND WERE EVALUATED IN AREAS OF MAJOR CONCERN EXPRESSED BY OUTWARD BOUND. OF THOSE, THE FOLLOWING AREAS WERE PERTINENT TO THE PROJECT.

- SECLUSION, PRIVACY
- ROAD AND LAKE ACCESS
- WATER FRONTAGE
- ZONED FOR WATERFRONT COMMERCIAL DEVELOPMENT
- EXPOSURE AND VIEWS
- NEAR-BY RESORTS FOR OVERNIGHT LODGING
- PREVIOUS DEVELOPMENT
- FOREST COVERAGE

IN THE EFFORT FOR MINIMUM IMPACT IN THE AREA, SITE #3, RUTGERS PROPERTY, WAS CHOSEN FOR THE PROJECT. THE SITE HAS BEEN PREVIOUSLY DEVELOPED FOR A SMALL RESORT SO MANY OF THE UTILITIES LINES ALREADY EXIST AND ALLOWS THE POSSIBILITY TO UTILIZE THEM IN

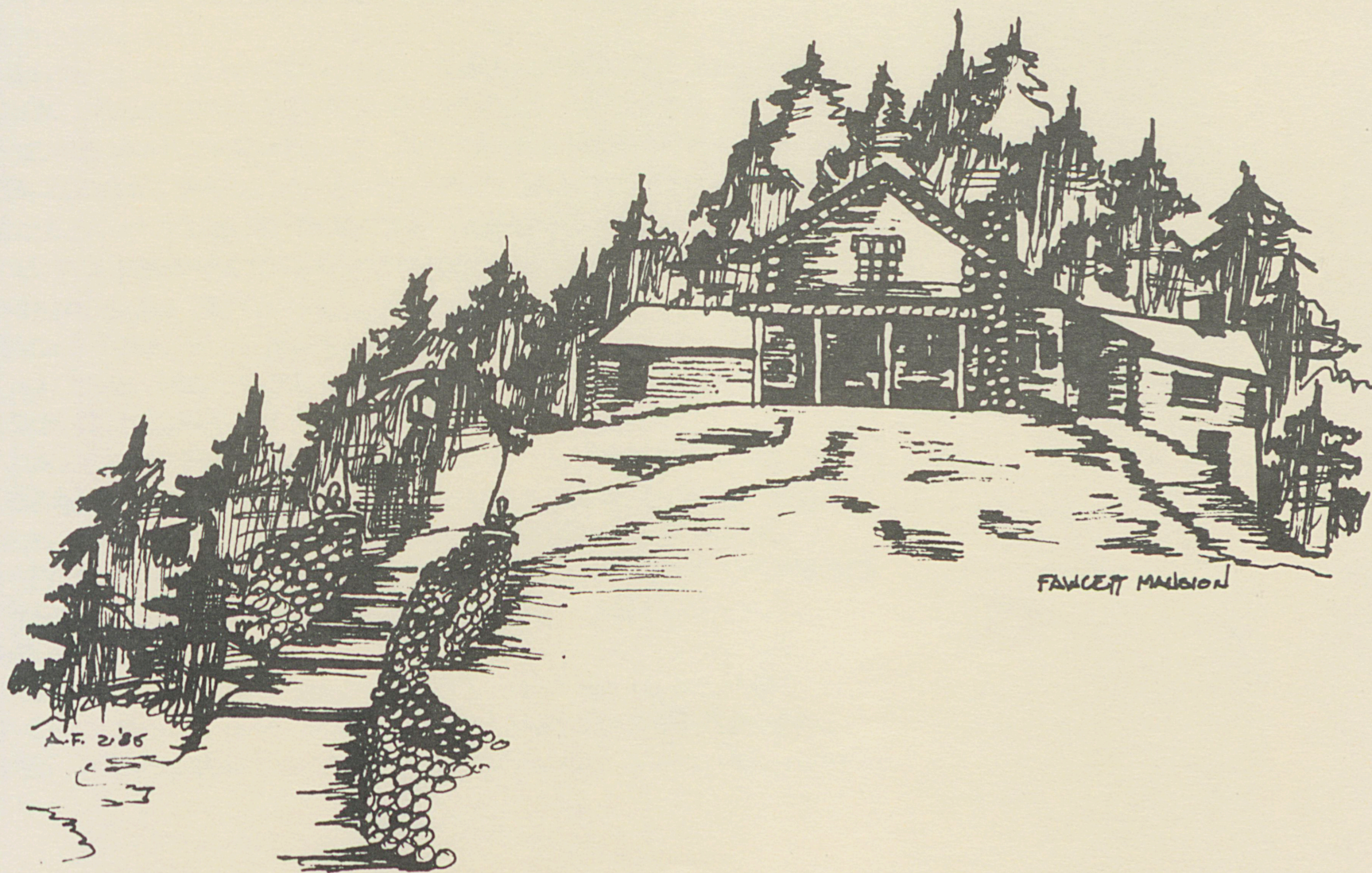
THE PROJECT. THE AREA RESIDENTS ARE ACCUSTOMED TO THE DAILY TRAFFIC FLOW BECAUSE OF THE FORMER RESORT AND WOULD HAVE A GREATER ACCEPTANCE TO THE BUILDING AND THE NATURE OF THE PROJECT THAN IF AN UNDEVELOPED SITE WAS CHOSEN.

BESIDES HAVING BEEN PREVIOUSLY DEVELOPED, THE SITE OFFERS SECLUSION AND PRIVACY WITH HAVING ONLY ONE POINT OF ENTRY AND BEING OFF OF THE LAKE ROAD. IT IS EASILY ACCESSIBLE FROM THE LAKE AND ROAD ALLOWING A VISITOR TO ARRIVE BY CAR OR BY BOAT. ✓

MOST IMPORTANTLY IS THAT BECAUSE THE SITE IS A PENINSULA, IT ALLOWS MAXIMUM WATER FRONTAGE, EXPOSURES, VIEWS TO AND FROM THE SITE AND A SENSE OF JOURNEY TO THE END OF THE PENINSULA.

CASE STUDIES

- FAWCETT MANSION
- DOLIGLAS HOUSE



FAWCETT MANSION

FAWCETT MANSION AT BREEZY POINT RESORT

THE FAWCETT MANSION IS AN EXAMPLE OF THE BACK COUNTRY VENACULAR OF NORTHERN MINNESOTA.

WITH THE ENTRANCE ORIENTED SOUTH, THE BUILDING RESPECTS THE CLIMATE OF THE HARSH SUMMERS AND WINTERS OF NORTHERN MINNESOTA. THE BUILDING HAS GOOD CROSS VENTILATION FOR BREEZES IN THE HOT HUMID SUMMERS, A COVERED PORCH TO PROVIDE PROTECTION FROM THE SUMMER SUN AND THE WINTER SNOW. THE MANSION HAS A SUBSTANTIAL FIREPLACE TO AID IN THE HEATING OF THE BUILDING DURING THE COLD MONTHS.

FAWCETT MANSION IS BUILT ON A HILL AND THE SCALE OF THE BUILDING BREAKS DOWN AS IT MOVES DOWN THE HILL. THE MATERIALS ARE LOGS TIMBERED FROM THE SURROUNDING FORESTS AND THE FIELD STONES USED ARE INDIGENOUS TO THE AREA.

A SENSE OF HARMONY CAN BE FOUND WITH THE BUILDING AND ITS SURROUNDINGS. THE SCALE RESPECTS THE SLOPE OF THE HILL BY

FOLLOWING THE TERRAIN, BREAKING DOWN THE MASSING AND SCALE AS THE BUILDING MOVES DOWN THE HILL. THE MATERIALS USED, FIELD STONES AND LOGS ARE FOUND WITHIN THE BUILDING'S SURROUNDINGS. THE FIELD STONES PROVIDE THE BASE OF THE BUILDING, ALLOWING FOR THE APPEARANCE OF THE FOUNDATION GROWING OUT OF THE GROUND. THE LOGS DEFINE THE FORM OF THE BUILDING AND SPACES WITHIN, ALLOWING FOR A SENSE OF CONTINUITY BETWEEN THE BUILDING AND ITS ENVIRONMENT.

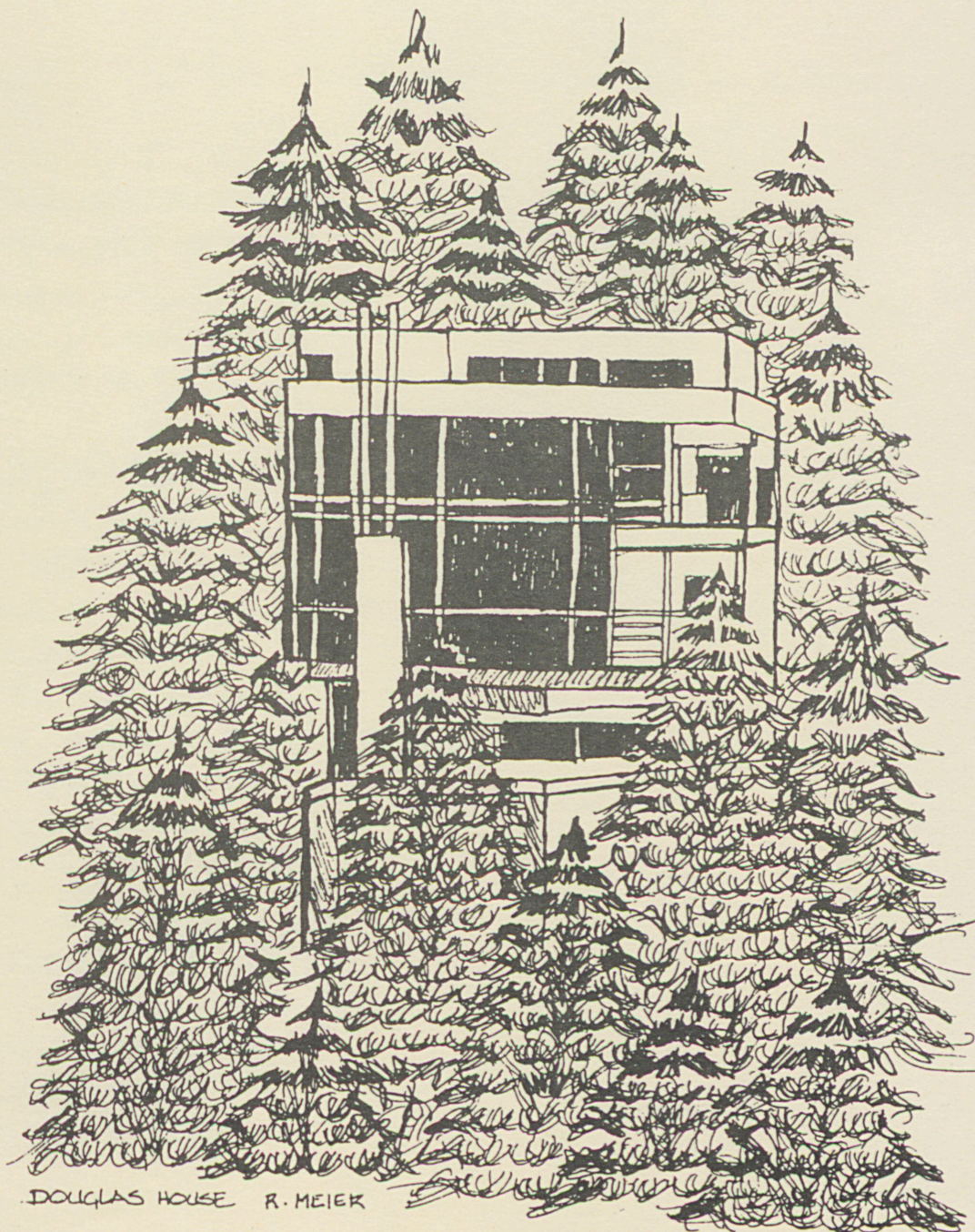
SUMMARY

AVAILABLE FACILITIES AT BREEZY POINT RESORT

- 250 CABINS/UNITS
- 2 GOLF COURSES
- TENNIS COURTS
- INDOOR / OUTDOOR POOL
- BOAT RENTAL
- BOAT LAUNCH
- 3 RESTAURANTS
- 4 LOUNGES
- LARGE BANQUET ROOM
- 6 MEETING ROOMS
- FAWCETT MANSION
(SMALL GROUPS 15-20 PEOPLE)

GOOD POINTS - WELL ORGANIZED / WIDE VARIETY
OF ATTRACTIONS, CONVENIENTLY LOCATED, GOOD
SEPERATION OF INTERESTS. FAWCETT MANSION
ALLOWS CONTINUOUS GROUP INTERACTION.

BAD POINTS - TOO BIG / LOSES SENSE OF UNITY,
LOCATED ON WEST SIDE OF PELICAN LAKE.
FAWCETT MANSION IS LOCATED AMIDST REST OF
RESORT, NO AUDIO-VISUAL EQUIPMENT AVAILABLE
FOR MANSION, MANY DISTRACTIONS.



DOUGLAS HOUSE R. MEIER

A.F. 2.85

DOUGLAS HOUSE BY RICHARD MEIER

THE DOUGLAS HOUSE IS AN EXAMPLE OF EXTREME ABSTRACTION OF BUILDING IN HARMONY WITH NATURE ALTHOUGH IT DOES NOT ADOPT SURROUNDING MATERIALS OR FOLLOW A NATURAL COLOR SCHEME, THE DOUGLAS HOUSE HAS A SENSITIVITY TO THE SITE AND LAKE FRONT.

TO REDUCE THE IMPACT OF THE BUILDING ON THE STEEP SITE, RICHARD MEIER BUILT UP OUT OF THE GROUND. THE BUILDING TAKES ON THE FUNCTIONS OF A TREE. THE FOUNDATION IS THE TRUNK AND AS THE BUILDING GROWS UPWARD THE FLOORS START TO OPEN UP TO THE SUN AND VIEWS OF THE LAKE. THE INDIVIDUAL FLOORS CONTAIN DIFFERENT ACTIVITIES SIMILAR TO THE BRANCHES OF THE TREE WHERE ANIMALS AND ACTIVITIES OCCUR ON DIFFERENT LEVELS. ANOTHER 'TRANSITION' ZONE OCCURS AT THE ENTRY WHERE INDIVIDUAL MUST CROSS A BRIDGE BETWEEN GROUND AND BUILDING.

WITHIN THE HOUSE PROPER THERE IS A ROOF DECK SKY-LIGHT THAT PIERCES THE CENTER OF THE HOUSE WHICH ILLUMINATES THE INTERIOR ALL THE WAY

DOWN TO THE DINING LEVEL. THIS SHAFT OF LIGHT CENTRALIZES AND UNIFIES ALL THE LEVELS AND REINFORCES THE VERTICAL SEPERATION WITHIN THE HOUSE BY USING CUT OUTS IN THE WALL AS A LITERAL ARTICULATION OF THE LIGHT FROM ABOVE.

THE CIRCULATION IS ALSO ARTICULATED BY THE OPENINGS IN THE WALL WHICH ALLOW IT TO BECOME PART OF AN OPEN SPACE, WHILE AT THE SAME TIME IT CAN BE SEEN AS A PART OF THE SOLID SPACE. THIS CREATES THE SPATIAL INTERPLAY, A COMPARISON COULD BE DRAWN FROM THE TREES BY THE WAY THE TRUNK, BRANCHES AND FOILAGE CREATE SOLIDS AND VOIDS.

THE GESTURES TO THE LAKE BY THE TRANSPARENT FACADE THAT IT FRONTS IS REINFORCED BY THE VARIOUS DECKS THAT EXTEND FROM THAT FACADE. THE RESPECT PAID TO THE LAKE IS FURTHER DEFINED BY THE METAPHORIC IMAGE OF A LAND BASED SHIP THAT THE BUILDING ACQUIRES. THE MOTIF IS INFERRED BY THE CANTILEVER METAL STAIRS ON THE OUTSIDE OF THE HOUSE, THE RAILINGS AND THE CURVED ROOF DECK SKY-LIGHT.

A SENSE OF HARMONY CAN BE FOUND WITH

THE BUILDING AND ITS SURROUNDINGS. BECAUSE THE BUILDING IS BUILT VERTICALLY IT REDUCES THE SURFACE AREA OF THE BUILDING ON THE SITE, AND PROMOTES A SENSE OF CONTINUITY OF SCALE BETWEEN THE HOUSE AND SURROUNDING TREES. THE WHITENESS OF THE HOUSE AND THE BLUES AND GREENS OF THE WATER, TREES AND SKY ALLOWS THE HOUSE TO ASSERT ITS OWN PRESENCE AND ENHANCE BY CONTRAST THE BEAUTY OF ITS NATURAL ENVIRONMENT.

SUMMARY

GOOD POINTS - WELL ORGANIZED, GOOD SEPERATION OF ACTIVITIES, GOOD USE OF NATURAL LIGHT, GOOD USE OF VERTICAL CIRCULATION TO TRANSLATE STEEPNESS OF THE SITE.

BAD POINTS - LIMITED ACCESS TO SITE FROM BUILDING, SEPERATION OF INDIVIDUAL AND NATURAL SURROUNDINGS, LIMITED CONTROL OF SUN EXPOSURES FRONTING THE LAKE.

PROCESS

OUTWARD BOUND HEADQUARTERS

PAVED LAKE ROAD KEPT
CLEAR YEAR ROUND

EXISTING DIRT ROAD
ON SITE

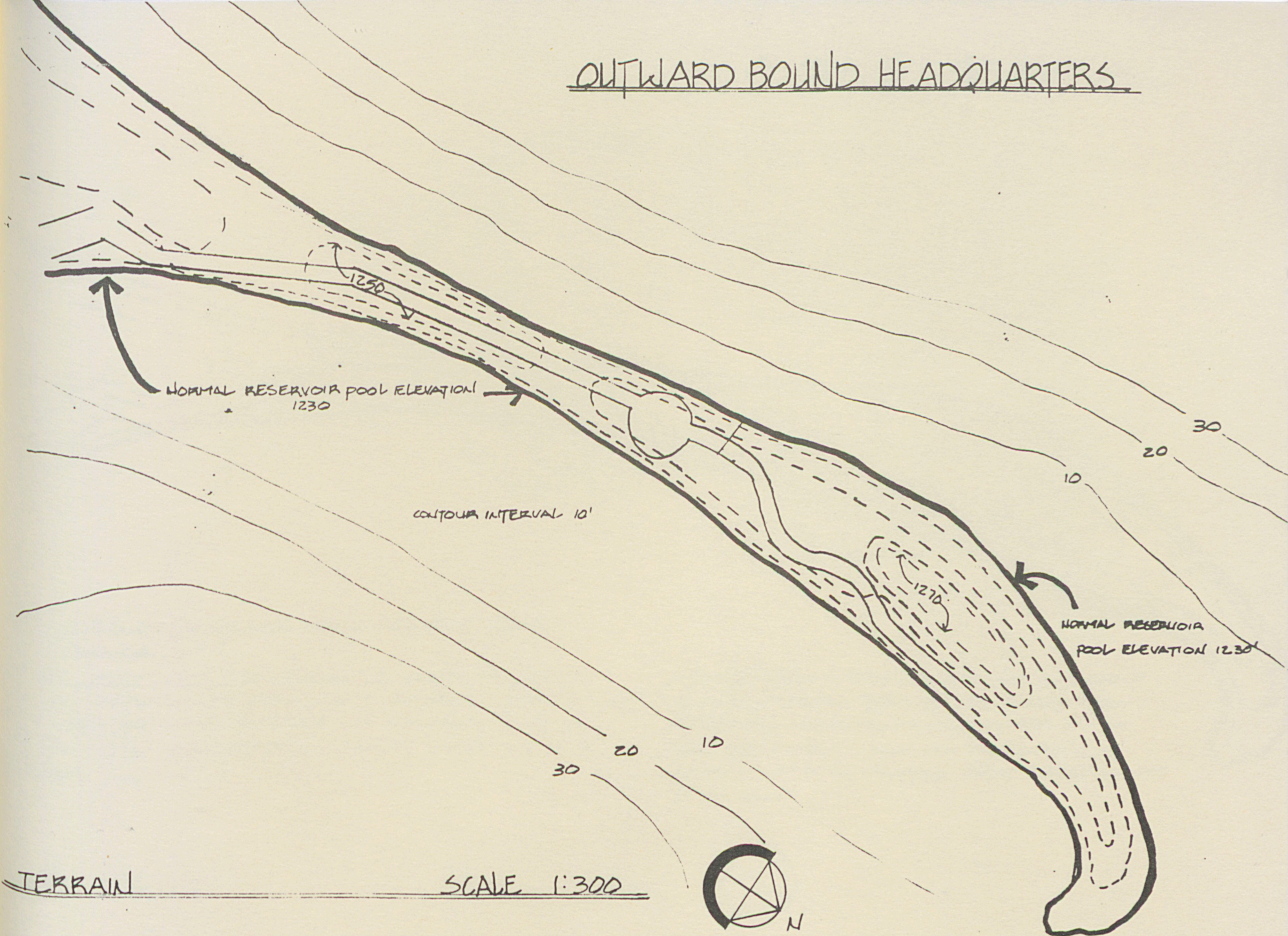
ROAD ENDS IN
LONG GRASS

EXISTING ROAD ACCESS

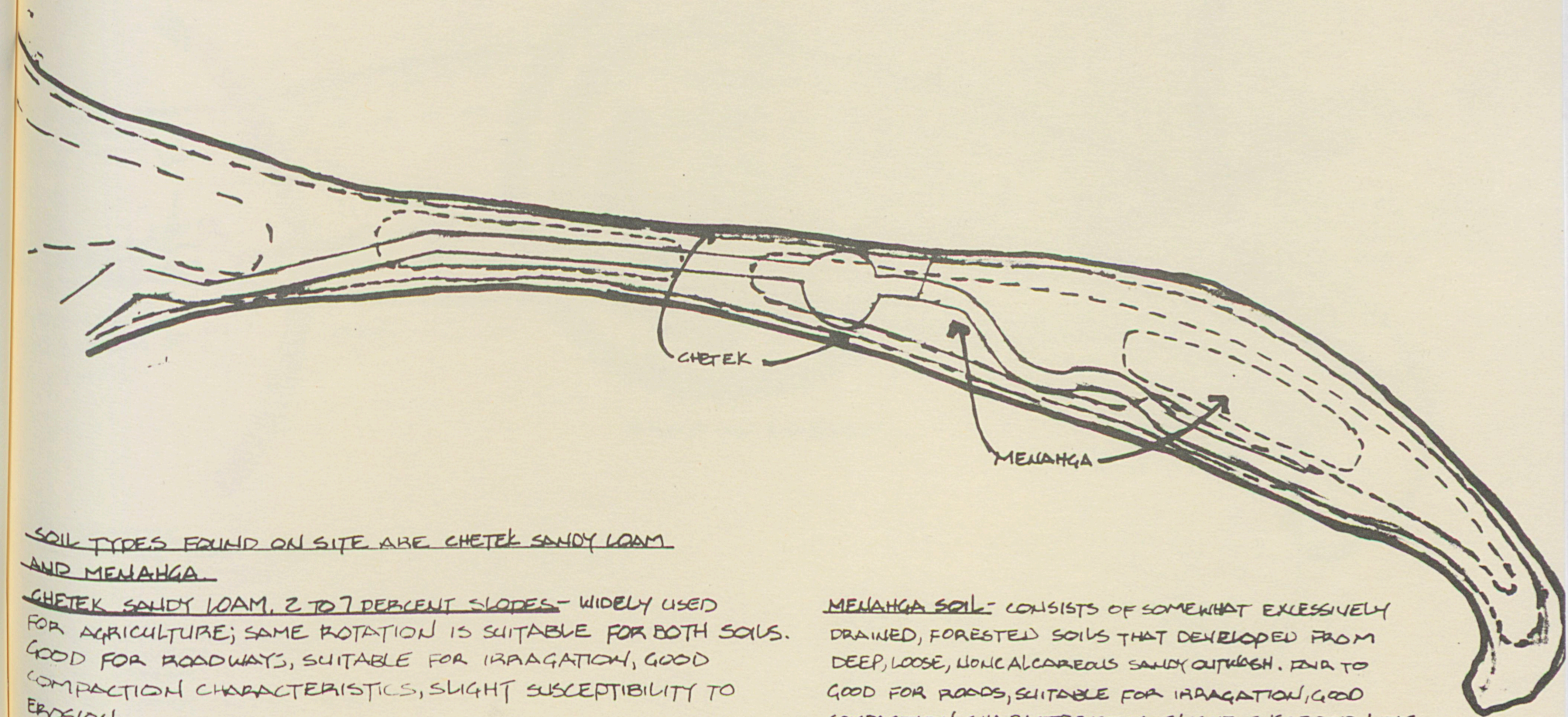
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OUTWARD BOUND HEADQUARTERS



OUTWARD BOUND HEADQUARTERS



SOIL TYPES FOUND ON SITE ARE CHETEK SANDY LOAM
AND MENAHGA.

CHETEK SANDY LOAM, 2 TO 7 PERCENT SLOPES - WIDELY USED
FOR AGRICULTURE; SAME ROTATION IS SUITABLE FOR BOTH SOILS.
GOOD FOR ROADWAYS, SUITABLE FOR IRRIGATION, GOOD
COMPACTION CHARACTERISTICS, SLIGHT SUSCEPTIBILITY TO
EROSION.

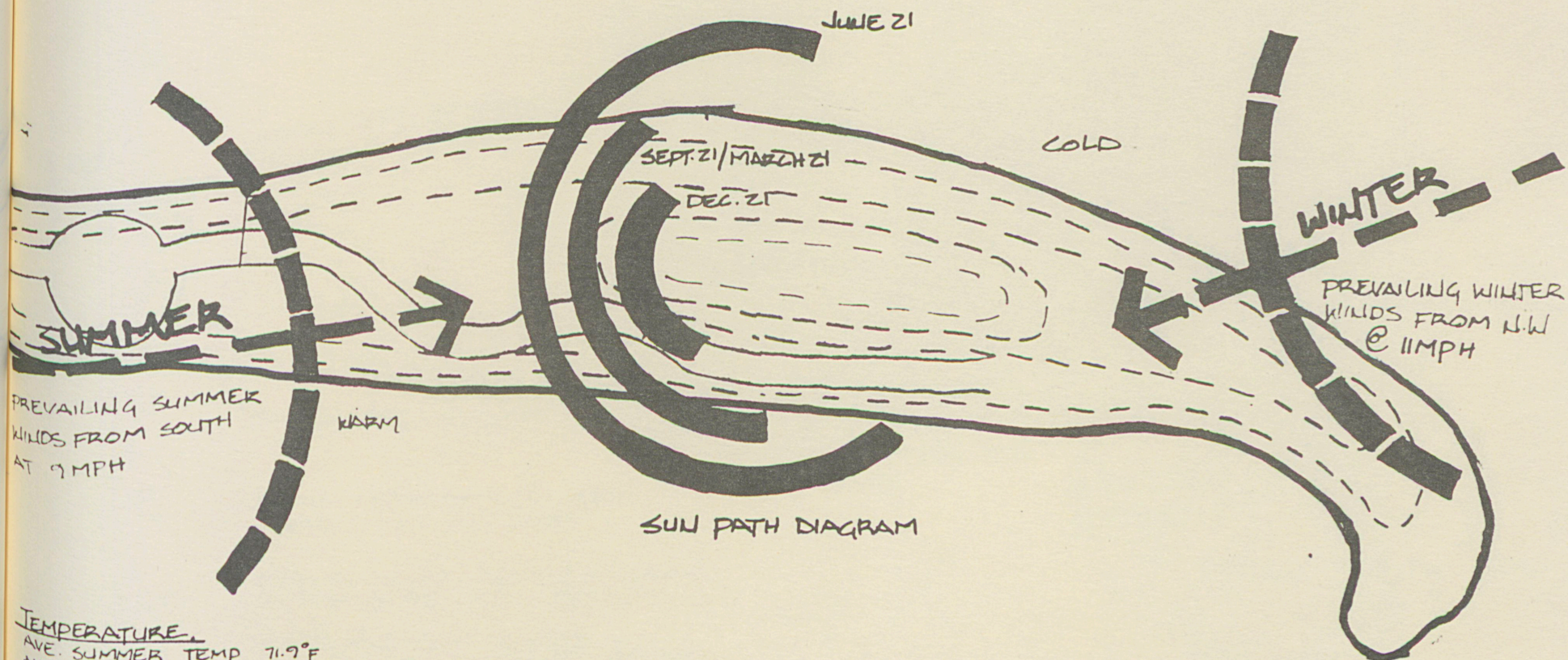
MENAHGA SOIL - CONSISTS OF SOMEWHAT EXCESSIVELY
DRAINED, FORESTED SOILS THAT DEVELOPED FROM
DEEP, LOOSE, NONCALCAREOUS SANDY OUTWASH. FINE TO
GOOD FOR ROADS, SUITABLE FOR IRRIGATION, GOOD
COMPACTION CHARACTERISTICS, SLIGHT SUSCEPTIBILITY
TO EROSION.

SOIL ANALYSIS

SCALE 1:300



OUTWARD BOUND HEADQUARTERS



TEMPERATURE
 AVE. SUMMER TEMP 71.9°F
 AVE. WINTER TEMP 12.2°F

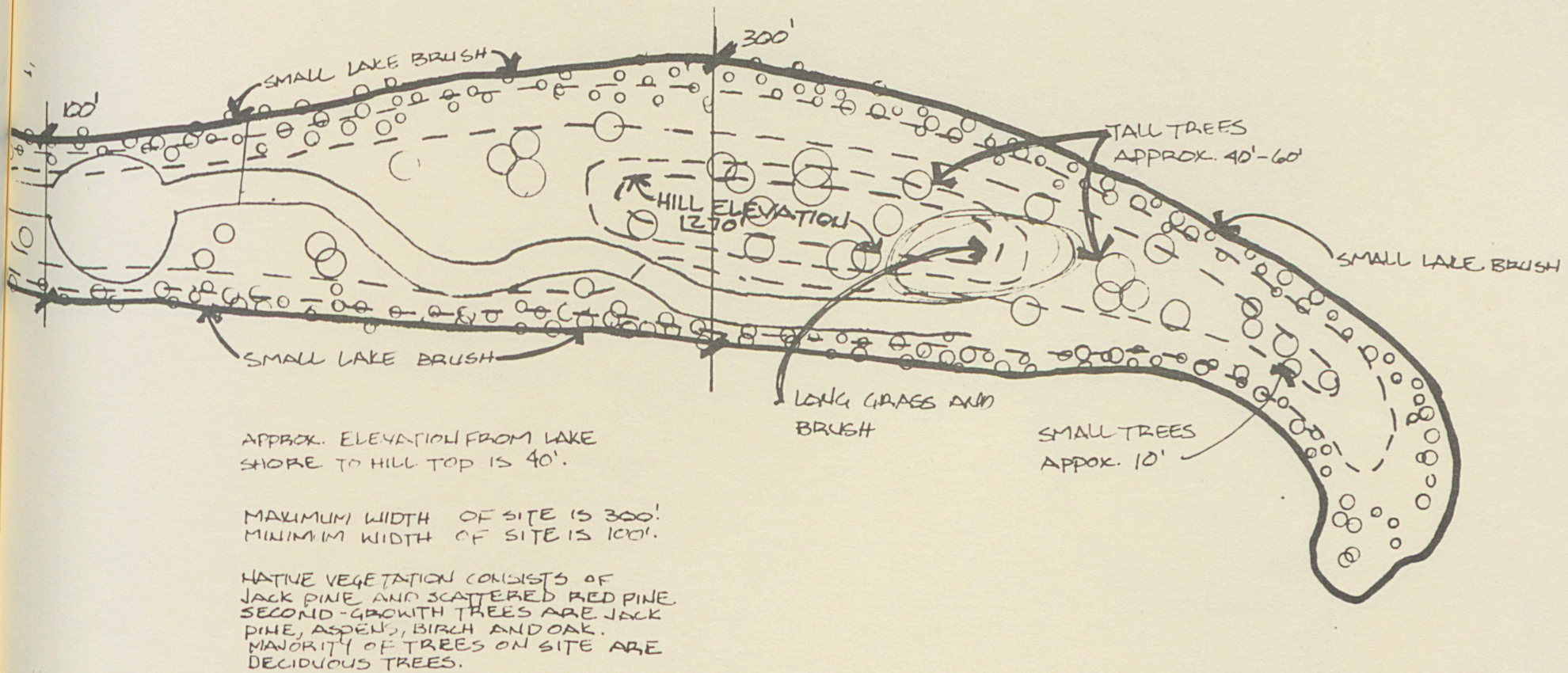
PRECIPITATION
 ANNUAL RAINFALL 25.9"
 ANNUAL SNOWFALL 48.3"
 AVE. LAST SPRING FREEZE APRIL 30
 AVE. FIRST FALL FREEZE OCTOBER 13

MICRO CLIMATE

SCALE 1:150

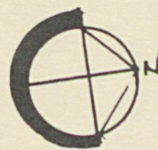


OUTWARD BOUND HEADQUARTERS

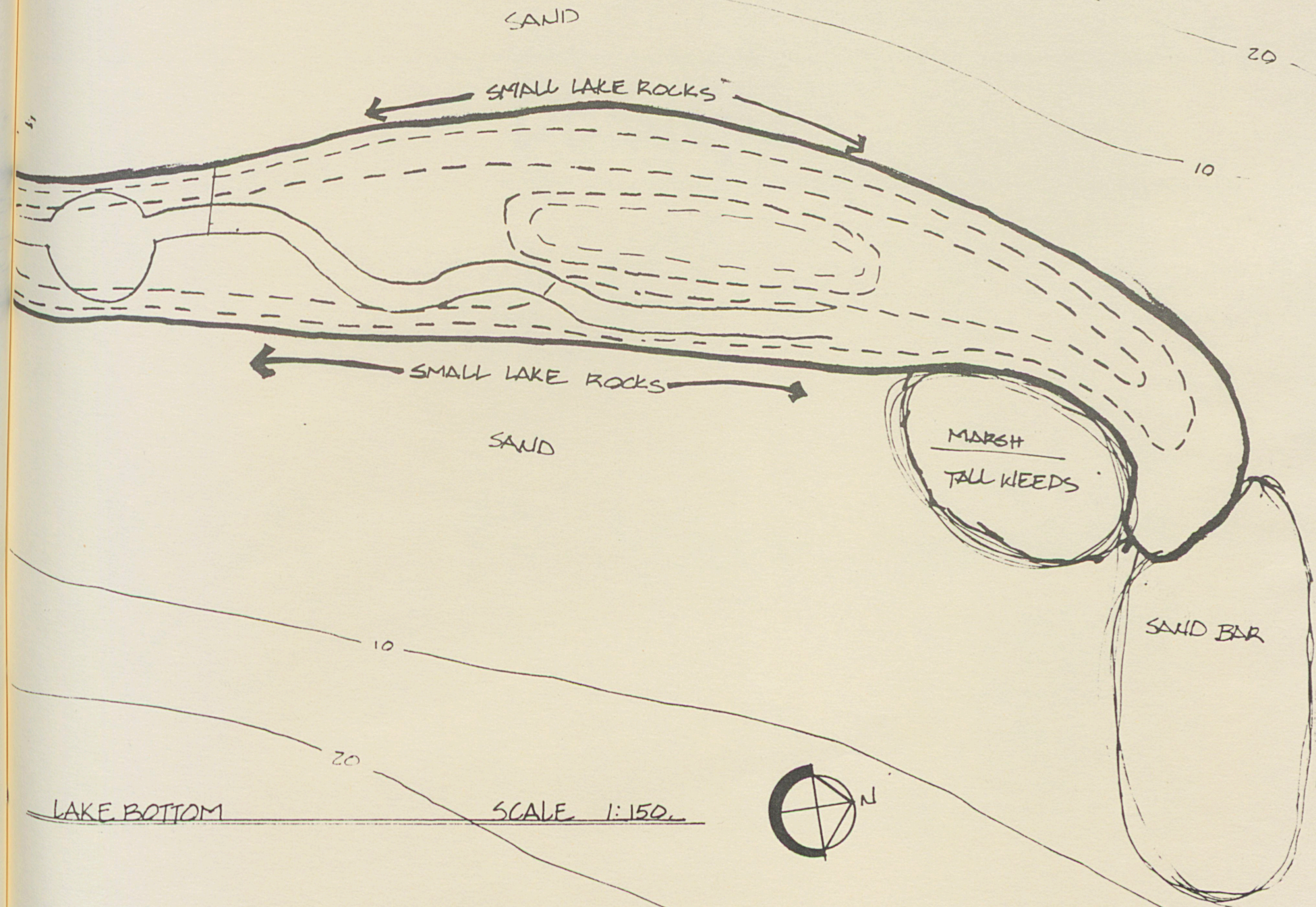


SITE FEATURES

SCALE 1:150

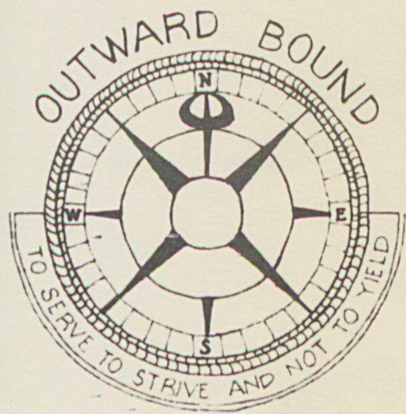


OUTWARD BOUND HEADQUARTERS

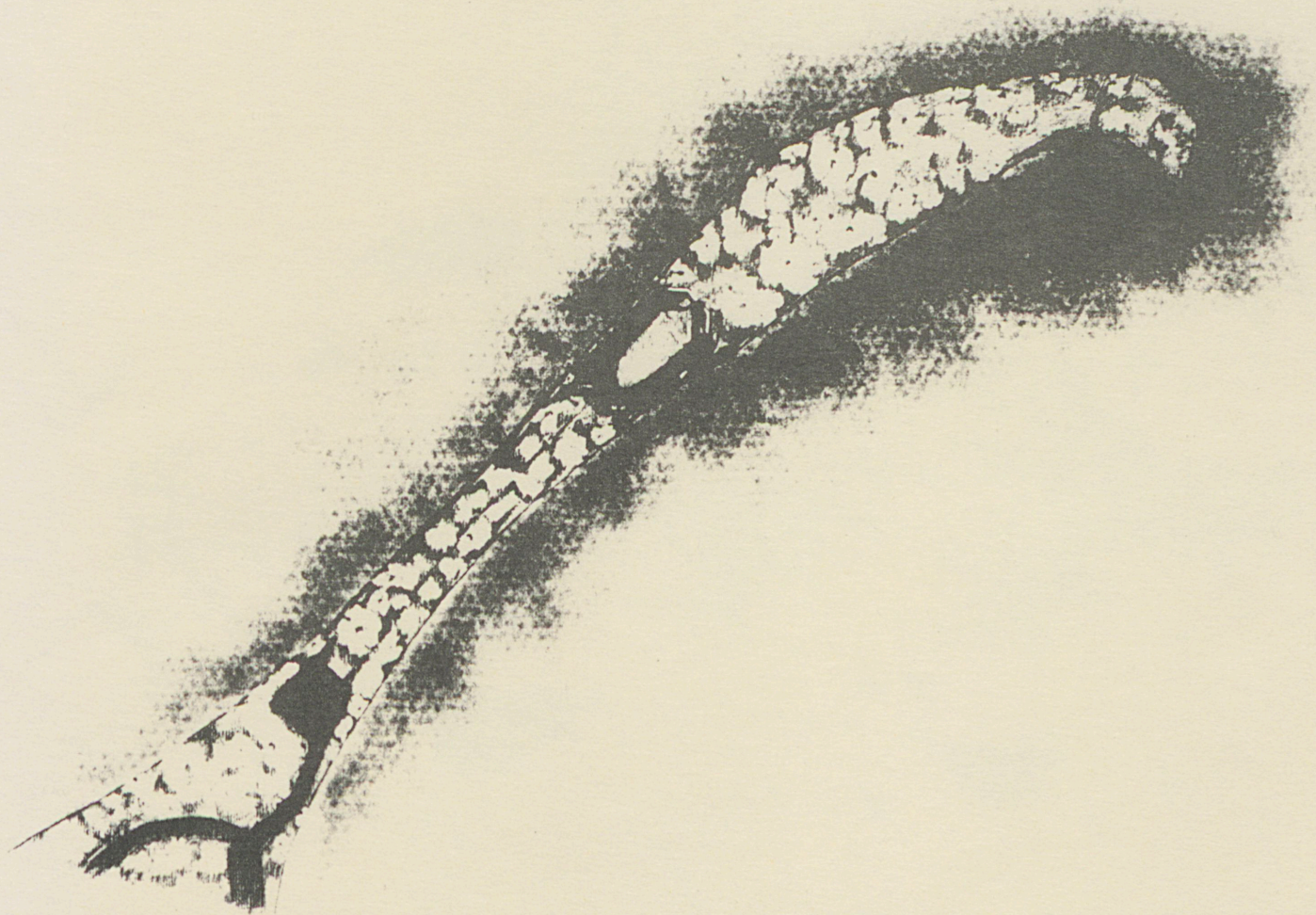


DESIGN

OUTWARD BOUND REGIONAL HEADQUARTERS



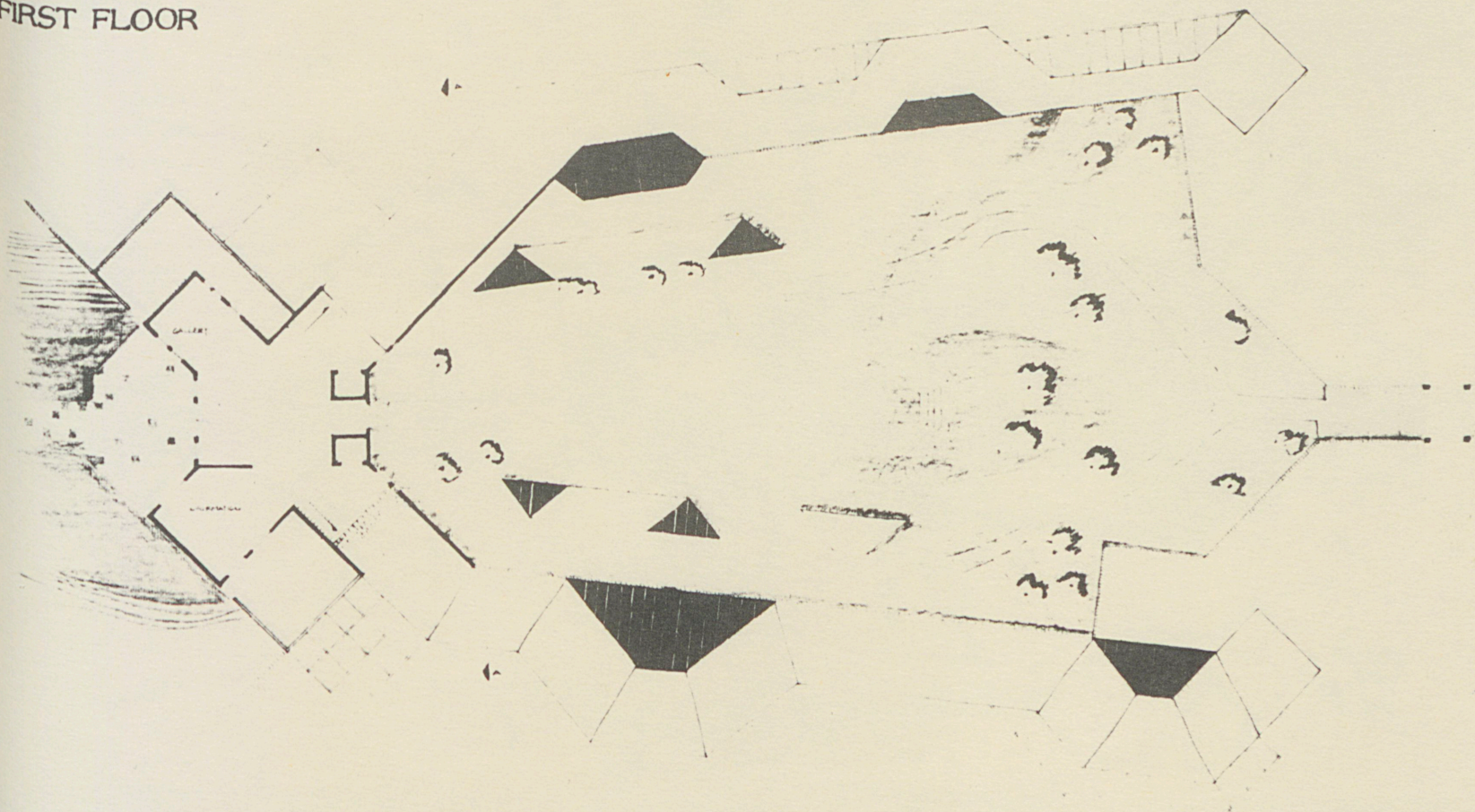
SITE PLAN



SCALE 1:100



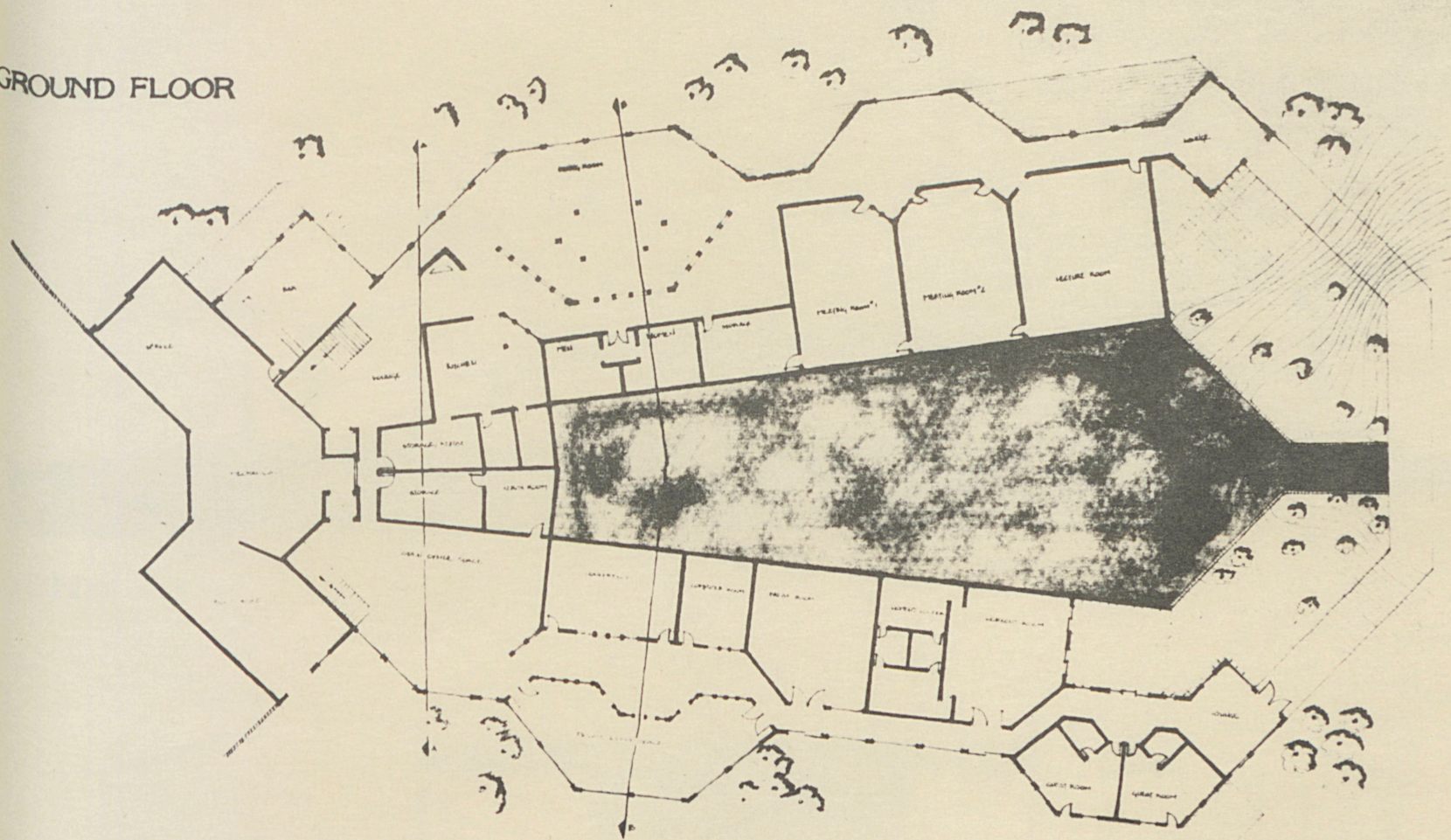
FIRST FLOOR



SCALE 1:10



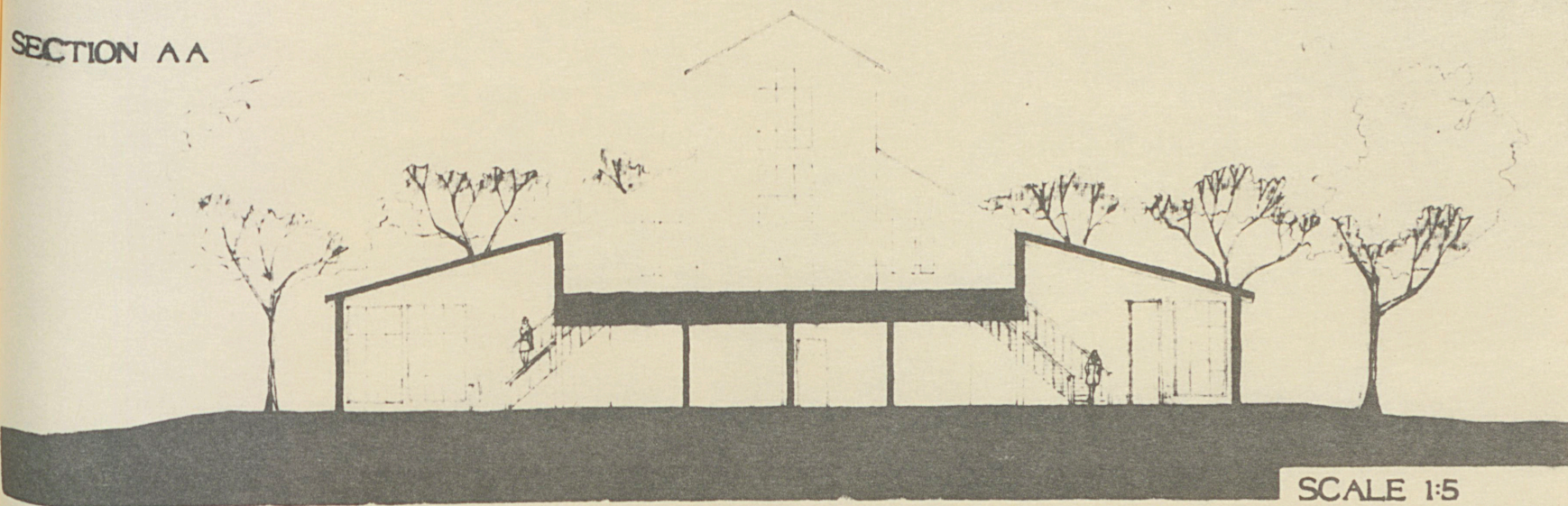
GROUND FLOOR



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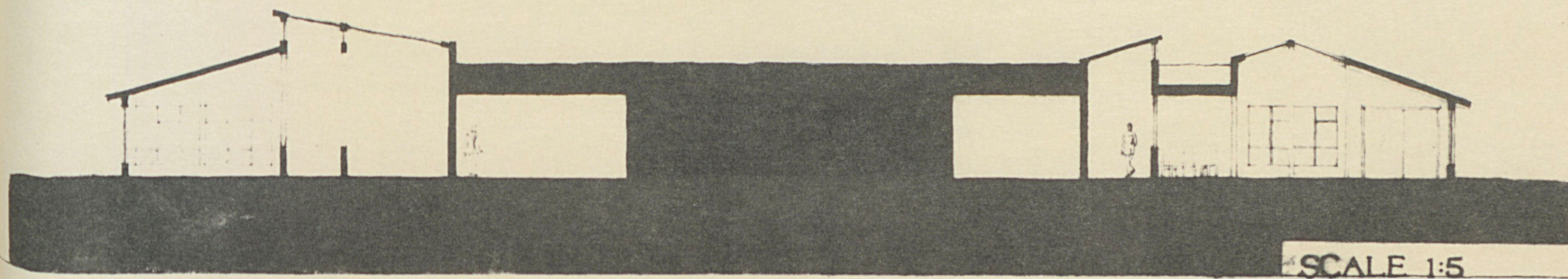


SECTION AA



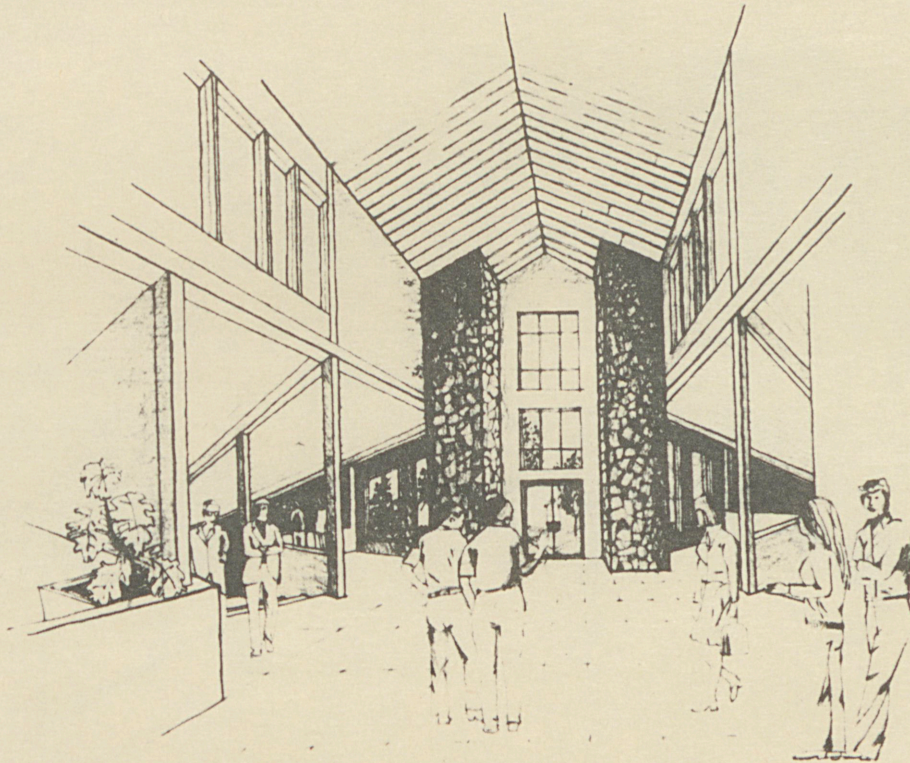
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SECTION BB

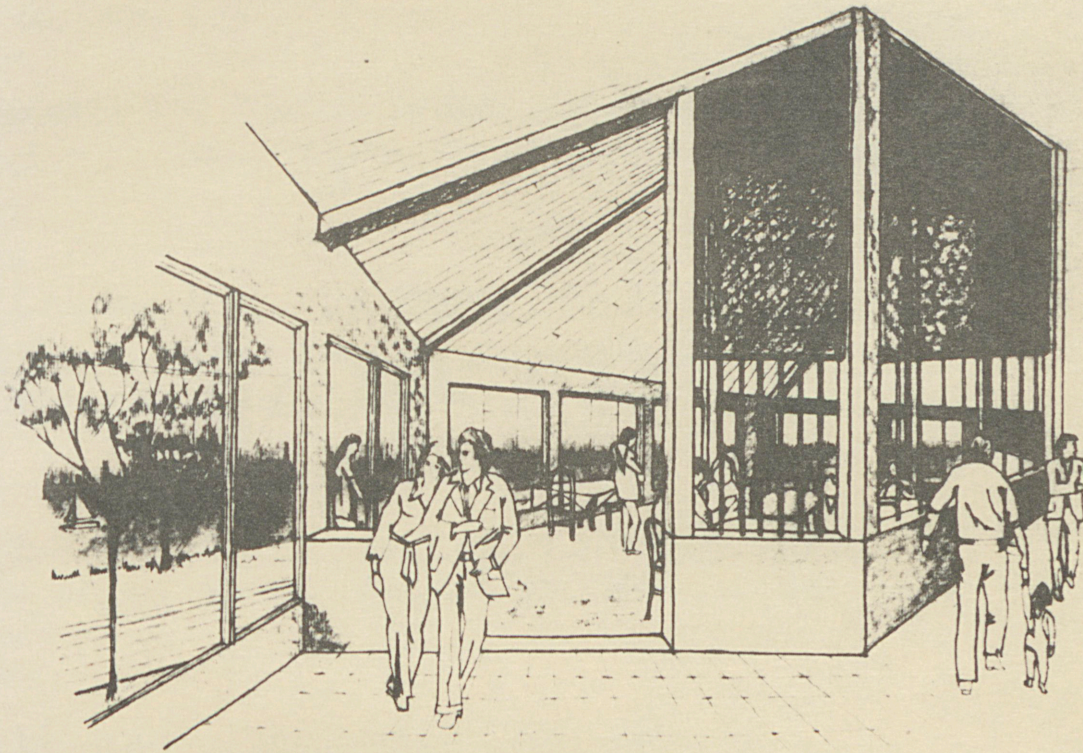


SCALE 1:5

ENTRY



RESTAURANT



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