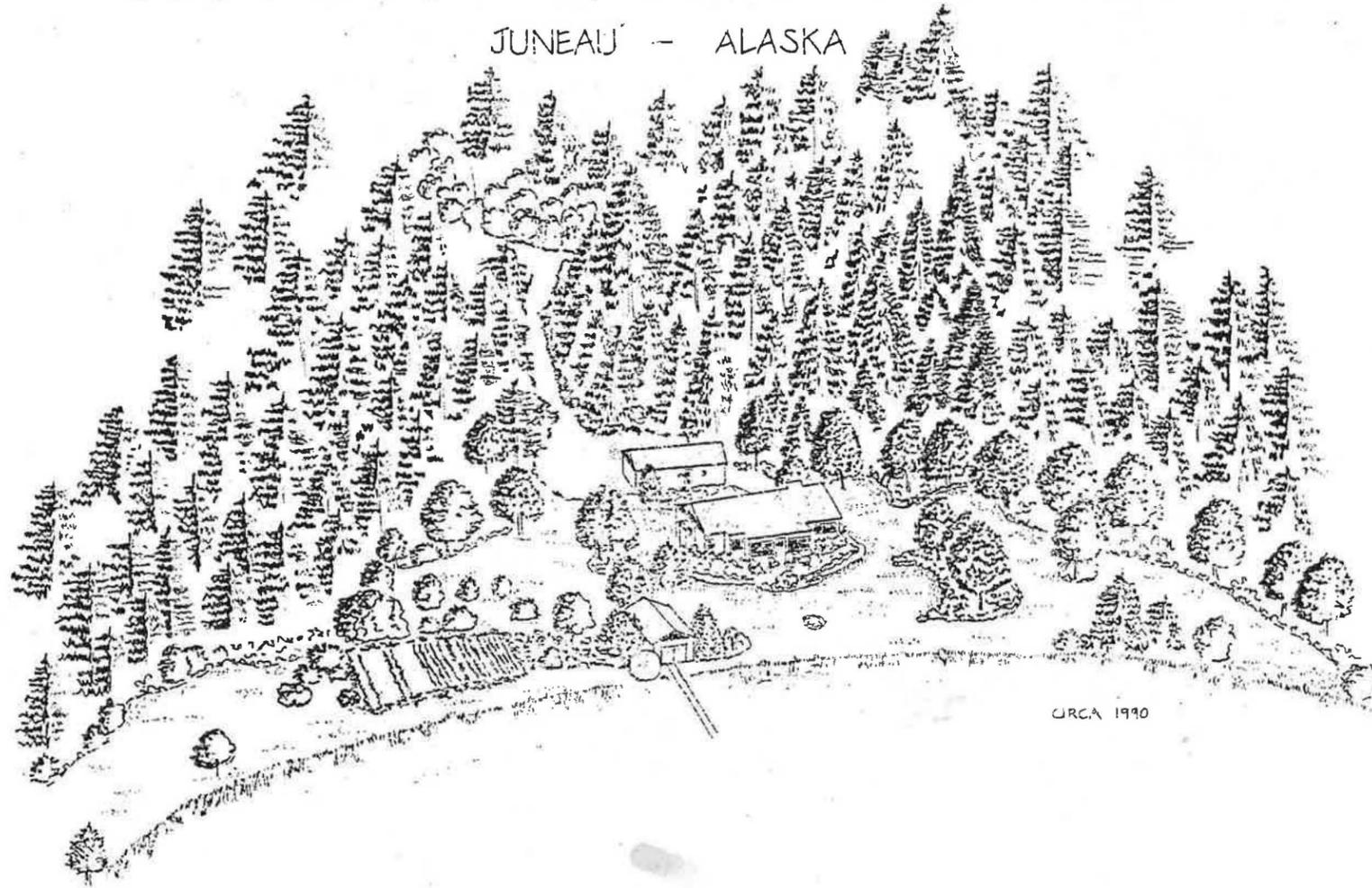


LANDSCAPE DESIGN MASTER PLAN

JENSEN - OLSON ARBORETUM

JUNEAU - ALASKA



CIRCA 1990

PREPARED BY
J. L. SHERBURNE LANDSCAPE DESIGNS
JUNEAU - ALASKA
JUNE 2001

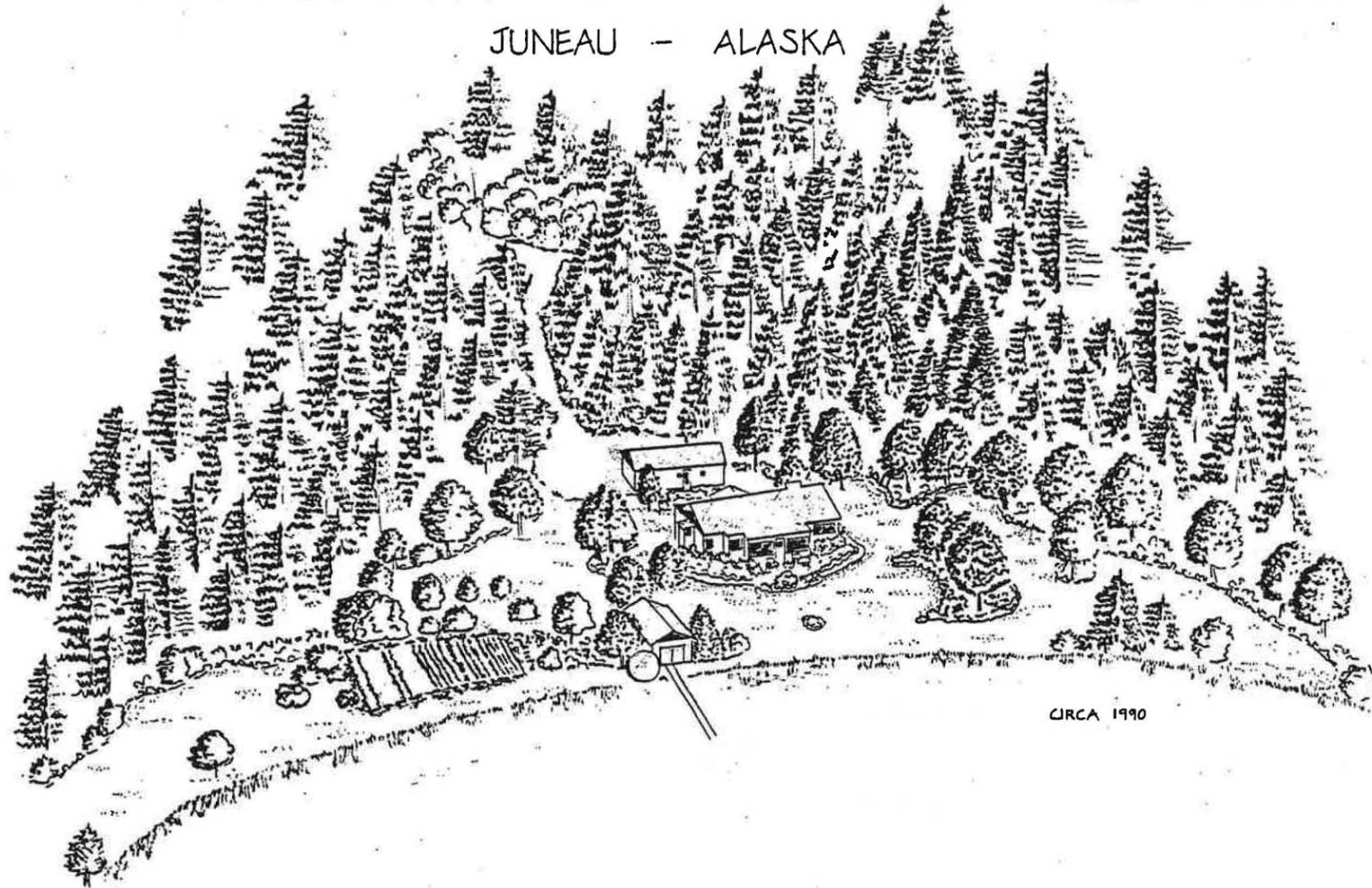
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• INTRODUCTION •

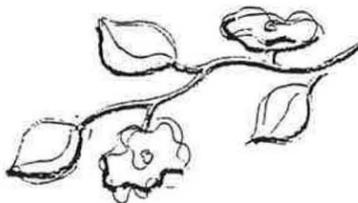
THE CAROLINE JENSEN PROPERTY LIES ABOVE A CURVED, ROCKY BEACH WITH DIRECT SUNLIGHT FROM THE SOUTH — AN INTERSECTION OF LAND AND SEA THAT OFFERS A PRODUCTIVE GARDEN ENVIRONMENT. THE LAND IS BRIGHT AND INVITING WITH GENEROUS VIEWS ALONG THE GRACEFUL LINES OF GARDEN BORDERS. THE SPRUCE-HEMLOCK FOREST FORMS A BACKDROP THAT HOLDS SUMMER WARMTH AND PROTECTS AGAINST NORTH WINTER WINDS. THE SITE HAS A DYNAMIC LANDSCAPE CHARACTER AND A STRONG SENSE OF PLACE.

HUMAN HISTORY ON THIS SITE HAS BECOME AN IMPORTANT PART OF THE NATURAL HISTORY. LAND DEVELOPMENT BEGAN WITH THE PETERSONS, FOLLOWED BY THE OLSONS, AND THE JENSENS. THE VEGETABLE GARDEN HAS BEEN A CENTERPIECE AS THE SCANT SOIL WAS WORKED TO BECOME DEEP AND FERTILE. IT SUPPLIED JUNEAU GROCERS WITH PRODUCE IN THE EARLY 1900'S AND CONTINUES TO BE A PRODUCTIVE HOME PRODUCE GARDEN. OVER THE YEARS, THE FLOWER GARDENS HAVE BEEN EXPANDED TO MAKE ONE OF THE PREMIER HOME GARDENS IN ALASKA. ONE DAY THIS LAND WILL BECOME THE JENSEN-OLSON ARBORETUM.

THE MASTER PLAN

THE MASTER PLAN IS A PACKAGE OF LANDSCAPE DESIGN GOALS AND GRAPHICS THAT EMBODY THE JENSEN-OLSON ARBORETUM MISSION AND PROVIDE A FRAMEWORK FOR FUTURE DETAILED SITE PLANS. IT INCLUDES A VISION STATEMENT, SITE SURVEY, SITE ASSESSMENT, AND THE PROGRAM OF DESIGN ELEMENTS. THE MASTER PLAN DOES NOT INCLUDE STRATEGIC PLANNING, GARDEN INSTALLATION, MANAGEMENT, FUNDING OR BUDGET STRUCTURE, STAFFING, OR MAINTENANCE PLANS.

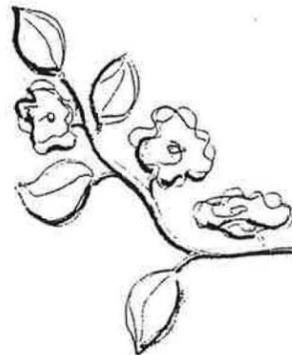
THE DESIGN ELEMENTS WERE DERIVED FROM THE SITE SURVEY AND ENVIRONMENTAL ASSESSMENT, AND OVERLAIN WITH CAROLINE JENSEN'S VISION OF THE ARBORETUM. GARDEN FEATURES INCLUDE A MAIN ENTRANCE AND ORIENTATION PATIO, OUTDOOR CLASSROOM, VISITOR CENTER, COVERED VIEWING AREA, SMALL-EVENT SPACE, TRAILS, AND, MOST IMPORTANT, THE HORTICULTURAL COLLECTION OF HISTORICAL, DISPLAY, AND EXPERIMENTAL GARDENS. NON-PUBLIC FACILITIES INCLUDE WORK AREAS AND A PLANT PROPAGATION ROOM OUT OF PUBLIC VIEW.



VISION STATEMENT

THE VISION OF THE ARBORETUM IS TO PROVIDE THE PEOPLE OF JUNEAU A PLACE THAT BOTH TEACHES AND INSPIRES LEARNING IN HORTICULTURE, NATURAL SCIENCES, AND LANDSCAPING ... TO PRESERVE THE BEAUTY OF THE LANDSCAPE FOR PURE AESTHETIC ENJOYMENT... TO MAINTAIN THE HISTORICAL AND CULTURAL CONTEXT OF THE PLACE AND ITS PEOPLE.

CAROLINE JENSEN



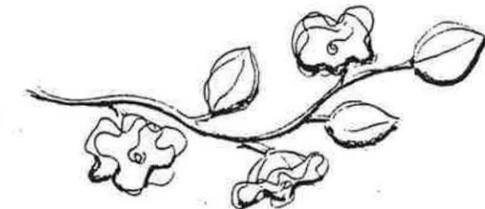
DESIGN CONCEPTS

THE DESIGN TRANSITIONS THE LANDSCAPE FROM A PRIVATE RESIDENCE TO A PUBLIC GARDEN IN A WAY THAT CAPTURES PUBLIC INTEREST AND SUPPORT AS A PLACE OF EXPLORATION, DISCOVERY, AND LEARNING. THE DESIGN PLAN STYLE IS CONSISTENT WITH THE EXISTING TENOR AND THEME OF THE GARDEN GROUNDS TO MAINTAIN INTEGRITY AND COHERENCE. PATHWAYS AND POINTS OF INTEREST PROVIDE A SENSE OF DIRECTION, INVITING VISITORS THROUGH CHANGING LANDSCAPES AND A VARIETY OF GARDEN EXPERIENCES.

THE DESIGN PLAN SEEKS TO PRESERVE THE HORTICULTURAL AND HISTORICAL VALUES WHILE ACCOMMODATING FUTURE MODEST GROWTH AS AN ARBORETUM. AN ARBORETUM IS NOT A PARK, BUT AN OUTDOOR CLASSROOM, A PUBLIC PLACE OF LEARNING. TEACHING AND LEARNING REFLECT THE VALUES OF THE PEOPLE WHO HAVE LIVED ON THIS LAND, AND THE DESIGN FEATURES HELP PASS ON THE LEGACY BY CREATING EDUCATIONAL OPPORTUNITIES IN THE GARDEN SCIENCES. THIS IS A GIFT FROM CAROLINE JENSEN TO THE CITY AND BOROUGH OF JUNEAU (CBS) FOR THE PEOPLE OF JUNEAU.

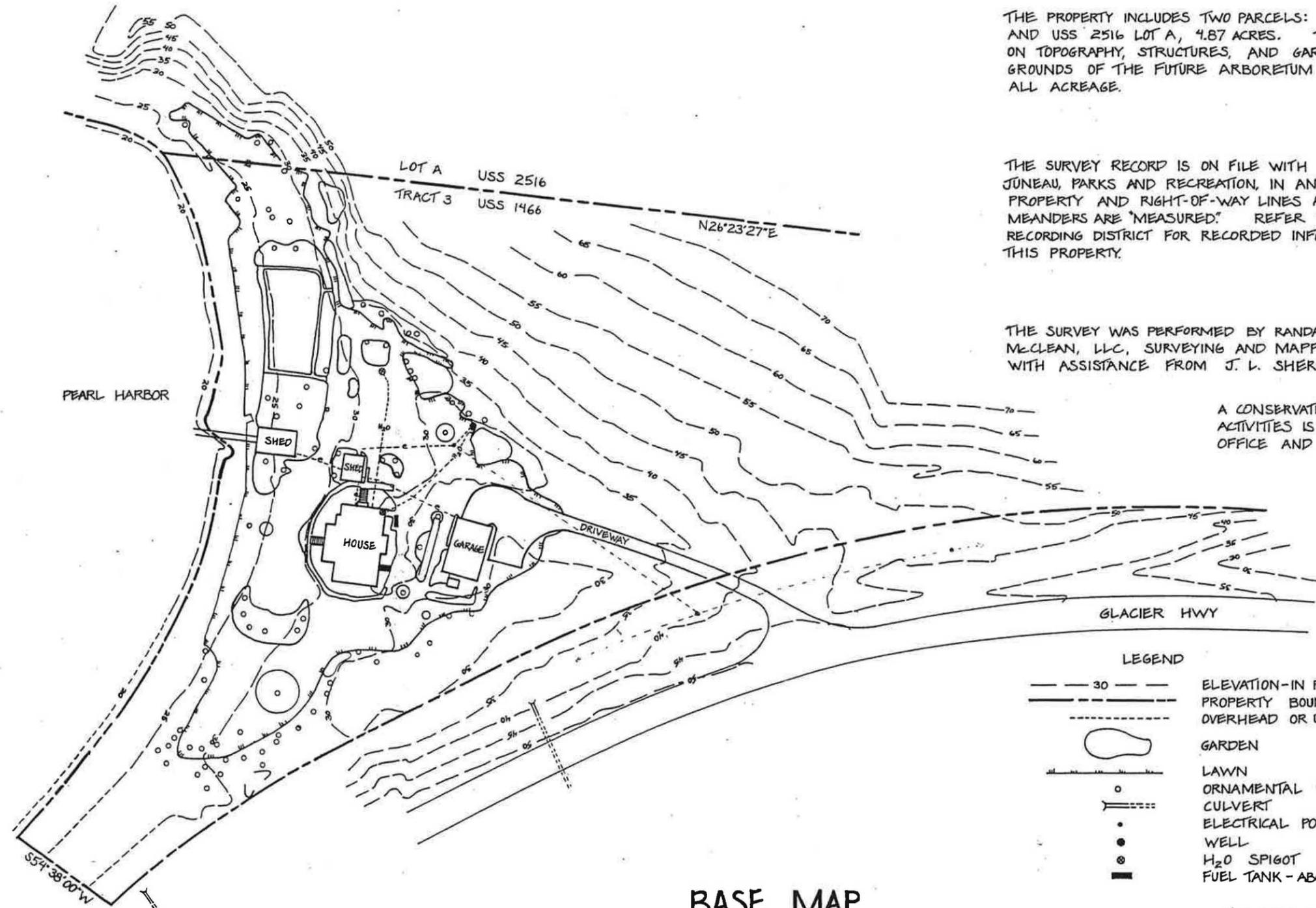
DESIGN IMPLEMENTATION

IMPLEMENTATION OF THE JENSEN-OLSON ARBORETUM DESIGN PLAN, AND ARBORETUM MANAGEMENT AND ADMINISTRATION, WILL BE DIRECTED BY THE CBS PARKS AND RECREATION. OTHER HUMAN RESOURCES COULD HAVE A VALUABLE IMPLEMENTATION ROLE, SUCH AS A BOARD OF DIRECTORS, VOLUNTEERS, GARDEN CLUBS, AND/OR FRIENDS OF THE ARBORETUM. LEGAL RESTRICTIONS AND GUIDELINES FOR ARBORETUM ACTIVITIES AND DEVELOPMENT ARE DOCUMENTED IN A CONSERVATION EASEMENT UNDER THE STEWARDSHIP OF THE SOUTHEAST ALASKA LAND TRUST. THE EASEMENT PROTECTS THE VALUES AND QUALITIES OF THE PROPERTY WHILE ALLOWING LIGHT VISITATION BY THE PEOPLE OF JUNEAU, INCLUDING SMALL NON-PROFIT GROUPS. SUPPORTED BY AN ENDOWMENT, THE ARBORETUM IS NOT A COMMERCIAL VENTURE OR LARGE-SCALE TOURIST DESTINATION. THE ARBORETUM LANDSCAPE DESIGN FRAMEWORK LIES WITHIN THE MASTER PLAN AND THE CHALLENGE AND EXCITEMENT OF IMPLEMENTATION LIES AHEAD.



INTRODUCTION JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS
JUNEAU, ALASKA
JUNE 2001



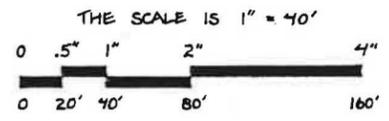
THE PROPERTY INCLUDES TWO PARCELS: USS 1466 TRACT 3, 9.10 ACRES, AND USS 2516 LOT A, 4.87 ACRES. THE SURVEY AREA FOCUSED ON TOPOGRAPHY, STRUCTURES, AND GARDENS WITHIN THE MAIN GROUNDS OF THE FUTURE ARBORETUM AND DID NOT INCLUDE ALL ACREAGE.

THE SURVEY RECORD IS ON FILE WITH CITY AND BOROUGH OF JUNEAU, PARKS AND RECREATION, IN AN ELECTRONIC FORMAT. PROPERTY AND RIGHT-OF-WAY LINES ARE "RECORD" AND MEANDERS ARE "MEASURED." REFER TO PLAT 85-25 JUNEAU RECORDING DISTRICT FOR RECORDED INFORMATION REGARDING THIS PROPERTY.

THE SURVEY WAS PERFORMED BY RANDALL DAVIS OF DAVIS AND McCLEAN, LLC, SURVEYING AND MAPPING, JUNEAU, ALASKA, WITH ASSISTANCE FROM J. L. SHERBURNE.

A CONSERVATION EASEMENT GOVERNING LAND USE ACTIVITIES IS ON FILE WITH THE CBJ LANDS OFFICE AND THE SOUTHEAST ALASKA LAND TRUST.

- LEGEND**
- 30 --- ELEVATION-IN FEET
 - PROPERTY BOUNDARY
 - OVERHEAD OR UNDERGROUND UTILITIES
 - GARDEN
 - LAWN
 - ORNAMENTAL TREE
 - CULVERT
 - ELECTRICAL POWER POLE
 - WELL
 - H₂O SPIGOT
 - FUEL TANK - ABOVE OR BELOW GROUND



BASE MAP
JENSEN-OLSON ARBORETUM
 J. L. SHERBURNE LANDSCAPE DESIGNS
 JUNEAU, ALASKA
 JUNE 2001



COASTAL TRAIL NORTH TO AMALGA HARBOR

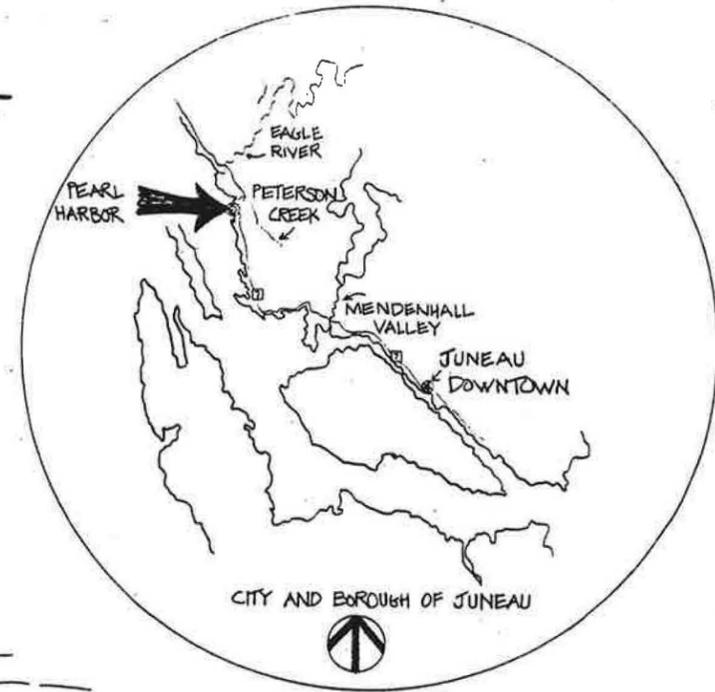
IN 1900, A ROAD WAS BUILT TO CONNECT PETERSON CREEK MINE TO PEARL HARBOR WHERE THE PETERSON FAMILY RESIDED.

MARGARET AND IRMA, THE PETERSON SISTERS, GAINED REPUTATIONS AS SKILLED AND SUCCESSFUL MINERS WORKING THE GOLD MINE INDEPENDENTLY FROM 1913 TO 1925.

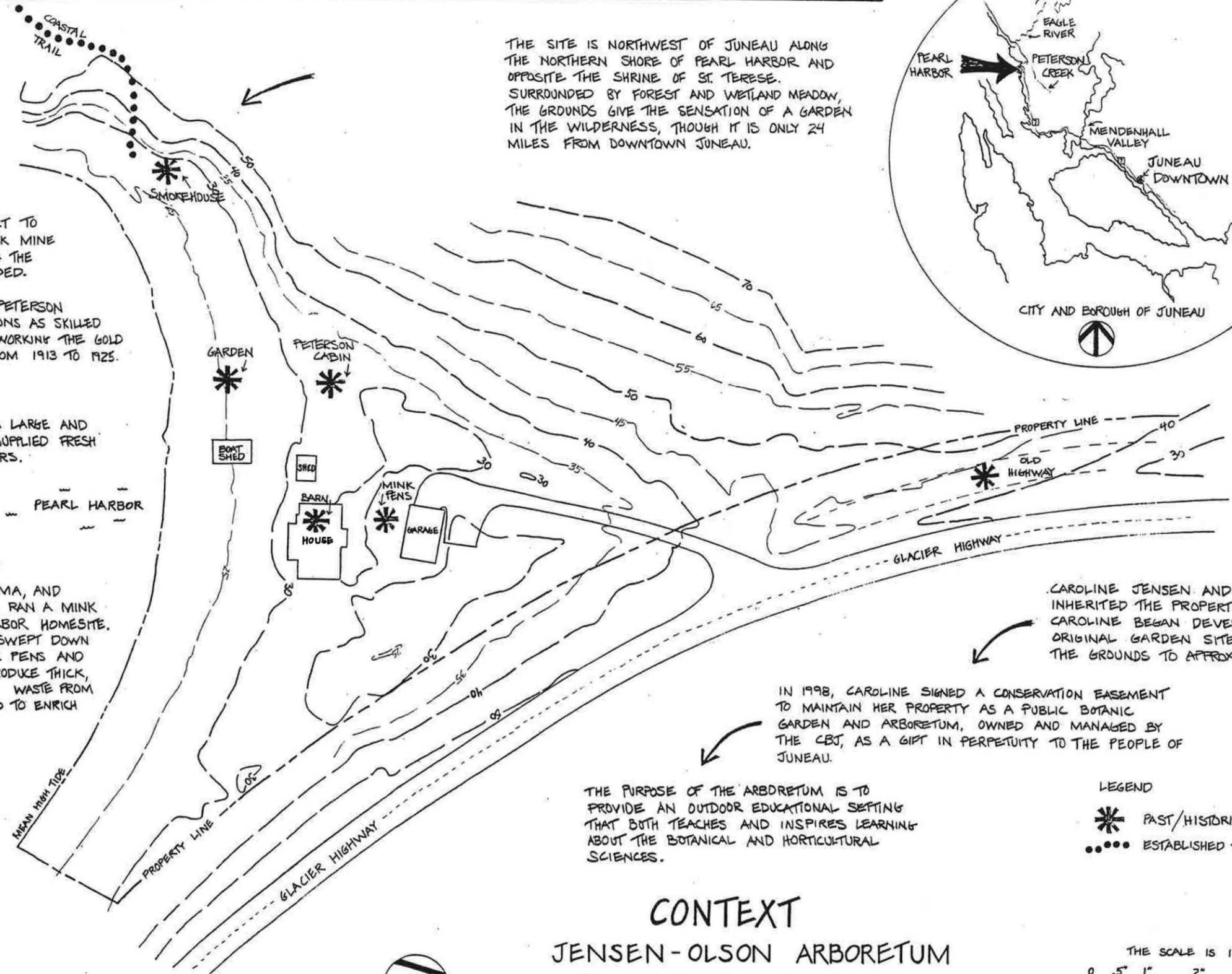
THE FAMILY DEVELOPED A LARGE AND PRODUCTIVE GARDEN THAT SUPPLIED FRESH PRODUCE TO JUNEAU GROCERS.

THE PETERSON SISTER, IRMA, AND HUSBAND, CHARLES OLSON, RAN A MINK FARM AT THE PEARL HARBOR HOMESITE. THE COLD NORTH WINDS SWEEP DOWN THEIR ROAD TO THE MINK PENS AND CAUSED THE MINK TO PRODUCE THICK, COMMERCIAL-GRADE FUR. WASTE FROM THE MINK PENS WAS USED TO ENRICH THE GARDEN SOIL.

THE SITE IS NORTHWEST OF JUNEAU ALONG THE NORTHERN SHORE OF PEARL HARBOR AND OPPOSITE THE SHRINE OF ST. TERESE. SURROUNDED BY FOREST AND WETLAND MEADOW, THE GROUNDS GIVE THE SENSATION OF A GARDEN IN THE WILDERNESS, THOUGH IT IS ONLY 24 MILES FROM DOWNTOWN JUNEAU.



PETERSON CREEK .2 MILE



CAROLINE JENSEN AND HUSBAND, CARL JENSEN, INHERITED THE PROPERTY IN 1962 AND SOON CAROLINE BEGAN DEVELOPING OUT FROM THE ORIGINAL GARDEN SITE WITH BEDS THAT EXPANDED THE GROUNDS TO APPROX 1.5 ACRES WITHIN THE 14 ACRES.

IN 1998, CAROLINE SIGNED A CONSERVATION EASEMENT TO MAINTAIN HER PROPERTY AS A PUBLIC BOTANIC GARDEN AND ARBORETUM, OWNED AND MANAGED BY THE CBJ, AS A GIFT IN PERPETUITY TO THE PEOPLE OF JUNEAU.

THE PURPOSE OF THE ARBORETUM IS TO PROVIDE AN OUTDOOR EDUCATIONAL SETTING THAT BOTH TEACHES AND INSPIRES LEARNING ABOUT THE BOTANICAL AND HORTICULTURAL SCIENCES.

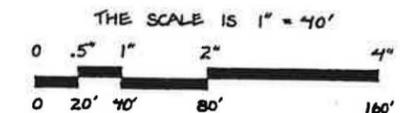
LEGEND

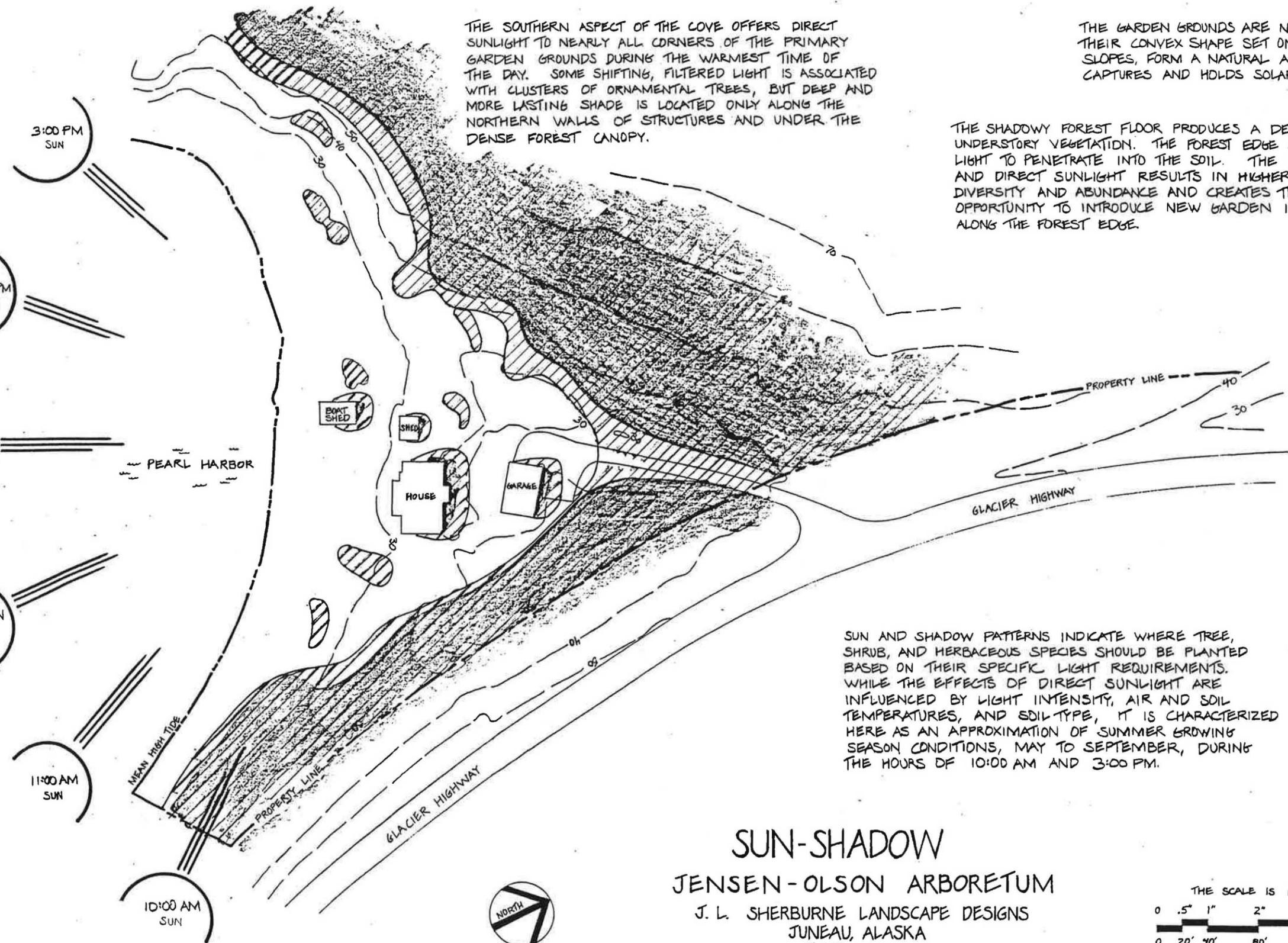
- PAST/HISTORICAL FEATURE
- ESTABLISHED TRAIL

CONTEXT

JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS
JUNEAU, ALASKA
JUNE 2001





THE SOUTHERN ASPECT OF THE COVE OFFERS DIRECT SUNLIGHT TO NEARLY ALL CORNERS OF THE PRIMARY GARDEN GROUNDS DURING THE WARMEST TIME OF THE DAY. SOME SHIFTING, FILTERED LIGHT IS ASSOCIATED WITH CLUSTERS OF ORNAMENTAL TREES, BUT DEEP AND MORE LASTING SHADE IS LOCATED ONLY ALONG THE NORTHERN WALLS OF STRUCTURES AND UNDER THE DENSE FOREST CANOPY.

THE GARDEN GROUNDS ARE NOT ONLY SUNNY, BUT THEIR CONVEX SHAPE SET ON GENTLE SOUTH-FACING SLOPES, FORM A NATURAL AMPHITHEATER WHICH CAPTURES AND HOLDS SOLAR HEAT.

THE SHADY FOREST FLOOR PRODUCES A DEPAUPERATE UNDERSTORY VEGETATION. THE FOREST EDGE ALLOWS LIGHT TO PENETRATE INTO THE SOIL. THE WARMTH AND DIRECT SUNLIGHT RESULTS IN HIGHER PLANT DIVERSITY AND ABUNDANCE AND CREATES THE OPPORTUNITY TO INTRODUCE NEW GARDEN INTEREST ALONG THE FOREST EDGE.

DURING THE WINTER, THE NARROW DRIVEWAY REMAINS IN THE SHADOW OF THE FOREST AND THE SUN HAS LITTLE CHANCE TO WARM THE ROAD SURFACE AND, AS A RESULT, ICE CAN FORM OCCASIONALLY.

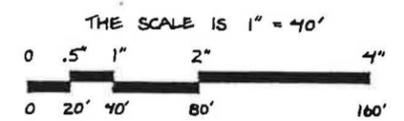
SUN AND SHADOW PATTERNS INDICATE WHERE TREE, SHRUB, AND HERBACEOUS SPECIES SHOULD BE PLANTED BASED ON THEIR SPECIFIC LIGHT REQUIREMENTS. WHILE THE EFFECTS OF DIRECT SUNLIGHT ARE INFLUENCED BY LIGHT INTENSITY, AIR AND SOIL TEMPERATURES, AND SOIL TYPE, IT IS CHARACTERIZED HERE AS AN APPROXIMATION OF SUMMER GROWING SEASON CONDITIONS, MAY TO SEPTEMBER, DURING THE HOURS OF 10:00 AM AND 3:00 PM.

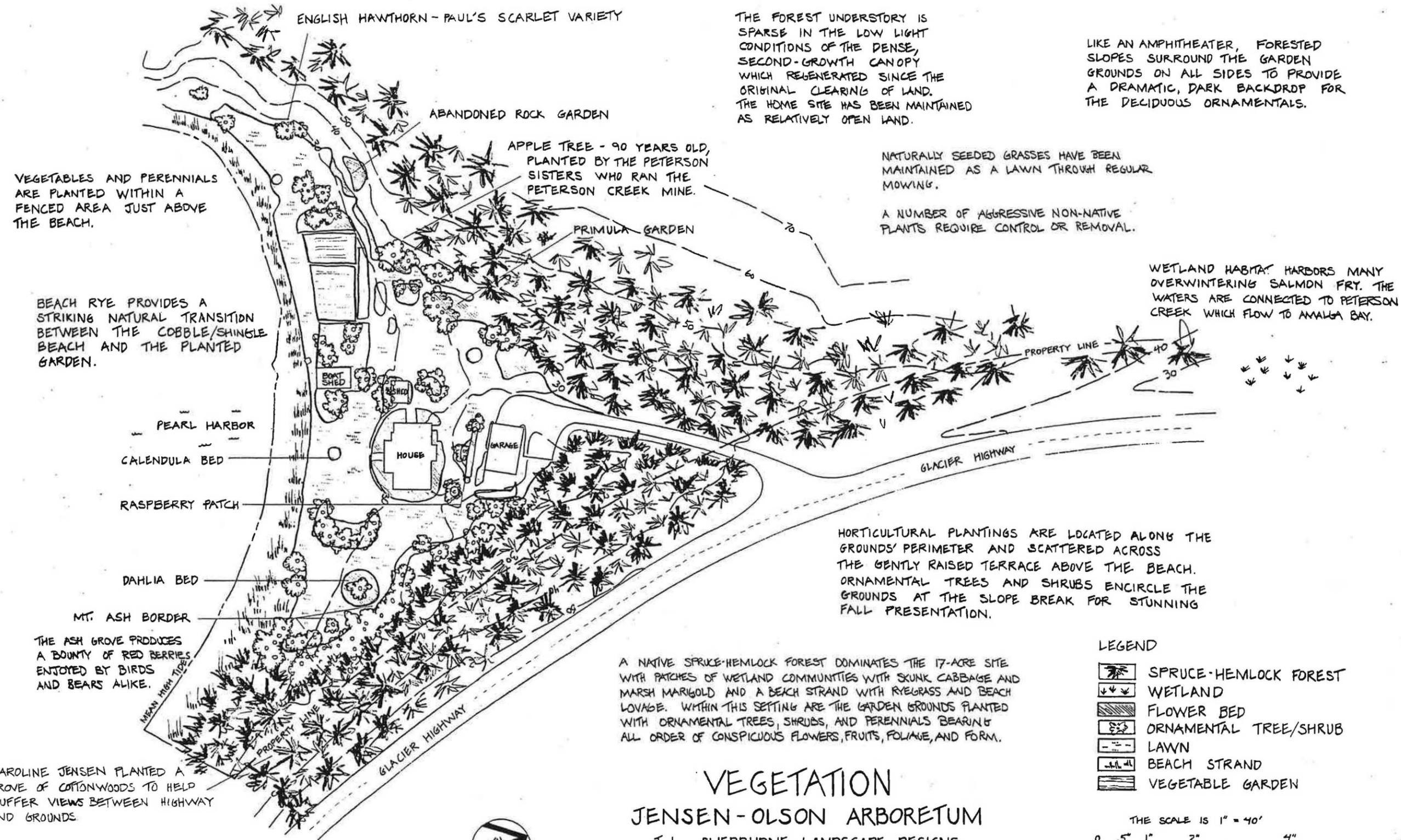
- LEGEND
- ☐ SUNNY
 - ▨ PARTIAL SUN
 - ▩ SHADY

SUN-SHADOW

JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS
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ENGLISH HAWTHORN - PAUL'S SCARLET VARIETY

THE FOREST UNDERSTORY IS SPARSE IN THE LOW LIGHT CONDITIONS OF THE DENSE, SECOND-GROWTH CANOPY WHICH REGENERATED SINCE THE ORIGINAL CLEARING OF LAND. THE HOME SITE HAS BEEN MAINTAINED AS RELATIVELY OPEN LAND.

LIKE AN AMPHITHEATER, FORESTED SLOPES SURROUND THE GARDEN GROUNDS ON ALL SIDES TO PROVIDE A DRAMATIC, DARK BACKDROP FOR THE DECIDUOUS ORNAMENTALS.

VEGETABLES AND PERENNIALS ARE PLANTED WITHIN A FENCED AREA JUST ABOVE THE BEACH.

ABANDONED ROCK GARDEN

APPLE TREE - 90 YEARS OLD, PLANTED BY THE PETERSON SISTERS WHO RAN THE PETERSON CREEK MINE.

NATURALLY SEEDING GRASSES HAVE BEEN MAINTAINED AS A LAWN THROUGH REGULAR MOWING.

PRIMULA GARDEN

A NUMBER OF AGGRESSIVE NON-NATIVE PLANTS REQUIRE CONTROL OR REMOVAL.

BEACH RYE PROVIDES A STRIKING NATURAL TRANSITION BETWEEN THE COBBLE/SHINGLE BEACH AND THE PLANTED GARDEN.

WETLAND HABITAT: HARBORS MANY OVERWINTERING SALMON FRY. THE WATERS ARE CONNECTED TO PETERSON CREEK WHICH FLOW TO ANAKA BAY.

PEARL HARBOR

CALENDULA BED

RASPBERRY PATCH

DAHLIA BED

MT. ASH BORDER

THE ASH GROVE PRODUCES A BOUNTY OF RED BERRIES ENJOYED BY BIRDS AND BEARS ALIKE.

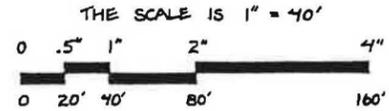
HORTICULTURAL PLANTINGS ARE LOCATED ALONG THE GROUNDS' PERIMETER AND SCATTERED ACROSS THE GENTLY RAISED TERRACE ABOVE THE BEACH. ORNAMENTAL TREES AND SHRUBS ENCIRCLE THE GROUNDS AT THE SLOPE BREAK FOR STUNNING FALL PRESENTATION.

A NATIVE SPRUCE-HEMLOCK FOREST DOMINATES THE 17-ACRE SITE WITH PATCHES OF WETLAND COMMUNITIES WITH SKUNK CABBAGE AND MARSH MARIGOLD AND A BEACH STRAND WITH RYEGRASS AND BEACH LOVAGE. WITHIN THIS SETTING ARE THE GARDEN GROUNDS PLANTED WITH ORNAMENTAL TREES, SHRUBS, AND PERENNIALS BEARING ALL ORDER OF CONSPICUOUS FLOWERS, FRUITS, FOLIAGE, AND FORM.

CAROLINE JENSEN PLANTED A GROVE OF COTONWOODS TO HELP BUFFER VIEWS BETWEEN HIGHWAY AND GROUNDS

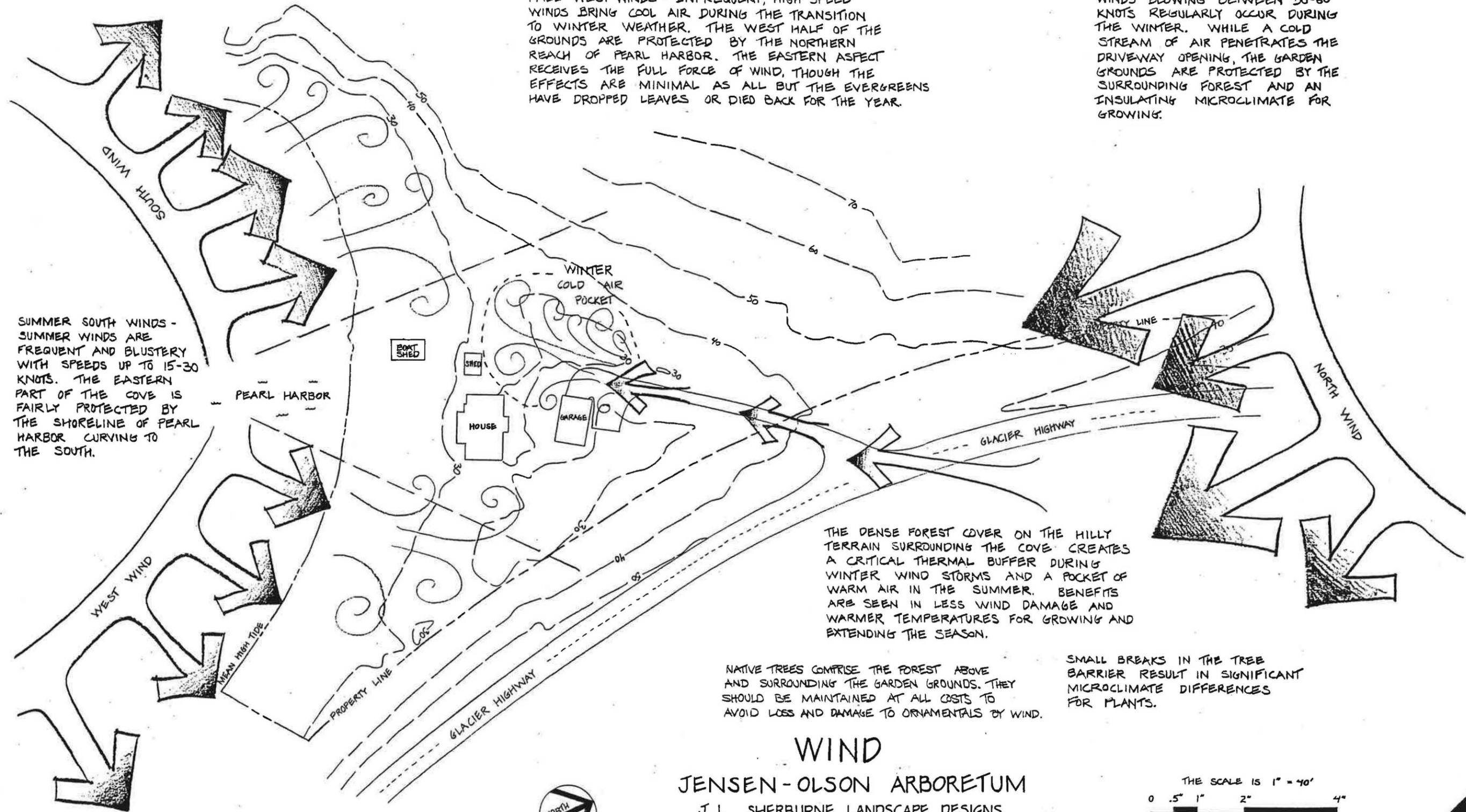
LEGEND

- SPRUCE-HEMLOCK FOREST
- WETLAND
- FLOWER BED
- ORNAMENTAL TREE/SHRUB
- LAWN
- BEACH STRAND
- VEGETABLE GARDEN



VEGETATION
 JENSEN-OLSON ARBORETUM
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FALL WEST WINDS - INFREQUENT, HIGH SPEED WINDS BRING COOL AIR DURING THE TRANSITION TO WINTER WEATHER. THE WEST HALF OF THE GROUNDS ARE PROTECTED BY THE NORTHERN REACH OF PEARL HARBOR. THE EASTERN ASPECT RECEIVES THE FULL FORCE OF WIND, THOUGH THE EFFECTS ARE MINIMAL AS ALL BUT THE EVERGREENS HAVE DROPPED LEAVES OR DIED BACK FOR THE YEAR.

WINTER NORTH WINDS - ICY, GLACIAL WINDS BLOWING BETWEEN 50-60 KNOTS REGULARLY OCCUR DURING THE WINTER. WHILE A COLD STREAM OF AIR PENETRATES THE DRIVEWAY OPENING, THE GARDEN GROUNDS ARE PROTECTED BY THE SURROUNDING FOREST AND AN INSULATING MICROCLIMATE FOR GROWING.

SUMMER SOUTH WINDS - SUMMER WINDS ARE FREQUENT AND BLUSTERY WITH SPEEDS UP TO 15-30 KNOTS. THE EASTERN PART OF THE COVE IS FAIRLY PROTECTED BY THE SHORELINE OF PEARL HARBOR CURVING TO THE SOUTH.

THE DENSE FOREST COVER ON THE HILLY TERRAIN SURROUNDING THE COVE CREATES A CRITICAL THERMAL BUFFER DURING WINTER WIND STORMS AND A POCKET OF WARM AIR IN THE SUMMER. BENEFITS ARE SEEN IN LESS WIND DAMAGE AND WARMER TEMPERATURES FOR GROWING AND EXTENDING THE SEASON.

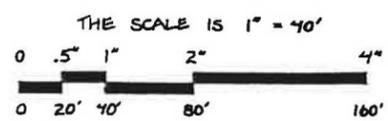
NATIVE TREES COMPRISE THE FOREST ABOVE AND SURROUNDING THE GARDEN GROUNDS. THEY SHOULD BE MAINTAINED AT ALL COSTS TO AVOID LOSS AND DAMAGE TO ORNAMENTALS BY WIND.

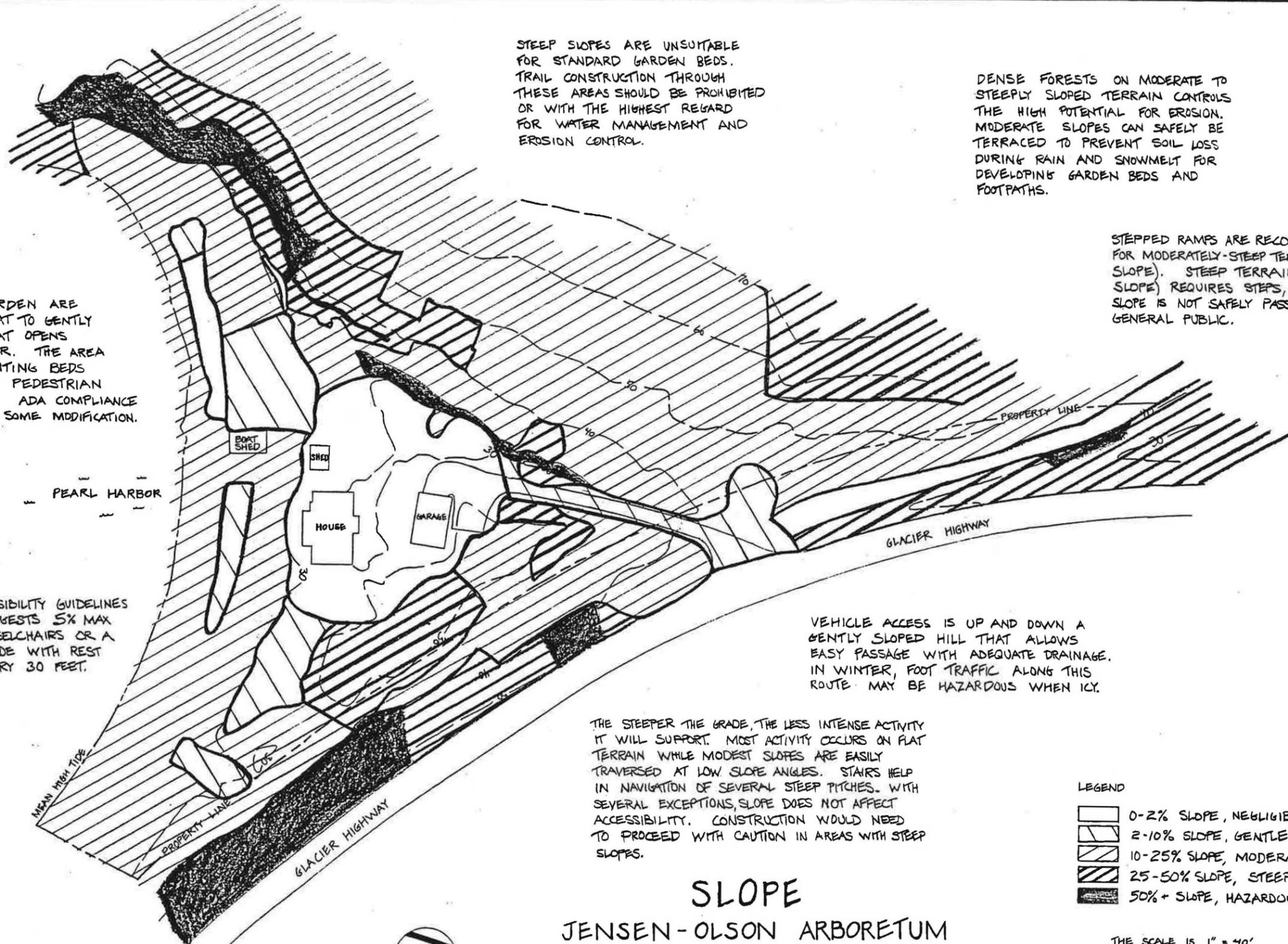
SMALL BREAKS IN THE TREE BARRIER RESULT IN SIGNIFICANT MICROCLIMATE DIFFERENCES FOR PLANTS.

WIND

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STEEP SLOPES ARE UNSUITABLE FOR STANDARD GARDEN BEDS. TRAIL CONSTRUCTION THROUGH THESE AREAS SHOULD BE PROHIBITED OR WITH THE HIGHEST REGARD FOR WATER MANAGEMENT AND EROSION CONTROL.

DENSE FORESTS ON MODERATE TO STEEPLY SLOPED TERRAIN CONTROLS THE HIGH POTENTIAL FOR EROSION. MODERATE SLOPES CAN SAFELY BE TERRACED TO PREVENT SOIL LOSS DURING RAIN AND SNOWMELT FOR DEVELOPING GARDEN BEDS AND FOOTPATHS.

STEPPE RAMP ARE RECOMMENDED FOR MODERATELY-STEEP TERRAIN (10-25% SLOPE). STEEP TERRAIN (25-50% SLOPE) REQUIRES STEPS, AND ABOVE A 50% SLOPE IS NOT SAFELY PASSABLE BY THE GENERAL PUBLIC.

THE HOUSE AND GARDEN ARE SITUATED ON A FLAT TO GENTLY SLOPING BENCH THAT OPENS WIDE TO THE WATER. THE AREA IS IDEAL FOR PLANTING BEDS AND OFFERS EASY PEDESTRIAN ACCESS THROUGHOUT. ADA COMPLIANCE IS ATTAINABLE WITH SOME MODIFICATION.

THE ADA ACCESSIBILITY GUIDELINES FOR TRAILS SUGGESTS 5% MAX GRADE FOR WHEELCHAIRS OR A 5-10% MAX GRADE WITH REST LANDINGS EVERY 30 FEET.

VEHICLE ACCESS IS UP AND DOWN A GENTLY SLOPED HILL THAT ALLOWS EASY PASSAGE WITH ADEQUATE DRAINAGE. IN WINTER, FOOT TRAFFIC ALONG THIS ROUTE MAY BE HAZARDOUS WHEN ICY.

THE STEEPER THE GRADE, THE LESS INTENSE ACTIVITY IT WILL SUPPORT. MOST ACTIVITY OCCURS ON FLAT TERRAIN WHILE MODEST SLOPES ARE EASILY TRAVERSED AT LOW SLOPE ANGLES. STAIRS HELP IN NAVIGATION OF SEVERAL STEEP PITCHES. WITH SEVERAL EXCEPTIONS, SLOPE DOES NOT AFFECT ACCESSIBILITY. CONSTRUCTION WOULD NEED TO PROCEED WITH CAUTION IN AREAS WITH STEEP SLOPES.

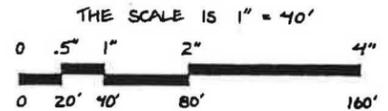
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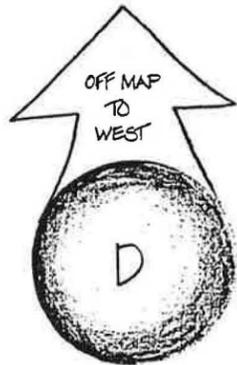
-  0-2% SLOPE, NEGLIGIBLE
-  2-10% SLOPE, GENTLE - MODERATE
-  10-25% SLOPE, MODERATE - STEEP
-  25-50% SLOPE, STEEP
-  50%+ SLOPE, HAZARDOUS

SLOPE

JENSEN-OLSON ARBORETUM

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THE WESTERN PORTION OF THE PROPERTY, OFF THIS MAP, IS STONY SILT OR SANDY LOAM. IT IS WELL-DRAINED AND OF VERY POOR NUTRIENT QUALITY LAID OVER VERY SHALLOW BEDROCK. SLOPES ARE STEEP AND ROAD BUILDING AND SHALLOW EXCAVATION IS SEVERELY LIMITED.

DERIVED FROM GLACIAL MORaine TILL, THESE SOILS ARE WELL-DRAINED AND SUPPORT A FOREST THAT IS DOMINATED BY SITKA SPRUCE AND WESTERN HEMLOCK. THE GRAVELLY SILT LOAM IS ACIDIC AND NUTRIENT-POOR. SLOPES ARE STEEP AND ENGINEERING LIMITATIONS FOR ROAD-BUILDING ARE EXTREMELY DIFFICULT TO OVERCOME WITH HIGH RISK FOR SEVERE EROSION AND EVEN LANDSLIDES.

THE GARDEN GROUNDS ARE BUILT OVER A RAISED BEACH OF GRAVELLY LOAM UNDERLAIN BY GLACIAL TILL AND SHALLOW BEDROCK. IT IS WELL-DRAINED BUT, IN MEETING HORTICULTURAL NEEDS, IS LACKING DUE TO VERY LITTLE ACCUMULATION OF ORGANIC MATTER. BEDROCK IS EXPOSED IN PLACES AND MAY AFFECT ROOT ZONE NEEDS OF CERTAIN SPECIES.

THE DARK AREAS ARE LOCATIONS WHERE SOIL HAS BEEN AMENDED TO SOME DEGREE. THE VEGETABLE GARDEN SOIL IS EXTREMELY FERTILE.

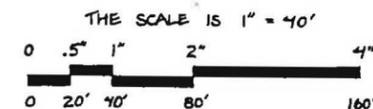
WITH REGARD TO THE PRIMARY GARDEN GROUNDS, THE THIN, NUTRIENT-POOR SOILS HAVE REQUIRED THAT ALL GARDEN BEDS BE DEVELOPED AND AMENDED BY THE ADDITION OF LEAF MULCH, ALGAE, AND FERTILIZER SUPPLEMENTS. THE BEDS ARE NOW HIGH IN ORGANICS AND NUTRIENT-RICH WITH A TEXTURE THAT IS FRIABLE AND LOAMY. EXPANDED BEDS WILL REQUIRE TOPSOIL THAT MEETS STATE STANDARDS FOR pH, ORGANIC CONTENT, & STONE.

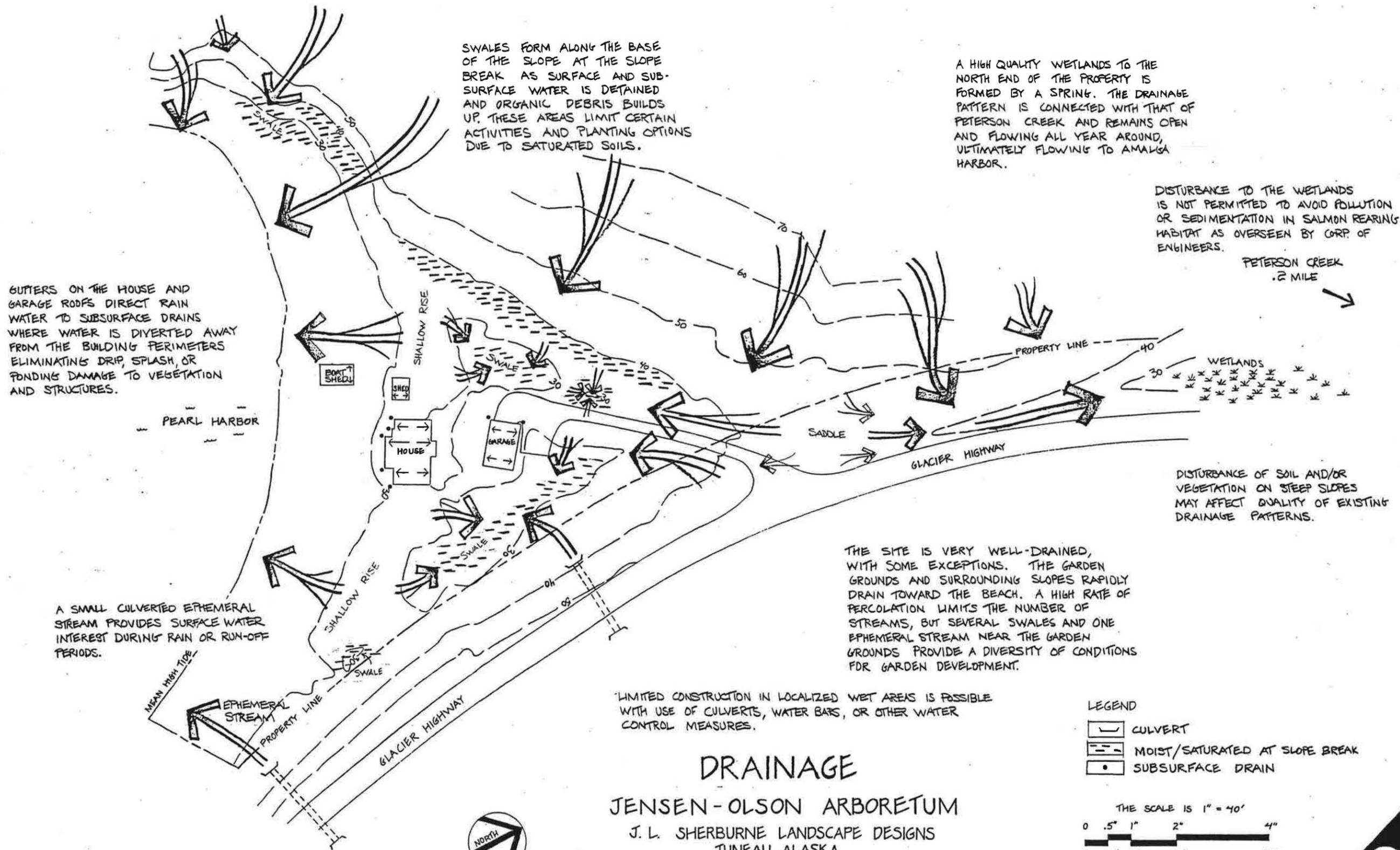
FRESHWATER WETLAND SEDGES AND GRASSES CLEARLY DEMARK THE POORLY-DRAINED, SILTY LOAMS MARBLED WITH PEAT. THIS AREA HAS A VERY HIGH WATER TABLE, LESS THAN 2 FEET, AND IS SUSCEPTIBLE TO OCCASIONAL OVERFLOW FROM PETERSON CREEK. IT IS EXTREMELY UNSUITABLE TO ROAD BUILDING, EXCAVATION, OR EVEN MOST FORMS OF RECREATION.

SOILS

JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS
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SWALES FORM ALONG THE BASE OF THE SLOPE AT THE SLOPE BREAK AS SURFACE AND SUB-SURFACE WATER IS DETAINED AND ORGANIC DEBRIS BUILDS UP. THESE AREAS LIMIT CERTAIN ACTIVITIES AND PLANTING OPTIONS DUE TO SATURATED SOILS.

A HIGH QUALITY WETLANDS TO THE NORTH END OF THE PROPERTY IS FORMED BY A SPRING. THE DRAINAGE PATTERN IS CONNECTED WITH THAT OF PETERSON CREEK AND REMAINS OPEN AND FLOWING ALL YEAR AROUND, ULTIMATELY FLOWING TO AMALGA HARBOR.

DISTURBANCE TO THE WETLANDS IS NOT PERMITTED TO AVOID POLLUTION OR SEDIMENTATION IN SALMON REARING HABITAT AS OVERSEEN BY CORP. OF ENGINEERS.

PETERSON CREEK
.2 MILE

GUTTERS ON THE HOUSE AND GARAGE ROOFS DIRECT RAIN WATER TO SUBSURFACE DRAINS WHERE WATER IS DIVERTED AWAY FROM THE BUILDING PERIMETERS ELIMINATING DRIP, SPLASH, OR FONDING DAMAGE TO VEGETATION AND STRUCTURES.

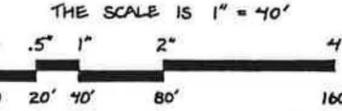
A SMALL CULVERTED EPHEMERAL STREAM PROVIDES SURFACE WATER INTEREST DURING RAIN OR RUN-OFF PERIODS.

DISTURBANCE OF SOIL AND/OR VEGETATION ON STEEP SLOPES MAY AFFECT QUALITY OF EXISTING DRAINAGE PATTERNS.

THE SITE IS VERY WELL-DRAINED, WITH SOME EXCEPTIONS. THE GARDEN GROUNDS AND SURROUNDING SLOPES RAPIDLY DRAIN TOWARD THE BEACH. A HIGH RATE OF PERCOLATION LIMITS THE NUMBER OF STREAMS, BUT SEVERAL SWALES AND ONE EPHEMERAL STREAM NEAR THE GARDEN GROUNDS PROVIDE A DIVERSITY OF CONDITIONS FOR GARDEN DEVELOPMENT.

LIMITED CONSTRUCTION IN LOCALIZED WET AREAS IS POSSIBLE WITH USE OF CULVERTS, WATER BARS, OR OTHER WATER CONTROL MEASURES.

- LEGEND
-  CULVERT
 -  MOIST/SATURATED AT SLOPE BREAK
 -  SUBSURFACE DRAIN



DRAINAGE

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THE GARDEN, WHILE NEARLY FLAT, IS DIFFICULT TO NEGOTIATE DUE TO STEEP, ROUNDED EDGES ALONG THE ROWS AND WALKWAYS. SLIPPERY PLASTIC COVERS ALL WALKING SURFACES.

THE BEACH IS GENTLY SLOPED, BUT LOOSE, UNEVEN COBBLE CAUSES MODERATE DIFFICULTY WALKING.

A STEEP, ROCKY SECTION OF TRAIL CONNECTS THE GARDEN GROUNDS WITH A COASTAL TRAIL THAT LEADS NORTHWARD ALONG THE WATER.

A FOOTPATH/ANIMAL TRAIL ALONG EDGE OF FORESTED SLOPE TO THE WEST ALLOWS PEOPLE ON FOOT TO EXPERIENCE A DIFFERENT LANDSCAPE THAN THE GARDEN GROUNDS AND HORTICULTURAL PLANTINGS. SEVERAL OPENINGS ALLOW FILTERED VIEWS INTO THE GARDEN FROM THE FOREST TRAIL ABOVE.

SEVERAL ROUTES ALLOW ACCESS FROM THE LOWER GARDEN GROUNDS UP INTO THE HILL SLOPE ABOVE FOR COMFORTABLE TRAVERSE OF THE ANIMAL TRAIL/FOOTPATH.

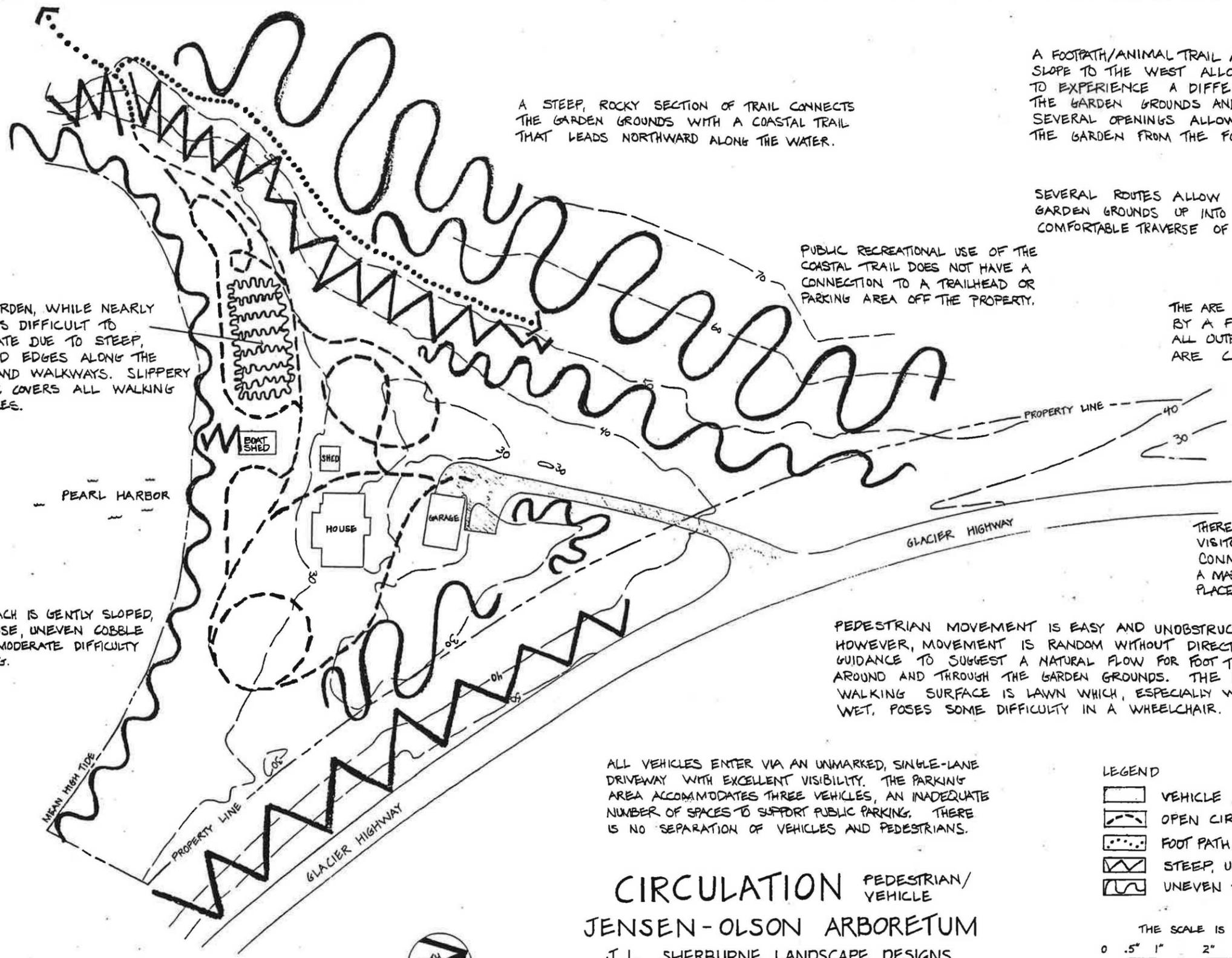
PUBLIC RECREATIONAL USE OF THE COASTAL TRAIL DOES NOT HAVE A CONNECTION TO A TRAILHEAD OR PARKING AREA OFF THE PROPERTY.

THERE ARE NO IMPEDIMENTS TO ACCESS BY A FIRE TRUCK. THE HOUSE AND ALL OUTBUILDINGS, EXCEPT BOAT SHED, ARE CLEAR AND APPROACHABLE.

THERE ARE NO SIGNS TO DIRECT GUESTS/VISITORS AROUND GROUNDS OR TO CONNECT WITH EXISTING FOOTPATHS. A MAP WILL WORK WITH SMALL STRATEGICALLY PLACED SIGNS TO DIRECT THE PUBLIC.

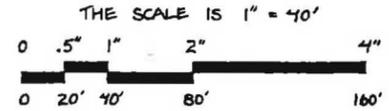
PEDESTRIAN MOVEMENT IS EASY AND UNOBSTRUCTED. HOWEVER, MOVEMENT IS RANDOM WITHOUT DIRECTIONAL GUIDANCE TO SUGGEST A NATURAL FLOW FOR FOOT TRAFFIC AROUND AND THROUGH THE GARDEN GROUNDS. THE MAIN WALKING SURFACE IS LAWN WHICH, ESPECIALLY WHEN WET, POSES SOME DIFFICULTY IN A WHEELCHAIR.

ALL VEHICLES ENTER VIA AN UNMARKED, SINGLE-LANE DRIVEWAY WITH EXCELLENT VISIBILITY. THE PARKING AREA ACCOMMODATES THREE VEHICLES, AN INADEQUATE NUMBER OF SPACES TO SUPPORT PUBLIC PARKING. THERE IS NO SEPARATION OF VEHICLES AND PEDESTRIANS.

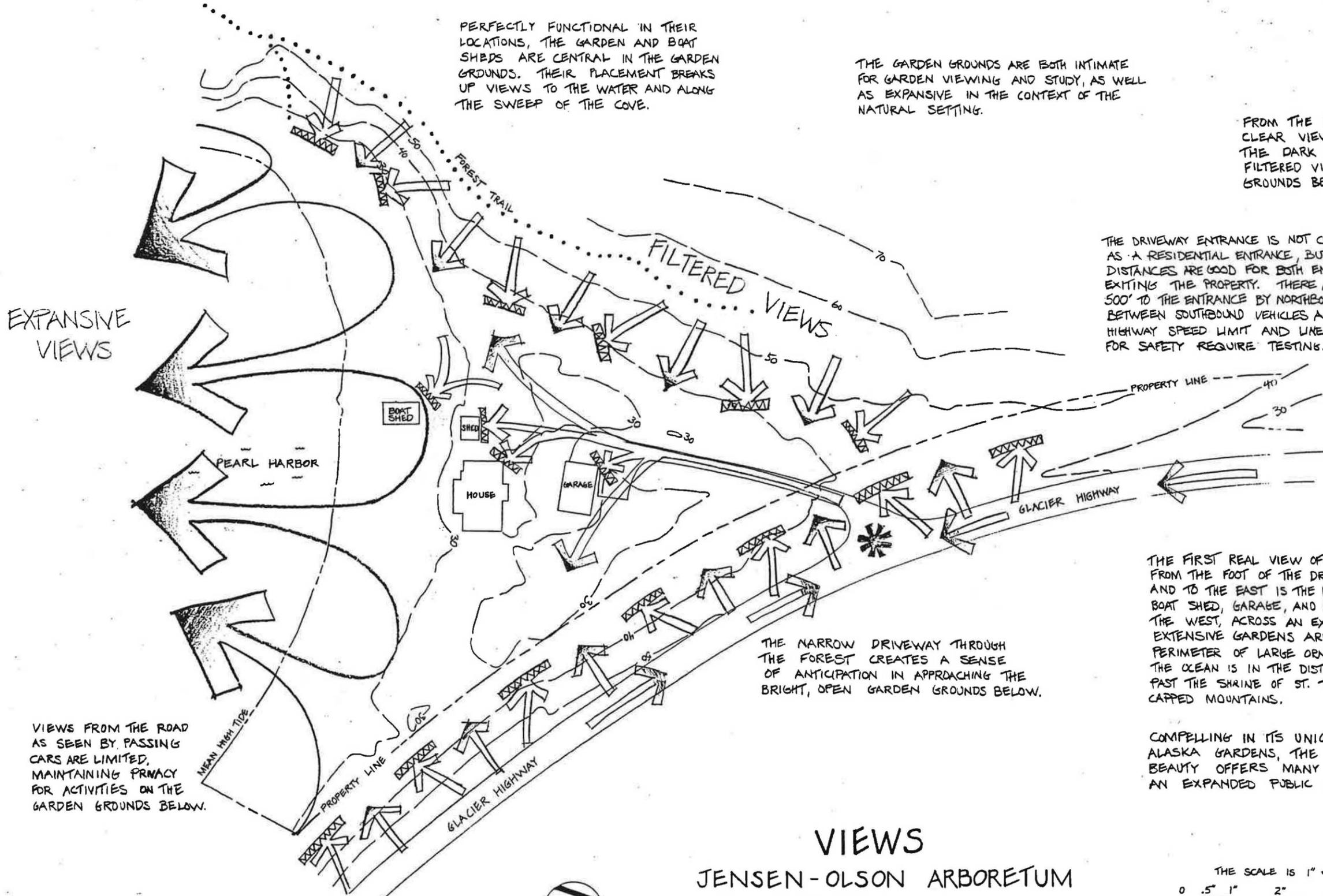


LEGEND

- VEHICLE ACCESS AND PARKING
- OPEN CIRCULATION - FLAT, EASY WALKING
- FOOT PATH - UNEVEN, VARIABLE DIFFICULTY
- STEEP, UNEVEN TERRAIN, SCRAMBLE
- UNEVEN TERRAIN, MODERATE DIFFICULTY



CIRCULATION PEDESTRIAN/
VEHICLE
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PERFECTLY FUNCTIONAL IN THEIR LOCATIONS, THE GARDEN AND BOAT SHEDS ARE CENTRAL IN THE GARDEN GROUNDS. THEIR PLACEMENT BREAKS UP VIEWS TO THE WATER AND ALONG THE SWEEP OF THE COVE.

THE GARDEN GROUNDS ARE BOTH INTIMATE FOR GARDEN VIEWING AND STUDY, AS WELL AS EXPANSIVE IN THE CONTEXT OF THE NATURAL SETTING.

FROM THE FOREST TRAIL, THERE ARE CLEAR VIEWS INTO THE FOREST UNDER THE DARK SPRUCE-HEMLOCK CANOPY AND FILTERED VIEWS DOWN INTO THE GARDEN GROUNDS BELOW AND OCEAN BEYOND.

THE DRIVEWAY ENTRANCE IS NOT CONSPICUOUSLY MARKED AS A RESIDENTIAL ENTRANCE, BUT SIGHT-LINE DISTANCES ARE GOOD FOR BOTH ENTERING AND EXITING THE PROPERTY. THERE ARE CLEAR VIEWS OF APPROX. 500' TO THE ENTRANCE BY NORTHBOUND TRAFFIC AND VISIBILITY BETWEEN SOUTHBOUND VEHICLES AND THOSE ENTERING IS 400' HIGHWAY SPEED LIMIT AND LINE OF SIGHT DISTANCES FOR SAFETY REQUIRE TESTING.

EXPANSIVE VIEWS

FILTERED VIEWS

THE NARROW DRIVEWAY THROUGH THE FOREST CREATES A SENSE OF ANTICIPATION IN APPROACHING THE BRIGHT, OPEN GARDEN GROUNDS BELOW.

THE FIRST REAL VIEW OF THE GROUNDS IS FROM THE FOOT OF THE DRIVEWAY. FORWARD AND TO THE EAST IS THE HOUSE, GARDEN SHED, BOAT SHED, GARAGE, AND UTILITY POLE. TO THE WEST, ACROSS AN EXPANSE OF LAWN, EXTENSIVE GARDENS ARE VISIBLE WITHIN A PERIMETER OF LARGE ORNAMENTAL TREES. THE OCEAN IS IN THE DISTANCE AND BEYOND, PAST THE SHRINE OF ST. TERESE TO SNOW CAPPED MOUNTAINS.

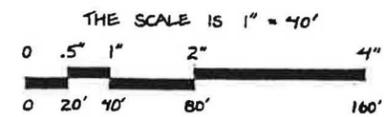
VIEWS FROM THE ROAD AS SEEN BY PASSING CARS ARE LIMITED, MAINTAINING PRIVACY FOR ACTIVITIES ON THE GARDEN GROUNDS BELOW.

COMPPELLING IN ITS UNIQUENESS AMONG ALASKA GARDENS, THE OPENNESS AND BEAUTY OFFERS MANY OPPORTUNITIES FOR AN EXPANDED PUBLIC GARDEN.

VIEWS

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THE PROPERTY CONSISTS OF TWO PARCELS: USS 1466 TRACT 3 IS ZONED RURAL RESIDENTIAL AND USS 2516 LOT A IS ZONED VACATED AND UNDEVELOPED ACCORDING TO CBT PLANNING OFFICE.

STRUCTURES ARE ALLOWABLE TO MEAN HIGH TIDE BECAUSE THERE IS NO SETBACK TO WATERFRONT DEVELOPMENT.

EXISTING RESIDENTIAL SEPTIC SYSTEM DOES NOT MEET SPECIFICATIONS FOR A PUBLIC SPACE.

NO TIDELAND OWNERSHIP

THERE IS NO SETBACK FROM THE PROPERTY LINE THAT ABUTS PEARL HARBOR AT THE MEAN HIGH TIDE LINE. THIS STATUS ALLOWS THE BUILDING OF STRUCTURES, CONSISTENT WITH ZONING, TO PROPERTY LINE AT WATER.

STATE-OWNED PUBLIC ACCESS TO WATERFRONT

PERCHED WETLAND

METAL TREE TRUNK WRAPPING AND STANDARD AND ELECTRICAL FENCING HAVE REDUCED IMPACTS FROM MARMOTS AND PORCUPINE. PROTECTION FROM DAMAGE OR LOSS IS AN IMPORTANT CONSIDERATION TO GARDEN MAINTENANCE AND EXPANSION.

BEAR DAMAGE TO CERTAIN TREES IS EXTENSIVE, THOUGH MOST TREES HAVE RECOVERED WITH ONLY DISFIGURING TO LIMBS AND BARK. THE OLD APPLE TREE AND OTHER APPLE AND ASH TREES CAN BE PARTICULARLY TARGETED DURING FALL FRUIT/BERRY PRODUCTION.

OVERHEAD AND UNDERGROUND UTILITIES CRISS-CROSS THE MOST HEAVILY TRAFFICKED AREA OF THE LAWN AND POSE SPECIAL CONSIDERATION DURING GROUNDS PLANTING AND DEVELOPMENT.

THE PROPERTY IS SURROUNDED TO THE NORTH AND WEST BY CBT LAND. MANAGEMENT OF AND ACTIVITIES AND DEVELOPMENT ON THE ADJACENT LANDS ARE IMPORTANT CONSIDERATIONS FOR SUCCESSFUL MANAGEMENT OF THE ARBORETUM.

SAFE SIGHT DISTANCES FOR HIGHWAY TURN-OFF REQUIRES TESTING/VERIFICATION WITH THE DEPT. OF TRANSPORTATION.

OUTDOOR LIGHTING IS LIMITED TO THE HOUSE PORCH AND THE SIDE DOOR OF THE GARAGE.

WETLAND BUFFER ZONE

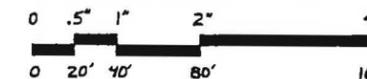
BUFFERS SHOULD SURROUND DESIGNATED WETLANDS TO PROTECT FUNCTIONS AND VALUES, UNDER GUIDANCE OF CORP. OF ENGINEERS.

THE PARCEL IS ZONED RURAL RESIDENTIAL. A CONSERVATION EASEMENT LEGALLY RESTRICTS USE TO AND MANDATES DEVELOPMENT OF A NONCOMMERCIAL AND PUBLIC BOTANICAL GARDEN AND ARBORETUM FOR THE PEOPLE OF JUNEAU. THE EASEMENT IS ATTACHED TO THE DEED AND ACTIVITIES ARE MONITORED BY THE SOUTHEAST ALASKA LAND TRUST OF JUNEAU.

LEGEND

- SATELLITE CABLE
- SNOW FLOW BERM
- FENCE (E - ELECTRIC FENCE)
- RIGHT-OF-WAY
- WILDLIFE ATTRACTIONS/PROBLEMS (BEAR, PORCUPINE, MARMOT)
- SETBACK
- UNDERGROUND LINE
- OVERHEAD LINE
- TIDELAND RESTRICTION
- WETLANDS
- WATER OUTLET/ SPIGOT
- OUTDOOR LIGHTING

THE SCALE IS 1" = 40'



ILK

CONSTRAINTS OPPORTUNITIES

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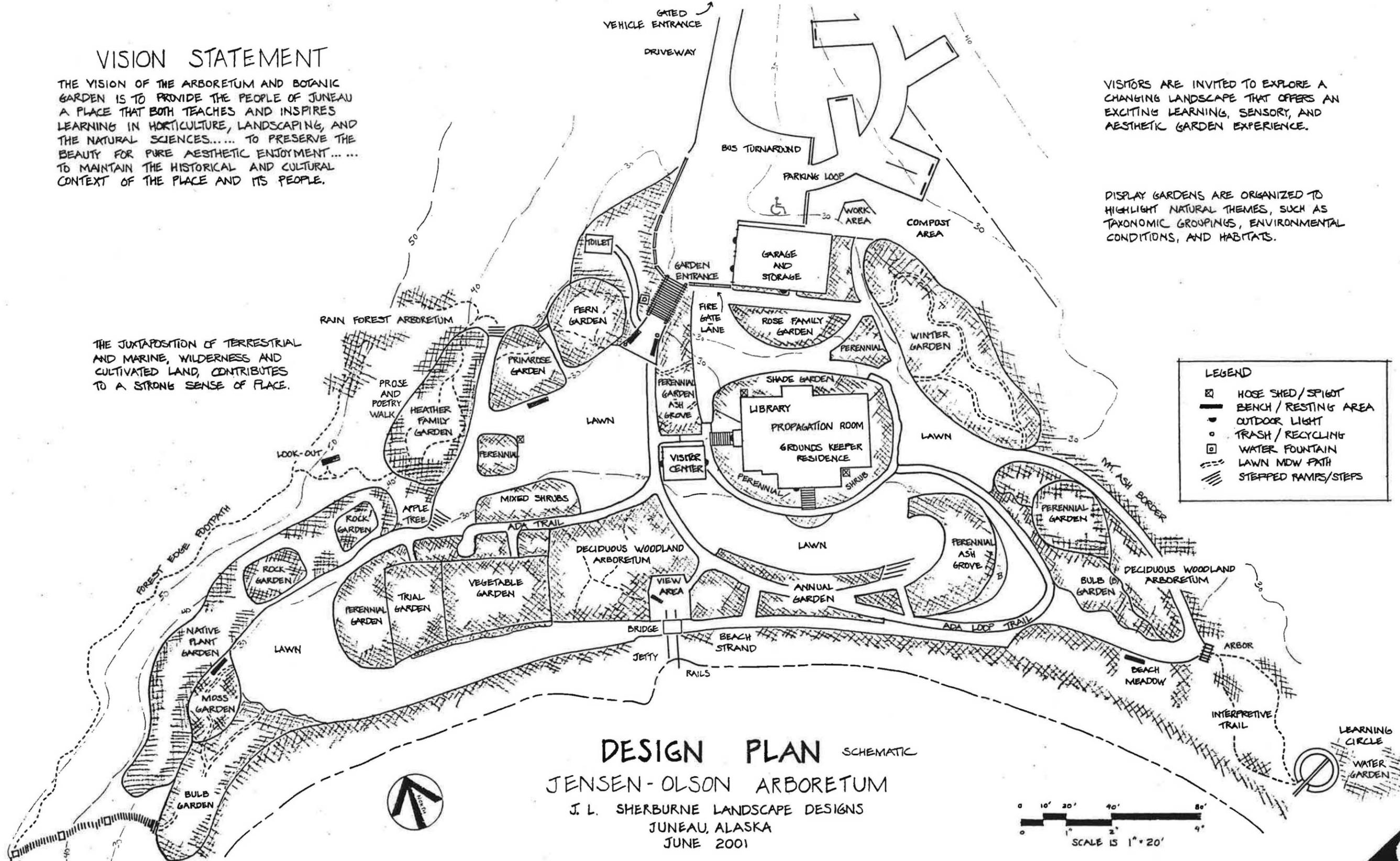
VISION STATEMENT

THE VISION OF THE ARBORETUM AND BOTANIC GARDEN IS TO PROVIDE THE PEOPLE OF JUNEAU A PLACE THAT BOTH TEACHES AND INSPIRES LEARNING IN HORTICULTURE, LANDSCAPING, AND THE NATURAL SCIENCES..... TO PRESERVE THE BEAUTY FOR PURE AESTHETIC ENJOYMENT... .. TO MAINTAIN THE HISTORICAL AND CULTURAL CONTEXT OF THE PLACE AND ITS PEOPLE.

VISITORS ARE INVITED TO EXPLORE A CHANGING LANDSCAPE THAT OFFERS AN EXCITING LEARNING, SENSORY, AND AESTHETIC GARDEN EXPERIENCE.

DISPLAY GARDENS ARE ORGANIZED TO HIGHLIGHT NATURAL THEMES, SUCH AS TAXONOMIC GROUPINGS, ENVIRONMENTAL CONDITIONS, AND HABITATS.

THE JUXTAPOSITION OF TERRESTRIAL AND MARINE, WILDERNESS AND CULTIVATED LAND, CONTRIBUTES TO A STRONG SENSE OF PLACE.



DESIGN PLAN SCHEMATIC
JENSEN-OLSON ARBORETUM
 J. L. SHERBURNE LANDSCAPE DESIGNS
 JUNEAU, ALASKA
 JUNE 2001

• INTRODUCTION •

THE MASTER PLAN PROGRAM OF ELEMENTS IS DESIGNED TO EMBODY THE SPIRIT OF THE VISION FOR THE ARBORETUM. THE ARBORETUM IS A LIVING COLLECTION OF PLANTS ASSEMBLED AND ORGANIZED FOR THE ENJOYMENT OF INTELLECTUAL AND SENSORY EXPERIENCES OR QUIET RETREAT INTO ONE'S SENSE OF PLACE. WHILE PRACTICALITY AND EFFICIENCY INFLUENCE THE FUNCTIONAL ASPECTS OF THE MASTER PLAN, CONSISTENCY OF CONCEPTUAL STYLE INTENDS TO UNIFY THE DESIGN ELEMENTS.

VEHICLE APPROACH

THE NORTH BOUND VEHICLE APPROACH INTO THE ARBORETUM FROM GLACIER HIGHWAY REQUIRES ONE SIGN TO PROVIDE 400-FOOT ADVANCE NOTICE TO ALL MOTORISTS FOR PROVIDING ADEQUATE SLOWING AND STOPPING DISTANCE.

DRIVEWAY

THE DRIVEWAY ENTRANCE IS CLEARLY MARKED TO PROTECT THE ARBORETUM'S CRITICAL THERMAL BUFFER PROVIDED BY THE FOREST. THE DRIVEWAY IS MAINTAINED AS ONE LANE AT A WIDTH OF 11-12 FEET. THE ONE LANE CIRCLES BACK INTO ITSELF APPROXIMATELY 60 FEET FROM THE OFF-HIGHWAY ENTRANCE; A LOCATION WHERE BOTH ENTERING AND EXITING VEHICLES ARE IN CLEAR VIEW AND CAN SAFELY WAIT FOR THE OTHER TO PASS.

GATE

SECURITY OF THE GROUNDS DURING OFF-HOURS IS MAINTAINED BY A GATE ACROSS THE DRIVEWAY TO DISCOURAGE VANDALISM, THEFT, LONTERING, OR PARKING NOT ASSOCIATED WITH THE ARBORETUM.

PARKING

THE PARKING LOT IS CONVENIENT FOR PEDESTRIAN AND DISABLED VISITORS AND, AS AN AESTHETIC PRIORITY, IS VISUALLY ISOLATED FROM THE GARDEN. WITH BRUSHING BUT NO REMOVAL OF LARGE TREES, FINAL SITING DETAIL IS REQUIRED TO ENSURE 9x18-FOOT PARKING SPACES WITH AMPLE BACKING DISTANCES. PARKING NEAR THE GROUNDS ALLOWS MUCH GREATER CONTROL AND OPPORTUNITY FOR MONITORING BY STAFF. WITH ARBORETUM CAPACITY LIMITED, AN ATTENDANCE LOAD OF 15 PEOPLE OR ONE ORGANIZED GROUP IS WELL ACCOMMODATED WITH 8 VEHICLE SPACES AND ONE UPPER BUS PARKING SPACE AND TURN-AROUND.

GARDEN ENTRANCE

CLEARLY VISIBLE AND WELCOMING, THE ENTRANCE TO THE GARDENS FORMALLY READIES THE VISITOR WITH BROCHURE AND MAP BEFORE LEADING THEM THROUGH THE ENTRANCE PERGOLA TO AN ARRIVAL PATIO INSIDE THE GROUNDS. THE ARRIVAL PATIO IS AN ORIENTATION SPACE AND GATHERING AREA THAT IS ALSO SUITABLE AS A FOCUS AREA FOR LARGER OUTDOOR EVENTS. AS A CENTER POINT, IT IS FURNISHED WITH A TRASH RECEPTACLE, BENCHES, WATER FOUNTAIN, AND OUTDOOR TOILET.

FIRE LANE

BETWEEN THE GARDEN ENTRANCE AND THE GARAGE IS A 15-FOOT-WIDE GATE TO ALLOW CLEAR PASSAGE OF A FIRE TRUCK OR OTHER EMERGENCY VEHICLE WITHOUT INTERFERENCE FROM PLANTINGS.

GARDENS

THEMATIC COLLECTIONS OR GARDENS WHICH FOLLOW TAXONOMIC OR ECOLOGICAL THEMES, ORNAMENTAL FLOWER BEDS, AND NATIVE HABITATS FILL OR SURROUND THE MAIN GROUNDS. TAXONOMIC COLLECTIONS ARE COMPOSED PRIMARILY OF CLOSELY RELATED SPECIES TO DEMONSTRATE PLANT EVOLUTION AND SYSTEMATIC ORDER. ECOLOGICAL THEMES REPRESENT A PARTICULAR VEGETATION TYPE OR LIFE FORM. TO PROPERLY CARE FOR THE COLLECTION, RECORDS ARE MAINTAINED AND ALL PLANTS KEY TO THE COLLECTION ARE LABELED WITH THE FOLLOWING INFORMATION: FAMILY, SCIENTIFIC NAME, COMMON NAME, ORIGIN, DISTRIBUTION, ACCESSION NUMBER, AND YEAR.

CIRCULATION

THE CIRCULATION OF PEOPLE THROUGH THE ARBORETUM IS SUCH THAT IT ENSURES SAFETY AND COMFORT FOR PEDESTRIAN AND WHEEL CHAIR TRAFFIC. THE PEDESTRIAN PATHWAYS DO NOT EXCEED A 10% SLOPE WITHOUT THE AID OF EITHER STEPPED RAMPS, WITH 2 STRIDES PER STEP, ON MODERATELY STEEP SLOPES, OR WITH STEPS IN STEEP AREAS, SUCH AS BETWEEN THE MAIN GROUNDS AND THE FOREST TRAIL. LIMITED CONTOURING IS NEEDED FOR PROPER DRAINAGE AND IMPROVED NEGOTIATION OF DIFFICULT TERRAIN. THE ADA/WHEELCHAIR TRAIL DOES NOT EXCEED A 10% SLOPE WITHOUT A FLAT AREA FOR RESTING EVERY 15 FEET. THE ADA TRAIL IS 4 FEET WIDE AND HAS SEVERAL WIDE AREAS FOR PULL-OUT OR TURN-AROUND. WITH THE EXCEPTION OF THE WHEELCHAIR ROUTE, NATURAL, POROUS, WELL-DRAINED SUBSTRATES OF LAWN MOW PATHS, SOD, OR STEPPING STONES PREDOMINATE. ACCESS FOR GARDEN MAINTENANCE REQUIRES THAT PLANTING BEDS GREATER THAN 3 FEET WIDE BE BISECTED BY INCONSPICUOUS MAINTENANCE TRAILS OR STEPPING STONES. ENJOYMENT AND CONTEMPLATION OF THE GARDENS IS ENCOURAGED BY REGULAR PLACEMENT OF BENCHES ALONG ALL PATHWAYS.

EDUCATIONAL FACILITIES

THE LEARNING CIRCLE IS SPECIALLY DESIGNED FOR CHILDREN AS AN OUTDOOR CLASSROOM. ITS LOCATION IN THE FOREST JUST ABOVE THE BEACH REQUIRES CAREFUL BRUSHING AND THINNING TO OPEN UP A WARM, SOUTH-FACING EXPOSURE. THE CIRCLE IS APPROACHED THROUGH THE FOREST ALONG AN INTERPRETIVE TRAIL THAT PREPARES STUDENTS FOR AN HOLISTIC LEARNING EXPERIENCE. OTHER EDUCATIONAL FACILITIES INCLUDE THE LIBRARY AND READING ROOM, WHICH RESIDE IN THE MAIN HOUSE, AND THE VISITOR CENTER.

DESIGN PLAN ANNOTATIONS

JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS

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VIEW AREA

WHEELCHAIR ACCESSIBLE, THE COVERED VIEWING OR OBSERVATION AREA REPLACES A DILAPIDATED BOAT SHED OF SOME HISTORICAL VALUE, THE OLD SHED STORED THE BOAT THAT HAULED SUPPLIES, FISH, AND PRODUCE THAT WAS WENCHED TO AND FROM THE WATER ALONG OLD RAILROAD TIES. THE RAILS REMAIN IN PLACE, WITH THE COVERED VIEW AREA, PKTD OF BEACH STONE AND GRAVEL, AND SHALLOW BRIDGE CONNECTING WITH THE BEACH IN HONOR OF THE WORKING RELATIONSHIP BETWEEN LAND AND OCEAN ON THIS SITE.

VISITOR CENTER

AS THE ARBORETUM'S SUMMER OFFICE, THE VISITOR CENTER IS A PLACE FOR SMALL WORKSHOPS OR CLUB GATHERINGS, HERBARIUM, GARDEN REFERENCE MATERIALS AND/OR EXHIBITS. WITH VOLUNTEER STAFF, THERE ARE OPPORTUNITIES FOR BOOK AND PLANT SALES. A PUBLIC PHONE IS AVAILABLE.

WORK AREAS

NON-PUBLIC WORK SPACE IS OUT OF SIGHT, SCREENED, OR SEPARATED BY BARRIERS, SO THAT VISITORS ARE NOT AWARE OF ARBORETUM INFRASTRUCTURE INCLUDING MATERIALS OR MACHINERY. OUTDOOR WORK TABLES, COMPOST BINS, AND MULCH STORAGE AREAS ARE ROAD ACCESSIBLE WITH CONVENIENT, THOUGH DISCRETE, ACCESS TO THE MAIN GROUNDS. A PROPAGATION ROOM IS LOCATED IN THE HOUSE AND IS SET UP WITH POTTING BENCHES, STORAGE BINS, GROW LAMPS, TOOL RACK, STERILIZATION OVEN, AND WATER.

LANDMARKS

THE HOUSE ITSELF IS A LOCAL LANDMARK. WHO IN JUNEAU DOES NOT KNOW THE SUNNY HOUSE THAT SETS ABOVE THE BEACH AT PEARL HARBOR? IT IS SIDED ENTIRELY WITH REDWOOD. THE JETTY WAS BUILT OF LOCAL STONE AND PROTECTED THE BOAT LAUNCH FROM ROUGH WATER, AND, WITH THE VEGETABLE GARDEN, HELPED MAKE REMOTE LIVING POSSIBLE. THE APPLE TREE IS AN HISTORICAL LANDMARK APPROACHING 100 YEARS OF AGE. IT WAS PLANTED AS A SEED BY THE PETERSON FAMILY AND STILL PRODDUCES FRUIT. ALL THESE ASSETS REQUIRE SPECIAL MAINTENANCE.

LIGHTING

FOR CONVENIENCE AND SAFETY, ESPECIALLY DURING THE SHORT WINTER DAYS, A SYSTEM OF LIGHTS IS EXPANDED TO INCLUDE AN OUTDOOR LIGHTS AT EVERY BUILDING OR DOORWAY.

WATER

THERE ARE TWO EXISTING SPIGOTS THAT MAKE FOR EFFICIENT SERVING OF THE GARDENS BY MANUAL MEANS. A THIRD SPIGOT INSTALLATION PLUMBED FROM THE SOUTHEAST CORNER OF THE HOUSE MAKES REGULAR WATERING OF THE ANNUAL GARDEN MORE CONVENIENT. PUBLIC WATER IS AVAILABLE AT THE WATER FOUNTAIN NEAR THE ENTRANCE. FRESH WATER IS SUPPLIED BY A WELL THAT PRODUCES 300 GALLONS PER HOUR.



THE OLD APPLE TREE
WITH SUPPORTING POST
"GOLDEN DELICIOUS"

ARBORETUM \$ SUPPORT

GARDENS ELICIT MANY DIFFERENT KINDS OF RESPONSES FROM DIFFERENT PEOPLE: ARTISTIC RENDERINGS AND LITERARY REFLECTIONS AND VERSE, OR EVEN FINANCIAL CONTRIBUTIONS. COMBINING DIFFERENT RESPONSES, AN ARBORETUM CONTRIBUTOR CAN MAKE A MAJOR DONATION THAT WOULD INCLUDE PURCHASE OF A BRONZE PLAQUE EMBOSSED WITH A POEM OR QUOTE. PLAQUES ARE MOUNTED IN THE GROUND ALONG THE PROSE & POETRY WALK, A SHORT TRAIL CIRCUIT FROM THE GARDEN GROUNDS UP INTO THE FOREST AND BACK.

A GARDEN IS NOT A PLACE:
IT IS A PASSAGE,
A PASSION.
WE DON'T KNOW WHERE WE'RE GOING,
TO PASS THROUGH IS ENOUGH,
TO PASS THROUGH IS TO REMAIN

OCTAVIO PAZ

THE GARDEN IS A GRAND TEACHER

GERTRUDE JEKYLL

NEW FEET WITHIN MY GARDEN GO,
NEW FINGERS STIR THE SOD,
A TROUBADOUR UPON THE ELM,
BETRAYS THE SOLITUDE.

EMILY DICKENSON

EVERY PERSON NEEDS TO HAVE A
PIECE OF GARDEN, HOWEVER SMALL,
TO KEEP THEM IN TOUCH WITH THE
EARTH AND, THEREFORE, WITH SOMETHING
DEEPER IN THEMSELVES.

CARL JUNG

THE GARDEN IS A SAFE PLACE, A BENEVOLENT
SETTING WHERE EVERYONE IS WELCOME.
PLANTS ARE NONJUDGMENTAL, NONTHREATENING,
AND NONDISCRIMINATING... THUS, IN A GARDEN,
ONE CAN TAKE THE FIRST STEPS TOWARDS
SELF-CONFIDENCE.

CHARLES LEWIS

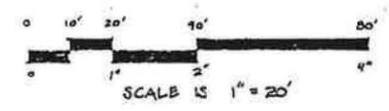
GARDENERS ARE VERY NICE PEOPLE.

CAROLINE JENSEN

DESIGN PLAN ANNOTATIONS
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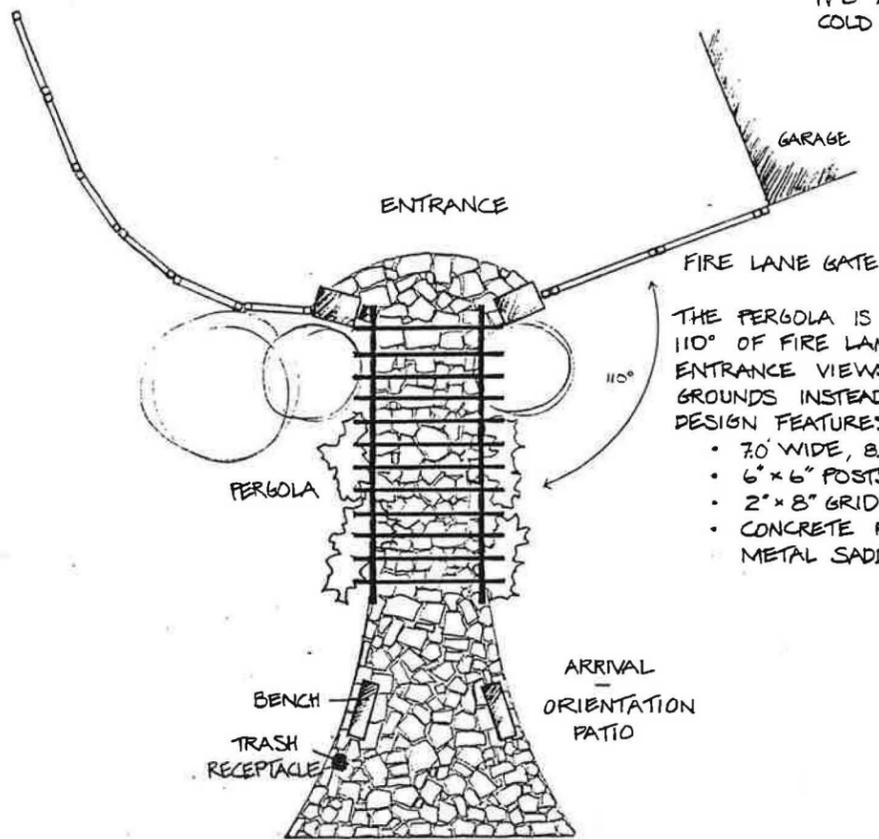
DESIGN PLAN AXONOMETRIC
JENSEN-OLSON ARBORETUM
J. L. SHERBURNE LANDSCAPE DESIGNS
JUNEAU, ALASKA
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PARKING ↗

SOME SEPARATION BETWEEN PARKING AND THE ENTRANCE WILL INCREASE VEHICLE-PEDESTRIAN SAFETY AND CREATE A MORE PLEASANT AND INTIMATE APPROACH.

THE SELECTION AND PLACEMENT OF ENTRANCE PLANTINGS WILL REQUIRE PARTICULAR CARE BECAUSE THE LOCATION HAS A MICROCLIMATE CREATED BY COLD WINTER WINDS FROM THE NORTH.



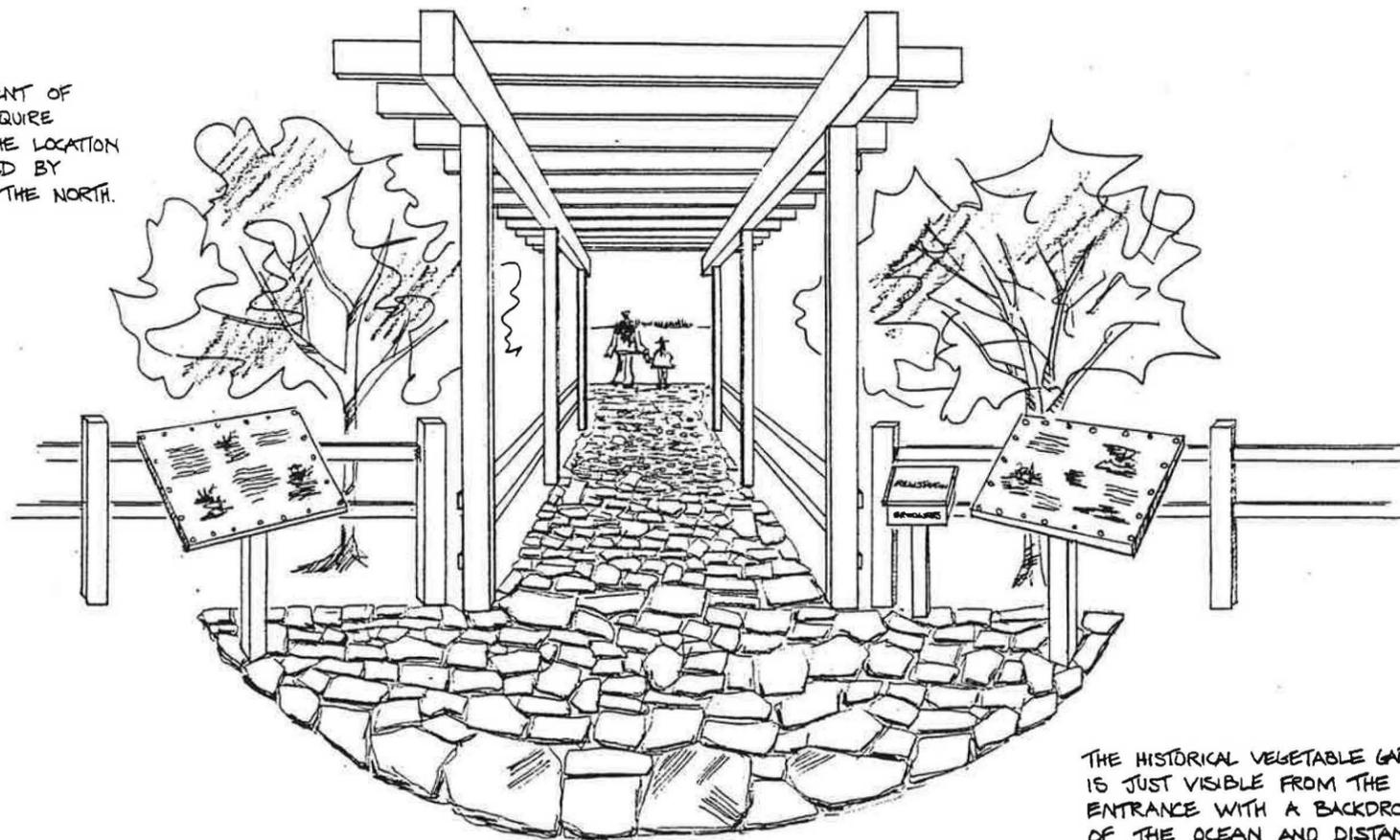
THE PERGOLA IS IN A LINE ROTATED 110° OF FIRE LANE GATE TO FOCUS ENTRANCE VIEWS ON THE GARDEN GROUNDS INSTEAD OF HOUSE AND SHED.

DESIGN FEATURES:

- 7.0' WIDE, 8.5' HIGH, 18' LONG AT POSTS
- 6" x 6" POSTS, 4" x 8" BEAMS
- 2" x 8" GRID MEMBERS, 19" O.C.
- CONCRETE FOOTINGS WITH METAL SADDLE ANCHOR

PLAN VIEW

THE PRIMARY VIEW IS OUT AND ACROSS OPEN LAWN, BORDERED BY GARDENS, AND TOWARDS THE VEGETABLE GARDEN. VISITORS ARE REMINDED THAT PEOPLE/FAMILIES LIVED, SUBSISTED, AND WORKED IN THIS "GARDEN ON THE EDGE OF THE WILDERNESS."



THE HISTORICAL VEGETABLE GARDEN IS JUST VISIBLE FROM THE ENTRANCE WITH A BACKDROP OF THE OCEAN AND DISTANT MOUNTAINS.

THE ENTRANCE PERGOLA IS STRUCTURALLY STRONG AND OPEN TO CREATE A WARM AND GENEROUS WELCOME. VISITORS ARE GREETED WITH REGISTRATION, BROCHURES, AND INTERPRETIVE SIGNS WHICH HIGHLIGHT THE GARDEN HISTORY. A BROCHURE WILL PRESENT AN ANNOTATED MAP OF FEATURES AND GARDENS.

UPON ENTERING THE PERGOLA, VISITORS ARE LED TOWARD THE GARDEN BY CURIOSITY AND THEIR SENSES. A STONE WALK PASSES UNDER THE FILTERED LIGHT OF THE PERGOLA, BORDERED WITH CLIMBING VINES AND COLORFUL, AROMATIC FLOWERS. THE PERGOLA OPENS TO A BRIGHT WELCOMING PATIO WHICH PRESENTS THE GARDEN GROUNDS... A PLACE TO TAKE IN THE SCENE BEFORE CHOOSING AMONG GARDEN DESTINATIONS.

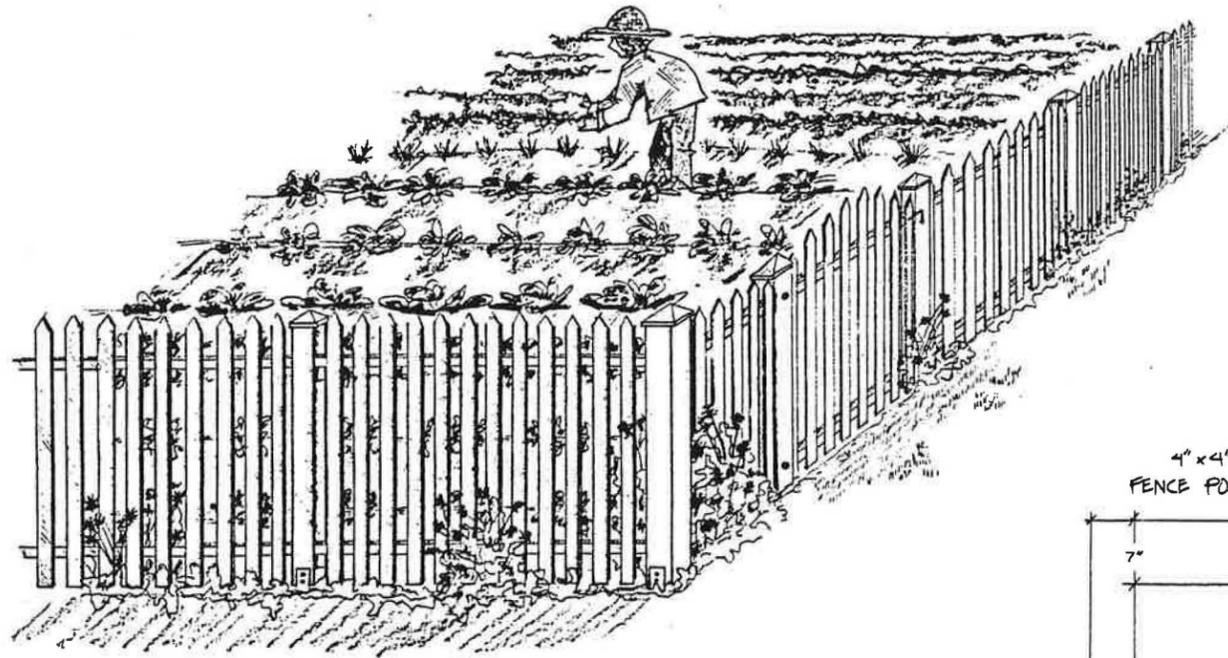
CONSTRUCTION DETAILS PERGOLA ENTRANCE / CONCEPT

JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS

JUNEAU, ALASKA

JUNE 2001



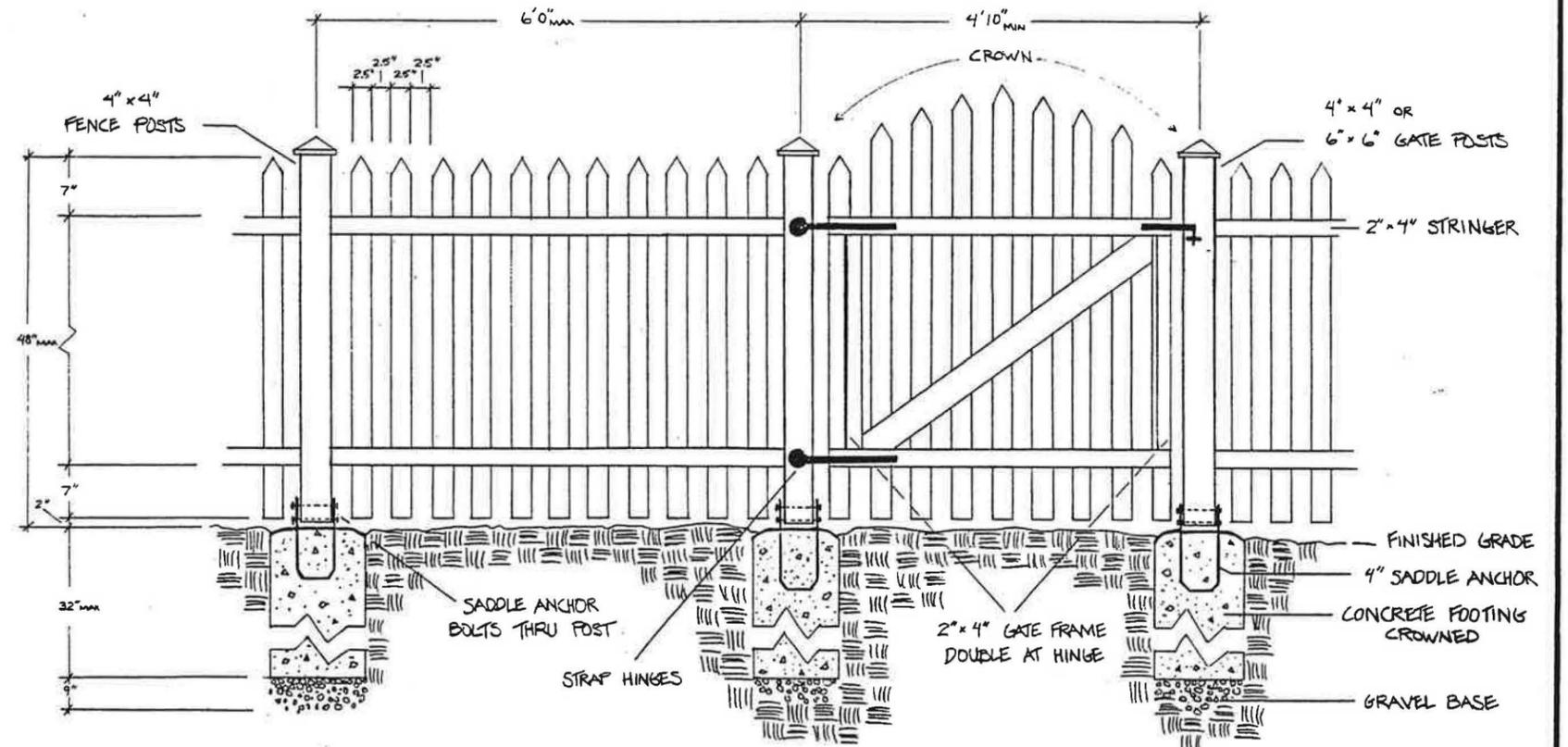
DESIGN FEATURES:

- TWO GATES - UPPER AND LOWER
- GATE OPEN INTO GARDEN
- GATE FRAMED AND CROSS-BRACED
- 4" x 4" FENCE / 4" x 4" OR 6" x 6" GATE POSTS
- POSTS PRESSURE-TREATED
- 1" x 2.5" OR 1" x 3" CEDAR PICKETS
- PICKET HEIGHT CROWNED AT GATE
- ALL HARDWARE HOT-DIPPED GALVANIZED
- PICKETS WITH UNIFORM SPACING
- STRINGERS BRACKETED TO POSTS

DESIGN NOTES:

- NOT SHOWN IN DETAIL, WIRE MESH TACKED TO AND HUNG FROM BOTTOM STRINGER AND BURIED BELOW GROUND
- FOR SAFE WALKING, PATHS INSIDE FENCE - BETWEEN AND AROUND PLANTING ROWS - ARE EITHER LEVELED AND WIDENED OR ARE LAYED IN WITH MOVEABLE, AGGREGATE ROCK-EMBEDDED CONCRETE BLOCKS

FENCE/GATE CROSS-SECTION

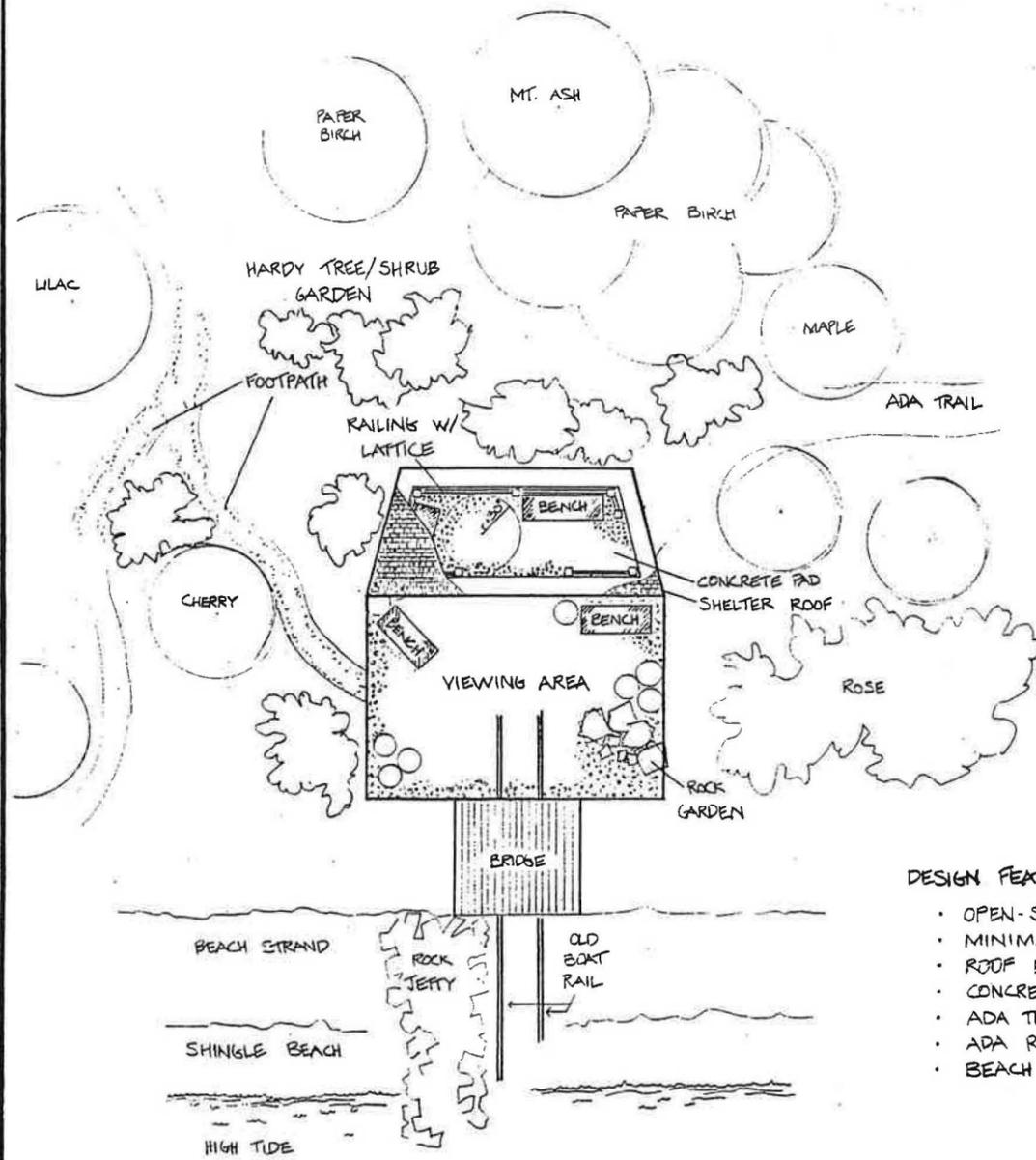


A PICKET FENCE SURROUNDING THE VEGETABLE GARDEN HIGHLIGHTS IT AS A MAJOR HORTICULTURAL AND HISTORICAL FEATURE OF THE ARBORETUM. THE FENCE IS FUNCTIONAL AND SOMEWHAT FORMAL TO COMPLEMENT THE STYLE OF THE HOUSE. THE EXTRA-WIDE GATE ALLOWS EASY PEOPLE-ACCESS BUT THE PICKET HEIGHT AND SPACING EXCLUDES SMALL HERBIVORES FROM ENTERING THE GARDEN. THE BROWSING AND GRAZING MAMMALS OF CONCERN ARE MARMOTS AND PORCUPINES.

CONSTRUCTION DETAILS GARDEN FENCE/GATE
 JENSEN-OLSON ARBORETUM
 J. L. SHERBURNE LANDSCAPE DESIGNS
 JUNEAU, ALASKA
 JUNE 2001

NOT TO SCALE

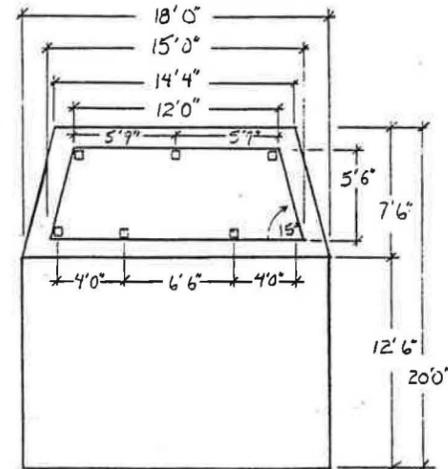
PLAN VIEW - GARDEN SETTING



SCALE IS 1"=5'

THE VIEWING AREA AND SHELTER ARE SURROUNDED BY GARDENS, PROVIDING FILTERED VIEWS TO THE VEGETABLE AND ANNUAL GARDENS AND A SWEEPING VIEW TO PEARL HARBOR AND BEYOND. IT IS ON THE SITE OF THE OLD BOAT SHED AND THE IRON RAIL USED FOR LAUNCHING DOWN THE BEACH IS VISIBLE AS AN HISTORICAL REMINDER. A BEACH GRAVEL SUBSTRATE FURTHER MAINTAINS THE CONNECTION BETWEEN LAND AND OCEAN.

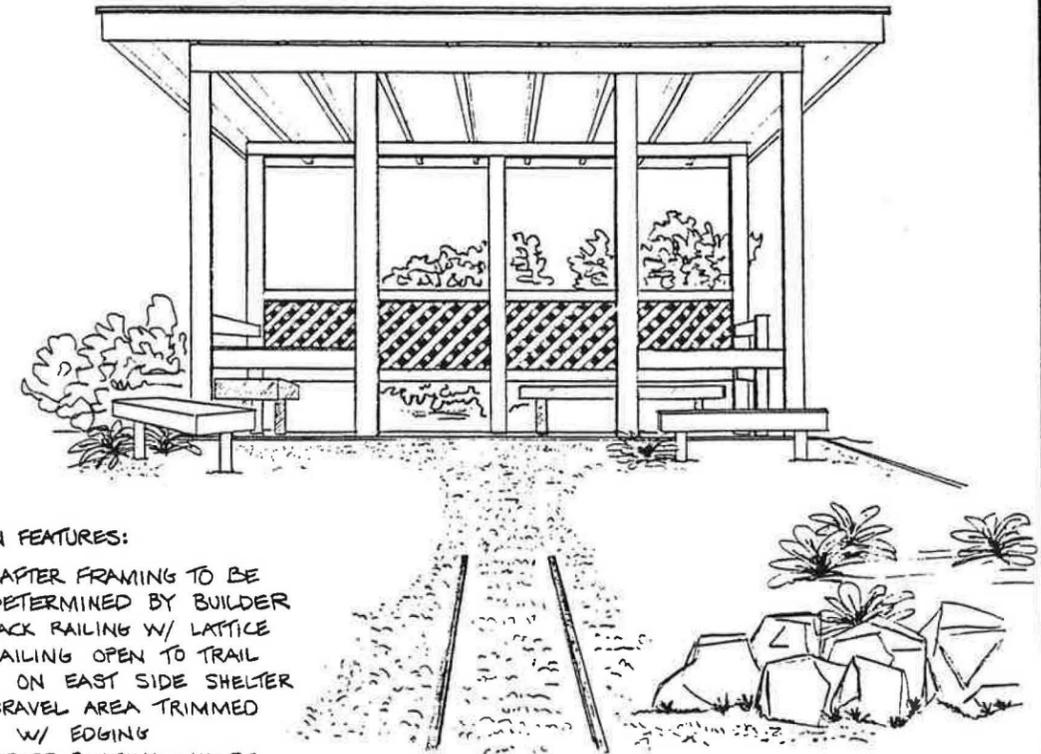
LAYOUT - VIEWING AREA



ALL DIMENSIONS APPROXIMATE

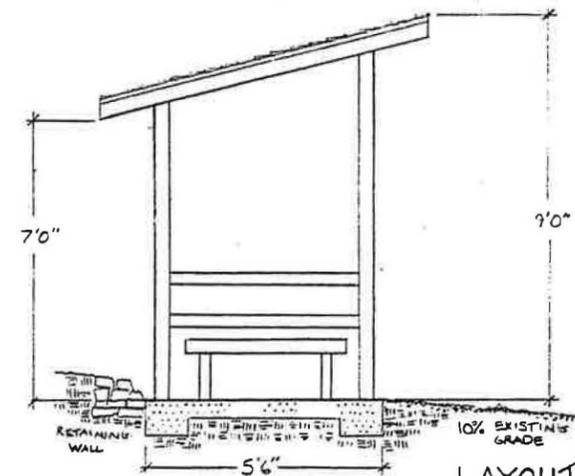
DESIGN FEATURES:

- OPEN-SIDED SHELTER W/ AGGREGATE-EMBEDDED CONCRETE FLOOR
- MINIMAL FLOOR AREA GRADING - EXISTING GRADE ELSEWHERE
- ROOF EXTENDS BEYOND CONCRETE PERIMETER BY 1'0" MINIMUM
- CONCRETE FLOOR LEADING EDGE FLUSH W/ OPEN VIEWING AREA
- ADA TRAIL MEETS FLUSH W/ CONCRETE FLOOR
- ADA RECOMMENDED SPATIAL DIMENSIONS FOR WHEELCHAIR
- BEACH GRAVEL SUBSTRATE FOR OPEN VIEWING AREA



DESIGN FEATURES:

- RAFTER FRAMING TO BE DETERMINED BY BUILDER
- BACK RAILING W/ LATTICE
- RAILING OPEN TO TRAIL ON EAST SIDE SHELTER
- GRAVEL AREA TRIMMED W/ EDGING
- CROSS-BRACING MAY BE REQUIRED BACK TO FRONT



DESIGN FEATURES:

- SHED ROOF
- 6" x 6" POSTS
- TRIPLE BACK RAILING
• 4'0", 3'0" & 2'0" HIGH
- DOUBLE SIDE RAILING
• 3'0" & 2'0" HIGH
- SINGLE FRONT RAILING
• 2'0" HIGH
- REINFORCED CONCRETE PAD
- ASPHALT SHINGLES
- CEDAR BENCH TOP/17" HIGH
- GALVANIZED STEEL BENCH LEGS

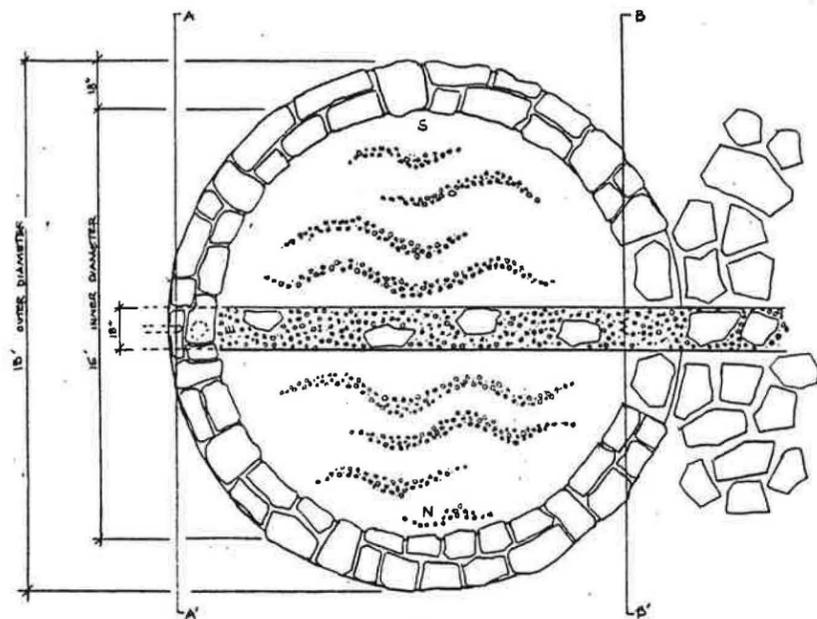
LAYOUT-SECTION

SCALE IS 1"=2'

CONSTRUCTION DETAILS VIEW/OBSERVATION AREA CONCEPT

JENSEN-OLSON ARBORETUM

J.L. SHERBURNE LANDSCAPE DESIGNS
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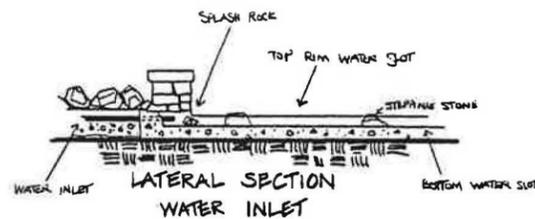


PLAN VIEW - w/ MORTARED STONE CAP

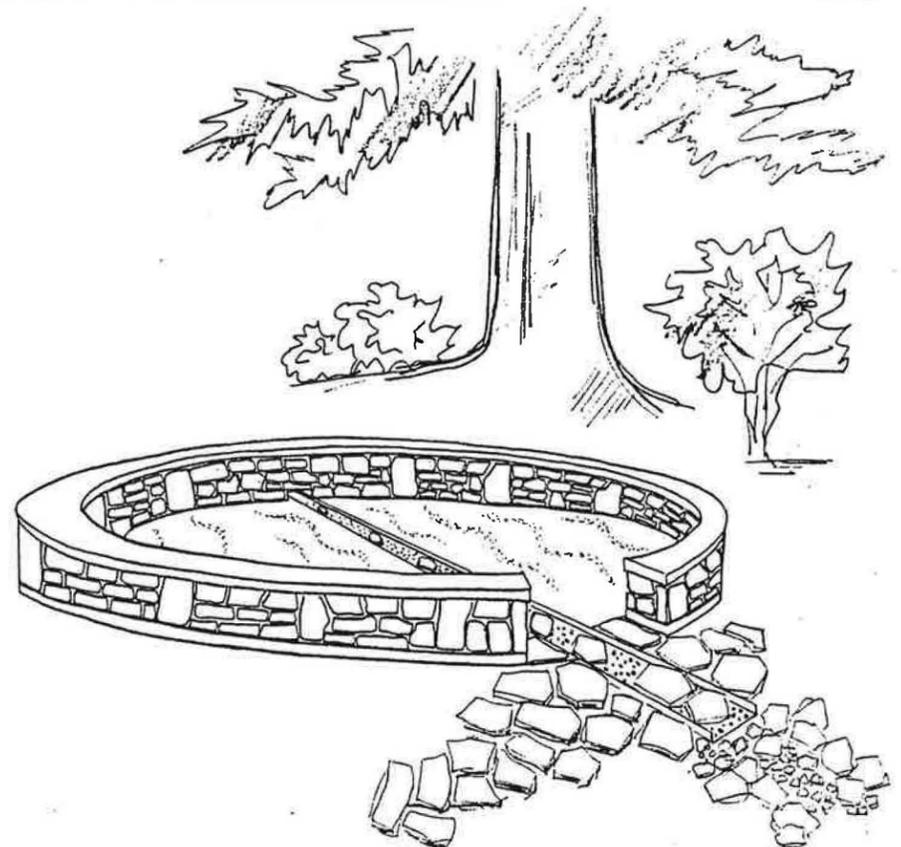
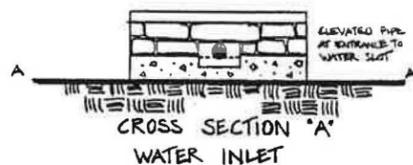
DESIGN FEATURES:

- CONCRETE SLAB FOUNDATION 9" DEEP
- SITTING WALL CAPPED WITH STONE OR CONCRETE
- STONE WALL 18" HIGH
- EMBEDDED DESIGN ON CONCRETE SLAB
- INNER DIAMETER 15' OUTER DIAMETER 18'
- SITTING CAPACITY 20-27 PEOPLE
- ENTRANCE GAP 6' WIDE
- WATER SLOT RECESSED INTO SLAB
- WATER SLOT 18" WIDE / 4" DEEP
- STEPPING STONE IN WATER
- STONE EMBEDDED IN WATER SLOT
- COVERED PIPE EMPTIES 4" ABOVE WATER SLOT
- PIPE DELIVERS WATER FROM ROAD CULVERT
- SHRUBS/TREES THINNED OR CLEARED TO WEST
- NATIVE PLANTINGS ALONG INTERPRETIVE TRAIL
- BRASS COMPASS POINTS EMBEDDED IN SLAB

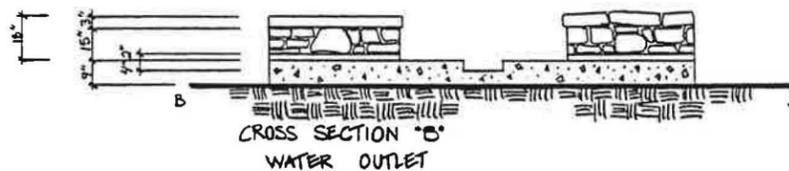
THE STEPPING STONES OFFER ANOTHER WAY TO CROSS THE NARROW SLOT THAN STEPPING FROM ONE SIDE TO THE OTHER.



AN ELEVATED PIPE DELIVERS WATER THAT DROPS AND PASSES A SPLASH ROCK TO PRODUCE THE SOUND OF RUNNING WATER.



PERSPECTIVE - w/ CONCRETE CAP



A SMALL STREAM THAT EMPTIES FROM A CULVERT IS TAPPED AND WATER CONTROLLED TO DIRECT A FINITE STREAM OF WATER TO, AND THE REST OF THE WATER AWAY FROM, THE LEARNING CIRCLE.

DESIGN/ENGINEERING FEATURES:

- CONCRETE SLAB SUPPORTS STONE SITTING WALL
- 1% SLAB SLOPE TOWARDS WATER SLOT
- SEAMS BETWEEN CONCRETE POURS
- SLAB REINFORCED WITH REBAR
- CATCHMENT OVERFLOW SYSTEM AT CULVERT
- WATER DELIVERY FROM CULVERT TO WATER SLOT
- WATER EXITS SLOT TOWARD BEACH
- WATER VOLUME VALVE CONTROLLED

AN ARBORETUM IS AN "INSTITUTION" OF LEARNING. THE OUTDOOR SETTING STIMULATES THE MIND, ENGAGES THE SENSES, AND INSPIRES THE IMAGINATION, DEEPENING THE LEARNING EXPERIENCE. THE GARDEN IS NEUTRAL TO THE LEARNER AND AN ESPECIALLY APT PLACE FOR CHILDREN TO TAKE ON THE CHALLENGES AND WONDERS OF THE PLANT SCIENCES.

"THE GARDEN IS A SAFE PLACE, A BENEVOLENT SETTING, WHERE EVERYONE IS WELCOME ... NON-JUDGEMENTAL, NON-THREATENING. THUS, IN A GARDEN ONE CAN TAKE THE FIRST STEPS TOWARDS SELF-CONFIDENCE."

CHARLES LEWIS

CONSTRUCTION DETAILS LEARNING CIRCLE / CONCEPT

JENSEN-OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS

JUNEAU, ALASKA

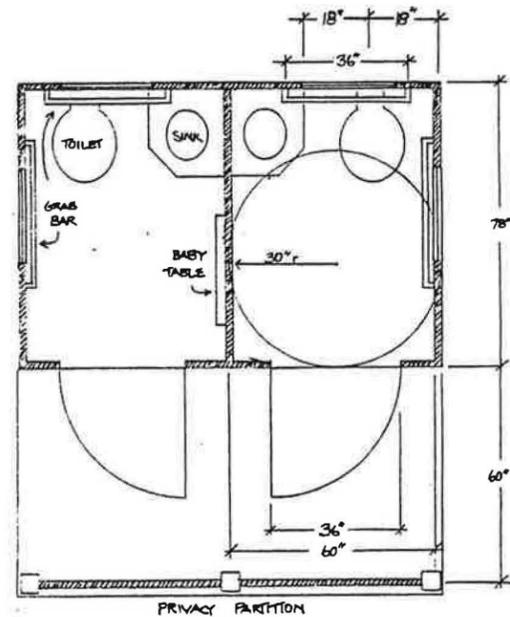
JUNE 2001

TWO STALLS, INSTEAD OF ONE, WILL BETTER MEET THE USE ASSOCIATED WITH LARGE EVENTS AND FUNCTIONS. STALL DIMENSIONS ARE BASED ON AMERICANS WITH DISABILITIES ACT AND CITY AND BOROUGH OF JUNEAU RECOMMENDATIONS.

DESIGN FEATURES:

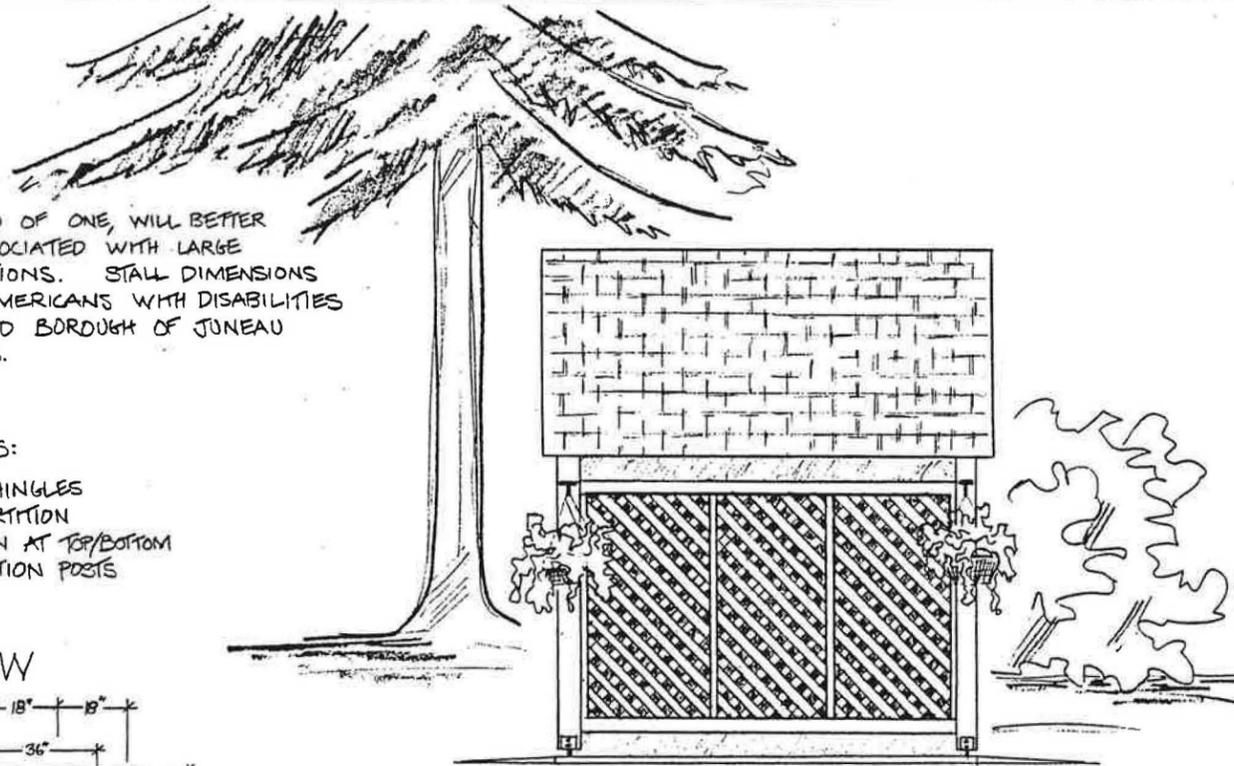
- ASPHALT SHINGLES
- PRIVACY PARTITION
- LATTICE OPEN AT TOP/BOTTOM
- 6" x 6" PARTITION POSTS

PLAN VIEW



DESIGN FEATURES:

- 30" TURNING RADIUS FOR ENTRY/STALL
- 36" DOOR WIDTH
- 42" SIDE GRAB BAR/36" REAR GRAB BAR
- 18" SPACE ON BOTH SIDES TOILET
- DIMENSIONS FOR EITHER COMPOST OR CHEMICAL PUMP TYPE TOILET



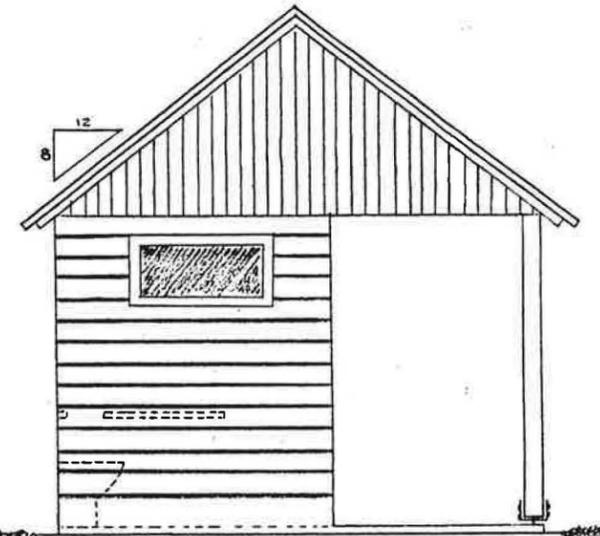
FRONT ELEVATION

THE BUILDING IS LOCATED NEAR THE ENTRANCE FOR CONVENIENCE AND CLEAR, UNOBTRUSIVE VISIBILITY. NEARNESS TO THE DRIVEWAY TURN-AROUND FACILITATES PUMPING OF A HOLDING TANK (OPTIONAL).

THE OUTDOOR TOILET BUILDING ARCHITECTURE IS CONSISTENT WITH THE HOUSE AND OUTBUILDINGS: CONVENTIONAL ROOF DESIGN, SHIPLAP SIDING (HORIZONTAL), AND TONGUE AND GROOVE SIDING (VERTICAL) ON THE GABLE END.

DESIGN FEATURES:

- ROOF SLOPE 6/12 TO 8/12
- CONCRETE BUILDING PAD
- SHIPLAP SIDING/TONGUE AND GROOVE GABLE
- 7' HIGH WALL
- GRAVEL DRIP ZONE/DRAIN BELOW EAVE



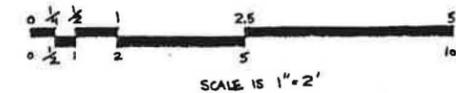
SIDE ELEVATION

DESIGN FEATURES:

- WINDOWS FOR NATURAL LIGHT
- TWO WINDOWS PER STALL
- TOILET 18" HIGH/GRAB BARS 34" HIGH
- SADDLE ANCHOR SUPPORTS PARTITION POSTS

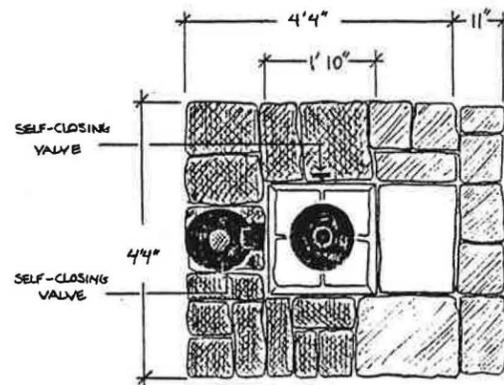
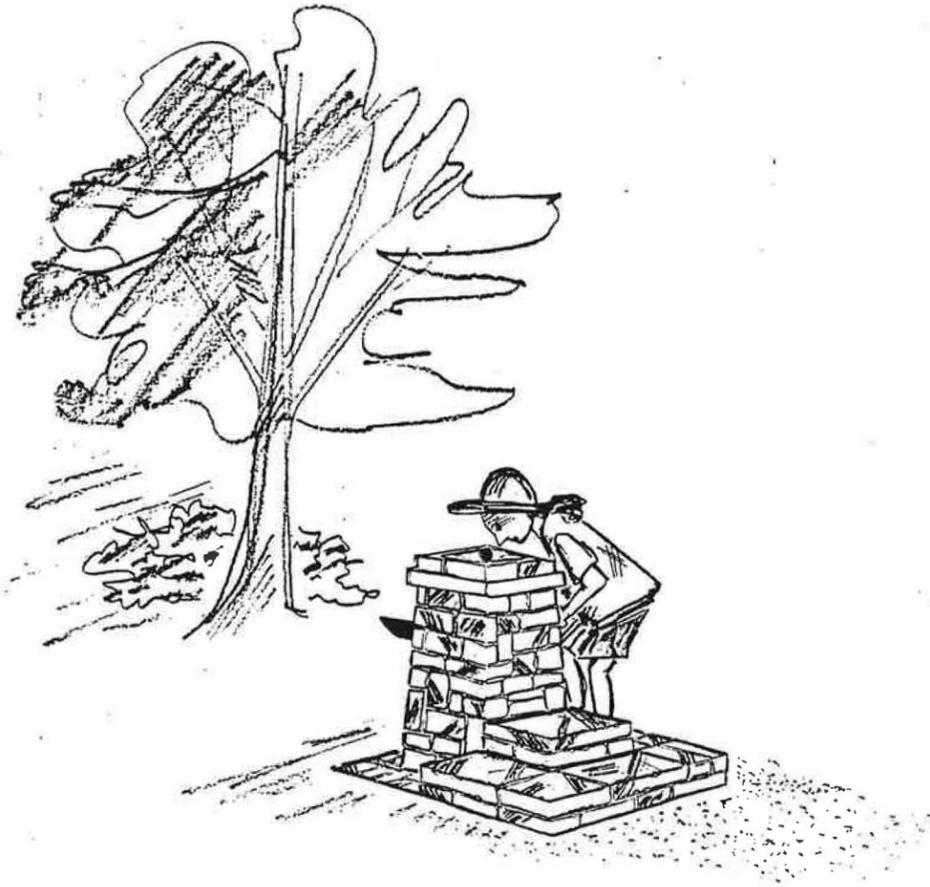
CONSTRUCTION DETAILS OUTDOOR TOILET / CONCEPT

JENSEN - OLSON ARBORETUM
 J. L. SHERBURNE LANDSCAPE DESIGNS
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 JUNE 2001



ACCESSIBILITY IS DESIGNED FOR ALL AGES AND CAPABILITIES AND IS CONSISTENT WITH THE AMERICANS WITH DISABILITIES ACT RECOMMENDATIONS FOR DEPTH AND HEIGHT.

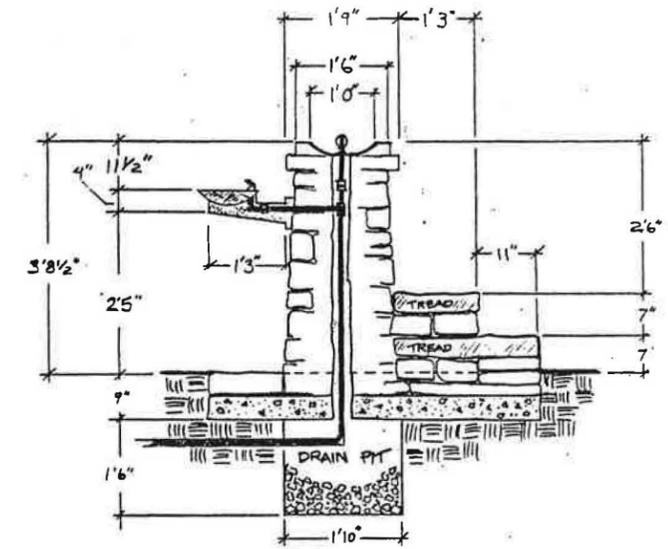
BROAD, SHALLOW STEPS ALLOW SAFE AND EASY ACCESS BY CHILDREN.



PLAN VIEW

- STONE AT GRADE
- FIRST STEP - 7" HEIGHT
- SECOND STEP - 14" HEIGHT

STONE CONSTRUCTED DRINKING FOUNTAIN PROVIDES A PUBLIC WATER SOURCE ON THE GARDEN GROUNDS. CENTRALLY LOCATED, IT VISUALLY COMPLEMENTS THE THEME OF BEACH STONEMWORK THAT ACCENTS THE GARDEN THROUGHOUT IN THE FORM OF STEPS, RAMPED STEPS, AND SITTING WALL.



CROSS-SECTION

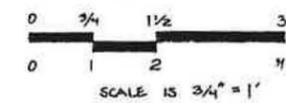
DESIGN FEATURES:

- MORTARED BEACH STONE
- DOUBLE FOUNTAIN FOR UNIVERSAL ACCESS
- UPWARD TAPER FROM 1'10" AT BASE TO 1'6" AT TOP RIM
- INTERNAL DRAIN
- SUBSURFACE DRAIN PIT
- CONCRETE PAD
- WINTER SHUT OFF/DRAIN VALVE AT HOUSE

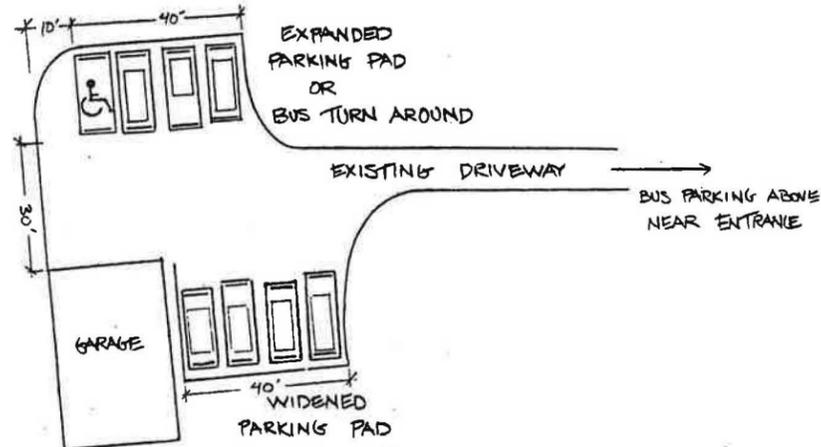
CONSTRUCTION DETAILS WATER FOUNTAIN

JENSEN-OLSON ARBORETUM

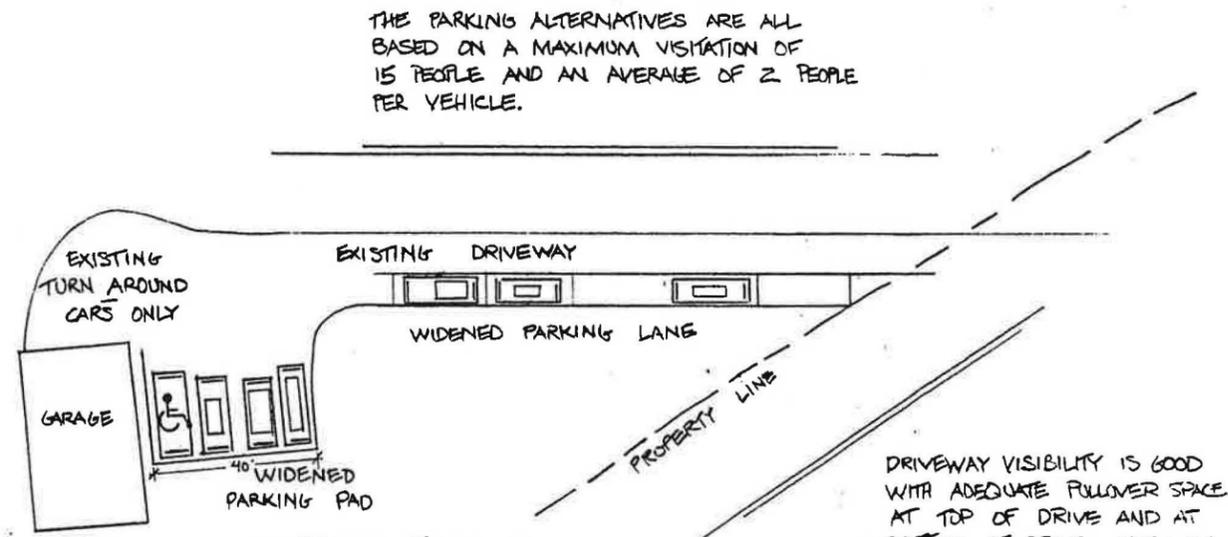
J. L. SHERBURNE LANDSCAPE DESIGNS
 JUNEAU, ALASKA
 JUNE 2001



UNDER ALL ALTERNATIVES BUS PARKING, FOR SPECIAL EVENTS AND FIELD TRIPS, WILL BE AT THE TOP OF THE DRIVEWAY ON THE OLD ROAD BED. BUS TURN AROUND ONLY WILL BE AVAILABLE AT FOOT OF DRIVE FOR VISITOR DROP-OFF NEAR GARDEN ENTRANCE.



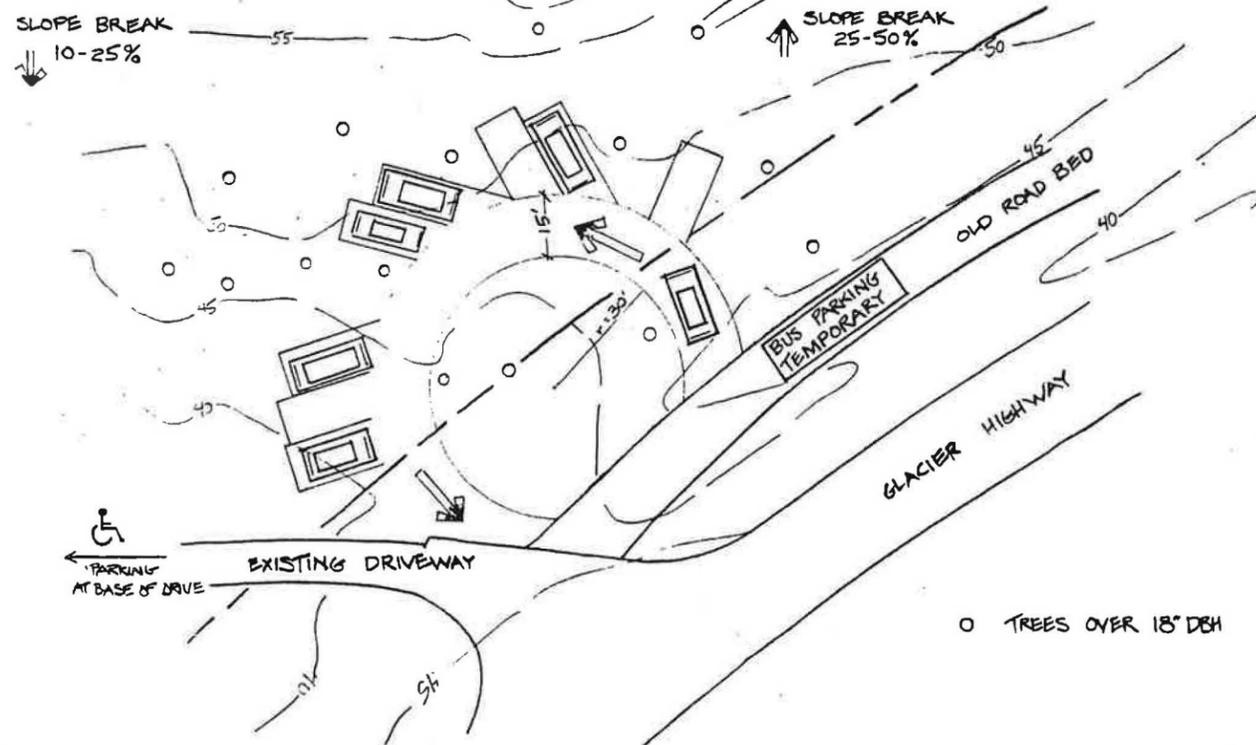
ALTERNATIVE A



ALTERNATIVE B

THE PARKING ALTERNATIVES ARE ALL BASED ON A MAXIMUM VISITATION OF 15 PEOPLE AND AN AVERAGE OF 2 PEOPLE PER VEHICLE.

DRIVEWAY VISIBILITY IS GOOD WITH ADEQUATE FULLOVER SPACE AT TOP OF DRIVE AND AT BOTTOM OF DRIVE. ONE-WAY ACCESS FOR VEHICLES IS SAFE AND FUNCTIONAL FOR ALL THE ALTERNATIVES FOR PARKING.



ALTERNATIVE C

ADVANTAGES

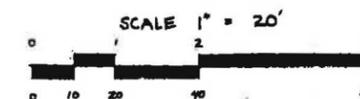
- MINIMAL FILL REQUIRED
 - 8 PARKING SPACES INCLUDING ADA
 - NO THREAT TO VEGETATION/THERMAL BUFFER
 - PARKING NOT VISIBLE FROM ROAD
 - BUS PARKING ISOLATED FROM ENTRANCE
 - BUS TURN AROUND/DROP OFF NEAR ENTRANCE
 - SAFE WINTER PEDESTRIAN ACCESS
 - LOWEST COST
 - MINIMAL DISTURBANCE
- A**
- LIMITED FILL REQUIRED
 - 9 PARKING SPACES INCLUDING ADA
 - MODEST THREAT TO VEG/THERMAL BUFFER
 - PARKING MINIMALLY VISIBLE FROM ROAD
 - BUS PARKING ISOLATED FROM ENTRANCE
 - MODERATE COST
 - LOW LEVEL OF DISTURBANCE
- B**
- 8 PARKING SPACES INCLUDING ADA
 - ENTRANCE NOT ASSOCIATED W/ PARKING
 - PLEASANT APPROACH VIA FOREST
- C**

DISADVANTAGES

- PARKING IS CLUSTERED AT ENTRANCE
 - ENTRANCE EXPERIENCE DIMINISHED
 - SOME LOSS OF EXISTING GARDENS
 - HIGH DENSITY PARKING IS UNATTRACTIVE
 - HIGH DENSITY PARKING AT ENTRANCE IS UNSAFE FOR PEDESTRIANS/CHILDREN
- A**
- WIDENED DRIVEWAY MORE OPEN TO COLD
 - CULVERTS REQUIRED ADJACENT TO DRIVE
 - PARKING NEAR ENTRANCE
 - DIMINISHED EXPERIENCE AT ENTRANCE
 - WINTER ICING ON DRIVE - UNSAFE WALKING
 - NO BUS TURN AROUND/DROP OFF AT ENTRANCE
- B**
- DAMAGE TO VEG/THERMAL PROTECTION
 - SIGNIFICANT GROUND PREP/FILL REQUIRED
 - HIGH RISK FROM SOIL/SLOPE DISTURBANCE
 - HIGHEST COST
 - SIGNIFICANT NUMBER OF TREES CUT
- C**

ALTERNATIVES

LAYOUT PLANS PARKING ALTERNATIVES
 JENSEN-OLSON ARBORETUM
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PARKING CAPACITY IS DESIGNED FOR "LIGHT USE;" OR APPROXIMATELY 15 VISITORS, AT ONE TIME AND AN AVERAGE OF 2 PEOPLE PER VEHICLE.

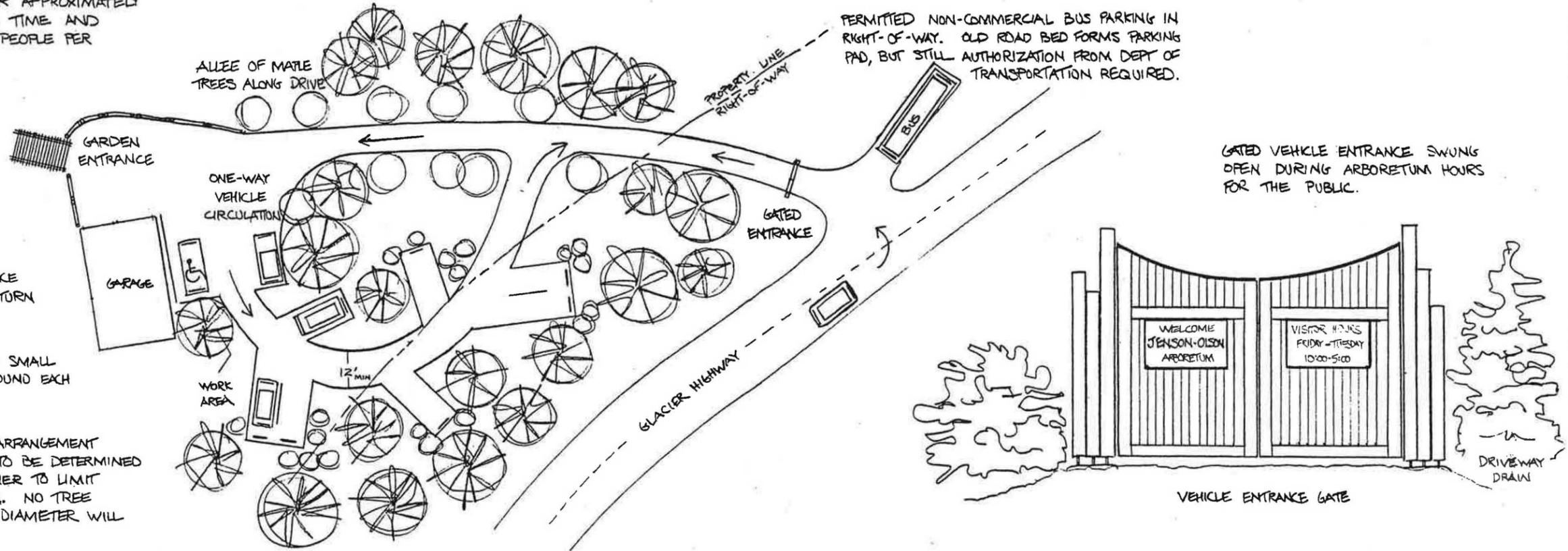
ALLEE OF MAPLE TREES ALONG DRIVE

PERMITTED NON-COMMERCIAL BUS PARKING IN RIGHT-OF-WAY. OLD ROAD BED FORMS PARKING PAD, BUT STILL AUTHORIZATION FROM DEPT OF TRANSPORTATION REQUIRED.

LOWER DRIVEWAY SPACE SUFFICIENT FOR BUS TURN AROUND.

NATIVE SHRUBS AND SMALL TREES PLANTED AROUND EACH PARKING SPACE.

FINAL LAYOUT AND ARRANGEMENT OF PARKING SPACES TO BE DETERMINED ON-SITE IN A MANNER TO LIMIT LOSS OF VEGETATION. NO TREE GREATER THAN 6" DIAMETER WILL BE REMOVED/CUT.



GATED VEHICLE ENTRANCE SWUNG OPEN DURING ARBORETUM HOURS FOR THE PUBLIC.

ADVANTAGES

- INTEGRATED INTO FOREST - VISUALLY APPEALING
- 9+ PARKING SPACES INCLUDING ADA SPACE
- PARKING AREA NOT HIGHLY EXPOSED TO ROAD - SAFETY
- PARKING AREA NEAR WORK AREA - SECURITY
- NO CUTTING OF LARGE BUFFER TREES
- VEHICLES DO NOT DOMINATE ENTRANCE - AESTHETIC
- SAFE WINTER PEDESTRIAN ACCESS
- PEDESTRIAN - VEHICLE CONGESTION IS LOW
- NO RISK TO SOIL/SLOPE DISTURBANCE

THE VEHICLE APPROACH AND PARKING AREA ARE SIGNIFICANT ARBORETUM FEATURES THAT NEED TO FUNCTIONALLY AND AESTHETICALLY FIT THEIR PURPOSES. WITH CARE TAKEN IN ROUTING, A DRIVE-THROUGH PARKING AREA WILL PENETRATE BUT NOT DISTURB THE FOREST. THE FOREST SETTING IS A PRELUDE TO THE GARDEN AND MAINTAINS THE GARDEN ENTRANCE AS OPEN, SAFE, AND WELCOMING TO VISITORS.

DISADVANTAGES

- WET AREA REQUIRES FILL AND CULVERTS
- RELATIVELY MODERATE-HIGH COSTS
- SOME LIMITED CUTTING OF TREES LESS THAN 6" DIA.
- ROAD BED CONSTRUCTION
- EXPANSION OF PARKING LOT INTO HIGHWAY R.O.W. REQUIRES AUTHORIZATION WITH STATE.



LAYOUT PLANS PREFERRED PARKING ARRANGEMENT

JENSEN-OLSON ARBORETUM

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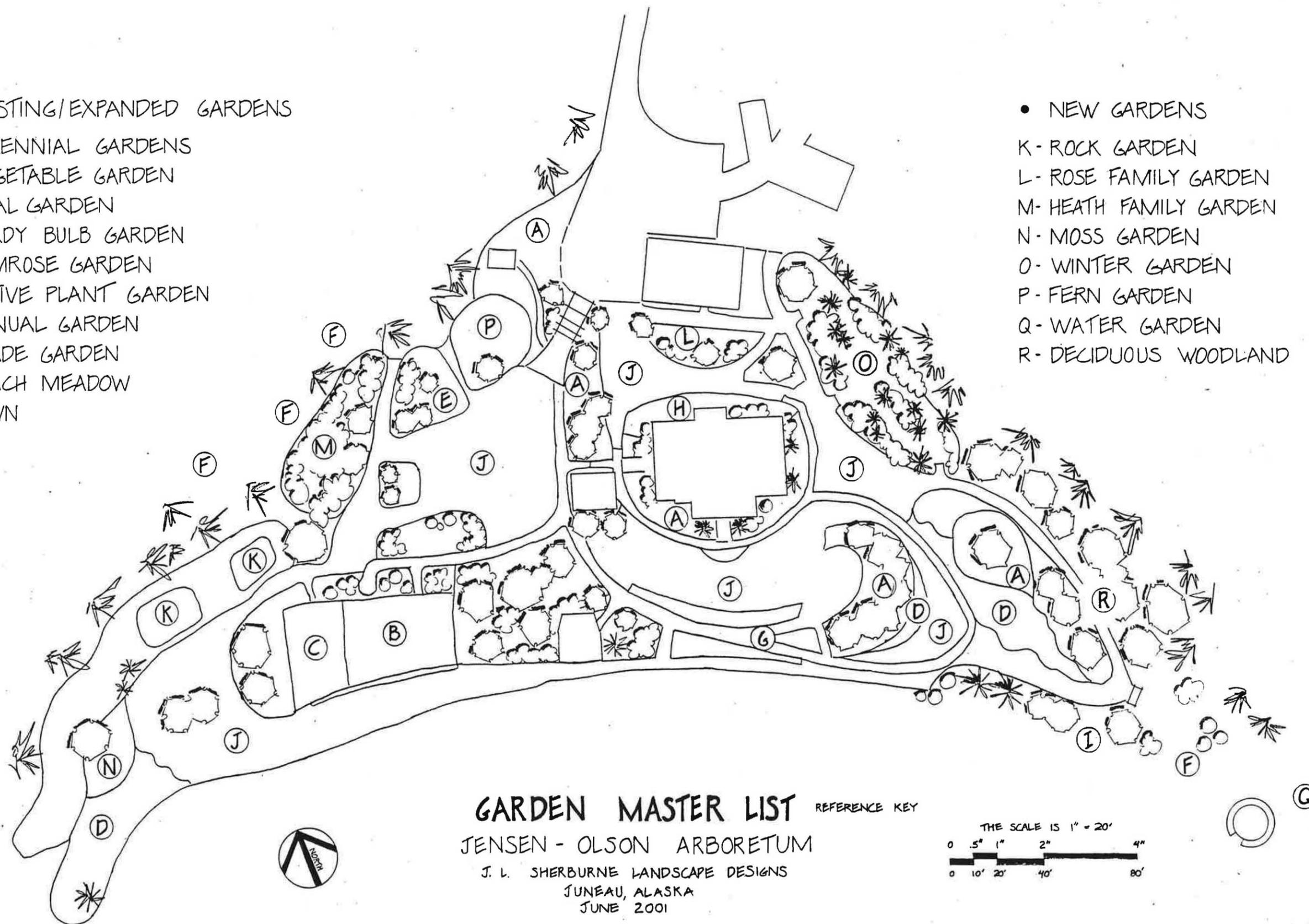
NOT TO SCALE

• EXISTING/EXPANDED GARDENS

- A- PERENNIAL GARDENS
- B- VEGETABLE GARDEN
- C- TRIAL GARDEN
- D- HARDY BULB GARDEN
- E- PRIMROSE GARDEN
- F- NATIVE PLANT GARDEN
- G- ANNUAL GARDEN
- H- SHADE GARDEN
- I- BEACH MEADOW
- J- LAWN

• NEW GARDENS

- K- ROCK GARDEN
- L- ROSE FAMILY GARDEN
- M- HEATH FAMILY GARDEN
- N- MOSS GARDEN
- O- WINTER GARDEN
- P- FERN GARDEN
- Q- WATER GARDEN
- R- DECIDUOUS WOODLAND



GARDEN MASTER LIST REFERENCE KEY

JENSEN - OLSON ARBORETUM

J. L. SHERBURNE LANDSCAPE DESIGNS
 JUNEAU, ALASKA
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THE SCALE IS 1" = 20'
 0 .5" 1" 2" 4"
 0 10' 20' 40' 80'

• INTRODUCTION •

THE JENSEN-OLSON ARBORETUM PRESERVES THE KNOWLEDGE OF THE SITE BY EMPHASIZING KEY GARDEN AND GROUNDS FEATURES, SUCH AS THE VEGETABLE GARDEN, PRIMROSES, BULBS, EXPANSES OF LAWN, AND THE BACKDROP OF FOREST. IT IS COMPRISED OF THE 18 EXISTING OR NEW GARDEN TYPES DESCRIBED BELOW. EACH GARDEN TYPE IS FORMALLY DESIGNATED AND SPECIES LABELED. A LIST OF POTENTIAL SPECIES AND VARIETIES FOR EACH GARDEN TYPE IS IN THE PLANT LIST SUPPLEMENT TO THE MASTER PLAN.

PERENNIAL GARDEN

LIMITLESS IN VARIETY OF COLOR, HEIGHT, AND FORM, COMBINATIONS OF PERENNIALS WILL BLOOM FROM EARLY SPRING THROUGH THE FIRST FROST OF FALL. THE PULSES OF PEAK BLOOM TIMES CREATE A SEASONALLY DYNAMIC LANDSCAPE AND COUNTLESS GARDEN DESIGN OPPORTUNITIES. AS LONG AS THE SOIL IS WELL-DRAINED, PERENNIALS ARE FAIRLY ADAPTABLE TO SOIL TYPE AND PH. [EXPANDED]

VEGETABLE GARDEN

OF HISTORICAL SIGNIFICANCE, THE VEGETABLE GARDEN SITE IS AS OLD AS THE ORIGINAL HOMESTEAD. BUILT ON A RAISED BEACH OVER SHALLOW BEDROCK, ITS RICH, LOAMY SOIL HAS BEEN BUILT UP OVER THE CENTURY AND ENRICHED BY COMPOST AND BEACH KELP COLLECTED FROM THE SHORES OF PEARL HARBOR. ALWAYS A SUBSISTENCE GARDEN, IN THE EARLY 1900'S IT WAS ALSO A COMMERCIAL GARDEN WITH PRODUCE TRANSPORTED BY SMALL BOAT TO JUNEAU MARKETS. [EXISTING]

TRIAL GARDEN

AN EXPERIMENTAL AREA, NEW FLOWER SPECIES AND PRODUCE VARIETIES ARE TESTED FOR THEIR SURVIVORSHIP, ADAPTABILITY, WEEDINESS, AND YIELD IN THE FERTILE SOIL WITHIN THE FENCED GARDEN. [EXISTING]

HARDY BULB GARDEN

THE FIRST HARBINGER OF SPRING ARE BORNE OUT OF OUR NORTHERN GARDENS BY THE COLORFUL AND GAY BULBOUS PLANTS. BULBS IN THIS GROUP GENERALLY REFER TO TRUE BULBS, CORMS, RHIZOMES, AND TUBEROUS SPECIES. WHETHER IN FORMAL BEDS AND BORDERS OR NATURALIZED PLANTINGS NEAR THE MARGIN OF A LAWN OR UNDER A WOODLAND CANOPY, THEY ARE WELCOME ADDITIONS TO A GARDEN. MANY DIE BACK EARLY TO MAKE WAY FOR EMERGING AND CHANGING GARDEN DESIGN. [EXPANDED]

ANNUAL GARDEN

THE EVOLUTIONARY WORKHORSES OF THE GARDEN, THE LIFE CYCLE OF ANNUALS ARE COMPLETED IN A SINGLE YEAR: GERMINATION, GROWTH, BLOOM, SEED SET, AND DEATH. WITH INTENSE BLOOMING ENERGY, THEIR SURVIVAL STRATEGY YIELDS A MASS OF FLOWERS FOR THE NEXT GENERATION OF SEED. FOR THIS REASON, THEY ARE A GARDEN FAVORITE, OFFERING STRONG, LASTING COLOR OF EVERY HUE. EXCELLENT SOIL, POROUS AND FERTILE, IS A REQUIRED FOR SUCCESS WITH ANNUALS. [EXPANDED]

SHADE GARDEN

A SOUTHEAST ALASKA SHADE GARDEN OFFERS LESS A RETREAT FROM THE SUN AND MORE A SPECIAL GARDEN EXPERIENCE THAT WORKS FOR, INSTEAD OF AGAINST, THE CHALLENGES OF FREQUENT CLOUD COVER, LOW LIGHT ANGLES, DEEP SHADOWS, AND COOL SOILS. DESPITE THE FRUSTRATION OF MANY A GARDENER, THERE ARE MANY WOODY AND HERBACEOUS SPECIES THAT TOLERATE AND EVEN THRIVE IN THESE CONDITIONS. THE RESULT CAN BE A GARDEN THAT IS NOT ONLY RESOURCEFUL, BUT INTRIGUING AND SERENE. [EXPANDED]

BEACH MEADOW

ABOVE THE ROCKY SHINGLE BEACH LINING PEARL HARBOR, AMONG THE DRIFTWOOD AT THE FARTHEST REACH OF A WINTER STORM TIDE, THERE IS A NARROW STRIP OF VEGETATION. TOLERANT OF SALT SPRAY AND HIGH WINDS, THIS PLANT COMMUNITY IS TOUGH AND BEAUTIFUL. POISED AT THE OCEAN'S EDGE, IT IS A SPECIAL GARDEN PLACE FOR THOUGHT AND REFLECTION. [EXISTING]

LAWN

THE ROLLING EXPANSE OF LAWN GIVES A BRIGHT AND OPEN FEEL TO THE GARDEN GROUNDS. MAINTAINED BY REGULAR SUMMER MOWING, IT HAS NEVER BEEN SEEDED. A STRUCTURAL TRIM BETWEEN LAWN AND GARDEN BED IS PROPOSED FOR EFFICIENT MOWING THAT HELPS PROTECT OVERHANGING FLOWERS AND INHIBITS THE SPREAD OF GRASS AND OTHER AGGRESSIVE SPECIES INTO THE GARDEN BED. LAWN MOW PATHS TRAVERSE SEVERAL GARDENS. [EXISTING]

PRIMROSE GARDEN

PRIMA VERA MEANS "THE FIRST FLOWER OF SPRING" AND ALONG WITH DAFFODILS AND OTHER EARLY RISERS, PRIMROSES ARE EXCELLENT SPRING FLOWERS FOR COOL, HUMID CONDITIONS. THEY THRIVE IN FILTERED LIGHT, BUT MANY CAN TAKE FULL SUN IN OUR NORTH COASTAL GARDENS. THEIR COLORFUL FLOWERS ABOVE A ROSETTE OF LEAVES MAKE A CONSPICUOUS DISPLAY THAT BRIGHTENS ANY GARDEN EMERGING FROM WINTER DORMANCY. SEVERAL DOZEN VARIETIES COMPRISE THE EXISTING PRIMROSE GARDEN, INCLUDING CAROLINE JENSEN'S OWN PRIMULA JULIAE 'CAROLINE'. [EXISTING]

NATIVE PLANT GARDEN

A NATURAL GARDEN SURROUNDS OUR COMMUNITY BRINGING BEAUTY AND DRAMA INTO OUR BACKYARDS. OFTEN IGNORED AS A GARDEN ASSET, THE SPRUCE-HEMLOCK FOREST WITH ITS SHRUBS, FLOWERS, FERNS, AND MOSSES PROVIDE FOOD AND SHELTER FOR THE WILDLIFE THAT ENRICH OUR LIVES. MANY NATIVE PLANTS ARE NOTEWORTHY FOR THEIR FORM, FLOWER, OR FRUIT AND, DESIGNED TO SUCCEED IN THEIR NATIVE HABITAT, TAKE LITTLE TO NO MAINTENANCE TIME. MANY REGIONAL ENDEMICS ARE CULTIVATED IN THE PACIFIC NORTHWEST, WHILE LOCALLY NATIVE SPECIES CAN BE TRANSPLANTED FROM THE WILD WITH THE PROPER PERMIT. THIS GARDEN TYPE INCLUDES THE RAINFOREST ARBORETUM AND INTERPRETIVE TRAIL. [EXISTING]

GARDEN MASTER LIST JENSEN-OLSON ARBORETUM

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ROCK GARDEN

ALPINE FLOWERS ARE WELL-SUITED TO NORTHERN ROCK GARDENS. ADAPTED TO WIND, COLD, SPARSE ROCKY SOIL, AND A FLEETING GROWING SEASON, THE HARDY AND DIMINUTIVE ALPINES ARE STRIKING AGAINST AN AUSTERE ROCKY LANDSCAPE. VISUAL DIVERSITY IS CREATED BY SELECTION FROM AMONG DWARF TREES AND SHRUBS TO CREEPING SUCCULENTS TO COLORFUL BOUQUETS OF ANNUALS AND PERENNIALS. [NEW]

ROSE FAMILY GARDEN

THE ROSE IS NOT ONLY A BELOVED MEMBER OF MANY ORNAMENTAL GARDENS - HYBRID TEAS, FLORIBUNDAS, GRANDIFLORAS, AND OUR HARDY RUBOSA - BUT THE FAMILY INCLUDES IMPORTANT BERRY PRODUCERS - STRAWBERRIES, SALMONBERRIES, AND RASPBERRIES. WHILE THEIR SIMPLE FLOWERS AND FRUITS SHARE BASIC SIMILARITIES, THEIR FORM VARIES FROM THAT OF THE STOUT, CROWNING APPLE TREE TO THE LEAFY GROUNDCOVER OF NAGOONBERRIES. [NEW]

HEATH FAMILY GARDEN

LEATHERY LEAVES, DECIDUOUS OR EVERGREEN, THE HEATH FAMILY TAKES WELL TO, IF NOT REQUIRES, ACIDIC, WELL-DRAINED SOILS AND COOL, MOIST SUMMERS. DOMINATED BY SHRUBS, THEIR VARIATION IN SIZE, FLOWER COLOR, AND BLOOM TIMES CREATE INTEREST THROUGHOUT THE YEAR. WHETHER A PROFUSION OF TINY, PLUMP BELLS, AS WITH OUR NATIVE MOUNTAIN HEATHER, OR IN ERECT TRUSSES, AS WITH THE RHODODENDRON, THE FLOWERS ARE SHOWY. [NEW]

MOSS GARDEN

THE MOSS GARDEN APPEALS TO THOSE WHO FIND FASCINATION IN THE SMALL, INCONSPICUOUS, IF NOT PRIMITIVE, MEMBERS OF THE PLANT WORLD. MOSSES, ALONG WITH LIVERWORTS, LICHENS, AND CLUB MOSSES AS MOSS GARDEN CO-INHABITANTS, TOGETHER GIVE AN AGED AND MYSTERIOUS QUALITY TO A SITE AS THEY CARPET THE GROUND, CLIMB UP ONLY TO HANG DOWN, AND FILL EVERY NOOK AND CRANNY. RESISTING POORLY-SUITED CONDITIONS, THEY FLOURISH WHERE THEY BELONG. UNCOMMON IN NURSERY CULTIVATION, THIS GARDEN WILL BE CREATED BY THE COLLECTOR. [NEW]

WINTER GARDEN

DOMINATED BY CONIFERS, WINTER GARDENS CAN RANGE WIDELY IN COLOR, TEXTURE, FORM, AND HEIGHT. LEAF COLORS RANGE FROM GOLD AND GREEN TO BLUE AND SILVER WITH HABITS THAT VARY AMONG PROSTRATE, MOUNDING, ERECT, OR WEEPING. DEPENDING ON THE SPECIES, THE FOLIAGE CAN BE SOFT AND FEATHERY TO DENSE AND PRICKLY. THE WINTER GARDEN IS BEST WITH ACCENTS OF OTHER EVERGREENS, DECIDUOUS TREES AND SHRUBS, AND SELECT PERENNIAL PLANTINGS. WITH CAREFUL PLANTING, THE GARDEN PROVIDES INTEREST THROUGHOUT YEAR, INCLUDING OUR LONG WINTER MONTHS. [NEW]

FERN GARDEN

ASIDE FROM THE FERN CRAZE IN VICTORIAN ENGLAND, FERNS HAVE BEEN OVERLOOKED IN GARDENS. WELL-SUITED TO SOUTHEAST CONDITIONS, FERN GARDENS PLACE VISUAL FOCUS ON FORM AND TEXTURE. IN THE WIND, THE RELAXED FRONDS WAVE BACK AND FORTH. FLOWERLESS, THEIR SPORES FORM GEOMETRIC PATTERNS ON THE UNDERSIDE OF FINELY-DIVIDED FRONDS. WADING THROUGH A BED OF FERNS, ONE EXPERIENCES A WIDE AND WONDERFUL ARRAY OF SHADES OF GREEN. THE FERN GARDEN IS ALL ABOUT THE STRENGTH OF SUBTLETY. ONCE ESTABLISHED, HARDY FERNS REQUIRE MINIMUM MAINTENANCE. [NEW]

WATER GARDEN

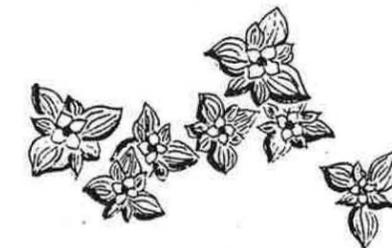
FEW SOUTHEAST GARDENERS TAKE ADVANTAGE OF OUR ABUNDANCE OF FRESH WATER, YET WATER FEATURES ARE THE MOST COMPELLING OF GARDEN ELEMENTS. NORTHERN PONDS AND BOGS SUPPORT HYDROPHYTIC PLANTS WITH INTRIGUING ADAPTATIONS FOR STRUCTURE, NUTRIENT UPTAKE, GAS EXCHANGE, AND SEED DISPERSAL. EVOLUTION HAS RESULTED IN SPECIES WITH BOLD, WAXY LEAVES THAT FLOAT, OTHERS WITH CARNIVOROUS HABITS, OR STILL OTHERS WITH STUNNING FLOWERS LIFTED ON STEMS ABOVE THE WATER. MANY NATIVE SPECIES WILL TRANSPLANT WITH PROPER CARE. THE WATER SOURCE AT THE CULVERT IS CAPTURED AND DIRECTED TO THE WATER GARDEN AND THE LEARNING CIRCLE. [NEW]

DECIDUOUS WOODLAND

FOUND IN OPENINGS IN THE FOREST CANOPY, ALONG ROAD CUTS, EDGES OF THE MUSKEG, OR IN THE BEACH FRINGE, DECIDUOUS TREES AMID OUR VAST EVERGREEN LANDSCAPE ARE A WELCOME CONTRAST AND CAN ADD STRUCTURAL DIVERSITY TO ANY GARDEN. WHILE OUR NATIVE DIVERSITY IS LOW, THERE ARE NUMEROUS HARDY TREES AND SHRUBS FROM SOUTH TEMPERATE CLIMATES THAT FLOURISH IN NORTH TEMPERATE CONDITIONS. THEIR VISUAL IMPACT IN THE FALL IS STUNNING, SUBTLE GREYS AND PINKS OF LEAFLESS CROWNS BRING PLEASING WINTER CONTRAST, AND BRIGHT SPRING GREENS STIR EXCITEMENT FOR THE GROWING SEASON. [NEW]

GARDEN INSTALLATION PRIORITIES

AT THE TIME OF MASTER PLAN DEVELOPMENT AND GARDEN INSTALLATION, SITE-SPECIFIC DETAILS OF INDIVIDUAL GARDENS AND OTHER DESIGN ELEMENTS ARE FURTHER STUDIED. IT IS HERE THAT THE ARTISTIC CHARACTER AND PHYSICAL FORM OF EACH GARDEN IS LAYED OUT, ASSUMPTIONS CHECKED CONCERNING PHYSICAL SITE PLACEMENT, COST AND BUDGET, AND SELECTION OF MATERIALS, AND PRIORITIES ESTABLISHED. THOSE SECTIONS OF AN ARBORETUM THAT ARE MOST IMPORTANT ARE DEVELOPED AND INSTALLED FIRST AND, COMMONLY, THIS HIGHEST PRIORITY IS THE PARKING AREA, GARDEN ENTRANCE, AND GARDENS IMMEDIATELY INSIDE THE ENTRANCE.



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