

Davis, 1163

Landscape Design

for

Milledgeville State Hospital

Milledgeville, Georgia

by

Roger W. Davis

David J. Klassen

Raymond K. Thomaier

A Terminal Problem Presented for
Degree of Bachelor of Landscape Architecture

Department of Landscape Architecture

University of Georgia

Athens, Georgia

December 1965

H.B. Owens Resource Center
School of Environmental Design
Caldwell Hall
University of Georgia

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I. STATEMENT OF THE PROBLEM

A Rehabilitation Garden

The Milledgeville State Hospital is located near the city of Milledgeville, Baldwin County, Georgia. It is centrally situated in the state, 93 miles W.S.W. of Augusta, 93 miles S.E. of Atlanta, and 72 miles south of Athens. The hospital accommodates 12,000 mental patients and is operated by the state of Georgia.

It is desired that a garden featuring perennials and flowering shrubs be provided on approximately 10 acres of the campus. An appropriate site is available near the Rivers Building complex bordered by Rivers Drive to the northeast and Vincent Highway to the east. District II of the Garden Club of Georgia will sponsor the preparation of the necessary landscape development plans.

The primary function of this garden as requested will be the rehabilitation of the patients. Contact with nature and garden therapy has become an important part of the program at the State Hospital. Such a garden development will also enhance the appearance of the hospital grounds. The garden is to be designed for seasonal interest and low maintenance with the existing trees which are appropriate for inclusion in the overall scheme retained.

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proposed development should be designed in a free and un-regimented manner. It is assumed that patients will participate in the planting and maintenance as a part of their therapy.

The garden shall include the following developed areas:

1. Borders and beds of flowers and shrubs, with one small portion designed especially for use by blind patients.
2. Open lawn areas, tree shaded areas, and sitting areas.
3. Naturalistic paths for observing nature as well as walks for viewing the beds and borders, and for use by the blind patients.
4. Shelter for 100 persons with rest room facilities and adjoining paved terrace.
5. Entrance road and parking for 10 to 15 cars and 2 to 3 buses.

In 1964 the hospital admitted 4,506 patients. Also received were 3,579 patients who returned from furlough the total intake for the year 9,633. To balance the 603 admissions to the hospital 607 were discharged. At the end of June

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II. MILLEDGEVILLE STATE HOSPITAL

A. History

Georgia's only neuropsychiatric hospital is located
 in Milledgeville, Baldwin County, Georgia. With a present
 resident population of approximately 12,570, it is the
 largest mental hospital in the world. Founded in 1842, the
 hospital has grown until it now includes a total of 135
 buildings of various types spread over a thousand acre
 campus. Additionally included in the hospital property are
 some 9,000 acres of farm land which includes 540 acres in
 crops, 2,000 acres in pasture, and 2,600 in woodland.

B. Administration

The employees include doctors, registered nurses,
 psychiatric aids, clinical psychologists, psychology tech-
 nicians, social workers, social work aides, music therapists,
 clinical chaplains, recreation therapists and aides, occupa-
 tional therapists and aides, business administrators,
 vocational rehabilitation counselors, evaluators and
 supervisors, and a large number of professional staff members
 in the various business, clerical, and engineering vocations.

In 1964 the hospital admitted a total of 6,054 new
 patients. Also received were 3,579 patients who returned
 from furlough making the total intake for the year 9,633
 or an average of 803 admissions per month. To balance this
 off, some 700 patients per month died. At the end of June

1963 there were 17,683 patients currently on the books of the hospital.

Some significant advances in the hospital program have been made in recent years. These have included a reorganization in the social work department now bringing it up to the standard demanded by the professional accrediting associations, the accreditation of the department of psychology for internship training by both the University of Georgia and the University of Florida, and the employment of several nationally known psychologists as consultants; the employment of the first full time clinically trained chaplain in the institution's history; the building of five chapels for the institution; a considerable increase in the use of volunteers in the various operations of the hospital; one day seminars on mental illness which have been presented for more than 5,000 college and high school students; and a large number of on going research projects in every area of patient care and treatment.

C. 1962 Reorganization

In 1962 the hospital was reorganized into five psychiatric units of approximately 2,000 patients each, a veterans hospital, a physical treatment unit and a halfway house. These units function essentially as separate hospitals, thereby achieving close administrative cohesion within each unit and permitting considerable freedom in

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II. Milledgeville State Hospital

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Administration

The employees include doctors, registered nurses, psychiatric aides, clinical psychologists, psychology technicians, social workers, social work aides, music therapists, clinical chaplains, recreation therapists and aides, occupational therapists and aides, business administrators, evaluators and supervisors, and a large number of professional staff members in the various business, clerical, and engineering vocations. In 1964 the hospital admitted a total of 6,054 new patients. Also received were 3,579 patients who returned from furlough making the total intake for the year 9,633. An average of 803 admissions per month. To balance this some 700 patients per month died. At the end of June

methods of patient care and treatment within the general policy and framework laid down by the superintendent.

A. City Plan

Milledgeville, the county seat of Baldwin County, is a progressive city, located some thirty miles north of Georgia's Fall Line which separates the Piedmont and Coastal Plains regions. It was the capital of the state from 1807 until 1868. It has the distinction of being one of the first cities in the South which was planned from the beginning.

Situated on the west bank of the Oconee River at its confluence with Fishing Creek, the old portion of the city was designed on a gridiron pattern. The plan provided for four 20-acre rectangular areas, with the main street, which led from the river, 120 feet wide and all other streets 100 feet in width. The highest land was reserved for the imposing State House Square, located three-quarters of a mile from the boat and raft landing on the Oconee River. The other three 20-acre rectangles came to be used and known as Government Square, Penitentiary Square and Cemetery Square, respectively.

B. Historic and Architecturally Significant Buildings and

Gardens

Milledgeville was the capital of Georgia when "cotton was king", during the time when Georgia became known as

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III. CITY OF MILLEDGEVILLE

A. City Plan

Milledgeville, the county seat of Baldwin County, is a progressive small city, located some thirty miles north of Georgia's Fall Line which separates the Piedmont and Coastal Plains regions. It was the capital of the state from 1807 until 1868. It has the distinction of being one of a small number of American cities which was planned from the beginning.

Situated on the west bank of the Oconee River at its confluence with Fishing Creek, the old portion of the city was designed in a gridiron pattern. The plan provided for four 20-acre rectangular open spaces, with the main street which led from the river, 120 feet wide and all other streets 100 feet in width. The highest land was reserved for the imposing State House Square, located three-quarters of a mile from the boat and raft landing on the Oconee River. The other three 20-acre rectangles came to be used and known as Government Square, Penitentiary Square and Cemetery Square, respectively.

B. Historic and Architecturally Significant Buildings and Gardens

Milledgeville was the capital of Georgia when "cotton was king", and during the time when Georgia became known as

the Empire State of the South. of architecture. Several
choice During the first half of the 19th century Georgia,
as well as all of the South, depended almost entirely on an
agricultural economy with the production of cotton playing
the most important role. Cities and towns were few and far
between because the majority of the population lived on
farms, some of which were extensive plantations. Woman's
Milledgeville, nevertheless, in its strategic position as
the state capital performed the function of being one of
Georgia's most important towns from the time of its founding
until 1865. In 1829 it had a population of 1,599 and con-
tained 170 houses.

Many of these buildings were beautiful homes built
along the commodious tree-lined streets. At the same period
a number of elegant plantation complexes, each of which
included an impressive residence, an office, barns and other
out-buildings, etc., and beautiful gardens, were ^{developed in} cotton-
producing, ~~developed in~~ Baldwin and surrounding counties.
Milledgeville served as the cultural, educational and social
center of the region and the political center of the state.

The old State House building (circa 1840), presently
occupied by the Georgia Military College, is one of America's
choice examples of Gothic Revival architecture; the Masonic
Lodge building with its three-story spiral stairway and
handsome rooms on the top floor is a splendid surviving

III. CITY OF MILLEDGEVILLE

Milledgeville, the county seat of Baldwin County, is
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Historic and Architecturally Significant Buildings and
Gardens
Milledgeville was the capital of Georgia when "cotton
king", and during the time when Georgia became known as

structure of the Federal style of architecture. Several choice examples of Federal and Greek Revival residential architecture can be seen within the city limits today; two of the most notable being the Sanford House and the Governor Johnston-Ennis houses of the Federal period, and the Classic Revival Governor's Mansion, the latter being used as the home of the President of the Georgia Woman's College.

Unfortunately for posterity, within the past three decades, a number of architecturally distinguished plantation residences in the area of Mt. Nebo and Westover, to name two gems, have inadvertently been destroyed by fire or have come to some other kind of ill-fated demise.

C. Garden Tradition Persists

Residents of Baldwin County have inherited a knowledge of agricultural pursuits and a fine tradition of gardening. This is noted today in the neat, well planned and maintained home grounds, the college ^{campus} ~~comprises~~, streets, grounds of public buildings, and the cemetery in Milledgeville.

D. Garden Clubs

The Garden Club of Georgia was organized in 1928. The Garden Club of Milledgeville was one of the early constituent members of this organization. It has served approximately 22,500 members in 1965.

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Garden Tradition Persists

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The Garden Club of Georgia was organized in 1928. The Garden Club of Milledgeville was one of the early members of this organization. It has served

as a guiding influence in community landscape development and in the preservation of noteworthy architecture as well as the preservation of the techniques of garden making.

Through the Milledgeville Garden Club, the Garden Club of Georgia¹ learned of the need for a program of garden therapy for the various hospitals in the state, including the Milledgeville State Hospital. It was emphasized ^{from} that recent research in the treatment of mental patients, ^{that} a constructive contact with nature in the form of planting, growing or maintaining plants - and especially ornamental flowers, vines, bulbs, lawn grasses, shrubs and trees, has proven to be of tremendous therapeutic value for persons so afflicted.

E. Landscape Development Plan

In 1965 District No. II - the Azalea District of the Garden Club of Georgia with Mrs Claude Brown of Waynesboro, Georgia, serving as Director, determined to initiate for the state organization a method whereby a Landscape Development Plan could be designed for a garden on the campus of the Milledgeville State Hospital. Professor Hubert B. Owens, Chairman of the Division, was contacted and arrangements were completed for the Azalea District to provide the necessary funds for designing such a plan which would be

¹The Garden Club of Georgia had a membership of approximately 22,500 members in 1965.

appropriated for ^{this} purpose, and in scale with the nearby buildings and large expanse of the attractive site the Director of the hospital could make available for this unique project.

Professor Owens and three seniors in the Department of Landscape Architecture, University of Georgia, conferred with Mrs Frank Evans of Milledgeville, who is the Garden Therapist for Milledgeville State Hospital, chairman for the Garden Club of Georgia; Dr. and Mrs McKinnon, Mr. E. T. Newsome, Superintendent of Grounds of the hospital. It was agreed that under the direction of Professor Owens, Roger Davis, David Klassen and Ray Thomaier would proceed with the preparation of the necessary landscape plans.

F. Final Landscape Plans for Rehabilitation Garden

Following a number of visits to the site, and conferences with Mr. Newsome and other personnel at the Hospital, Mrs. Evans, Mrs. Brown, Professor Owens, visiting Professor Wolfgang Oehme and other members of the staff of the Landscape Architecture Department, the final scheme which is herewith presented was designed.

The plan represents a contemporary, unregimented solution. It cannot be termed a "traditional" garden in the sense of an early 19th century Milledgeville type of garden - which would feature boxwood and old fashioned roses, bulbs, etc. The general plan is a scheme which is

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Final Landscape Plans for Rehabilitation Garden
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termed international contemporary.

The arrangement of the flower beds, borders, paths, shelter, terrace, walks, sitting areas, etc., is similar to what landscape architects in Scandinavia and other western European countries; Israel; Japan; South America; and various parts of the United States are designing. If one kind of plant might be designated the ear mark of this contemporary type of garden, as Boxwood was in the Anti-bellum garden of the early 19th century in the Milledgeville area, it would be ornamental grasses. These plants are, of course, used in combination with other perennials, bulbs, shrubs, etc. The various ornamental grasses - ranging in height from 6 inches to 10 feet, with their grace, interesting forms, textures and seasonal changes, will give this unusual garden which is destined to serve a very special purpose, a particular character and identity.

The garden has been planned so that it can be developed in seven or more stages.

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IV. LIST OF PLATES.

Photographs of Site

COVER SHEET

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CE



JAN • 66



• JAN 66



• JAN 66



• JAN 66

A REHABILITATION GARDEN ^{FOR}

MILLEDGEVILLE STATE HOSPITAL
MILLEDGEVILLE, GEORGIA

SENIOR TERMINAL PROBLEM

UNIVERSITY OF GEORGIA - LANDSCAPE ARCHITECTURE DEPARTMENT - ATHENS, GEORGIA

ROGER W. DAVIS

DAVID J. KLASSEN

RAYMOND K. THOMAS

UNDER THE DIRECTION OF HUBERT B. OWENS

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SHEET NO.

PREPARED FOR:
MILLEDGEVILLE STATE HOSPITAL
PREPARED BY:
ROGER W. DAVIS
DAVID J. KLASSEN
RAYMOND K. THOMAHER

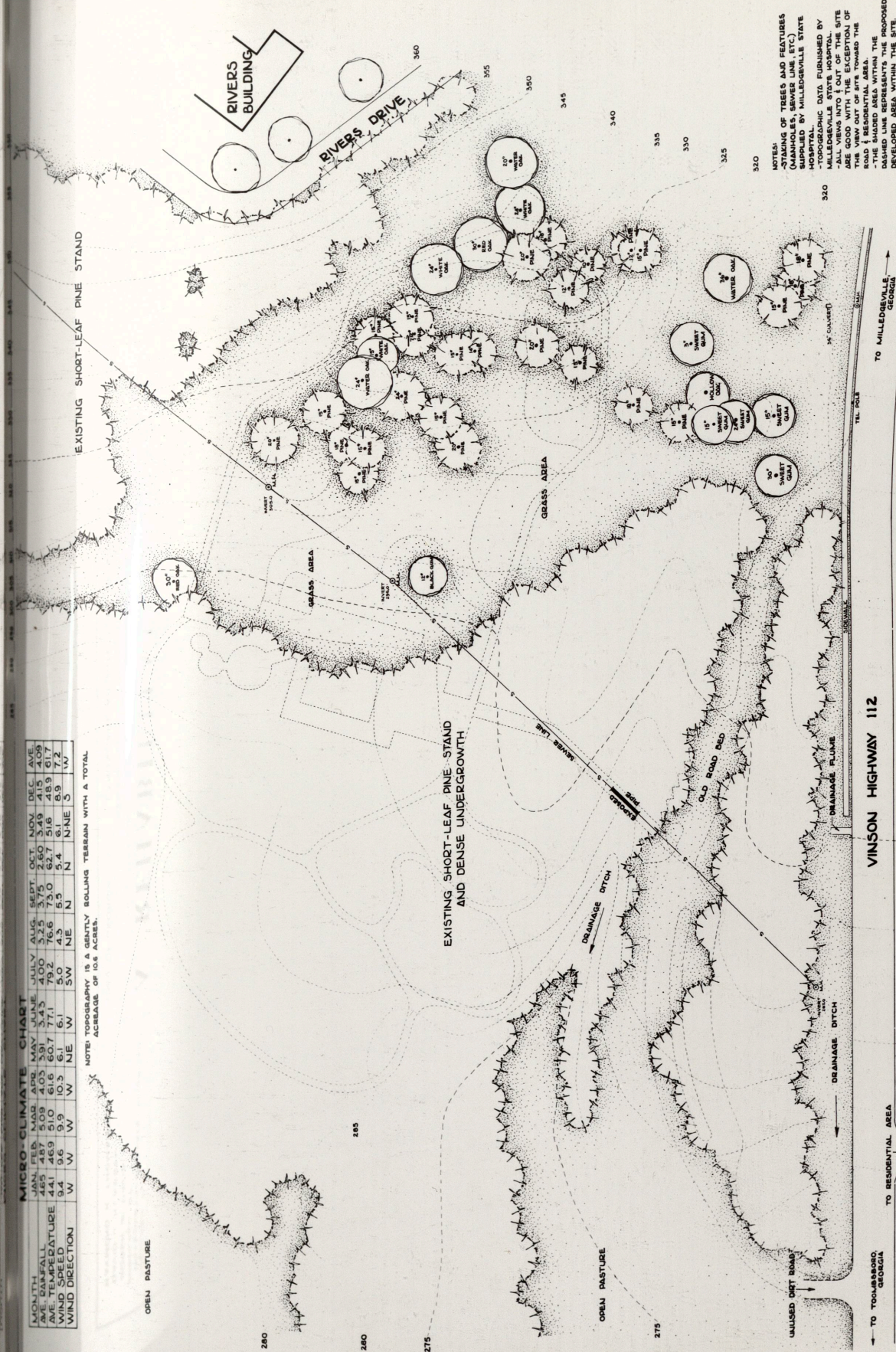
A REHABILITATION GARDEN

MILLEDGEVILLE STATE HOSPITAL PROJECT
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHENS, GEORGIA

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MONTH	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVE
AVE. RAINFALL	4.65	4.87	5.09	4.05	3.91	3.43	4.00	3.25	3.75	2.60	3.49	4.15	4.09
AVE. TEMPERATURE	44.1	46.9	51.0	61.6	66.7	77.1	79.2	76.6	73.0	62.7	51.6	48.9	61.2
WIND SPEED	9.4	9.6	9.9	10.3	10.5	10.7	10.9	11.1	11.3	11.5	11.7	11.9	11.1
WIND DIRECTION	W	W	W	W	W	W	SW	NE	NE	N	N	NNE	W

NOTE: TOPOGRAPHY IS A GENTLY ROLLING TERRAIN WITH A TOTAL AREA OF 16.6 ACRES.



NOTES:
-STAKING OF TREES AND FEATURES
-TOPOGRAPHIC DATA FURNISHED BY
-ALL VIEWS INTO SITE FROM THE
-THE VIEW OUT OF SITE TOWARD THE
-THE SHARED AREA WITHIN THE
-DEVELOPED AREA WITHIN THE SITE
-ALL TREES SHOWN ARE EXISTING.

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MILLEDGEVILLE STATE HOSPITAL
PREPARED BY:
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DAVID J. KLASSEN
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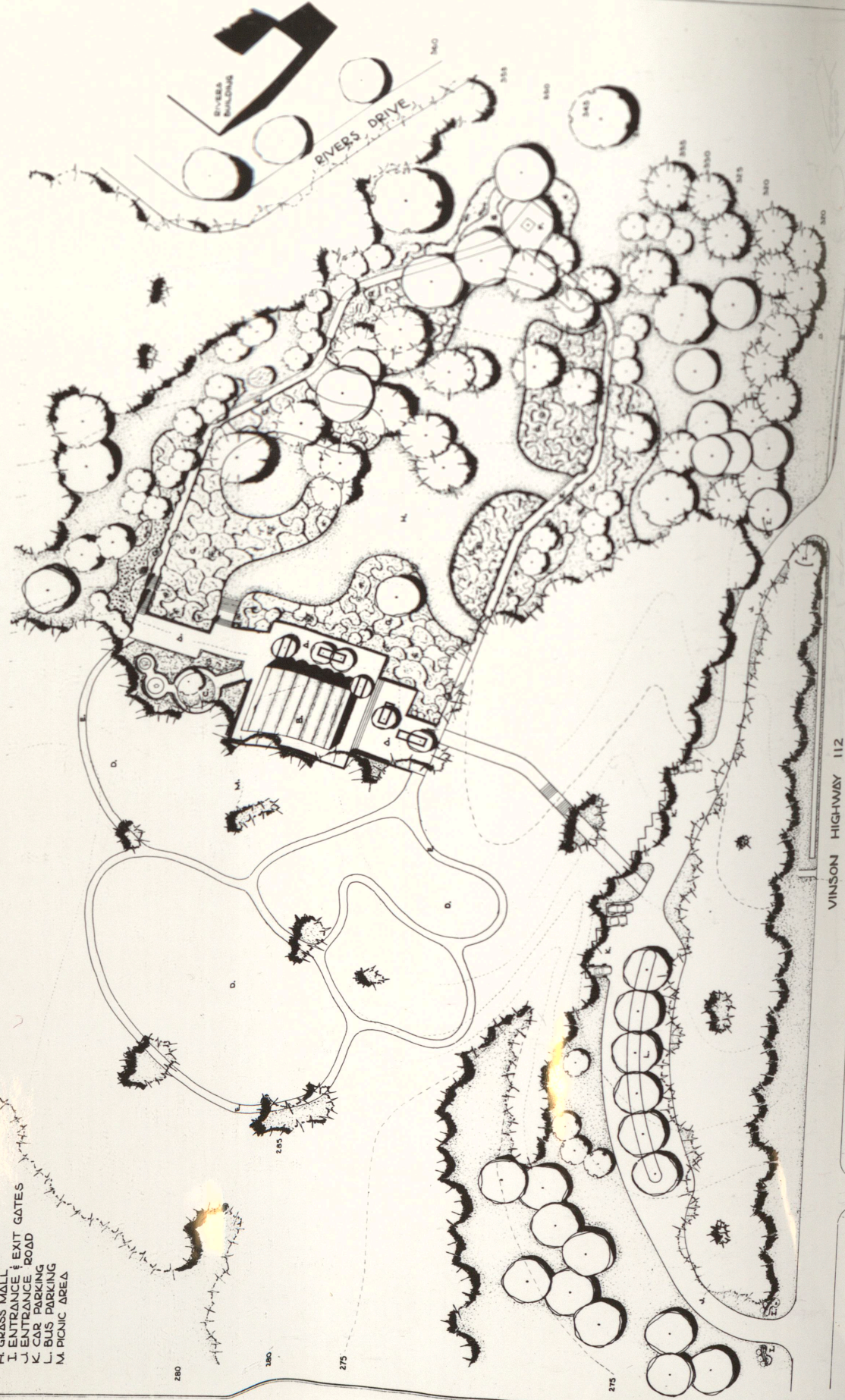
A REHABILITATION GARDEN

MILLEDGEVILLE STATE HOSPITAL
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHENS, GEORGIA

SHEET 1 OF 21
SITE ANALYSIS
SCALE 1"=30'-0"



- KEY**
- A. TERRACE
 - B. SHELTER
 - C. GARDEN FOR BLIND
 - D. NATURAL AREA
 - E. WALKS
 - F. SITTING AREA
 - G. PLANTING AREAS
 - H. GRASS MALL
 - I. ENTRANCE & EXIT GATES
 - J. ENTRANCE ROAD
 - K. CAR PARKING
 - L. BUS PARKING
 - M. PLOIC AREA

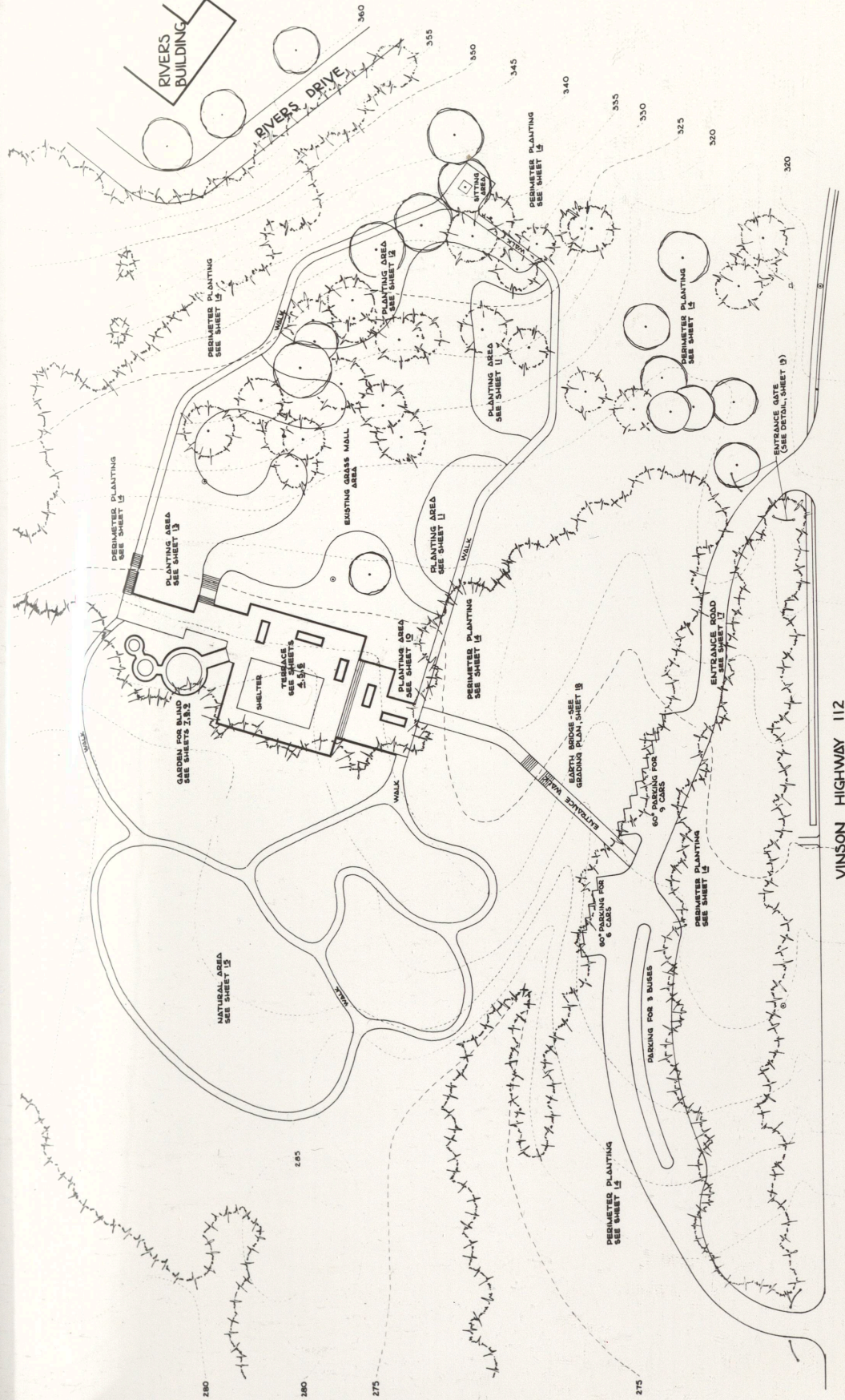


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A REHABILITATION GARDEN

MILLEDGEVILLE STATE HOSPITAL
MILLEDGEVILLE, GEORGIA
SENIOR TERMINAL PROBLEM - DECEMBER 17, 1965
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHENS, GEORGIA

SHEET 2 OF 21
MASTER PLAN
SCALE 1"=30'-0"



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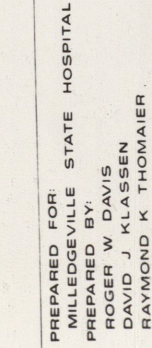
A REHABILITATION GARDEN

MILLEDGEVILLE STATE HOSPITAL
MILLEDGEVILLE, GEORGIA
SENIOR TERMINAL PROBLEM - DECEMBER 17, 1965
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHENS, GEORGIA

SHEET 3 OF 21
DEVELOPMENT PLAN
SCALE 1"=30'-0"

[illegible]

A. REHABILITATION GARDEN
MILLEDGEVILLE STATE HOSPITAL • CHOLEN, GEORGIA
UNIV. OF GEORGIA
SENIOR LANDSCAPE ARCHITECTURE DEPARTMENT



A REHABILITATION GARDEN

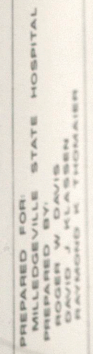
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MILLEDGEVILLE, GEORGIA

UNIV. OF GEORGIA
LANDSCAPE ARCHITECTURE DEPARTMENT
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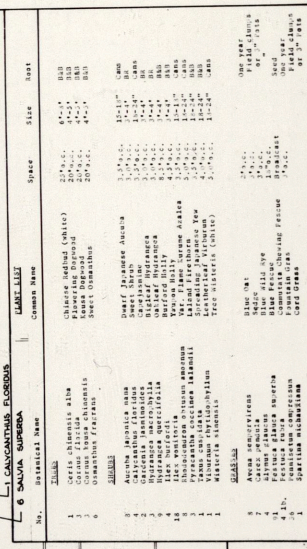
SENIOR TERMINAL PROBLEM - DECEMBER 17, 1965

SHEET 5 OF 21
TERRACE-
STAKING PLAN
SCALE 1"=1'-0"

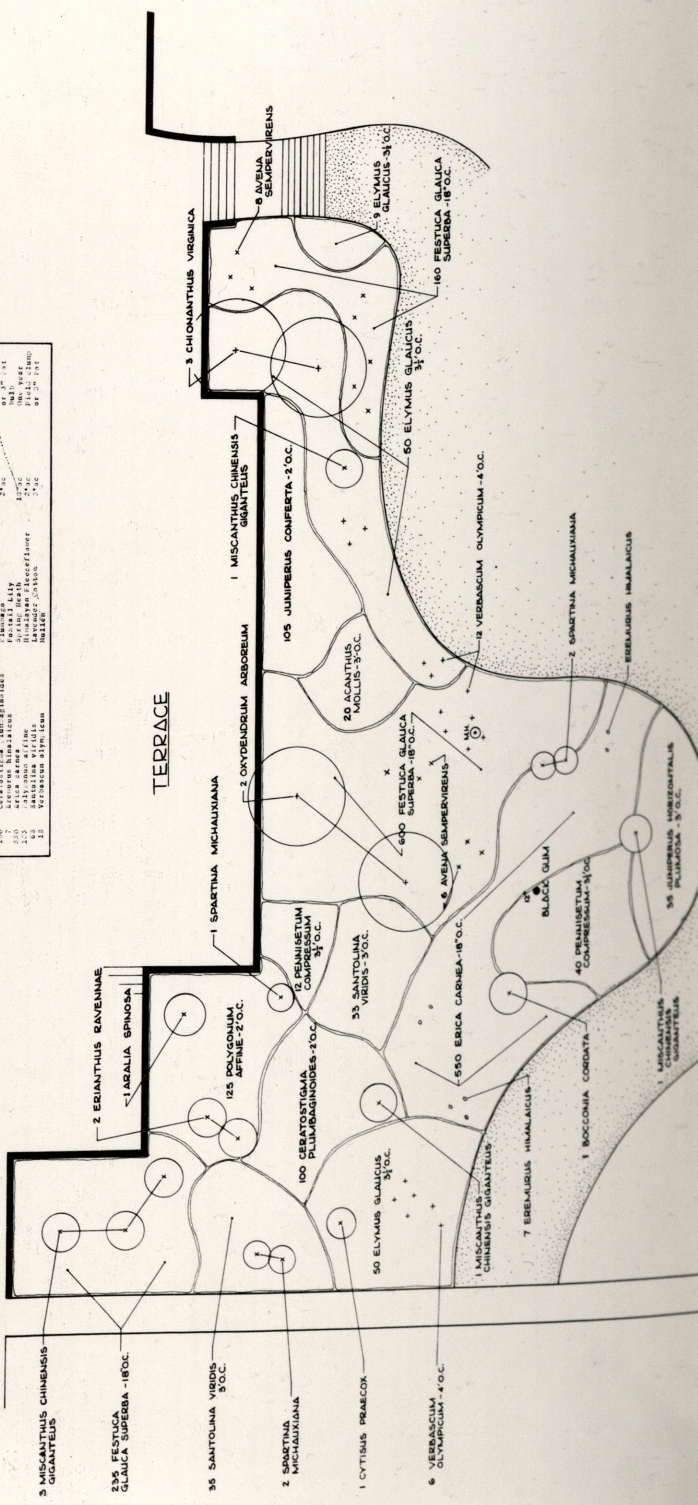




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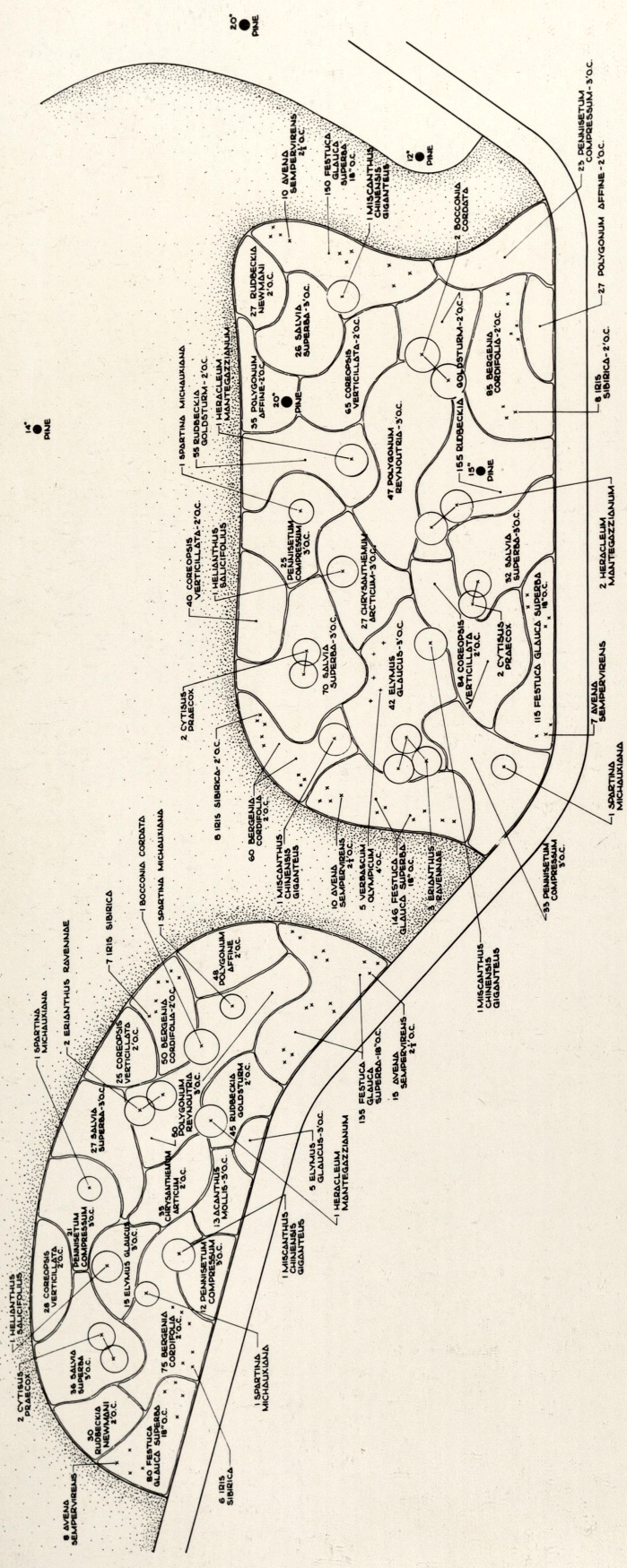
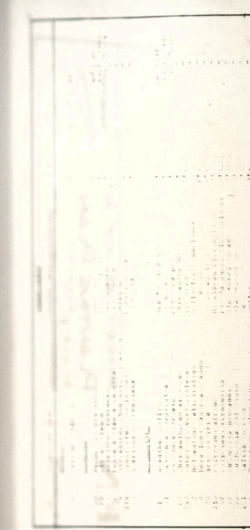


PLANT	QUANTITY	DATE	BY
1. Avena sativa	100	12-1-66	W.D.
2. Avena sativa	100	12-1-66	W.D.
3. Avena sativa	100	12-1-66	W.D.
4. Avena sativa	100	12-1-66	W.D.
5. Avena sativa	100	12-1-66	W.D.
6. Avena sativa	100	12-1-66	W.D.
7. Avena sativa	100	12-1-66	W.D.
8. Avena sativa	100	12-1-66	W.D.
9. Avena sativa	100	12-1-66	W.D.
10. Avena sativa	100	12-1-66	W.D.
11. Avena sativa	100	12-1-66	W.D.
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100. Avena sativa	100	12-1-66	W.D.



A REHABILITATION GARDEN

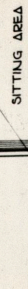
SHEET 10 OF 21
PLANTING PLAN



PREPARED FOR:
MILLEDGEVILLE STATE HOSPITAL
PREPARED BY:
ROGER W. DAVIS
DAVID J. KLASSEN
RAYMOND K. THOMAS

A REHABILITATION GARDEN
MILLEDGEVILLE, GEORGIA
SENIOR TERMINAL PROBLEM - DECEMBER 17, 1965
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHENS, GEORGIA

SHEET 11 OF 21
PLANTING PLAN
SCALE: 1/8" = 1'-0"
NORTH

[illegible]

000 Y A V 80 0-073-00 000 Y A V 6
J C 000
000 Y A V 80 0-073-00 000 Y A V 6

SHEET 12 OF 21

PLANTING PLAN
DATE: 11/1/1911
CITY: NEW YORK[illegible]

PREPARED FOR:
MILLEDGEVILLE S
PREPARED BY:
ROGER W. DAVIS
DAVID J. KLASSE
RAYMOND K. THO

REHABILITATION GARI
MILLEDGEVILLE STATE HOSPITAL
MILLEDGEVILLE, GEORGIA

SENIOR TERMINAL PROBLEM - DECEMBER 17, 19
LANDSCAPE ARCHITECTURE DEPARTMENT

ATHENS. GEORGIA

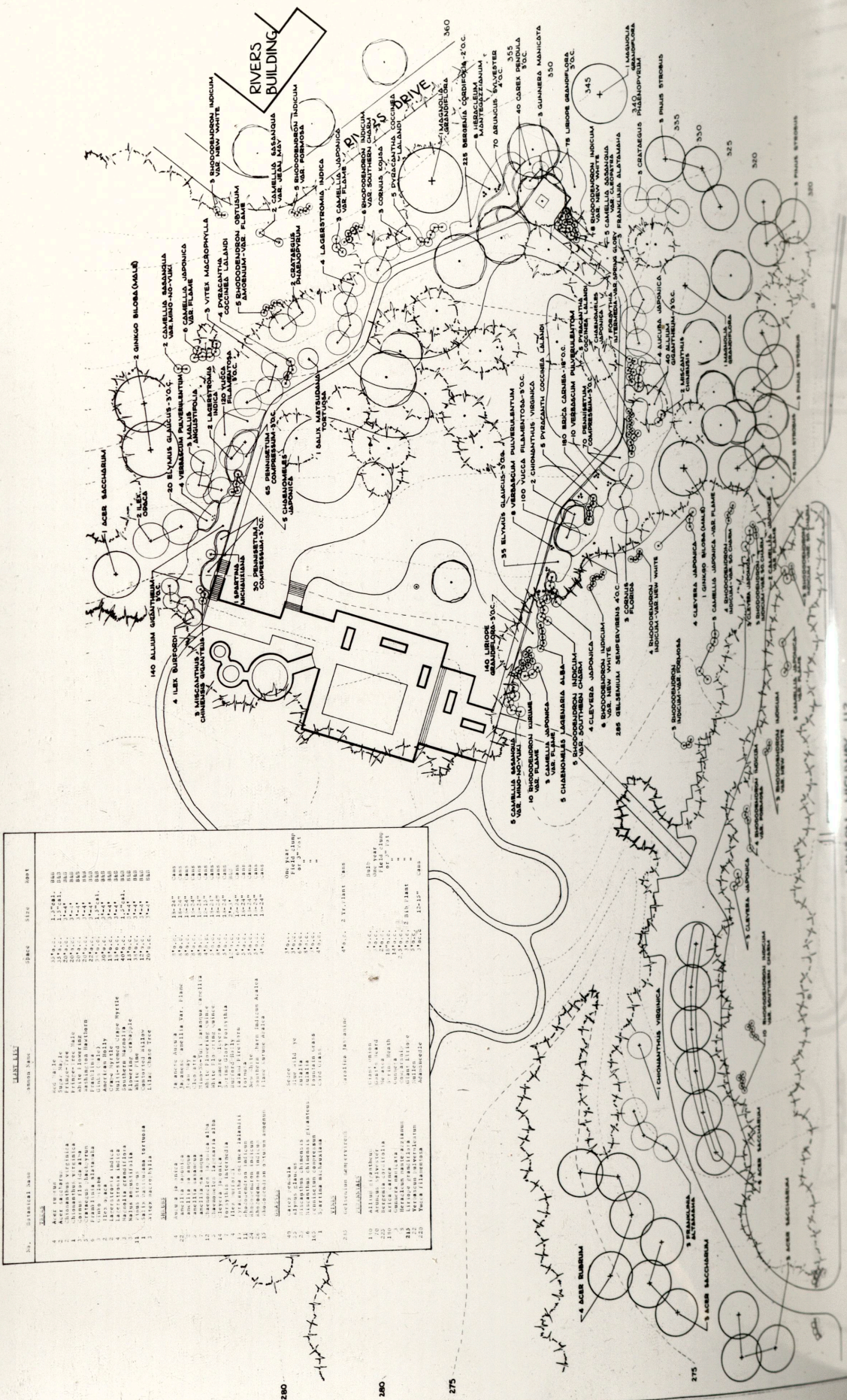
PLANTING PLAN

SCALE: $\frac{1}{8}$ " = 1'-0"

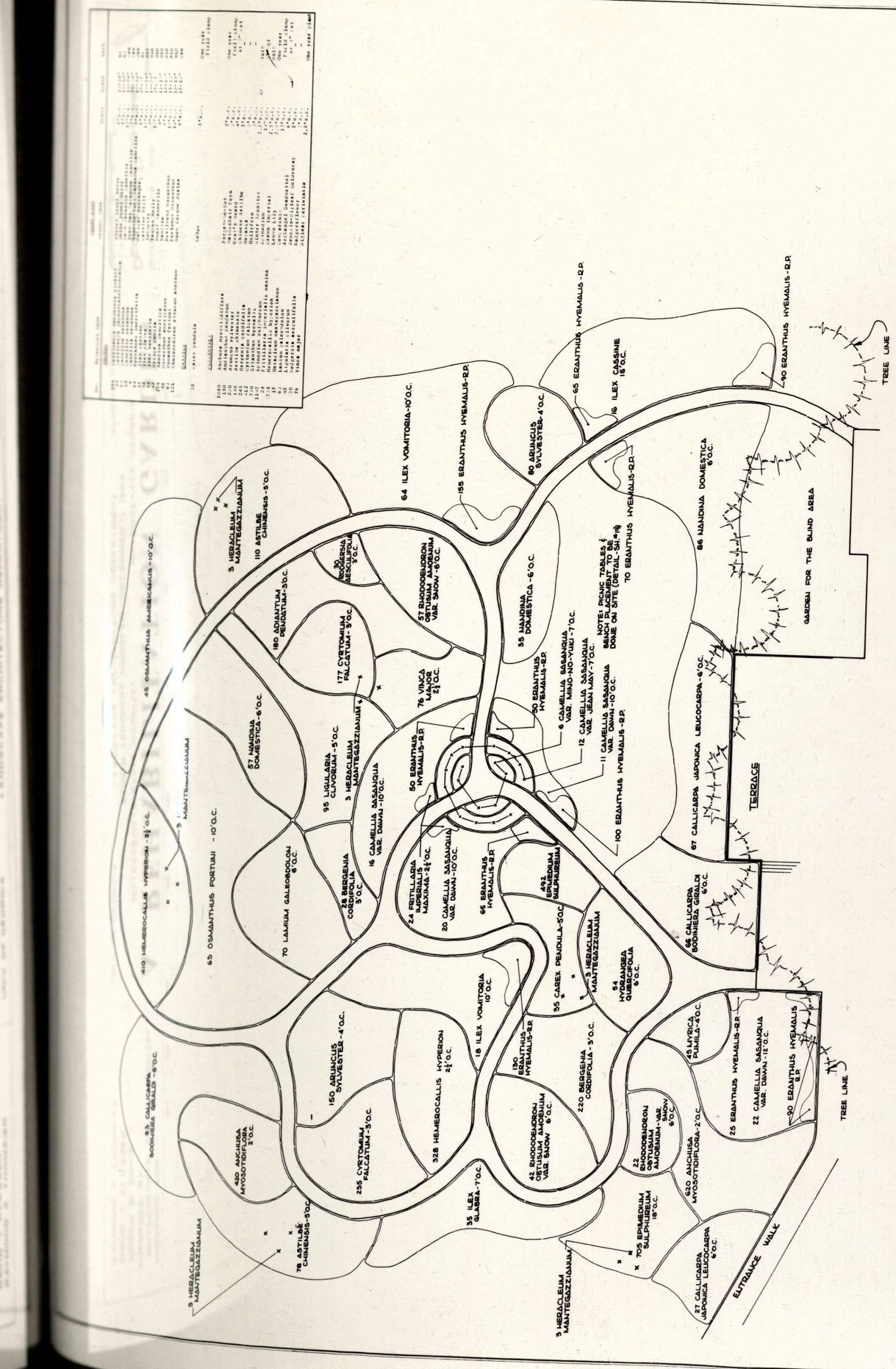


NORTH

PLANT	1962	1972	1982
1. ACER SACCHARINUM	1.00	1.00	1.00
2. CAMELLIA JAPONICA	1.00	1.00	1.00
3. CAMELLIA JAPONICA	1.00	1.00	1.00
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78. CAMELLIA JAPONICA	1.00	1.00	1.00
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95. CAMELLIA JAPONICA	1.00	1.00	1.00
96. CAMELLIA JAPONICA	1.00	1.00	1.00
97. CAMELLIA JAPONICA	1.00	1.00	1.00
98. CAMELLIA JAPONICA	1.00	1.00	1.00
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100. CAMELLIA JAPONICA	1.00	1.00	1.00



SHEET 14 OF 21
REHABILITATION GARDEN
PLANTING PLAN



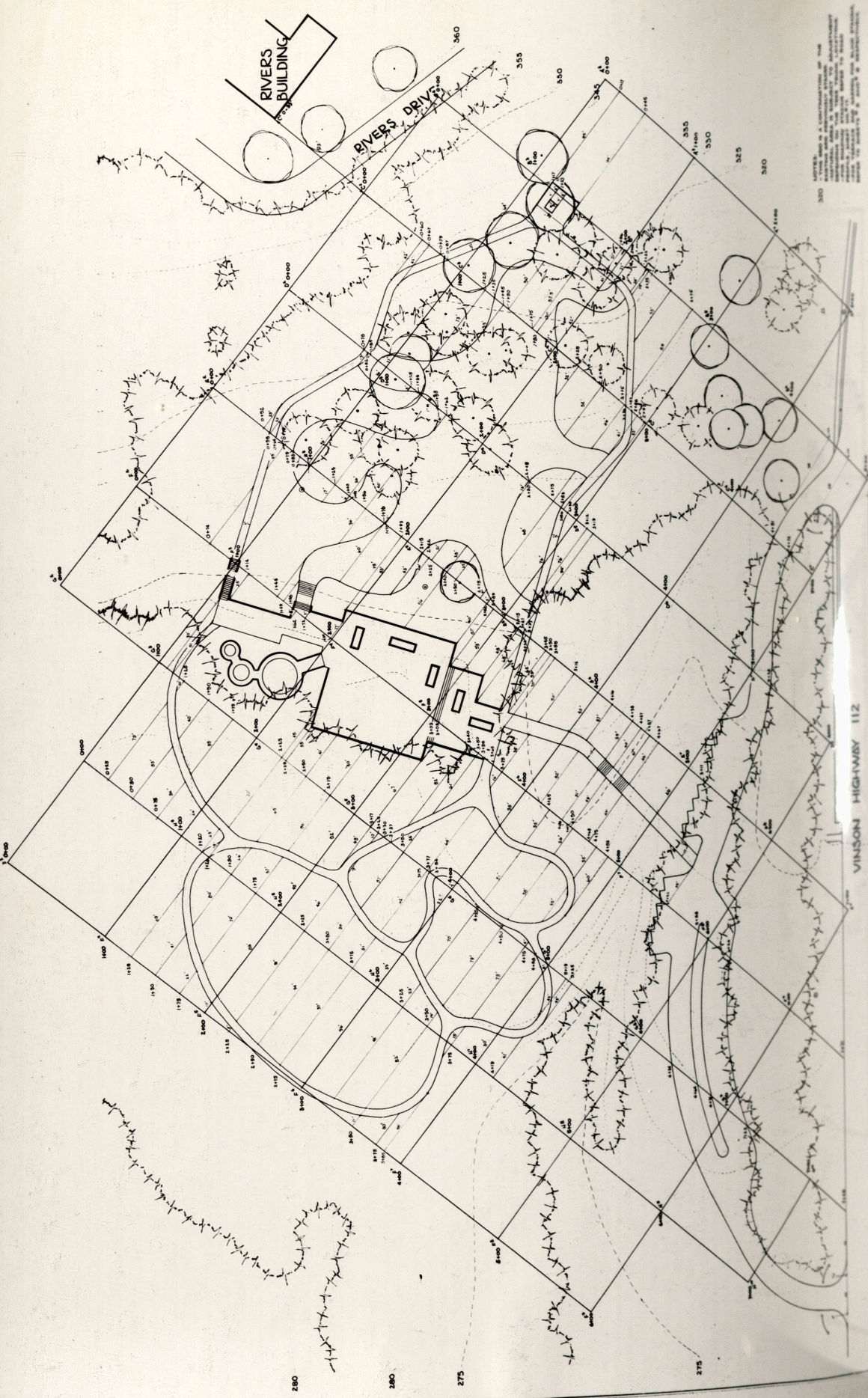
PREPARED FOR:
MILLEDGEVILLE STATE HOSPITAL
PREPARED BY:
ROGER W. DAVIS
DAVID J. KLASSEN
RAYMOND K. THOMAS

UNIV. OF GEORGIA
MILLEDGEVILLE STATE HOSPITAL
SENIOR TERMINAL PROGRAM - DECEMBER 17, 1965
LANDSCAPE ARCHITECTURE DEPARTMENT

ATHENS, GEORGIA

SHEET 15 OF 21
NATURAL AREA
SCALE 1"=10'

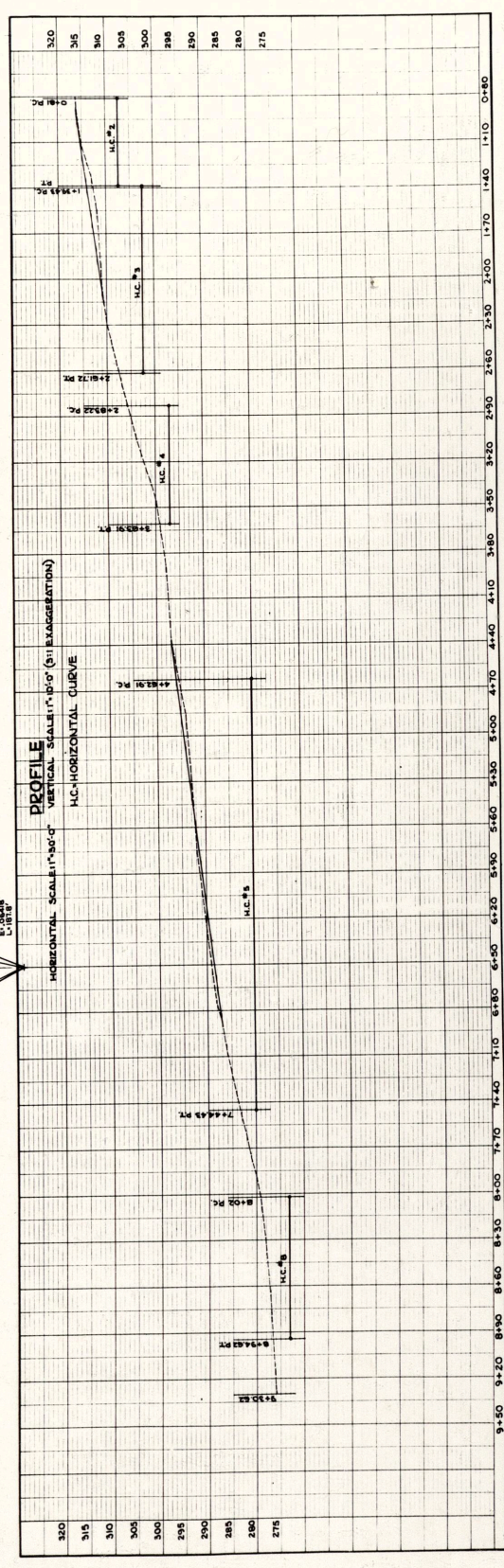
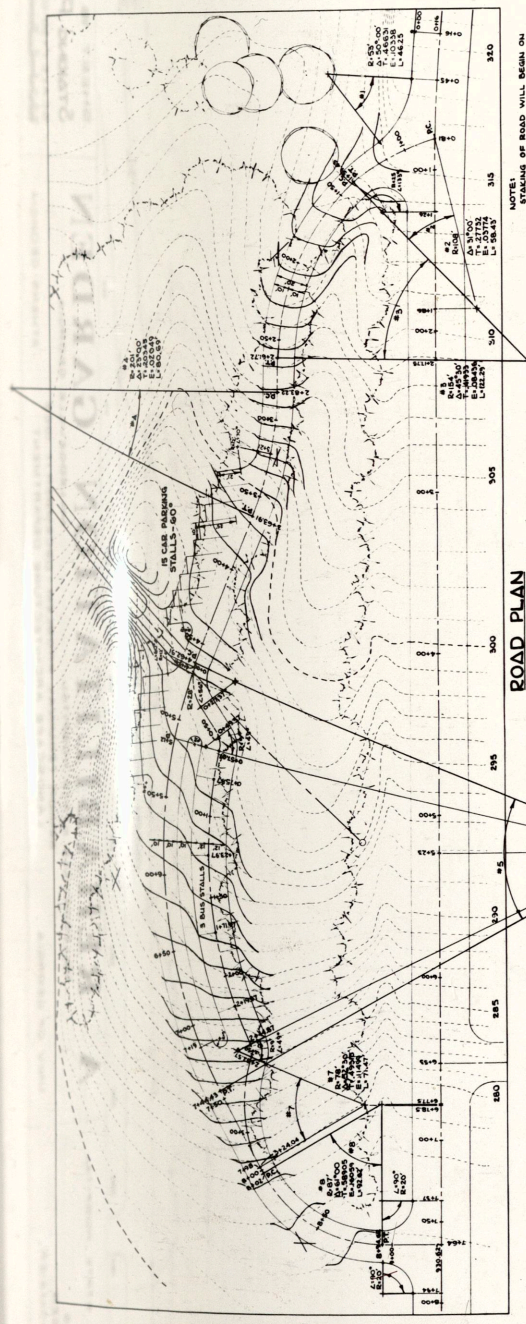
ATHENS, GEORGIA



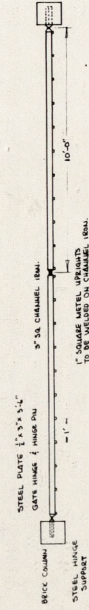
PREPARED FOR: STATE HOSPITAL
MILLEDGEVILLE, GEORGIA
PREPARED BY: ROGER W. DAVIS
DAVID J. KLASSEN

A REHABILITATION GARDEN
SHEET 18 OF 21
STAGING PLAN
SCALE 1"=50'-0"

PREPARED FOR: STATE HOSPITAL
MILLEDGEVILLE, GEORGIA
PREPARED BY: ROGER W. DAVIS
DAVID J. KLASSEN



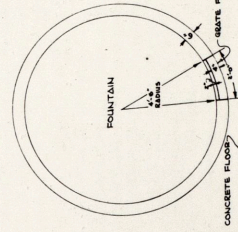
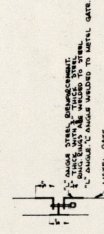
EDP&IT



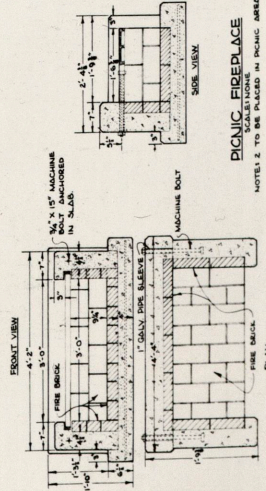
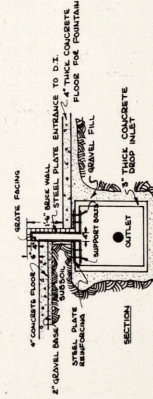
PLAN



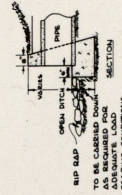
LOCK DETAIL



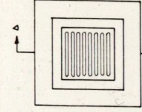
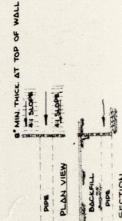
FOUNTAIN DROP INLET



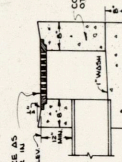
PICNIC FIREPLACE
SCALE: NONE



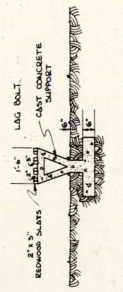
HEADWALL DETAIL



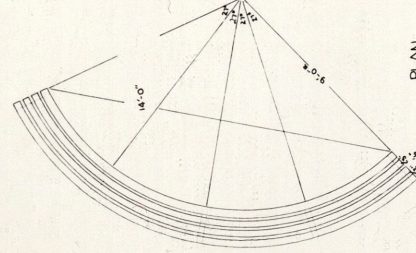
CATCH BASIN DETAIL
SCALE 1/8" = 1'-0"



SECTION A-A



ELEVATION



CURVED BENCH
DETAIL



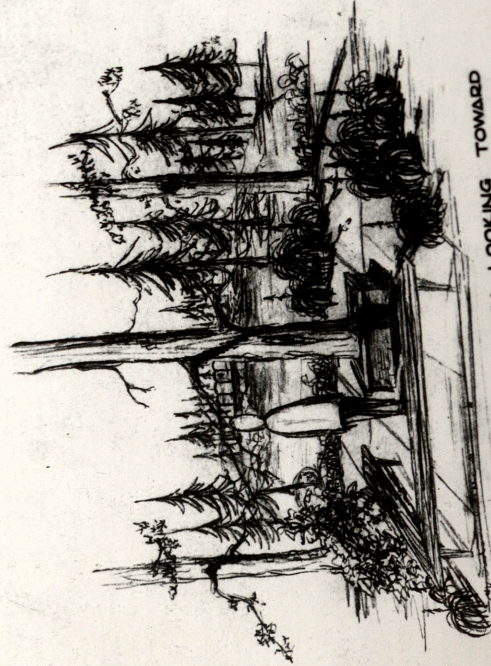
VIEW FROM TERRACE INTO
PLANTED AREA



SCULPTURE IN GARDEN
FOR BLIND



ENTRANCE TO THE GARDEN



VIEW FROM SITTING OVER SHELTER



ORTHODONTIC AREA

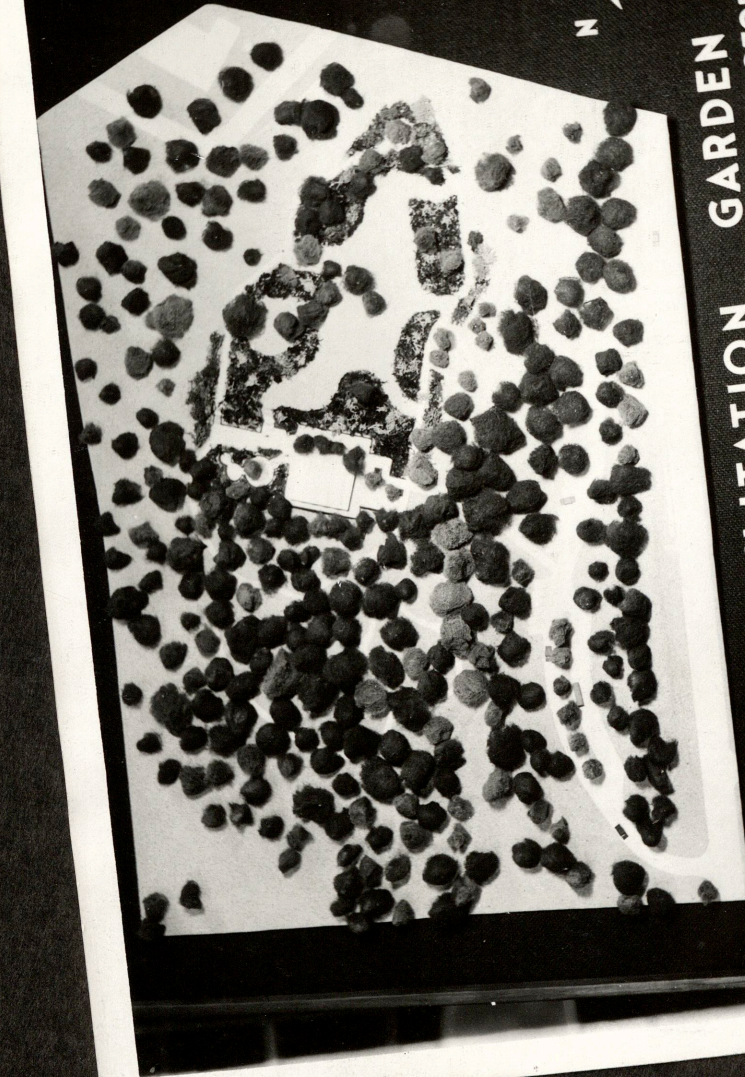
SHEET 21 OF 21
PERSPECTIVES
SCALE: NONE

A LOOKING TOWARD
EXHIBITION GARDEN

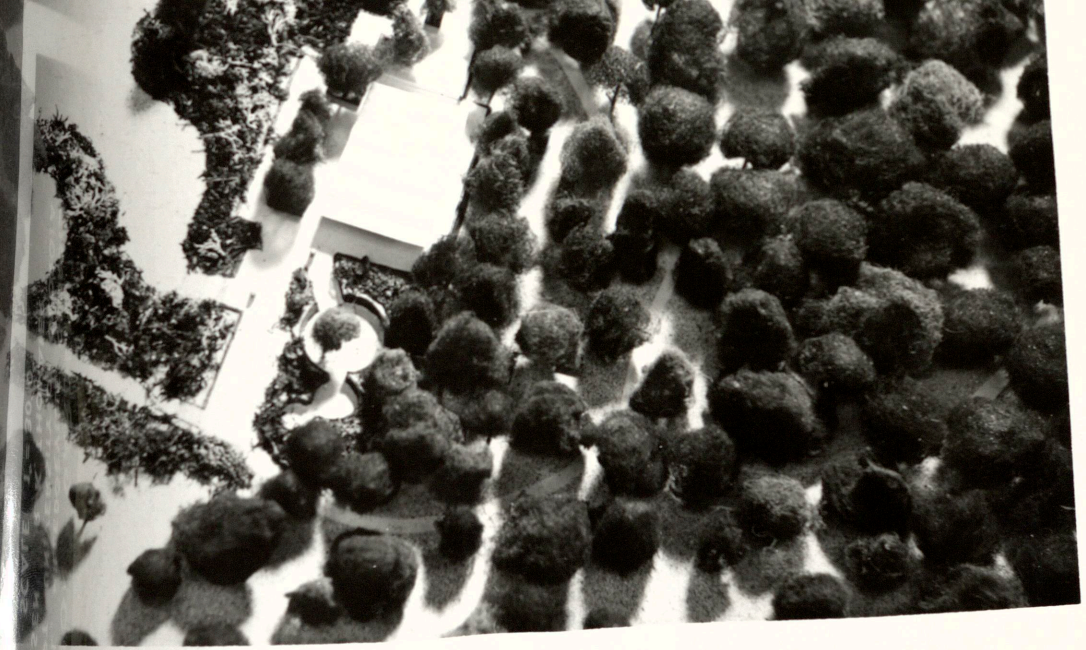
PREPARED FOR: MILLEDGEVILLE STATE HOSPITAL
PREPARED BY: ROGER W. DAVIS
DAVID J. KLASSEN
RAYMOND K. THOMAIER

A REHABILITATION
MILLEDGEVILLE STATE HOSPITAL
MILLEDGEVILLE - DECEMBER 17, 1966
SENIOR, TERMINAL PROBLEM - DEPARTMENT
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHENS, GEORGIA

UNIV OF GEORGIA



A REHABILITATION GARDEN
 MILLEDGEVILLE STATE HOSPITAL, MILLEDGEVILLE, GEORGIA
 LANDSCAPE ARCHITECTURE DEPT. UNIVERSITY OF GEORGIA
 R. K. THOMAIER
 R. W. DAVIS D. J. KLASSEN
 DECEMBER 1965 SCALE 1" = 30' 0"



V. COST ESTIMATE

Project: A Rehabilitation Garden for the Milledgeville State Hospital, Milledgeville, Georgia.

Computed by: Roger W. Davis, David J. Klassen, and Raymond K. Thomaier.

Job Description: The landscape development of a portion of the campus of Milledgeville State Hospital, Milledgeville, Georgia.

A. Plant Materials:

<u>Quan.</u>	<u>Taxus Plant</u>	<u>Size</u>	<u>Unit Price</u>	<u>Total</u>
	Viburnum Sheet 4 of 21			
Trees	Wisteria			
6	Cercidiphyllum japonicum	1.5" Cal	4.00	24.00
10	Eremurus himaliacus	bulle	2.50	25.00
7	Hemerocallus hyperion	1 year plant	1.00	7.00
32	Liriope grandiflora	one year field clump or 3" pots	.20	6.40
		Sub Total		62.40
	(Sheet 7 of 21)			
Trees	Spartina			
1	Cercis chinensis alba	6'-8'	8.00	8.00
3	Cornus florida	4'-5'	4.00	12.00
3	Cornus knousa chinensis	4'-5'	10.00	30.00
6	Osmanthus fragrans	4'-5'	4.00	24.00

Quan.	Plant	Size	Unit Price	Total
8	Aucuba japonica nana	15"-18"	2.00	16.00
4	Calycanthus floridus	3'-4'	3.00	12.00
2	Gardenia jasminoides	18"-24"	2.00	4.00
3	Hydrangea macrophylla	3'-4'	4.00	12.00
9	Hydrangea quercifolia	3'-4'	4.00	36.00
18	Ilex vomitoria	3'-4'	4.00	72.00
4	Ilex burfordi	3'-4'	5.00	20.00
8	Rhododendron obtusum amoenum	15"-18"	3.00	24.00
3	Pyracantha coccinea lalandii	18"-24"	3.50	10.50
1	Taxus cuspidata	18"-24"	2.50	2.50
1	Viburnum rhytidophyllum	18"-24"	3.00	3.00
1	Wisteria sinensis	18"-24"	10.00	10.00
Grasses				
8	Avena sempervirens	one year field clumps or 3" pots	1.50	10.00
7	Carex pendula	" "	1.00	7.00
4	Elymus glaucus	" "	1.00	4.00
91	Festuca glauca superba	" "	.80	72.80
4lbs.	Festuca rubra	Seed	.60/lb	2.40
36	Pennisetum compressum	One year field clumps or 3" pots	2.00	72.00
20	Nepeta massini	" "	5.00	5.00
1	Spartina michauxiana	" "		
Vines				
1	Clematis paniculata	3" pot	3.00	3.00
1	Ficus pumila	3" pot	2.00	2.00

Project: A Rehabilitation Garden for the Millidgeville State Hospital, Millidgeville, Georgia.				
Commanded by: Roger A. Davis, David J. Klassen, and Raymond M. Thomsen.				
Job Description: The landscape development of a portion of the campus of Millidgeville State Hospital, Millidgeville, Georgia.				
A. Plant Schedule:				
Quan.	Plant	Size	Unit Price	Total
Trees				
5	Cercidiphyllum japonicum	2.5" dia	3.00	15.00
10	Quercus macrocarpa	bulbs	2.50	25.00
7	Hemoxalis hyperion	1 year plant	1.00	7.00
32	Malva grandiflora	one year field clump or 3" pots	.30	9.60
		Sub Total		56.60
(Sheet 1 of 2)				
Sheet 2 of 2				
1	Cercis chinensis alba	6'-8'	8.00	8.00
3	Cornus florida	4'-5'	4.00	12.00
3	Cornus kousa chinensis	4'-5'	10.00	30.00
5	Campanula trachelium	4'-5'	4.00	20.00

Plant	Size	Unit Price	Total
Aucuba japonica nana	15"-18"	2.00	16.00
Calycanthus floridus	3'-4'	3.00	12.00
Gardenia jasminoides	18"-24"	2.00	4.00
Hydrangea macrophylla	3'-4'	4.00	12.00
Hydrangea quercifolia	3'-4'	4.00	36.00
Ilex vomitoria	3'-4'	4.00	72.00
Ilex purfordi	3'-4'	2.00	20.00
Rhododendron obtusum amoenum	15"-18"	3.00	24.00
Pyracantha coccinea lalandii	18"-24"	3.50	10.50
Taxus cuspidata	18"-24"	2.50	2.50
Viburnum rhytidophyllum	18"-24"	3.00	3.00
Wisteria sinensis	18"-24"	10.00	10.00
Grasses			
Avena sempervirens	one year field clumps or 3" pots	1.50	10.00
Carex pendula	"	1.00	7.00
Elymus glaucus	"	1.00	4.00
Festuca glauca superba	"	.80	72.80
Festuca rubra	Seed	.60/lb	2.40
Pennisetum compressum	one year field clumps or 3" pots	2.00	72.00
Spartina michauxiana	"	2.00	2.00
Vines			
Clematis paniculata	3" pot	3.00	3.00
Ficus pumila	3" pot	2.00	2.00

Plant	Size	Unit Price	Total
Allium schoenoprasum	one year field clumps or 3" pots	1.50	5.00
Artemisia dracunculus	" "	.50	4.50
Bergenia cordifolia	" "	1.00	2.00
Centaurea cineraria	" "	1.25	20.00
Comptonia peregrina	" "	.65	11.95
Coreopsis verticillata	" "	1.10	13.20
Dianthus - old spice	" "	1.10	17.60
Echinodus ritro-taplo blue	" "	1.25	11.25
Elymus glaucus	" "	1.00	4.00
Gunnera manicata	" "	15.00	15.00
Gypsophila paniculata	" "	1.25	6.25
Helleborus orientalis	" "	2.00	94.00
Iberis sempervirens	" "	.90	9.00
Lantana camara	" "	1.00	14.00
Lavandula officinalis	" "	1.00	5.00
Melissa officinalis	" "	.50	12.00
Mentha piperita	" "	.50	9.00
Mentha spicata	" "	.90	16.20
Nepeta mussini	" "	.50	10.00
Origanum vulgare	" "	.50	5.00
Rosmarinus officinalis	" "	.65	5.85
Salvia officinalis (dwarf)	" "	.65	3.90
Salvia superba	" "	.65	3.90

Plant	Size	Unit Price	Total
Salvia superba	"	.65	3.90
Salvia officinalis (dwarf)	"	.65	3.90
Rosmarinus officinalis	"	.65	5.85
Origanum vulgare	"	.50	5.00
Nepeta musini	"	.50	10.00
Mentha spicata	"	.90	16.20
Mentha piperita	"	.50	9.00
Melissa officinalis	"	.50	12.00
Lavandula officinalis	"	1.00	5.00
Lantana camara	"	1.00	14.00
Iberis sempervirens	"	.90	9.00
Helibomus orientalis	"	2.00	94.00
Gypsophila paniculata	"	1.25	6.25
Gunnera manicata	"	15.00	15.00
Elymus glaucus	"	1.00	4.00
Echinops ritro-taplo blue	"	1.25	11.25
Dianthus - old spice	"	1.10	17.60
Coreopsis verticillata	"	1.10	13.20
Comptonia peregrina	"	.65	1.95
Centaurea cineraria	"	1.25	20.00
Bergenia cordifolia	"	1.00	2.00
Artemisia dracuncul	"	.50	4.50
Allium schoenoprasum one year field clumps or 3" pots	"	1.50	5.00

Plant	Size	Unit Price	Total
Santolina ericoides	" "	1.00	8.00
Sedum spurium album	" "	.65	13.00
Sedum telephuim	" "	.65	4.55
Sempervium rubicundum	" "	.50	12.00
Stachys lanata	" "	.50	1.50
Thymus serpyllum citriodorces	" "	.50	5.00
Yucca filamentosa	" "	1.00	3.00
Allium cepa	Bulb	.50	2.00
Allium porrum	Seed	.25	2.00
Allium sativum	Bulb	.50	2.50
Anethum graveolens	Seed	.25	2.50
Antirrhinum majus	Seed	.27	13.50
Helichrysum bracteatum	Seed	.25	4.00
Nicotiana affinis	Seed	.30	3.00
Ocimum basilicum (dwarf)	Seed	.25	3.00
Tropaeolum majus tuata	Seed	.75	6.75
Sub Total			849.10
Sheet 10 of 21			17.50
Aralia spinosa	3'-4'	.25	.25
Chionanthus virginica	3'-4'	4.00	12.00
Oxydendrum arboreum	4'-5'	2.00	4.00
Sub Total			2,302.50

Plant	Size	Unit Price	Total
Yucca filamentosa	" "	1.00	3.00
Citriflorus	" "	.50	2.00
Thymus serpyllum	" "	.50	1.50
Stachys lanata	" "	.50	12.00
Sempervivum rubro-undatum	" "	.50	4.50
Sedum telephium	" "	.50	13.00
Sedum album	" "	1.00	8.00
Sedum ericoides	" "	1.00	8.00

Sheet 10 of 21

Plant	Size	Unit Price	Total
Oxydendrum arborescens	4'-5'	2.00	4.00
Ononanthus virginica	3'-4'	4.00	12.00
Aralia spinosa	3'-4'	.25	.25

Plant	Size	Unit Price	Total
Cytissus praecox	15"-18" in cans	3.50	3.50
Juniperus conferta	"	2.00	210.00
Juniperus horizontalis plumosa	"	2.00	70.00
Avena sempervirens	one year field clumps or 3" pots	1.50	21.00
Elymus glaucus	"	1.00	109.00
Erianthus ravennae	"	5.00	10.00
Festuca glauca superba	"	.80	796.00
Miscanthus chinensis giganteus	"	8.00	48.00
Pennisetum compressum	"	2.00	104.00
Spartina michauxiana	"	5.00	25.00
Acanthus mollis	"	3.00	60.00
Bocconia cordata	"	1.25	1.25
Ceratostigma plumbaginoides	"	.50	50.00
Eremurus himalaicus	Bulb	2.50	17.50
Erica carnea	one year field clumps or 3" pots	1.00	550.00
Polygonum affine	"	1.00	125.00
Santolina viridis	"	1.00	68.00
Verbascum olympicum	"	1.00	18.00
Sub Total			2,302.50

Plant	Size	Unit Price	Total
Sheet 11 of 21			
<i>Cytissus praecox</i>	18"-24" can	3.50	15.00
<i>Avena sempervirens</i>	one year field clumps or 3" pots	1.00	13.00
<i>Bergenia cordifolia</i>	"	2.50	170.50
<i>Bocconia cordata</i>	"	2.00	6.00
<i>Chrysanthemum arcticum</i>	"	.65	40.30
<i>Coreopsis verticillata</i>	"	.65	157.30
<i>Helianthus salicifolius</i>	"	1.00	2.00
<i>Heracleum mantegazzianum</i>	"	3.00	12.00
<i>Iris silirica</i>	"	1.00	29.00
<i>Polygonum affine</i>	"	1.00	110.00
<i>Polygonum reynoutria</i>	"	1.00	97.00
<i>Rudbeckia newmanni</i>	"	.75	42.75
<i>Rudbeckia goldsturm</i>	"	.75	191.25
<i>Salvia superba</i>	"	.65	124.15
<i>Verbascum olympicum</i>	"	1.00	5.00
Sub Total			1,015.25
Sheet 12 of 21			
<i>Avena Semperirrens</i>	one year field clumps or 3" pots	1.50	21.00
<i>Carex pendula</i>	"	1.00	17.00

Plant	Size	Unit Price	Total
Sheet 11 of 21			
<i>Cytissus praecox</i>	15"-18" in cans	3.50	3.50
<i>Juniperus conferta</i>	"	2.00	210.00
<i>Juniperus horizontalis</i>	"	2.00	70.00
<i>Avena sempervirens</i>	one year field clumps or 3" pots	1.50	21.00
<i>Elymus glaucus</i>	"	1.00	109.00
<i>Eriophorum ravenneae</i>	"	2.00	10.00
<i>Festuca glauca superba</i>	"	.80	796.00
<i>Miscanthus chinensis</i>	"	8.00	48.00
<i>Pennisetum compressum</i>	"	2.00	104.00
<i>Spartina michauxiana</i>	"	2.00	22.00
<i>Acanthus mollis</i>	"	3.00	60.00
<i>Bocconia cordata</i>	"	1.25	1.25
<i>Ceratostigma plumbaginoides</i>	"	.50	50.00
<i>Erigeron himalaicus</i>	Bulb	2.50	17.50
<i>Fritia carnea</i>	one year field clumps or 3" pots	1.00	520.00
<i>Polygonum affine</i>	"	1.00	125.00
<i>Santolina viridis</i>	"	1.00	68.00
<i>Verbascum olympicum</i>	"	1.00	18.00
Sub Total			2,302.50

Quan.	Plants	Size	Unit Price	Total
Grasses cont.				
15	Elymus glaucus	one year field clumps or 3" pots	1.00	21.00
3	Erianthus ravennae	"	5.00	15.00
600	Festuca glauca superba	"	.80	480.00
3	Miscanthus chinensis giganteus	"	8.00	24.00
52	Pennisetum compressum	"	2.00	104.00
9	Spartina michauxiana	"	5.00	45.00
Perennials				
425	Bergenia cordifolia	"	1.00	425.00
3	Bocconia cordata	"	1.25	3.75
1085	Calluna vulgaris	"	1.00	1085.00
1185	Erica carnea	"	1.00	1185.00
2	Deracleum mentegazzianum	"	3.00	6.00
105	Polygonum affine	"	1.00	105.00
Sub Total 3,530.00				
Sheet 13 of 21				
Shrubs				
35	Juniperus conferta	15"-18" cans	2.00	75.00
44	Juniperus horizontalis plumosa	"	2.00	88.00
Grasses				
36	Avena sempervirens	one year field clumps or 3" pots	1.50	54.00
106	Elymus glaucus	"	1.00	106.00

Quan.	Plants	Size	Unit Price	Total
Sheet 11 of 21				
6	Cytisus praecox	18"-24" can	3.50	21.00
Grasses				
50	Avena sempervirens	one year field clumps or 3" pots	1.00	50.00
341	Bergenia cordifolia	"	.50	170.50
3	Bocconia cordata	"	2.00	6.00
62	Chrysanthemum arcticum	"	.65	40.30
242	Corydalis verticillata	"	.65	157.30
2	Helianthus salicifolius	"	1.00	2.00
4	Heracleum mantegazzianum	"	3.00	12.00
29	Iris sibirica	"	1.00	29.00
110	Polygonum affine	"	1.00	110.00
97	Polygonum reynouardii	"	1.00	97.00
27	Rudbeckia newmanni	"	.75	20.25
252	Rudbeckia goldstrum	"	.75	191.25
191	Salvia superba	"	.65	124.15
2	Verbascum olivaceum	"	1.00	2.00
Sub Total 1,015.25				
Sheet 12 of 21				
14	Avena sempervirens	"	1.50	21.00
17	Carex pendula	"	1.00	17.00

Quan.	Plants	Size	Unit Price	Total
<u>Grasses cont.</u>				
3	Erianthus ravennae	one year field clumps or 3" pots	5.00	15.00
4	Acer ribrum	"	.80	769.60
962	Festuca glauca superba	"	8.00	40.00
5	Miscanthus chinensis	"	2.00	194.00
97	Pennisetum compressum	"	5.00	15.00
33	Spartina michauxiana	"		
<u>Perennials</u>				
25	Acanthus mollis	"	1.00	25.00
150	Bergenia cordifolia	"	1.00	150.00
3	Bocconia cordata	"	1.25	3.75
400	Calluna vulgaris	"	1.00	400.00
158	Ceratostigma plumbaginoides	"	.50	79.00
90	Ceropsis verticillata	"	.65	58.50
672	Erica carnea	"	1.00	672.00
240	Nepeta mussini	"	.90	225.00
30	Polygonum affine	"	1.00	30.00
117	Polygonum reynoutria	"	1.00	117.00
120	Rudbeckia goldsturm	"	.75	80.00
27	Salvia ostfriesland	"	.65	17.55
33	Salvia superba	"	.65	21.45
200	Santolina viridis	"	1.00	200.00
1024	Stachys lanata	"	.50	512.00
8	Verbascum pulverulentum	"	1.00	8.00
Sub Total			4,327.00	

Quan.	Plants	Size	Unit Price	Total
<u>Grasses cont.</u>				
12	Elymus glaucus	one year field clumps or 3" pots	1.00	12.00
3	Erianthus ravennae	"	5.00	15.00
600	Festuca glauca superba	"	.80	480.00
3	Miscanthus chinensis	"	8.00	24.00
52	Pennisetum compressum	"	2.00	104.00
9	Spartina michauxiana	"	5.00	45.00
<u>Perennials</u>				
425	Bergenia cordifolia	"	1.00	425.00
3	Bocconia cordata	"	1.25	3.75
1085	Calluna vulgaris	"	1.00	1085.00
1185	Erica carnea	"	1.00	1185.00
2	Desmodium nudiflorum	"	3.00	6.00
105	Polygonum affine	"	1.00	105.00
Sub Total 3,530.00				
<u>Sheet 13 of 21</u>				
<u>Shrubs</u>				
35	Juniperus conferta	15"-18" cans	2.00	75.00
44	Juniperus horizontalis	"	2.00	88.00
<u>Grasses</u>				
36	Avena sempervirens	one year field clumps or 3" pots	1.50	54.00
106	Elymus glaucus	"	1.00	106.00

Quan.	Plants	Size	Unit Price	Total
Grasses cont.				
3	Eriophorum ravennae	one year field clumps or 3" pots	5.00	15.00
902	Festuca glauca superba	"	.80	721.60
5	Miscanthus chinensis	"	8.00	40.00
97	Pennisetum compressum	"	2.00	194.00
3	Spartina michauxiana	"	5.00	15.00
Perennials				
25	Acanthus mollis	"	1.00	25.00
150	Bergenia cordifolia	"	1.00	150.00
3	Bocconia cordata	"	1.25	3.75
400	Calluna vulgaris	"	1.00	400.00
158	Ceratostigma plumbaginoides	"	.50	79.00
90	Ceropsia verticillata	"	.65	58.50
672	Erica carnea	"	1.00	672.00
240	Nepeta massini	"	.90	216.00
30	Polygonum affine	"	1.00	30.00
117	Polygonum reynouardii	"	1.00	117.00
120	Rudbeckia goldstrum	"	.75	90.00
27	Salvia ostifolia	"	.65	17.55
33	Salvia superba	"	.65	21.45
200	Sanctolina viridis	"	1.00	200.00
1024	Stachys lanata	"	.50	512.00
8	Verbascum pulchellum	"	1.00	8.00
Sub Total				4,327.10

Quan.	Plants	Size	Unit Price	Total
Sheet 14 of 21				
Trees				
4	Acer ribrum	1.5" cal.	4.95	18.00
13	Acer saccharum	1.5" cal.	4.95	60.00
2	Chionanthus virginica	3'-4'	4.00	8.00
1	Chionanthus virginica- male	3'-4'	4.00	4.00
3	Cornus florida alba	3'-4'	2.50	7.50
5	Crataegus phaenopyrum	3'-4'	4.00	20.00
6	Franklinia alatamaha	3'-4'	4.00	24.00
3	Ginkgo biloba	1.5" cal.	4.00	12.00
2	Ilex opaca	3'-4'	4.00	8.00
2	Lagerstromia indica	3'-4'	2.95	5.90
4	Lagerstromia indica- multi-stemmed	3'-4'	2.95	11.80
3	Magnolia grandiflora	1.5" cal.	3.00	9.00
3	Malus angustifolia	3'-4'	2.95	8.85
11	Pinus strobus	3'-4'	4.00	44.00
1	Salix mastudana tortuosa	3'-4'	6.00	6.00
3	Vitex macrophylla	3'-4'	4.00	12.00
Shrubs				
4	Aucuba japonica	18"-24"	3.50	14.00
22	Camellia japonica	18"-24"	3.50	77.00
2	Camellia sasanqua (Jean May)	18"-24"	3.50	7.00
5	Camellia sasanqua (Cleopatra)	18"-24"	3.50	17.50

Quant.	Plants	Size	Unit Price	Total
Sheet 14 of 21				
4	Acer riparium	1.5" cal.	4.95	19.80
13	Acer saccharum	1.5" cal.	4.95	64.35
2	Chionanthus virginica	3'-4'	4.00	8.00
1	Chionanthus virginica- male	3'-4'	4.00	4.00
3	Cornus florida alba	3'-4'	2.50	7.50
2	Crataegus phaeopyrum	3'-4'	4.00	8.00
6	Franklinia alabamica	3'-4'	4.00	24.00
3	Ginkgo biloba	1.5" cal.	4.00	12.00
2	Ilex opaca	3'-4'	4.00	8.00
2	Lagerströmia indica	3'-4'	2.95	5.90
4	Lagerströmia indica- multi-stemmed	3'-4'	2.95	11.80
3	Magnolia grandiflora	1.5" cal.	3.00	9.00
3	Malus angustifolia	3'-4'	2.95	8.85
11	Pinus strobus	3'-4'	4.00	44.00
1	Salix mastigiana tortuosa	3'-4'	6.00	6.00
3	Vitex macrophylla	3'-4'	4.00	12.00
Shrubs				
4	Aucuba japonica	18"-24"	3.50	14.00
22	Camellia japonica	18"-24"	3.50	77.00
2	Camellia sasanqua (Jean May)	18"-24"	3.50	7.00
2	Camellia sasanqua (Gleba)	18"-24"	3.50	7.00

Quant.	Plants	Size	Unit Price	Total
Shrubs cont.				
7	Camellia sasanqua (Mino-No-Yuki)	18"-24"	3.50	24.50
12	Chaenomeles japonica alba	12"-15"	1.50	18.00
5	Chaenomeles lagenaria alba	18"-24"	1.50	7.50
14	Cleyera japonica	18"-24"	3.95	55.30
7	Forsythia intermedia	18"-24"	1.50	10.50
4	Ilex burfordii	2'-3'	4.95	19.80
19	Pyracantha coccinea lalandii	18"-24"	3.50	66.50
11	Rhododendron indicum (Formosa)	18"-24"	3.00	33.00
24	Rhododendron indicum (New White)	18"-24"	3.00	72.00
26	Rhododendron indicum (Southern Charm)	18"-24"	3.00	78.00
15	Rhododendron obtusum amoenum	18"-24"	3.00	45.00
Grasses				
40	Carex pendula	one year field clumps or 3" pots	1.00	40.00
55	Elymus glaucus	18"-24"	1.00	55.00
23	Miscanthus chinensis	18"-24"	8.00	184.00
36	Miscanthus chinensis giganteus	18"-24"	8.00	288.00
165	Pennisetum compressum	18"-24"	2.00	330.00
1	Spartina michauxiana	"	5.00	5.00

Quan.	Plants	Size	Unit Price	Total
Vines				
285	Gelsemium sempervirens	2 year plants in cans	2.00	570.00
	Ilex cassine		2.00	32.00
	Ilex glabra		2.00	70.00
Perennials				
180	Allium giganteum	Bulb	3.00	540.00
70	Aruncus sylvestris	one year field clumps or 3" pots	.50	35.00
	Nandina domestica		2.00	356.00
225	Bergenia cordifolia	"	.50	113.00
180	Erica carnea	"	1.00	180.00
3	Gunnera manicata	"	15.00	45.00
8	Heracleum mantegazzianum	"	3.00	24.00
215	Liriope grandiflora	"	.20	43.00
22	Verbascum pulverulentum	"	1.00	22.00
220	Yucca filamentosa	"	1.00	220.00
		Sub Total		3,498.65
Sheet 15 of 21				
Shrubs				
149	Callicarpa bodiniera	18"-24"	2.00	298.00
	Callicarpa giraldi	"		
27	Callicarpa japonica	18"-24"	2.00	54.00
69	Camellia sasanqua (Dawn)	18"-24"	3.50	241.50
12	Camellia sasanqua (Jean May)	18"-24"	3.50	42.00
6	Camellia sasanqua (Mino-No-Yuki)	18"-24"	3.50	21.00

Quan.	Plants	Size	Unit Price	Total
Shrubs cont.				
7	Camellia sasanqua (Mino-No-Yuki)	18"-24"	3.50	24.50
12	Chaenomeles japonica	12"-15"	1.50	18.00
	Chaenomeles japonica	18"-24"	1.50	7.50
14	Cleyera japonica	18"-24"	3.95	55.30
7	Forseya intermedia	18"-24"	1.50	10.50
4	Ilex purfordii	21"-31"	4.95	19.80
19	Pyracantha coccinea	18"-24"	3.50	66.50
11	Rhododendron indicum (Formosa)	18"-24"	3.00	33.00
24	Rhododendron indicum (New White)	18"-24"	3.00	72.00
26	Rhododendron indicum (Southern Charm)	18"-24"	3.00	78.00
15	Rhododendron obtusum	18"-24"	3.00	45.00
Grasses				
40	Carex pendula	one year field clumps or 3" pots	1.00	40.00
25	Elymus glaucus	"	1.00	25.00
23	Miscanthus chinensis	"	3.00	184.00
36	Miscanthus chinensis	"	3.00	288.00
165	Pennisetum compressum	"	2.00	330.00
1	Spartina michauxiana	"	5.00	5.00

Quan.	Plant	Size	Unit Price	Total
<u>Shrubs cont.</u>				
54	Hydrangea quercifolia	2'-3'	3.00	162.00
16	Ilex cassine	18"-24"	2.00	32.00
35	Ilex glabra	18"-24"	2.00	70.00
82	Ilex vomitoria	2'-3'	4.00	328.00
45	Myrica pumila	15"-18"	2.00	90.00
178	Nandina domestica	15"-18"	2.00	356.00
46	Osmanthus americanus	15"-18"	2.50	115.00
63	Osmanthus fortunei	15"-18"	2.50	157.00
121	Rhododendron obtusum amoenum	15"-18"	3.00	363.00
<u>Grasses</u>				
35	Carex pendula	one year field clump	1.00	35.00
<u>Perennials</u>				
1040	Anchusa myosotidiflora	one year field clumps or 3" pots	1.10	1144.00
180	Andrianthus pendatum	"	2.00	360.00
230	Aruncus sylvestris	"	.50	115.00
188	Astilbe chinensis	"	.85	159.80
248	Bergenia cordifolia	"	1.00	248.00
412	Cyrtomium falcatum	"	2.00	824.00
750	Erianthus hyemalis	Bulb	.07	51.50
1197	Epimedium sulphureum	3" pot	1.00	1197.00
24	Fritillaria imperialis maxima	Bulb	2.00	48.00

Quan.	Plant	Size	Unit Price	Total
<u>Vines</u>				
285	Celastrum sempervirens	2 year plants in cans	2.00	570.00
<u>Perennials</u>				
180	Allium giganteum	Bulb	3.00	540.00
70	Aruncus sylvestris	one year field clumps or 3" pots	.50	35.00
225	Bergenia cordifolia	"	.50	113.00
180	Erica carnea	"	1.00	180.00
3	Gunnera manicata	"	15.00	45.00
8	Heracleum mantegazzianum	"	3.00	24.00
215	Liriope grandiflora	"	.20	43.00
22	Verbascum pulchellum	"	1.00	22.00
220	Yucca filamentosa	"	1.00	220.00
Sub Total				3,498.65
<u>Sheet 15 of 21</u>				
<u>Shrubs</u>				
149	Calliandra bodinieri	18"-24"	2.00	298.00
27	Calliandra japonica	18"-24"	2.00	54.00
69	Gamelia assamensis (Dawn)	18"-24"	3.50	241.50
15	Gamelia assamensis (Jean May)	18"-24"	3.50	42.00
6	Gamelia assamensis (Mino-No-Yuki)	18"-24"	3.50	21.00

Quan.	Plants	Size	Unit Price	Total
<u>Perennials cont. on Sheet 23, "Terrace"</u>				
738	Hemerocallis hyperion	one year field clumps or 3" pot	1.50	1107.00
15	Heracleum mantegazzianum	"	3.00	45.00
63	Lamium galeobdolon	"	1.00	63.00
95	Ligularia clivorum	"	1.25	118.75
30	Rodgersia aesculicolia	"	4.00	120.00
76	Vinca major	one year plant	.25	19.00
			Sub Total	7,984.55

Total Plant Materials
Cost = \$23,570.30

Paving:

Amount Material

1. Terrace-

70,650 sq. ft. Concrete w/ exposed pea gravel aggregate - 4" thick with 2" red-wood divider or suitable substitute.

2. Garden for blind-

603 sq. ft. Concrete w/ exposed pea gravel aggregate - 4" thick.

101 sq. ft. Concrete w/ exposed chip aggregate - 4" thick.

Plant	Size	Unit Price	Total
<u>Shrubs cont.</u>			
Hydrangea quercifolia	2'-3'	3.00	162.00
Ilex cassine	18"-24"	2.00	32.00
Ilex glabra	18"-24"	2.00	70.00
Ilex vomitoria	2'-3'	4.00	328.00
Myrica pumila	15"-18"	2.00	90.00
Nandina domestica	15"-18"	2.00	356.00
Osmanthus americanus	15"-18"	2.50	115.00
Osmanthus fortunei	15"-18"	2.50	157.00
Rhododendron obtusum	15"-18"	3.00	363.00
<u>Grasses</u>			
Carex pendula	one year field clump	1.00	35.00
<u>Perennials</u>			
Anemone nemorosa	one year field clumps or 3" pots	1.10	114.00
Androsace repens	"	2.00	360.00
Anemone sylvestris	"	.50	115.00
Astilbe chinensis	"	.85	159.80
Bergenia cordifolia	"	1.00	248.00
Cytisium falcatum	"	2.00	824.00
Erigeron annuus	Bulb	.07	51.50
Epimedium alpinum	3" pot	1.00	1197.00
Trillium imperiale	Bulb	2.00	48.00

Plant	Plant	Size	Unit Price	Total
Perennials cont.				
38 Hemerocallis hyperion	one year field clumps or 3" pot	1.50	1107.00	
12 Hemerocallis mandariniana	"	3.00	42.00	
63 Laminum galathea	"	1.00	63.00	
92 Agrostis clavata	"	1.25	118.75	
30 Rudbeckia hirta	"	4.00	120.00	
76 Vinca major	one year	.25	19.00	
	Plant Sub Total		7,984.25	

Total Plant Materials Cost = \$23,570.30

B. Shelter:

As indicated on Sheet #6, "Terrace: Spot Elevations and Shelter Concept", the building sketch is only a suggestion as to how it might be designed. It is not intended to serve as a working drawing. The services of a competent architect should be engaged to provide the necessary working drawings for the shelter. An approximate cost estimate can be based on the 3200 square feet of roof area at \$2.50 per square foot (plywood).

Total Shelter Cost = \$5,250.00

C. Paving: Road

Amount	Material	Unit Price	Total
	thick w/4" gravel base.		
1. Terrace-			
70,650 sq. ft.	Concrete w/exposed pea gravel aggregate - 4" thick with 2"x4" redwood dividers or suitable substitutes.	.40/sq.ft.	\$28,260.00
2. Garden for blind-			
603 sq. ft.	Concrete w/exposed pea gravel aggregate - 4" thick.	.40/sq.ft.	\$241.20
103 sq. ft.	Concrete w/exposed blue chip aggregate - 4" thick.	.40/sq.ft.	\$41.20
	Sub Total		
	Concrete		

Amount	Material	Unit Price	Total
4. Fountain-	The approximate cost for a fountain to fit the given area in the garden for the blind will be \$1,000.00 including circulating system.		
		Sub Total	\$1,000.00
5. Sculpture-	The sculpture shown on Sheet #21 is purely a concept. A competent sculptor should be consulted for true design. Cost will be based on a percentage of total cost of project - approximately 6% ---		
		Sub Total	\$6,000.00
6. Entrance Gates-			
300 sq. ft.	Brick w/end columns	1.00/sq. ft.	300.00
		Sub Total	\$300.00
Total Cost of Construction Areas =			\$27,835.00

Final Cost Estimates

Item	Totals	Grand Totals
A. Planting materials	\$23,570.30	
B. Shelter	5,250.00	
C. Paving	41,172.40	
D. Construction Areas	27,835.00	
Totals	\$97,827.70	\$97,827.70*

*Note: Labor, equipment, and topsoil are not included in this cost estimate. It is understood that these items will be furnished by the Milledgeville State Hospital.

Amount	Material	Unit Price	Total
3. Walks-			
a. Garden walks & sitting area -			
5070 sq. ft.	Concrete w/exposed pea gravel aggregate 4" thick with 2"x4" redwood dividers or suitable substitute.	.40/sq. ft.	\$2028.00
b. Entrance walks-			
2190 sq. ft.	4" thick concrete	.30/sq. ft.	\$657.00
c. Nature walks-			
9150 sq. ft.	Soil cement-4" thick	.10/sq. ft.	\$915.00
d. Entrance Road			
30,100 sq. ft.	Asphalt - 4" thick w/4" gravel base.	.30/sq. ft.	\$9030.00
Total Paving Materials Cost = \$41,172.40			
D. Construction Areas:			
Retaining Walls-			
855 lin. ft.	Concrete	\$20.00/lin. ft.	\$17,100.00
Sub Total			\$17,100.00
2. Sitting walls for terrace-			
262 lin. ft.	Concrete sitting walls with brick veneer facing.	5.00/lin. ft.	1,310.00
Sub Total			\$1,310.00
3. Steps-			
425 cu. ft.	Concrete	5.00/cu. ft.	\$2,125.00
Sub Total			\$2,125.00

CONTRACTS AND SPECIFICATIONS

It is recommended that the working contracts and specifications for the Rehabilitation Garden, Milledgeville State Hospital, be prepared by the engineers and officials who will be in charge of the construction of the garden.

The Cost Estimate previously stated is an approximate estimate and will probably vary greatly with the construction contracts and specifications and with the materials sources.

APPENDIX

Amount	Material	Unit Price	Total
4. Fountain- The approximate cost for a fountain to fit the given area in the garden for the blind will be \$1,000.00 including circulating system.			
			\$1,000.00
5. Sculpture- The sculpture shown on Sheet #21 is purely a concept. A competent sculptor should be consulted for the design. Cost will be based on a percentage of total cost of project - approximately 8% ---			
			\$8,000.00
			\$8,000.00
6. Entrance Gates-			
	300 sq. ft.	Brick w/ end columns 1.00/sq. ft.	300.00
			\$300.00
			\$27,835.00
Total Cost of Construction Area =			
Final Cost Estimates			
Item	Totals	Grand Totals	
A. Planting materials	\$23,570.00		
B. Shelter	5,250.00		
C. Paving	41,172.40		
D. Construction Areas	27,835.00		
Totals	\$97,827.40		\$97,827.40*

*Note: Labor, equipment, and topsoil are not included in this cost estimate. It is understood that these items will be furnished by the Milledgeville State Hospital.

CONTRACTS AND SPECIFICATIONS

It is recommended that the working contracts and specifications for the Rehabilitation Garden, Milledgeville State Hospital, be prepared by the engineers and officials who will be in charge of the construction of the garden. The Cost Estimate previously stated is an approximate estimate and will probably vary greatly with the construction contracts and specifications and with the materials sources.

PERENNIAL GRASSES AND PERENNIALS FOR THE REHABILITATION GARDEN

MILLEDGEVILLE STATE HOSPITAL, MILLEDGEVILLE, GEORGIA

"All the great thinkers, however filled with theories and theorems stand humbly, hat in hand before a growing blade of grass."

POA SEMPERVIRENS - BLUE OAT - GRAMINEAE

Fall sun, 2-2 1/2 ft., clump, blue, semi-evergreen, flower May. In early spring cut off old leaves, do not cut leaves at any time, watch for young leaves in the spring they appear very early. Cut off flowers after they become unsightly. Good soil, but sufficient moisture, if it is too dry plant becomes yellow in summer.

Propagation: Division in fall, transplant in fall or early spring (cool season) 1 ft. o.c. Fertilize lightly in fall and spring.

APPENDIX

CAREX PENDULA - SEDGE - CYPERACEAE

Shade and semi-shade, 2-3 ft., clump, green evergreen - flowers April and May. Cut off brown leaves in spring, do not cut entire leaf - just the part which browned off during winter. It prefers rich and moist soil, grows on edge of ponds in water. Propagation: Seed in early spring, transplant spring or fall - 3 ft. o.c. Fertilize in spring, likes manure and peat moss.

ELYNUS GLAUCUS - BLUE WILD RYE - GRAMINEAE

Fall sun, 2-5 ft., spreading, blue, semi-evergreen, flower May. Cut off brown leaves in spring, watch for young leaves because they appear very early in spring. Good ground cover for any soil and sunny location, not too dry, spreading through underground roots. Propagation: Root division, spring or fall, transplant spring or fall. 3 ft. o.c. Fertilize lightly in spring.

QUANTHUS RAVENNAE - RAVENNAGRASS - GRAMINEAE

Fall sun, 6-8 ft., clump, green, flower fall (Sept.) tall plume. In early spring cut off all leaves close to the ground (all the leaves die off during the winter), cut off flower stalks in winter if they start to fall down. Propagation: Division of clumps early spring, transplant spring, likes peat moss and manure. Fertilize several times during growing season.

FESTUCA GLAUCA SUPERBA - BLUE FESCUE - GRAMINEAE

Fall sun, 8-10 inches with bloom, clump, blue, semi-evergreen flower May. Cut

ORNAMENTAL GRASSES AND PERENNIALS FOR THE REHABILITATION GARDEN

MILLEDGEVILLE STATE HOSPITAL, MILLEDGEVILLE, GEORGIA

"All the great thinkers, however filled with theories and theorems stand humbly, hat in hand before a growing blade of grass."

1. AVENA SEMPERVIRENS - BLUE OAT - GRAMINEAE

Full sun, 2-2 1/2 ft., clump, blue, semi-evergreen, flower May. In early spring comb out old leaves, do not cut leaves at any time, watch for young leaves in the spring; they appear very early. Cut off flowers after they become unsightly. Normal soil, but sufficient moisture, if it is too dry plant becomes yellow in summer.

Propagation: Division in fall, transplant in fall or early spring (cool season) 2 ft. o.c. Fertilize lightly in fall and spring.

2. CAREX PENDULA - SEDGE - CYPERACEAE

Shade and semi-shade, 2-3 ft., clump, green evergreen - flowers April and May. Cut off brown leaves in spring, do not cut entire leaf - just the part which browned off during winter. It prefers rich and moist soil, grows on edge of ponds in water. Propagation: Seed in early spring, transplant spring or fall - 3 ft. o.c. Fertilize in spring, likes manure and peat moss.

3. ELYMUS GLAUCUS - BLUE WILD RYE - GRAMINEAE

Full sun, 2-3 ft., spreading, blue, semi-evergreen, flower May. Cut off brown leaves in spring, watch for young leaves because they appear very early in spring. A good ground cover for any soil and sunny location, not too dry, spreading through underground roots.

Propagation: Root division, spring or fall, transplant spring or fall. 3 ft. o.c. Fertilize lightly in spring.

4. ERIANTHUS RAVENNAE - RAVENNAGRASS - GRAMINEAE

Full sun, 6-8 ft., clump, green, flower fall (Sept.) tall plume. In early spring cut off all leaves close to the ground (all the leaves die off during the winter), cut off flower stalks in winter if they start to fall down.

Propagation: Division of clumps early spring, transplant spring, likes peat moss and manure. Fertilize several times during growing season.

5. FESTUCA GLAUCA SUPERBA - BLUE FESCUE - GRAMINEAE

Full sun, 8-10 inches with bloom, clump, blue, semi-evergreen flower May. Cut

off flowers after they become unsightly, do not cut too low, even if brown flower stalks show, otherwise the sun burns out the clump.
Propagation: Division of clump, fall, transplant fall or spring (cool season), normal soil, 18 inches o.c. Fertilize lightly in fall and spring.

MISCANTHUS CHINENSIS - EULALIA - GRAMINEAE

Full sun and light shade, 6 ft., clump, green, flower (plume) Sept. - Oct., will persist all winter, leaves turn golden yellow in winter. Cut off leaves close to the ground in early spring, before the young leaves appear.
Propagation: Division of clumps, spring, transplant spring, likes manure and peat moss. Fertilize several times during growing season.

MISCANTHUS CHINENSIS GIGANTEUS - EULALIA - GRAMINEAE

Full sun and light shade, 10 ft. +, clump, green, flower (plume) Sept. - Oct., will persist all winter, leaves turn golden yellow in winter. Same requirements as M. chinensis, individual stalks are thicker and taller. If some of the lower leaves brown off during the summer, this is an indication of lack of water and it can be easily corrected by watering more with some application of fertilizer.

PENNISETUM COMPRESSUM - FOUNTAIN GRASS - GRAMINEAE

Full sun, 2-3 ft., clump, green fuzzy flower Sept., leaves turn golden yellow after frost. Flowers will disappear during winter. It will seed itself somewhat. Cut off leaves close to the ground in spring, before young leaves appear. Should have fairly good soil and sufficient moisture otherwise leaves are wilting and dying off.
Propagation: Division of clumps or seeds in spring, transplant spring, fairly good soil - manure and peat moss. Fertilize several times during growing season. 3 ft. o.c.

SPARTINA MICHAUXIANA - CORD GRASS - GRAMINEAE

Full sun, 4 ft., clump but spreading through underground roots, delicate yellow-striped, flower Sept. Leaves very pendulous and graceful, turns yellow after frost. Cut off close to the ground in early spring, before young leaves appear, allow plenty of room for clump, can be made smaller by digging up unnecessary shoots.
Propagation: Division of roots in spring, transplant spring, likes peat moss and fertilizer. Fertilize several times during growing season.

PERENNIALS

10. ACANTHUS MOLLIS - BEAR'S BREECH - ACANTHACEAE

Full sun, semi-shade, 3 ft., flower during the summer (June) clumps have to get

old before they flower. Well drained location, but sufficient moisture, otherwise roots rot in winter, in northern area some winter protection is advisable. The Acanthus leaf was used as the suggestion for the foliage decoration on the capitols of the Corinthian and other columns.
Propagation: Seed and root cuttings. Transplant spring. 3 ft. o.c. Fertilize several times during growing season.

11. ANCHUSA MYOSOTIDIFLORA - ALKANET - BORAGINACEAE
(BRUNNERA MACROPHYLLA)

Shade, 1 ft., blue flower like forget-me-not, early spring, March-April. Handsome dark green leaves remaining all through summer. Sufficient moisture is important. Leaves die off in the winter.
Propagation: Seed (often seeds itself). Transplant spring or fall, likes peatmoss and manure. 2 o.c. Slight fertilize in spring.

12. ARUNCUS SYLVESTER - GOAT'S BEARD - ROSACEAE

Shade and semi-shade, 4 ft. White flowers in May-June. Makes heavy bushy clumps, improves with age, does not grow much the first year after transplanting. Cut off dead stalks in spring, young leaves appear quite early.
Propagation: Seed or division of clumps. Transplanting early spring or fall, likes peatmoss and manure. 3 ft. o.c. Give it a top dressing of manure in fall or spring.

13. ASTILBE CHINENSIS - CHINESE ASTILBE - SAXIFRAGACEAE

Shade and semi-shade, 2-3 ft. Pink flowers about May-June. Good tall ground-cover for shade, should have sufficient moisture. This is the only Astilbe which spreads by rootsuckers. One of the toughest of the Astilbes.
Propagation: Seed or division of clumps fall or spring. Transplant fall or spring, likes peatmoss and manure. 2 ft. o.c. Fertilize spring.

14. BOCCONIA CORDATA (MACLEA) - PLUME POPPY - PAPAVERACEAE

Sun and semi-shade, 8-10 ft. Off-white flowers in July (plumes). Striking perennial, needs good soil and sufficient moisture to develop well. Makes rootsuckers, which can be dug up for propagation. Allow plenty of space to spread, and do not plant delicate plants close by. Good in front of walls, etc. or a background of trees and shrubs. Cut off dead stalks after frost or spring.
Propagation: Suckers in the spring. Transplant spring, likes peatmoss and manure. Give a top dressing of manure in fall or spring. Fertilize several times during the growing season.

15. BERGENIA CORDIFOLIA - MEGASEA - SAXIFRAGACEAE

Sun and shade, 1 ft., evergreen, pink to red flowers in early spring (March-April)

15. Good groundcover, should have sufficient moisture.
Propagation: Division of clumps (thick rootstock) Transplant fall and spring, likes peatmoss and manure. 2 ft. o.c. Fertilize when necessary anytime.
16. CERATOSTIGMA PLUMBAGINOIDES - PLUMBAGO - PLUMBAGINACEAE
Sun, hot and dry location, 8-12 inches, blue flowers Sept. until frost. Leaves turn red in fall. This is a good groundcover for sunny location and does well under roof overhangs. It will come out late in the spring. Increased by root suckers. Cut off leaves in spring.
Propagation: Soft wood cuttings all summer under mist. Transplanting: Best time spring into early summer, any good soil. 2 ft. o.c. Fertilize spring.
17. COREOPSIS VERTICILLATA - TICKSEED - COMPOSITAE
Sun, 2 ft., yellow flowers July-August, finely cut foliage. A good plant for massing, makes a dense cover, increases by rootsuckers (yellow roots). Cut off leaves after frost or in spring.
Propagation: Division of clumps or cuttings in early spring. Transplant fall or spring. Any good soil. 2 ft. o.c. Fertilize spring.
18. CALLUNA VULGARIS - SCOTCH HEATHER - ERICACEAE
Sun and semi-shade, 8-10 in., white-pink to red flowers July-Sept. It flowers more abundantly in full sun. It should be planted with plenty of peatmoss and/or leafmold (acid organic matter), should have good drainage but sufficient moisture. Cut off old flowers in spring to encourage dense growth. Makes a dense maintenance free groundcover, but initial soil preparation is important and also likes top dressing with peatmoss. It is best to cover the planting area with about 6" of peatmoss (the coarse type).
Propagation: Cuttings summer to fall, transplant fall and spring, 18 in. o.c. Fertilize spring.
19. CHRYSANTHEMUM NIPPONICUM - COMPOSITAE
Sun, 2 ft., white daisy-like flowers, October. Woody stem, fleshy, shiny leaves. Cut off dead branches in the spring, freezes back in the north, but comes back from the base. Needs fairly good soil and sufficient moisture. 3 ft. o.c. Fertilize spring and during growing season.
20. CHRYSANTHEMUM ARCTICUM - COMPOSITAE
Sun and semi-shade, 1-2 ft., white daisy-like flowers Sept.-Oct. Good ground-cover, spreads quickly by underground rootsuckers. Cut off dead leaves in early spring and summer.

21. ERICA CARNEA - SPRING HEATH - ERICACEAE

Sun and semi-shade, white-pink to red flowers in early spring (March-April). Similar requirements as Calluna, but grows either in alkali or acid soil, but thrives best in plenty of organic matter (peatmoss). Cut off flowers in spring to encourage bushy growth.

Propagation: Cuttings summer to fall. Transplant fall or spring; likes top dressing with peatmoss. 18 in. o.c. Fertilize spring.

22. ECHINOPS RITRO - GLOBE THISTLE - COMPOSITAE

Sun 3-4 ft., blue round flowers, May - fall in succession. A good plant for small groupings and individual plants. Cut off dead leaves in spring.

Propagation: Seeds or division of clumps. Transplant spring or fall, any good soil. 3 ft. o.c. Fertilize in spring and late summer to encourage more flowers.

23. EPIMEDIUM SULPHUREUM - BARRENWORT - BERBERIDACEAE

Shade, 1 ft., yellow flowers about April before the leaves appear. Red fall color, leaves will persist for a long time in fall. A good groundcover in shade, increases by a thick rootstock, soil should be sufficiently moist. Cut off leaves in early spring.

Propagation: Division of rootstock, fall and winter. Transplanting fall or spring; Likes plenty of peatmoss. 18 in. o.c. Fertilize slightly in spring.

24. FERNS

CYRTOMIUM FALCATUM - HOLLYFERN - EVERGREEN

(2 feet)

ADIANTUM PEDATUM - MAIDENHAIRFERN - DECIDUOUS

(2 feet)

MATTEUCIA STRUTHIOPTERIS - OSTRICH FERN - DECIDUOUS

(3-4 feet)

Shade, need sufficient moisture to develop well.

Propagation: Division or spore, likes peatmoss and leafmold (humus), no fertilizer except topdressing with peatmoss.

25. GUNNERA MANICATA - HALORAGIDACEAE

Shade and semi-shade, 10-15 ft., individual leaf 4-6 ft. across. Sufficient moisture is essential, ground should not be allowed to dry out. In the winter the drainage should be good otherwise the crown might rot.

Propagation: Seed or cuttings (not too easy to propagate). Transplant spring; give plenty of manure and peatmoss, topdress every year, and fertilize several times during summer.

16. HELLEBORUS ORIENTALIS - LENTEN ROSE - RANUNCULACEAE

Semi-shade and shade, 1-2 ft. flowers, different shades, early spring and fall. Evergreen leaves. A good groundcover for moist and shady locations. No maintenance.

Propagation: Seed or division of clumps. Transplant in spring or fall. 2 ft. o. c. Likes peatmoss and manure. Topdress every year with manure and peatmoss.

17. HELIANTHUS SALICIFOLIUS - WILLOWLEAF SUNFLOWER - COMPOSITAE

Sun, 8-10 ft. willowlike leaves, yellow flowers in October, but not so important. A striking perennial, should be cut back 1/3 about in May-June to make it more stocky, otherwise in late fall the stalks have the tendency to become leggy and fall over easily.

Propagation: Division fall and spring. Transplant spring and fall, any reasonable soil. Fertilize spring.

18. HERACLEUM MANTEGAZZIANUM - COWPARSHIP - UMBELLIFERAE

Sun and semi-shade, 8-10 ft., white flowers in June-July. This is a striking plant. It is mostly biennial, but sometimes they survive more years. It will seed itself readily. Should have good deep soil, best along edges of ponds or streams. Cut off dead stalks and leaves after the seeds have ripened.

Propagation: Seed in early spring (flowers the following year). Transplant when fairly small (first year) or allow seedling to grow up and thin out. Likes peatmoss and manure. Fertilize several times during the growing seasons.

19. IRIS SIBIRICA - SIBERIAN IRIS - IRIDACEAE

Sun and semi-shade, 3 ft., white or blue flowers May. Cut off leaves in early spring, makes a dense clump. If clumps get too big, they should be divided. Propagation. Division of clumps or seed. Transplant in fall or spring, 2 ft. o. c. Any reasonable soil. Fertilize in spring.

20. LAMIUM GALEOBDOLON - ARCHANGEL DEADNETTEL - LABIATAE

Shade, 1-2 ft., silver-green leaf, flower insignificant in spring, evergreen leaves. Is good groundcover for the shade, grows rapidly, branches make roots wherever they touch the soil, allow plenty of room, no maintenance, should have sufficient moisture.

Propagation: Cuttings any time of the year. Transplant spring and fall, 3 ft. o. c. Fertilizer not necessary.

21. LAVANDULA OFFICINALIS (VERA) - LAVANDER - LABIATAE

Sun, 1-2 ft. gray aromatic foliage and flowers (blue) June-Sept. Woody structure evergreen. A good groundcover, where gray foliage is desirable. Should be cut

31. back if it becomes too leggy.
Propagation: Cuttings, transplant spring or fall. 2 ft. o.c. Fertilize slightly in spring.
32. **LIGULARIA CLIVORUM (SENECIO) - BIGLEAF GOLDENRAY - COMPOSITAE**

Shade and semi-shade, 3 ft., yellow daisy-like flowers June-July. Striking perennial with big leaves, needs plenty of moisture and a cool location, protect from hot afternoon sun, otherwise leaves will wilt. Cut off dead leaves in spring. Propagation: Seed or division of clumps. Transplant spring and fall, likes plenty of peatmoss and manure, 3 ft. o.c. Fertilize during growing season and top dress with manure in fall or spring.
33. **NEPETA MUSSINI - CATNIP - LABIATAE**

Sun 1-2 ft. aromatic slightly greyish leaves, blue flowers. May to fall in succession. A good groundcover for massing. Should be cut back to the ground every spring. If finished flowers are cut off during the summer, a succession of flowers are more reliable.
Propagation: Cuttings, division of clumps. Transplant spring or fall, any good soil, 3 ft. o.c. Fertilize slightly in spring.
34. **POLYGONUM AFFINE - HIMALAYAN FLEECEFLOWER - POLYGONACEAE**

Full sun and semi-shade, 6 inches, pink to red flowers all summer. This is a good low groundcover, the stems make roots wherever they touch the soil. Cut off dead leaves in spring.
Propagation: Cuttings late summer, transplant spring, 18 inches. Fertilize slightly in spring, will grow in any good soil.
35. **POLYGONUM REYNOUTRIA - LOW JAPANESE FLEECEFLOWER - POLYGONACEAE (CUSPIDATUM COMPACTUM)**

Full sun, 2 ft., pink to red flowers Sept.-Oct. Red fall color. Is good groundcover for hot and dry locations, increases by underground roots, any piece of roots makes a new plant. Cut off dead stalks in spring.
Propagation: Division of clumps and cuttings early spring. Transplant spring and fall. 3 ft. o.c. Fertilize spring.
36. **PACHISTIMA CANBYI - CELASTRACEAE**

Sun and shade, 1-2 ft., evergreen shrub. Is good groundcover shrub, should have sufficient moisture. No maintenance, likes peat moss topdressing.
Propagation: Cuttings all summer under mist. Transplant spring and fall. Likes plenty of peatmoss and leafmold. 2 ft. o.c. Fertilize spring.

77. **RUDBECKIA GOLDSTRUM - BLACK-EYED SUSAN - COMPOSITAE**
RUDBECKIA NEWMANNI (SPECIOSA)

Sun and semi-shade. 2 ft., yellow flowers July-Sept. Good for massing and color effect. Cut off dead leaves in spring.

Propagation: Cuttings early spring, division of clumps, transplant fall and spring, likes fairly good soil and manure. Fertilize during growing season.

88. **RODGERSIA AESCULIFOLIA - RODGERS FLOWER - SAXIFRAGACEAE**

Shade, 2-3 ft., white flowers May-June. A good groundcover and texture plant for the shade, should be allowed to grow ancient in one place. Cut off dead leaves in spring; has thick creeping rootstock.

Propagation: Seeds or division of clumps. Transplant spring and fall, likes plenty of peatmoss and manure. 3 ft. o.c. Fertilize during growing season.

89. **SALVIA OSTFRIESLAND AND SUPERBA - SAGE - LABIATAE**

Sun, 15 in to 2 1/2 ft. respectively, blue flowers June-Sept. Cut off dead stalks in spring or fall after frost. To prolong the blooming season, nip off flowers as soon as they have finished blooming.

Propagation: Cuttings early spring. Transplant spring and fall, any good soil. Fertilize spring; 3 ft. o.c.

90. **SANTOLINA VIRIDIS - LAVENDER COTTON**

Sun, 1-2 ft., evergreen, yellow flowers June-July, aromatic foliage, woody structure. A good groundcover for any reasonable soil. It needs cutting back, when it becomes leggy or in spring the browned off parts should be cut.

Propagation: Cuttings. Transplant spring or fall. 3 ft. o.c. Fertilize slightly in spring.

91. **SEDUM SPURIUM ALBUM SUPERBUM - CRASSULACEAE**

Sun, semi-shade, 4 in., no flowers. Low groundcover, no maintenance.

Propagation: Cuttings, divisions spring. Transplanting spring and fall. Any reasonable soil; 2 ft. o.c.

92. **STACHYS LANATA (OLYMICA) - LAMB'S EAR - LABIATAE**

Sun, 12 in. woolly gray leaves, pinkish flowers June-July. A good groundcover for sunny locations and where a gray color is desirable. Cut old leaves in spring.

Propagation: Division and cuttings. Transplant spring or fall. 2 ft. o.c. Fertilize slightly in spring.

VERBASCUM OLYMPICUM
VERBASCUM PANNOSUM
VERBASCUM PULVERULENTUM

MULLEN - SCROPHULARIACEAE

Sun, 6-8 ft., Grayish woolly leaves, yellow flower spikes. June-July. A striking biennial, seeds itself readily, thin out unwanted seedlings. Cut off stalks after seeds have developed.

Propagation: Seed. Transplant spring and fall. 5 ft. o. c. Fertilize spring.

ROTHMUNDIA GLOBOSA - BLACK-HEADED - COMPOSITAE
ROTHMUNDIA NEWMANII (SCROPHULARIACEAE)

Stems semi-erect, 2 ft., yellow flowers July-Sept. Good for massing and color effect. Cut off dead leaves in spring. Propagation: Cuttings early spring. Division of clumps, transplant fall and spring. Likes fairly good soil and moisture. Fertilize during growing season.

RODGERIA AEGILOIDES - RODGER'S FLOWER - SAXIFRAGACEAE

Shade, 2-3 ft., white flowers May-June. A good groundcover and texture plant for the shade, should be allowed to grow and cut in one place. Cut off dead leaves in spring and black rhizomatous. Propagation: Seeds or division of clumps. Transplant spring and fall, likes shade, moisture and moisture. 3 ft. o. c. Fertilize during growing season.

OSTYRIA OSTYRIENSIS AND SUBULNA - SAGE - LABIATAE

Shade, 12 in. to 2 ft., respectively, blue flowers June-Sept. Cut off dead stalks in spring or after frost. To prolong the blooming season, nip off flowers as soon as they have finished blooming. Propagation: Cuttings early spring. Transplant spring and fall, any good soil. Fertilize spring 3 ft. o. c.

SANTOLIA VIRIDIS - LAVENDER COTTON

Sun, 1-2 ft., evergreen, yellow flowers June-July, aromatic foliage, weakly aromatic. A good groundcover for any reasonable soil. It needs cutting back when it becomes leggy or in spring the browned off parts should be cut. Propagation: Cuttings, transplant spring or fall. 3 ft. o. c. Fertilize spring in spring.

SETUM SPURM ALBUM SUBULNA - GRASSIACEAE

Sun, semi-erect, 4 in., no flowers. Low groundcover, no maintenance. Propagation: Cuttings, division spring and fall. Any reasonable soil. 3 ft. o. c.

STACHYS LANATA (OLYNTICA) - LAMB'S EAR - LABIATAE

Sun, 12 in. woolly gray leaves, pinkish flowers June-July. A good groundcover for sunny locations and where a gray color is desirable. Cut old leaves in spring. Propagation: Division and cuttings. Transplant spring or fall. 2 ft. o. c. Fertilize slightly in spring.

MILLEN - SCROPHULARIACEAE

VERBASCUM OXYMURICUM
VERBASCUM PANICULATUM
VERBASCUM POLIVENTRUM

June-July. A striking
yellow flower spikes.
Cut off spikes after
seeds have developed.
Transplant spring and fall. 5 ft. o.c. Fertilize spring.

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