



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DIVISION, OHIO RIVER
CORPS OF ENGINEERS
P. O. BOX 1159
CINCINNATI, OHIO 45201-1159

CEORD-CO-R

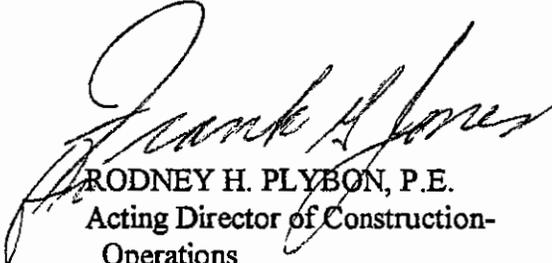
16 August 1994

MEMORANDUM FOR Commander, Louisville District, ATTN: CEORL-PD-F

SUBJECT: Caesar Creek Lake Master Plan

The Master Plan for Caesar Creek Lake is approved.

FOR THE COMMANDER:


RODNEY H. PLYBON, P.E.
Acting Director of Construction-
Operations



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
P.O. BOX 59
LOUISVILLE, KENTUCKY 40201-0059

CEORL-PD-F (1110-2-1150a)

02 July 1991

MEMORANDUM FOR Commander, Ohio River Division
ATTN: CEORD-CO-OE

SUBJECT: Master Plan, Caesar Creek Lake, Ohio

1. Eight copies of the subject plan are submitted for your review and approval.
2. Reference: CEORL-PD-F letter dated 27 September 1988, Subject: Caesar Creek Lake, Ohio, Master Plan, D.M. No. 15; and CEORD-PD-R 1st End dated 7 December 1988.
3. All comments contained in the referenced endorsement have been given positive consideration. Also visitation and population figures have been updated since the Draft Master Plan was submitted. As a result of the substantial decline in visitation at the project in 1989 and 1990, use and need projections have been reevaluated. We now believe that the use of this lake area has peaked and that visitation will average between 1,000,000 and 1,250,000 for the foreseeable future. As a result of the change in future estimates of use, only a very small program of additional development is recommended.
4. Although this plan was prepared largely before ER 1130-2-435 was published, the plan follows the guidance in land allocation and classification. There has been no subclassification of lands in the Multiple Resource Management category because the Department of Natural Resources must prepare plans for the management concepts they believe are appropriate under the Memorandums of Understanding and Agreement of May 1990.
5. This plan was also virtually complete before CEORD issued guidance on combining Master Plans and Operation Management Plans. Since guidance for combining plans is still in draft form, we believe this document should be left as a "stand alone" product.

FOR THE COMMANDER:

ROBERT G. FULLER
Chief, Planning Division

CAESAR CREEK LAKE
LITTLE MIAMI RIVER BASIN
OHIO

DESIGN MEMORANDUM NO. 15
MASTER PLAN

MASTER PLAN
TABLE OF CONTENTS

SECTION 1 - INTRODUCTION

1-01	Authorization	1-1
1-02	Project Purposes	1-1
1-03	Purpose and Scope of the Updated Master Plan	1-1
1-04	Prior Pertinent Design Memoranda	1-1

SECTION 2 - PROJECT DESCRIPTION

2-01	Project Location	2-1
2-02	Summarized Project Data	2-1
	a. Lake	2-1
	b. Embankment	2-1
	c. Spillway	2-1
	d. Outlet Works	2-1
	e. Real Estate	2-1
2-03	Project Construction	2-2
2-04	Lake Operation	2-2
2-05	Project Resources	2-2

SECTION 3 - FACTORS INFLUENCING RESOURCE DEVELOPMENT AND
MANAGEMENT

3-01	Area of Influence	3-1
3-02	Accessibility	3-1
3-03	Population	3-1
3-04	Related Recreational and Historical Areas	3-2
3-05	Attendance	3-3
3-06	Reservoir Plan of Operation	3-4
3-07	Topography and Geology	3-4
3-08	Soils	3-4
3-09	Climate	3-5
3-10	Scenic Qualities	3-6
3-11	Biology	3-6
	a. Rare and Endangered Species	3-6
	b. Vegetation	3-6
	c. Fauna	3-7
3-12	Archaeology	3-8
3-13	History	3-8
3-14	Water Quality	3-10

SECTION 4 - EXISTING DEVELOPMENT AT PUBLIC USE AREAS

4-01	Land Allocation	4-1
4-02	Classification of Operations Lands	4-1
4-03	Bases for Future Subclassification	4-1
4-04	Water Zoning	4-1
4-05	Caesar Creek Operations Area, Compartment No. 1	4-3
	a. Project Operations Area	4-3
	b. Visitor Center and Miami River Area Office	4-3
	c. Tailwater, Gorge	4-4
	d. Flat Fork Area	4-4

MASTER PLAN
TABLE OF CONTENTS (Cont'd)

	<u>Page</u>
4-06 Lake View Site, Compartment No. 2	4-4
4-07 Furnas Shores Site, Compartment No. 3	4-5
a. Horse Camp Area	4-5
b. Beach Area	4-5
c. Furnas Shores Ramp	4-6
4-08 Wildlife Management Areas, Compartment No. 4	4-6
4-09 Mound Ridge Camp Ground, Compartment No. 5A	4-6
4-10 Harveysburg Shore, Compartment 5B	4-7
4-11 Wellman Meadows Site, Compartment No. 6	4-7
a. Fifty Springs	4-7
b. Lukens Road	4-7
c. Caesar Creek Pioneer Village	4-7
d. Wellman Meadows Boat Ramp	4-8
 SECTION 5 COORDINATION	
5-01 Coordination	5-1
 SECTION 6 FACILITY NEEDS AND OTHER DESIGN CRITERIA	
6-01 Needs Analysis	6-1
6-02 Design Criteria	6-2
 SECTION 7 - CONTINUING DEVELOPMENT AND MANAGEMENT	
7-01 General	7-1
7-02 Operations Area, Compartment No. 1	7-1
7-03 Lake View, Compartment No. 2	7-1
7-04 Furnas Shores, Compartment No. 3	7-2
7-05 Wildlife Area, Compartment No. 4	7-2
7-06 Mounds Ridge, Compartment No. 5A	7-2
7-07 Wellman Meadows, Compartment No. 6	7-3
7-08 Summary of Proposed Facilities	7-3
7-09 Cost Estimates	7-4
 SECTION 8 - PROJECT RESOURCE MANAGEMENT	
8-01 Operational Concepts and Policies	8-1
8-02 Staffing and Organization	8-1
8-03 Project Staffing	8-2
8-04 Administration and Maintenance	8-3
8-05 Vegetation and Forest Management	8-4
8-06 Visitor Assistance	8-5
8-07 Outgrants	8-5
8-08 Concession Activities	8-6
8-09 Visitor Interpretation	8-6
 SECTION 9 - CONCLUSIONS AND RECOMMENDATIONS	
9-01 Conclusions	9-1
9-02 Recommendations	9-1

EXHIBIT

Lease to Ohio Department of Natural Resources
Comments on the Draft Master Plan by ODNR

PLATES

<u>Title</u>	<u>Plate No.</u>
Lake Area Map	1
Land Allocation	2
Water Zoning	3
Compartment Map	4
Index Map	5
Operations Area - Compartment #1	6.01
Lake View Site - Compartment #2	6.02-6.03
Furnas Shores - Compartment #3	6.03-6.08
Wildlife Area - Compartment #4	6.08-6.13
Mound Ridge Campground - Compartment #5A	6.14-6.16
Harveysburg Shores - Compartment #5B	6.17-6.19
Wellman Meadows - Compartment #6	6.20-6.23
Caesar Creek Pioneer Village	7

TABLES

<u>No.</u>	<u>Title</u>	<u>Page</u>
1	Population, Market Area, Caesar Creek Lake	3-2
2	Recreation Areas and Points of Interest	3-3
3	Attendance, Caesar Creek Lake	3-4
4	Allocation and Classification Caesar Creek Lake Project Lands	4-2
5	Facility Demand and Needs	6-1
6	Facilities Required	7-4
7	Summary of Costs, Facilities Suitable for Cost Sharing	7-5
8	Cost Estimate, Needed Facilities Operations Area	7-5
9	Cost Estimate, Floating Marina	7-6
10	Cost Estimate, Facilities Suited for Cost Sharing	7-6

CAESAR CREEK LAKE AND DAM
MASTER PLAN
DESIGN MEMORANDUM NO. 15

SECTION 1 - INTRODUCTION

1-01 AUTHORIZATION. The project was authorized by the Flood Control Act of 28 June 1938 (Public Law No. 761, 75th Congress, 1st Session). Post-authorization changes include water supply and water quality control as project purposes within the purview of the Water Supply Act of 1958, as amended (Public Law 85-500), and the Water Pollution Control Act of 1961 (Public Law 87-88).

1-02 PROJECT PURPOSES. This multipurpose lake will furnish flood protection to the Little Miami River and reduce stages at all points downstream along the Ohio River as a unit in the comprehensive plan for the Ohio River Basin. The lake will also be operated for the storage of water for water supply and low flow augmentation, and for recreation and fish and wildlife activities.

1-03 PURPOSE AND SCOPE OF THE MASTER PLAN. The purpose of this Design Memorandum is to present a plan for the effective utilization for public benefit of all of the project lands, waters, features and facilities. The plan also provides guidance for the continuing development of the project to meet changing public needs. The plan outlines the necessary policies and management practices required to adequately protect the project's scenic, biologic, and recreation resources to ensure maximum public benefit. The plan allocates lands for the various project purposes. The plan also outlines the administrative responsibilities for the State of Ohio, other entities, and the Corps of Engineers. The formulation of this plan involved an analysis of all recreation and use, actual and potential, of the reservoir land and water; the relationship of the existing facilities in the region; the distribution, characteristics, and recreation habits and desires of the surrounding population. The advice and assistance of other governmental agencies have been obtained on pertinent phases of the work. Coordination with fish and wildlife interests has been maintained in order to evaluate their needs and achieve a more complete utilization of all project lands and waters.

1-04 PRIOR PERTINENT DESIGN MEMORANDA. Although all of the Design Memoranda listed on this page have contributed to this plan, of particular use were the Preliminary Master Plan D.M. No. 7A and the Master Plan, D.M. No. 13.

Previously Issued Design Memoranda

<u>Design Memorandum No.</u>	<u>Title</u>
1	Report on Economics
2	Reservoir and Spillway
3	General Design Memorandum Appendix to G.D.M. Lab Tests
4	Concrete Aggregate

Previously Issued Design Memoranda (Cont'd)

<u>Design Memorandum No.</u>	<u>Title</u>
5	Dam and Spillway
6	Outlet Works
7A	Preliminary Master Plan
8	Warren County Roads
9	Real Estate Segments 1-14 and Roads
9A	Construction Area
9B	Real Estate Segments 15
9C	Real Estate Segments 16-22
10	Relocation - Ohio State Roads, Green and Clinton Counties
11	Dikes and Rock Test Fills
12	Relocation of Utilities
13	Master Plan (1973)
14	Lake Clearing

SECTION 2 - PROJECT DESCRIPTION

2-01 PROJECT LOCATION. The project is located on Caesar Creek, a tributary of the Little Miami River, in the southwestern part of Ohio, about 30 miles northeast of Cincinnati. The damsite in Warren County is about 3 miles upstream from the confluence of Caesar Creek and the Little Miami River. Although the flood pool elevation extends about 13 miles above the dam, most of the lake area is in Warren County with extremity areas in Clinton County and Greene County.

2-02 SUMMARIZED PROJECT DATA.

a. Lake.

Pool	Elevation of Pool	Capacity (Acre-feet)	Area (Acres)
Silt Reserve	800	13,300	700
Water Supply, Low Flow Augmentation	846	80,400	2,720
Seasonal	849	8,300	2,830
Flood Storage	883	148,500	6,110
Total Storage	883	242,200	6,110

Drainage above dam - 237 square miles
40 miles of shoreline

b. Embankment.

Dam type	Earth and Rock Fill
Top elevation	904.0
Maximum height, feet	166
Length, feet	2,650

c. Spillway.

Type	Open Cut through left abutment ridge
Crest elevation	883 feet msl
Bottom width of cut, feet	500

d. Outlet Works.

Type	Oval concrete conduit
Diameter, feet	8 x 12
Control gates, number	2 service 2 emergency
Size	4 x 12

e. Real Estate.

Fee	10,545 acres
Flowage Easement	1,326 acres
Utility and Highway Easements	171 acres
Outgrants, Public Parks and Recreation	9,472 acres

2-03 PROJECT CONSTRUCTION. Real estate acquisition began for the site of the dam and the dikes in 1968. Construction of project features began in August 1971 with the contract for the dikes. The contract for the outlet works, access roads, dam and spillway began in March 1972. To serve project needs during the construction phase of the project, the permanent shop building was placed under contract in August 1972 and was completed in April 1973. The dam was completed in 1976; however, utility relocations and road relocations were not finished until 1978 and 1979, respectively. Impoundment of the lake began in January 1978 and was completed by June.

The first contract for recreational facilities was for recreational buildings and was completed in 1976. Roads, ramps, and the beach were completed in 1978. Camping, picnicking, and the beach house were completed in 1981 with utility connections in 1982. The Caesar Creek Visitor Center was finished in 1982.

2-04 LAKE OPERATION. The project purposes for which the lake is operated are flood control, water quality control, water supply, wildlife management, and recreation. Consideration is also given to natural resource management, including forest conservation. The plan of operation provides for a normal winter impoundment of the water quality pool at elevation 846 and a summer recreational seasonal pool at elevation 849. The 849 seasonal regulation plan provides for gradually raising the reservoir pool during April. Seasonal pool will be maintained as nearly as possible through 15 September. Normally, seasonal pool storage will be uniformly reduced to reach winter pool on 30 November. This will provide a summer pool of 2,830 acres and a winter pool of 2,720 acres.

Projections based on stream discharge records (1939-1964) reveal seasonal pool elevation 849 would be attained about 85 percent of the years. During the 11 years of project operation, seasonal pool has been reached every year except 1988. Also in this period, there has been no drawdown for low flow augmentation or for water supply. However, during the summer of 1988, maintenance of the minimum release of 16 cubic feet per second caused the pool to drop below the seasonal pool level. There has been no sustained period of flood storage, although there are normally several periods each year where lake levels exceed the rule curve.

2-05 PROJECT RESOURCES. This project contains 7,715 acres of land above seasonal pool. Much of the land remains either grassland or grassland which is being allowed to grow up to shrubs and trees. There are only a few acres of mature woodlands at the project. The most prominent of these are located in the tailwater area and the northern parts of the Furnas Shores Site. Since there are few forested acres, timber management is relatively less important than vegetative management for recreation and wildlife. Reforestation is being accomplished as part of State and Federal management programs. Farm game species are the dominant hunting resource at the project which was used by 8,385 hunters in 1988. Also in 1988, 84,416 people camped, 101,434 picnicked, and 618,945 were sightseers on the project lands. The lake provided a resource for 78,930 boaters, 20,486 water skiers, and 191,315 swimmers. Also, 175,793 people fished in project waters.

SECTION 3
FACTORS INFLUENCING RESOURCE DEVELOPMENT AND MANAGEMENT

3-01 AREA OF INFLUENCE. The Caesar Creek Basin is located in close proximity to four metropolitan areas, namely: Cincinnati, Hamilton-Middletown, Dayton, and Springfield, Ohio. The project area is principally in Warren County with the upper reaches extending into Clinton and Greene Counties. Commercial services are available in the county seat communities of Lebanon and Wilmington. Land use in the project vicinity is primarily general farming and livestock operations. However, there are many new homes being built in the area around the project.

3-02 ACCESSIBILITY. State Route 380 parallels the reservoir on the east, and U.S. Route 42 parallels on the west. State Route 73, which has an east and west alignment, intersects the reservoir near midseasonal pool with a double bridged crossing. Interstate Route 71, a major northeast-southwest highway, passes approximately 3 miles to the southeast of the project with an interchange at State Route 73. Interstate 75 runs north-south approximately 10 miles from the lake.

An adequate network of all-weather gravel and blacktop county roads and paved state highways serve the area. These roads afford easy access to the project area from every direction.

3-03 POPULATION. The 1990 population of the three counties in which the reservoir is located is: Warren - 113,909; Clinton - 35,415; and Greene - 136,731. As can be seen from the following table, the counties of Greene and Warren have experienced above average population growth.

Population Trends, Counties in Caesar Creek Reservoir Area

County	Population						
	1940	1950	1960	1970	1980	1990	2010
Greene	35,863	58,892	94,642	125,057	129,769	136,731	130,573
Warren	29,894	38,505	65,711	84,925	99,276	113,909	121,187
Clinton	22,574	25,572	30,004	31,464	34,603	35,415	35,604
	88,331	122,969	190,357	241,446	263,648	286,055	287,364

The several large urban areas, all within 35 miles of the project area, will bear great influence on the visitation to Caesar Creek Lake. These metropolitan areas, their 1980 population and straight line distance from the damsite area are:

Middletown	46,022	18 miles
Dayton	182,044	21 miles
Hamilton	61,368	29 miles
Springfield	70,487	33 miles
Cincinnati	364,040	35 miles

A 50-mile market area includes a heavily populated area of northern Kentucky and a lightly populated area of Indiana. Population within a 50-mile radius of the dam as projected to future years is indicated to be:

TABLE 1
Population, Market Area, Caesar Creek Lake

County	Population		
	1980	1990	2010
<u>Indiana</u>			
Franklin	19,612	19,580	24,700
Union	6,860	6,976	7,300
<u>Kentucky</u>			
Campbell	83,317	83,866	77,284
Kenton	137,058	142,031	165,937
<u>Ohio</u>			
Brown	31,920	34,966	41,248
Butler	258,787	291,479	271,713
Champaign	33,649	36,019	31,133
Clark	150,236	147,548	143,590
Clermont	128,483	150,187	176,960
Clinton	34,603	35,415	35,604
Darke	55,096	53,619	48,666
Fayette	27,467	27,466	25,566
Greene	129,769	136,731	130,573
Hamilton	873,136	866,228	801,113
Highland	33,477	35,728	35,755
Madison	33,004	37,068	40,746
Miami	90,381	93,182	80,547
Montgomery	571,697	573,809	519,131
Preble	38,223	40,113	37,828
Warren	99,276	113,909	121,187
TOTAL	2,836,051	2,925,920	2,816,591

3-04 RELATED RECREATIONAL-HISTORICAL AREAS. There are a number of Corps of Engineers projects within the 50-mile zone of influence of the Caesar Creek project. These projects include Brookville Lake, Indiana, and W. H. Harsha Dam and Lake, Clarence J. Brown Dam and Reservoir, Paint Creek, Deer Creek, West Fork of Mill Creek Lake in Ohio.

There are also 13 state parks within 50 miles of the project, along with several other smaller areas of historical and cultural interest, that are administered by the State of Ohio. Following is a list of the state parks and other points of interest that are located within a radius of 50 miles from the dam.

TABLE 2
RECREATION AREAS AND POINTS OF INTEREST

State Park and Recreational Area	Total Area in acres	County	Water Area in acres	Distance from Caesar Creek Dam
Cowan State Park	1,700	Clinton	700	12 miles
Stonelick State Park	1,956	Clermont	200	19 miles
John Bryan State Park	789	Greene		24 miles
Hueston Woods State Park	3,524	Butler	625	38 miles
Rocky Fork State Park	3,584	Highland	2,080	39 miles
Madison State Park	180	Madison	100	46 miles
Kiser Lake State Park	736	Champaign	385	49 miles
Pike Lake State Park	500	Pike	13	49 miles
Sycamore State Park	2,295	Montgomery	5	42 miles
Little Miami Scenic Park	360	Warren, Hamilton, & Clermont	3	45 miles
Paint Creek Lake State Park	8,428	Highland	1,190	44 miles
East Fork Lake State Park	10,566	Clermont	2,160	42 miles
Buck Creek State Park	4,184	Clark	2,120	35 miles

Points of Interest	Distance from Caesar Creek Dam
Wright Brothers Memorial	21 miles
George Rogers Clark Park	36 miles
Fort St. Clair	37 miles
Gen. Grant's Birthplace	43 miles
Serpent Mound	47 miles
Ft. Ancient St. Memorial, Lebanon	15 miles
Hamilton County Parks	
Montgomery County Parks	

3-05 ATTENDANCE. Since completion of the recreation facilities in 1982, attendance at the Caesar Creek Lake project has averaged 1,130,000 visitors a year. Population in the market area is expected to remain stable without significant growth.

If this proves to be the case, attendance will continue near the present level, with seasonal variations which are the result of weather, local economic trends, and other local factors. Only a major program to develop additional facilities is likely to increase visitation significantly beyond 1,250,000.

TABLE 3
ATTENDANCE, CAESAR CREEK LAKE

Attendance From Collected Data

1978	709,708
1979	635,682
1980	815,062
1981	921,297
1982	942,830
1983	1,039,747
1984	1,042,438
1985	1,133,530
1986	1,224,582
1987	1,199,287
1988	1,234,549
1989	1,098,782
1990	1,089,431

3-06 RESERVOIR PLAN OF OPERATION. In the spring of each year, the lake level will be increased to provide a greater area for recreation use. The increase will be in accordance with the rule curve. At the end of the summer season, this storage is released. The release will permit an increase in the stream flow downstream from the reservoir, which will be beneficial at this season of the year and may supply water for household and industrial use. Project storage is also available for low flow augmentation and will be released when needed. To determine when these additional releases are needed, coordination with Federal and State Health Authorities, and the U.S. State Fish and Wildlife interests will be carried out during project operation. The reservoir will be operated for flood control when river stages downstream from the dam indicate necessity for reduction in stream flow.

3-07 TOPOGRAPHY AND GEOLOGY. The topography of the project is typically gently rolling with a few steep bluffs along stream valleys. Starting at the dam, Caesar Creek has formed a gorge about 300 feet deep downstream to the Little Miami river. There are several excellent areas for recreation development including scenic overlooks, launching ramps, and swimming beaches. Most of the shoreline north of State Highway 73 is gently sloping. South of Highway 73 the valley sides slope steeply into the lake. Caesar Creek lies in a glaciated area of Ohio. At the damsite Caesar Creek marks the southern limit of the Wisconsin deposits. Glacial deposits on the right bank are Wisconsin, and those on the left bank are Illinoian.

Caesar Creek flows over bedrock at the damsite with a valley width of about 300 feet. Bedrock in the valley is about elevation 724, and bedrock extends above spillway crest elevation 883 in both abutments. Bedrock is the Richmond Formation of interbedded limestone and shale, Ordovician in age.

Some 2-1/2 miles above the dam, Caesar Creek flows in a broad, meandering valley of glacial deposits. The general topography is one of broad, relatively flat drainage divides, which have been dissected by streams such as the Little Miami River, Caesar Creek, and tributaries. A dendritic drainage pattern has developed. Prior to the Illinoian glaciation, the drainage pattern was quite different from that of today. A southward flowing river, referred to as the "Hamilton River," cut a deep bedrock channel through Greene, Warren, and Clinton Counties. This preglacial river split between New Burlington and Harveysburg. The west arm of the river flowed in a southeast direction toward Ogden until it reached the present Todd Fork Valley, where it turned southwest, following the present Todd Fork Valley. Both arms of the river are now buried valleys. The arm does cross the reservoir about 5 miles upstream from the dam. Approximate top of bedrock in the buried valley is elevation 750. The drainage divide between Caesar Creek and the Little Miami River is located in the old Hamilton river bedrock channel. The drainage divide is a Wisconsinian end moraine that was deposited as hills and ridges at the edges of the glacier. The ridges are more or less well defined belts. The drainage divide is composed of clay till with interbedded sand and gravel.

3-08 SOILS. The Caesar Creek area is mostly in the Wisconsinian High-Lime Till Soil Region, which is gently undulating to rolling glacial till plain. Lower reaches of the creek are located in the Illinoian-age glacial till plain with deeply weathered soils. In general, most soils have severe limitations to the operation of septic tanks, and present low to moderate erosion hazards. The Genesee-Eel-Sloan soil association consists of light colored silty loams developed in active flood plains. These soils have inadequate local drainage.

Soils of the Russell-Xenia-Fincastle association are dark, silty loams developed in loess-covered Wisconsinian till in upland areas and have a moderate erosion hazard. The Clermont-Avonburg and Rossmoyne-Edenton associations include silty loam upland soils developed on Illinoian till.

Soils found on steep valley wall slopes include the Russell-Wynn association and Fairmount soils developed on limestone and shale.

3-09 CLIMATE. The climate of the Caesar Creek area is temperate continental with hot, humid summers and moderately cold dry winters. Large daily and annual variations in temperature and precipitation are characteristic. The average annual temperature is approximately 54 degrees, with extreme temperatures of -30 degrees Fahrenheit and 109 degrees Fahrenheit having been recorded.

Weather conditions change every few days from the passing of cold or warm fronts and their associated centers of high and low pressure. Summers are moderately hot and humid with an average of 33 days with temperature of 90 degrees Fahrenheit or higher. Winters are reasonably mild with an average temperature of about 34 degrees Fahrenheit, and only 2 days with temperatures less than zero. The fall season of the year is very pleasant with an abundance of sunshine and comfortable temperatures.

Precipitation in the area varies widely from year to year; however, it is normally abundant and well distributed throughout the year. The mean annual precipitation is 39 inches. Excessive rainfall in the late winter and early spring often causes flooding in many areas of the valley. The average snowfall is around 19 inches. Snowfall, however fluctuates widely from this annual mean with about one in five winters having at least 30 inches of snow.

3-10 SCENIC QUALITIES. Caesar Creek damsite is located in a narrow meandering stream. The lower 5 miles of the stream flows through a narrow valley. The portion of this valley immediately below the damsite is known as "Caesar Creek Gorge." This unique natural feature is a narrow wooded gorge of Ordovician limestone and shale formed by glacial diversion, and is preserved as a natural area. Forest cover of this area is in excellent condition and has a high potential for use as a natural sanctuary and study area. The wooded slopes above the stream are of a mixed mesophytic nature, containing beech, sugar maple, basswood, ash, and oak.

Above the damsite the gently rolling topography and general agricultural use create a less dramatic visual impact. Generally, vegetation exists only on a few of the steeper valley sides and in a few scattered wood lots. Areas of note include the Sugar Shack area of the Lake View Site, the woodlands north of the Horse Camp in the Furnas Shores Site, and the Pioneer Village and Flat Fork areas of the Wellman Meadows Site. Aside from the gorge area, the main scenic attraction in the project area is the lake itself.

3-11 BIOLOGY. General. The biology of the area may be generally interpreted as a very rich representation of midwestern flora and fauna generated by various current factors. This diversity is generally expected to continue during project operation, with the exception that those plant and animal species which have a low tolerance for slack water situations will either disappear from the environs of the lake, or will persist as a remnant or peripheral populations. There will also be a continuing tendency toward alteration of vegetative succession in the vicinity of the lake.

a. Rare and Endangered Species. There are only two species in the project considered to be rare or endangered in the United States as a whole. These species are the Indiana Bat (Myotis sodalis), and the Southern Bald Eagle (Haliaeetus leucocephalus). Even though the Indiana myotis has been collected from the vicinity of the project area and may still stray there to feed, no caves suitable for nesting or roosting sites are known to occur in the project area. The Southern Bald Eagle is occasionally found within the Little Miami River Basin area, but only as a migrant. Three species of mollusks found in the Little Miami River system are considered rare or endangered, Quadrula cylindrica, Pleurobema clava, and Simsoniconcha ambioua.

b. Vegetation. The project area is within the Beech Maple and the Western Mesophytic forest regions. The associations of the first-mentioned region are characterized by dominance of the American Beech

(Fagus grandiflora) and Sugar Maple (Acer saccharum). Typical subdominants are various oaks, sassafras, honey locust, black walnut, wild cherry, black locust, and tulip tree. The Western Mesophytic Forest Region and the Oak hickory prairie communities of more westerly vegetative locales. Dominance is shared by a number of species and reflected in the existence of various climax communities. Typical dominant species include Beech, hemlock, tuliptree, red oak, and white oak.

c. Fauna.

Mammals. The project area is within the contemporary range of about 45 species of mammals. Of these, the following species are game species in the sense that they are sought for sport or profit - opossum, cottontail rabbit, woodchuck, gray squirrel, fox squirrel, red fox, gray fox, raccoon, long-tailed weasel, least weasel, mink, skunk, and deer. Also there have been sightings of 13 lined ground squirrels and badgers in the area.

Reptiles and Amphibians. The project area is within the ranges of about 28 species of reptiles and 25 species of amphibians. Of these, the snapping turtle and bullfrog are considered to be sport species. One species of snake, the copperhead, is poisonous.

Birds. The bird life of the project area may be categorized as follows:

<u>Status</u>	<u>Approximate Number of Species</u>
Permanent Residents	44
winter resident or winter visitor	28
Summer Resident	64
Migrants	114

Several of these species are considered to be game birds. These include the Bobwhite quail (permanent resident), Ring-neck pheasant (permanent resident), American Woodcock (summer resident), mourning dove (summer resident), and various migratory waterfowl. The mourning dove is considered to be a non-game bird in Ohio; however, Ohio-generated populations are shot for sport in more southerly states. In 1988, wild turkeys were introduced to the Caesar Creek Gorge.

Fish. Prior to lake construction, Caesar Creek was known as a good smallmouth bass and rock bass stream. In addition to the basses mentioned above, other game and panfish present were channel catfish, flathead catfish, spotted bass, bluegill, and crappie. Nongame species included various suckers, minnows, and darters. Many of these stream fish have been extirpated or reduced in population from those inundated reaches of stream. Within the project the stream fishery has been replaced by a lake and tailwater fishery managed by the Ohio Division of Wildlife. Large mouth bass, white bass, walleye, and sauger now predominate in the lake and gizzard shad is also present.

3-12 ARCHAEOLOGY. Throughout time the natural resources of the Little Miami River Valley have been factors of prime importance in the cultural development of this region. The relatively flat land, rich soils, and ample water supply proved attractive to prehistoric and later populations who migrated and settled there.

Little information is available on the Paleo and Archaic Indians who were present in Ohio at least 10,000 years ago. Approximately two to three thousand years ago, the area attracted a people now known as the Mound Builders. Their cultural remnants give the majority of archaeological evidence found primarily in mounds left by the distinctly different Indian groups: the Adena, Hopewell, (and to a lesser extent, the Fort Ancient), each with its own characteristics of physical types, dwellings, pottery, weapons, etc.

Two general types of mounds from these cultures are found in the Little Miami River Basin. Those of the first type, thought to be defensive in function, were built on hilltops. Mounds of the second type, usually constructed to represent an animal, had a more or less geometric character and seemed to have had some ceremonial or social significance. A most important example of the defensive type mound is found in the Little Miami River Basin, located at Fort Ancient, Warren County. Designated a National Historical Landmark, this structure was built by the Hopewell Indians, and appeared to have been used for social and ceremonial purposes as well as having served a defensive function.

Once numerous in the Little Miami River Basin, burial mounds are today less common than effigy mounds, having been widely destroyed by more recent agricultural activities. Some prehistoric villages have also been discovered. The largest concentration of prehistoric works in the little Miami Valley is in the area from Milford, at the eastern edge of Cincinnati south to the Ohio River. At least 19 sites, either on flood plain, on terraces, or on the ridges overlooking the valley, have been identified.

In an archaeological site evaluation of the project area, five Indian mound sites within the flood pool were identified. There are no sites having statewide or national significance. In 1964, the Ohio State Museum excavated one of the mounds. Another mound was excavated in 1973 by the Ohio Historical Society. This most recent excavation revealed the mound to be a glacial deposit rather than a manmade structure. The report, by the Cleveland Museum of Natural History, on the survey and excavations is on file in the Visitor Center. Artifacts from the excavations have been retained and curated by the Cleveland Museum of Natural History, with a few of the artifacts on display in the Community Gallery on the Caesar Creek Visitor Center. The National Park Service is the agency responsible for archaeological investigation of Federal projects and considers Caesar Creek Lake project to be adequately investigated for archaeological resources.

3-13 HISTORY. By the beginning of the 18th Century, increasing settlement on the Eastern seaboard of the North American continent and intertribal warfare in the east caused a general migration westward. As

the Iroquois moved westward, Miami Indians moved into the river valley now bearing that name. During this period of Indian migration, four important tribes occupied land which later became the State of Ohio - the Miamis, the Shawnees, the Wyandots, and the Delawares. Old Chillicothe, near the present Oldtown in Greene County, was the site of a major Shawnee settlement, around which many military campaigns were waged. It is reported that the famous Shawnee Chief, Tecumseh, was born there.

The first reported European entry in the area was by the French explorer, La Salle, whose exploration took him south from Lake Erie to the Ohio River and part of its valley during the latter part of the 17th century. French fur traders entered the area in 1692 but discontinued their work there because of the great distance to the Great Lakes and the presence of the fierce Iroquois tribes. However, British traders from Albany, Philadelphia, and Charleston were undaunted, and developed an extensive fur trade in the area by the 1740's. Because of its geographic location and the network of navigable waterways, the Ohio Valley was considered the key to control of interior America.

The British capitalized on the conflict between the Indians and the colonists during the American Revolution, by enlisting the aid of many Indians. Even so, only minor skirmishes were fought in Ohio. The Battle of Piqua was the only major battle of the Revolution to take place in the Little Miami River Valley.

With the end of the war, the Indians were brought under control, and the State of Ohio was established in 1803. During the first half of the 19th Century, population grew, and the number of settlements increased along the entire length of the Little Miami River. The river and other streams provided water power for many mills needed by the early settlers for grinding their grain.

The first permanent settler on Caesar's Creek was reputedly a Negro slave named Cisar, who was captured and adopted by the Shawnee Indians in 1776. Cisar was traveling down the Ohio River with his master and mistress when they were attacked by the Shawnee and the white couple killed. As a prisoner, Cisar was taken to Old Chillicothe, a major Shawnee village on the Little Miami River, where he was adopted into their culture. This area was named for him (with a spelling change), because he used the surrounding area for hunting and fishing, claiming it as his own property.

Much of the project area was settled by Quakers. One Quaker site, the mid-nineteenth century Caesar Creek Friends Meeting House, has been removed from its site adjoining a cemetery on the northwest shore of the lake to the Caesar Creek Pioneer Village.

It is reported that several residences existing within the project area were stations on the Underground Railroad during the Civil War. One of these is the McKay House located on New Burlingtown Road. This house was acquired as part of the project and was planned to be used as a managers residence. However, poor structural condition of the house

would have required an excessive amount of funds to maintain so it was determined that house could not be practically used. In order to preserve this historic building, it was exsessed and subsequently privately acquired.

During the project construction, the village of New Burlington was razed, as were a number of other fine old buildings. A number of buildings from the project area were relocated in the Caesar Creek Pioneer Village in the Wellman Meadows Site.

3-14 WATER QUALITY. Water Quality Section of Engineering Division conducts quality tests at Caesar Creek Lake three times a year between early May and October every year. Test samples are collected at two inflow stations, four sites on the lake and at a tailwater station. No significant pollution problems have been discovered as of this time.

SECTION 4
EXISTING DEVELOPMENT AT PUBLIC USE AREAS

4-01 LAND ALLOCATION. Project lands are allocated for the purposes for which they were acquired. There are a total of 10,545 acres of land and water at the project. Of this, approximately 7,720 acres are above the seasonal pool. Project operation, including flood storage, uses about 5,580 acres which are allocated to operations, and 2,140 acres are used and allocated for public recreation. The lands for specific recreation use have been reduced from the proposed amount, 2,394 acres, shown in the Preliminary Master Plan, D.M. No. 7A. The difference, of 250 acres, between these amounts is part of the land retained by the Corps of Engineers for project operations around two large dikes in the Furnas Shores site on the western shore of the lake, and the areas of some public rights-of-way within recreation areas. Also, some additional land from the Lake View Site was retained by the Corps to provide the best possible entrance to the Caesar creek Visitor Center and the project facilities along Clarksville Road.

4-02 CLASSIFICATION OF OPERATIONS LANDS. The 5,580 acres of "Operations Lands" have been classified in accordance with the categories established in ER 1130-2-435. Four categories describe major management objectives at the project: Operations, Recreation, Environmentally Sensitive Areas, and Multiple Resource Management. The Operations category includes all land retained by the Corps of Engineers and the land under public highways (1,070 acres). All other project lands are leased to the Ohio Department of Natural Resources. The outgranted "operation lands" include 1,500 acres classified as recreation located between the seasonal pool and the "recreation lands." Together these areas constitute the major portion of the established recreation areas. About 200 acres of exceptional environmental quality located in the Sugar Shack part of the Lake View site and the Flat Fork section of the Wellman Meadows site are classified as Environmentally Sensitive areas. The rest of the project is classified for Multiple Resource Management.

4-03 BASES FOR FUTURE SUBCLASSIFICATION. In May of 1990, Memoranda of Agreement and Understanding were signed to encourage a more comprehensive program of natural resource management by ODNR. Previously, resource management included wildlife management of about 2,020 acres on the upstream end of the project lands within the area of "multiple resource management." The memoranda will enable ODNR to expand their program to include forest management in areas of project lands where they believe this is appropriate. Since there is little mature forest at the project outside of parts of designated recreational areas, forest management will include techniques to improve the quality of the young woodlands and transition areas.

4-04 WATER ZONING. A water zoning plan for safety is enforced by the Ohio Department of Natural Resources. This plan allows unlimited speeds in the open portion of the lake. It requires idle speeds in the more restricted areas such as the area between the Wellman Meadows boat ramp and the dam and the area where the pool is confined within the old river channel. Shoreline areas are zoned for idle speeds within 300 feet of the beach.

TABLE 4
 ALLOCATION AND CLASSIFICATION
 CAESAR CREEK LAKE PROJECT LANDS

Site/Management Unit	Total Land	Allocation			Classification of Operations Lands		
		Operation	Recreation	Operations	Recreation	Environmentally Sensitive	Multiple Resource Management
Operations Area Damsite/Compartment #1	430	430		430			
Lake View, Compartment #2	530	270	260		150	120	
Furnas Shores, Compartment #3	1,890	800	1,090	460	300		40
Wildlife Management, Compartment #4	2,130	2,130	110				2,020
Mound Ridge, Compartment #5A	910	770	140		460		310
Harveysburg Shore, Compartment #5B	430	430					430
Wellman Meadows, Compartment #6	1,400	750	650	70	590	80	10
TOTALS	7,720	5,580	2,140	1,070	1,500	200	2,810

4-05 CAESAR CREEK OPERATIONS AREA, COMPARTMENT NO. 1. The area includes the project operations area, the Visitor Center, the Gorge, and the Flat Fork area. Facilities available include 19 picnic sites, parking for 164 cars, 2 miles of roads, 3-5 miles of trails, a visitor center with an interpretive trail, and a picnic shelter operated on a reservation basis.

The Buckeye Trail enters the project in the tailwater, runs along Clarksville Road from the Flat Fork Picnic Area to the Caesar Creek Visitor Center, and then follows the trail over to the Lake View Site.

a. Project Operations Area. The project operations area is located on either side of the dam along Clarksville Road. The office and shop building was built on the right abutment to serve both project operations and as the Corps' Project Office during the construction of the major project features. The building is a 2,080-square foot wood frame building with wood siding and a mansard roof, and is set back from Clarksville Road at the intersection of the drive leading to the control tower of the dam. An equipment storage area is located behind the office. Also located on this site are a radio shed and tower. The office has adequate parking areas both in front and on the side of the building, and the building has been well landscaped. The facilities on this site are adequate for existing use, and no changes in the facilities are planned. The roadway through the spillway has been widened to allow cars and buses to pull off the pavement safely. This was desirable because of the paleozoological interest in the spillway rock.

b. Visitor Center and Miami River Area Office. The Visitor Center and Area Office is located west of the operations area and south-east of the Lake View site. The site served as the construction overlook. Because of the central location of the Caesar Creek project, this area was chosen as the Regional Visitor Center for the Ohio River Division and is a Class A facility. The Miami River Area Office was combined with the facility to more efficiently use project resources and to help in staffing the center. The conceptual design of the Visitor Center and its exhibits was made by the Promontory Partnership and the plans and specifications for both the building and its interior activities by Design Enterprise Limited. The visitor center building has 7,247 square feet, of which 6,000 are used for the Visitor Center, and the rest for the Area Office. A large aerial photograph of the lake is the focal point of the lobby. To the right of the front doors is an information desk, where a staff member greets and assists visitors. Restrooms are available adjoining the lobby. The visitors can view a 12-minute multi-media orientation film/slide show in the theater or enter the galleries. The multipurpose room is available for temporary displays and programs.

The orientation program portrays the Corps' history as it relates to the development of the Ohio River Basin and Caesar Creek Lake. The theater has 32 seats and is used for other types of interpretive programs as well. The seating can be augmented with 15 movable chairs, bringing the total to 47 seats. After the show, the visitor is then encouraged to view the three interpretive galleries, the Community Gallery, the Natural History Gallery, and the Corps Gallery.

Upon leaving the building, visitors may proceed to the overlook. The large wooden deck provides a scenic view of the dam, control tower, spillway, and the south end of the lake. There are four interpretive signs that explain: 1) why the dam was built, 2) how it operates, 3) orientation to the entire lake and facilities, and 4) the history of the lake.

Two trails adjoin the overlook. A paved trail, accessible to the handicapped, leads back to the main parking lot. A longer wood-chipped trail passes through several habitats, including a pond, field, and forest. Along this self-guided trail are five interpretive signs explaining succession. From this trail, the continuation of the Buckeye Trail leads to the Lake View Site.

In the recreation season, temporary park rangers and volunteers are assigned to the center. Off season, the Area Office staff is available during office hours to assist the public. In back of the building is an informal amphitheater for programs during the summer. Long-term plans for the area include a display structure near the small pond on the site and a second structure for interpreting other natural features.

In 1988, 57,660 people came to the Visitor Center.

c. Tailwater, Gorge. Most of the 2.5 miles of Caesar Creek between the dam and the Little Miami River is a steep-sided gorge known for its woods and wildflowers. The gorge area outside the project boundaries has been acquired by the Ohio Department of Natural Resources and is managed as a natural area. Access from the project to the tailwater is provided by the new project road which runs from the project office to the Old O'Neal Road, which descends into the gorge. At the bottom of the gorge, a parking area has been built. Fishing platforms have been constructed along the retreat channel, and these are connected to the parking area by paths. The old highway bridge has been retained as a foot bridge. The state-wide Buckeye Trail enters the project from O'Neal gorge and follows the old road to the Flat Fork Area and over the dam to the Project Office and Visitor Center area. This area is not suitable for more intensive public use because of the unstable soil conditions of the valley sides. In 1988, visitation was 75,420 people.

d. Flat Fork Area. This small peninsula between the dam and the spillway has been developed with picnicking facilities and trails leading to the lakeshores and a fishing platform along the face of the dam at the seasonal pool level. The site has been developed with an overlook and a picnic shelter. The shelter is made available on a reservation basis. This popular spot received a visitation of 60,943 in 1988. This small area is presently fully developed with facilities.

4-06 LAKE VIEW SITE, COMPARTMENT NO. 2. This site is leased to ODNR and is located between Clarksville Road and the lake, just north of the Corps Operations area. The upland portions of the site are relatively flat with open fields. The rest is wooded with very steep erodible banks descending to the lake. This site does not lend itself to development of lake access facilities. The southern portion of the site has been developed with foot trails leading from the visitor center. This area is

often used as part of nature study programs. The northern portion of the site also has a scenic woodland known as the Sugar Shack area. The Buckeye Trail connects these areas and continues on to the Furnas Shores Site. Although little development has taken place on this site, it receives significant use by groups for both picnicking and camping. A pleasant building, formerly used as a vacation lodge, is available for a group picnicking facility. In the winter, the upland portions of the area have snowmobile trails. Occasionally this site is used for military training. The Day Lodge was used by 35,568 people in 1988.

4-07 FURNAS SHORES SITE, COMPARTMENT NO. 3. This is the largest and most intensively used site at Caesar Creek Lake. It contains a total of 1,890 acres. The site is divided into three zones - the horse trail and the camping area in the northern part of the site; the beach, administrative, and boat ramp in the central portion of the site north of Highway 73; and the boat ramp area south of Highway 73. The Buckeye Trail traverses this site, entering from the Lake View Site, crossing under the Highway 73 bridge to the beach area, along the shore to the dikes, and then along old roads and horse trails into the wildlife area.

a. Horse-Camp Area. This area is located in the northwest part of this site. Much of this area is quite flat with many old fields. In contrast with this open land are drainage ways with steep sides and large timber. Since these creeks drain toward the Little Miami River, dikes have been constructed to prevent the lake from ever draining in that direction. The Horse Camp area has been designed for horsemen and contains 30 family campsites with hitching posts. There is also a group camp area. Twenty-six miles of trails have been developed in surrounding areas. Some of the trails which run through the wooded valleys have caused erosion. The trails are now closed; in the future, they will be moved to less erodible ground. When the wooded area has been rehabilitated it will be managed as a natural area to preserve its unusually fine collection of plant species.

The area was used by 27,855 people in 1988.

b. Beach Area. The beach area is the most heavily used area on the lake; 470,053 people visited this area in 1988. When recreation facilities were constructed, 2,900 linear feet of beach was graded, but only 1,200 feet was finished with sand. A change house and concession were constructed approximately in the middle of the sanded area. Parking for 738 cars was supplied - 408 paved, and 330 on graded turf overflow areas. In addition to the beach and its related facilities, a small boat ramp is located in this part of the site. This facility has a two-lane boat ramp with docks for rigging the boats, and parking for 54 cars and trailers, as well as dry moorage area and keelless boat launching area at the end of the beach.

This portion of the site is also the site of the park office and park maintenance center of the Ohio Department of Natural Resources. The office is located close to the entrance of the site. This building has a reception area for the public and contains 1,695 square feet. The

maintenance center is located near the western edge of the area with an entrance off Furnas Road and one off of North Pool Road. There is a shop and a small pole barn for covered storage. Near the maintenance center, Wright State University has received a 1-acre outgrant to provide a research and educational facility. A gravel road connects the maintenance center to the area of the beach and sailboat facility. There are also 16 picnic sites in this area and about 1 mile of trails. Several pressure gas pipelines traverse this site from their pumping station on the lakeshore about 1,600 feet north of the sailboat facility west to the project boundary.

c. Furnas Shores Ramp. Across Highway 73 from the beach area is the Furnas Shores boat ramp. The ramp is 4 lanes wide and has parking for 100 cars and trailers. Part of the area was used for borrow for constructing the highway and was reforested with saplings in 1982. The trees are beginning to become established. This site is also the preferred location for a marina because of its proximity to a major highway. However, the area is not well protected from winds, and a breakwater is believed necessary to protect the facility from southwesterly wind.

The boat ramp area was used by 107,400 people in 1988.

4-08 WILDLIFE MANAGEMENT AREAS, COMPARTMENT NO. 4. Approximately 2,000 acres of land are designated for wildlife management. Wildlife activities conducted by the state include maintenance and upgrading of existing facilities, improving wildlife habitat, and providing recreational opportunities. During 1986, over 731 acres were leased to sharecroppers for crop planting to provide food, cover, and successional control of vegetation on lands managed for wildlife.

Specific activities also include vegetation control on existing pond dams, maintenance of roads and trails, maintenance and repair of parking lots, restrooms, boat ramps, and signs, construction of wood duck nest boxes.

The area is stocked with game birds and fingerlings. Creel and hunter bag surveys are performed in conjunction with the stocking program.

This area includes a two-lane boat launching ramp with 40-car and trailer parking, and vault sanitary facilities accessible from Haines Road on the west shore of the lake. This area had a visitation of 63,097 people in 1988. Other facilities within the wildlife management area include 100-car parking spaces, 3 miles of unpaved road, and 3 miles of hiking trails.

4-09 MOUND RIDGE CAMPGROUND, COMPARTMENT 5A. This site provides family camping for the project. Approximately 380 acres were acquired in this area by the Corps and an additional 189 acres by the State of Ohio. The area is well suited to development for camping because of the gently rolling topography and the close relationship to the shore of much of the campground. The area has its own two-lane boat ramp with a dock, 50-car and trailer parking spaces, and a campers' beach is planned. To date, 287 campsites have been developed. As additional amenities of the campground, five picnic sites, and 3 miles of hiking trails have been provided. Other

facilities provided include a Parours trail, youth hostel, maintenance facility, and playground in the campground. In 1988, this site received a visitation of 83,351 people.

4-10 HARVEYSBURG SHORE, COMPARTMENT NO. 5B. Between the Village of Harveysburg and the Mound Ridge Site is a steep shoreline zone. This area is served by a foot trail along most of the shoreline. No other facilities are needed in this area which includes some of the most scenic views of the project from the steep bluffs along the lake. Harveysburg, Ward, and Brimstone roads lead to this area.

4-11 WELLMAN MEADOWS SITE, COMPARTMENT NO. 6. This site is presently developed in several areas: the Fifty Springs picnic area, entered from Highway 73, and the boat ramp area, entered from Oregonia Road. Between these two areas is the Pioneer Village and the Lukens Road area. Outside of the Pioneer Village, this site has a total of 104 picnic sites, picnic shelters, parking areas accommodating 276 cars and 136 cars and trailers, a 4-lane boat ramp with a courtesy dock, 5 miles of paved roads, 3.5 miles of hiking trails, and a cross country ski trail. A park manager's residence is located near the Pioneer Village.

a. The Fifty Springs. This portion of the site is a peninsula which contains a large picnic area. Four areas, each with parking and sanitary facilities, are located along the road. This area was used by 67,726 visitors in 1988. It has plenty of room for additional visitors.

The western edge of this site has a steep bluff overlooking the lake. On the east the land descends to the lake with a gentle slope. Since the area was previously farmed, there is tree cover only on the steepest slopes and in the old hedge rows.

b. Lukens Road. Lukens Road is a gravel road that is being maintained to provide access to this portion of the site for cross-country skiing, hunting, fishing, biking, and other similar activities. Many people use the road in order to bank fish along the embayment of Jonah's Run. The fields of the area are being actively managed for wildlife production through seedling planting, release cutting in woodlands, planting food plots, and hedgerow maintenance.

c. Caesar Creek Pioneer Village. This area of approximately 25 acres within the Wellman Meadows site has been designated for historical preservation purposes. The area contains several log homes and other structures moved to the site by the volunteers working for Caesar Creek Pioneer Village. The organization is a nonprofit corporation and it holds a third-party license agreement with the Ohio Department of Natural Resources. Since the majority of these structures were originally located on lands used in the construction of the lake, it is felt that these structures have a direct relationship to the project. The objective of the village is to preserve examples of early Ohio culture. They are open on a regular basis in the recreation season and several times during the fall and winter. There are a number of popular community events held in the village.

State maintenance personnel live in a house near the village.

During 1988, 51,443 people visited this facility.

d. Wellmar Meadows Boat Ramp. This area was used by 133,987 people in 1988. Besides the four-lane boat launching ramp with parking for 136 cars and trailers, and turf parking for overflow. The site has picnicking facilities. On the southern border of the site is an area of exceptional environmental quality along the gorge cut by Flat Fork. Trails run through the Flat Fork area.

SECTION 5 - COORDINATION

5-01 Coordination: Coordination with other Federal and State interests is a continuing process in order to achieve maximum benefits and to ensure order by development of the project. Since most of the land and facilities at Caesar Creek Lake are leased to the Ohio Department of Natural Resources. The Department has a large input into the planning for this project. In order to make this plan as usable as possible there views on project development and management receive careful consideration. At the start of the updating the State was contacted and a meeting was held at the Park Office. Input from this meeting has resulted in the general proposal.

The state has commented on the Draft Master Plan, and their letter is included as Exhibit 2.

SECTION 6
FACILITY NEEDS AND OTHER DESIGN CRITERIA

6-01 NEEDS ANALYSIS. Needs for additional facilities are calculated based on the 1990 attendance estimate, paragraph 3-05, and the existing supply of facilities. The needs are calculated for five activities: Boating which includes fishing and boats and water skiing; Camping, both family and group; Picnicking, both family and group; Swimming; and Bank fishing. A sixth category is included for other activities such as sightseeing and hiking.

Calculation of the number of facilities required to satisfy demand uses a number of factors which are determined by surveys at the project or at similar projects in the region:

- * Percent of total annual visitation engaged in the activity.
- * Average size of group or family using the facility.
- * Number of groups using the facility daily - turnover.
- * Percent of weekly use on a summer weekend day - 30%.
- * Number of weeks in the recreation season - 18 weeks.
- * Percent of annual use in the recreation season - 75%.

The general formula for demand is:

$$F_n = \frac{V_n \cdot .30 \cdot .75}{P_n \cdot T_n \cdot 18}$$

1990 visitation estimate for Caesar Creek is 1,400,000.

TABLE 5
FACILITY DEMAND AND NEEDS

<u>Activity</u>	<u>Units</u>	<u>% Visitation Activity</u>	<u>Vn</u>	<u>Pn</u>	<u>Tn</u>	<u>Fn</u>
Boating						
Boat Fishing	(Lanes	15%	188,000	3	40	20 lanes
Skiing	(Spaces				2	390 spaces
Camping	Sites	8%	100,000	3.5	1	360 sites
Picnicking	Sites	9%	113,000	3.5	2	200 sites
Swimming	Spaces	14%	175,000	3	1.5	490 spaces
Bank Fishing	Spaces	6%	75,000	2	2	230 spaces
Sightseeing	Spaces	48%	600,000	2	20	190 spaces

TABLE 5
FACILITY DEMAND AND NEEDS (Cont'd)

1990 Facility Needs

<u>Activity</u>	<u>Unit</u>	<u>Supply</u>	<u>Demand</u>	<u>Need</u>
Boating				
Boat Fishing	(Lanes	14	20	6 lanes
Skiing	(Spaces	364	390	28 spaces
Camping	Sites	314	360	43 Sites
Picnicking	Sites	196	200	6 sites
Swimming	Spaces	425	490	61 spaces
Bank Fishing	Spaces	140	230	94 spaces
Sightseeing	Spaces	300	190	(113) spaces
Other				

6-02 DESIGN CRITERIA. New facilities will be designed to blend with the style of existing facilities at the project. Generally standard facilities used by the Ohio Department of Natural Resources will be used in the continuing development of the project. State standards concerning public health and safety, administered by the Department of Health, will be followed on existing roads, project utilities and other recreational facilities.

SECTION 7 - CONTINUING DEVELOPMENT AND MANAGEMENT

7-01 GENERAL. It is believed that the current use of Caesar Creek Lake constitutes a generally desirable level. Visitation is not expected to grow significantly in the near future. In the next 5 to 10 years, only small increased in facilities at existing sites will be required. Programs for the improvement of vegetation and wildlife productivity of the lake area will be actively pursued.

7-02 OPERATIONS AREA, COMPARTMENT NO. 1. Sufficient facilities have been developed in the Operations area which includes the Dam, Spillway, Visitor Center, Tailwater, and the Flat Fork area to provide for public use, except that use of the fishing platform on the face of the dam is heavy enough to warrant expansion to about double its present size. Also the fishing platform on the right bank of the tailwater need to be made handicap accessible by extending a ramp up the sides of the retreat channel towards the parking area. Ramps for the handicapped are also needed to provide access to the Flat Fork picnic shelter. Facilities in the area of the visitor center should ultimately be upgraded to include a display pavilion on the hillside overlooking the lake and near the small pond. The pavilions would contain displays of environment of phenomena of the lakeside forests and the small pond.

Over the next 5 years an active program of forest and wildlife management will be undertaken throughout Compartment No. 1.

In the area around the shop/office building open areas will be maintained in light woods with some grassy areas for wildlife.

In the area north of the visitor center and on the opposite side of Clarksville Road an extensive program of both wildlife management and forest management will provide a demonstration area to extend the program of the visitor center. The woods along the lake shore and in the ravine at the extreme end of the area will be managed as a demonstration forest. The old fields near the center will be improved for wildlife management. Unproductive species of brush will be cut and piled. Growing conditions for superior species will be improved by release cutting and open grass land and food plots will be maintained by mowing. Across Clarksville Road, an evergreen screen will be planted along the property line, also areas of hardwood seedlings will be planted. In part of the area grasslands will be expanded and maintained by mowing. Food plots will be planted and brier patches encouraged.

The tailwater will be managed to enhance the unusually fine woodlands of the Caesar Creek Gorge. Selected trees will be harvested to open the cover to enhance wildflowers. In the open areas above the gorge, grasslands and food plots will be maintained through mowing.

7-03 LAKE VIEW, COMPARTMENT NO. 2. No substantial development is planned for the Lake View site in the next five to ten years. However, increased use of the existing group facilities and hiking and snow mobile trails is anticipated. Further into the future, development of five

group camp units is planned. The woodlands in ravines at both the northern and southern ends of the site are exceptional and will be maintained in their natural condition. It is proposed to develop a small area of prairie grasses and forbs in the upland portion of the site near the group lodge. Other kinds of wildlife management in these flat old field areas may also be employed including mowing, selective cutting of brush, and building brush piles. Ultimately the established prairie may require controlled burning.

7-04 FURNAS SHORES, COMPARTMENT NO. 3. Boat Ramp Area. This large site has been heavily developed in the past and requires only a few new facilities. Among those required in the next increment of development include a marina with suitable parking areas. A marina has been planned at a site just south of the Highway 73 Bridges. The shoreline would be excavated to allow this floating dock to be placed close to the shore behind a built up break water with a floating section extending into the lake. Rest rooms and 82 paved and to turf parking spaces.

Beach Area. An additional 60-car parking spaces are needed at the beach.

Horsemen's Area. In the areas of the horse camp an additional trail may be developed in the southern portion of the area to replace one loop that has been closed to protect from erosion the wooded area to the north. Future management of this woodland will seek to preserve its outstanding natural quality. This campground should be upgraded in the future.

7-05 WILDLIFE AREA, COMPARTMENT NO. 4. Little physical development is anticipated in this area in the next 5 to 10 years. Share cropping, planting useful trees and shrubs, release cutting, mowing and in selected location burning will be used to improve wildlife habitats. Special programs such as the youth hunts are expected to continue.

7-06 MOUNDS RIDGE, COMPARTMENT NO. 5A. This area is the major camping facility. At the present time, there appear to be sufficient family camp-sites in this area; however, group facilities are needed. Planned are 15 group sites for 10 to 30 people each. Five of these should be developed as soon as possible. The group sites could be built as primitive sites with vault sanitary facilities. Later water-borne facilities could be added. About 1,500 feet of campground road with water lines will be needed.

A campers' beach was proposed as part of the initial facilities at the lake. This facility was never built. Completion of this facility should be an early priority.

Long-term plans for this site include about 44 cabins shown along the embayment at the south end of the site.

7-07 WELLMAN MEADOWS, COMPARTMENT NO. 6.

a. Fifty Springs Picnic Area. This area which has been developed for picnicking could be an excellent place to develop a fishing pier or dock for bank fishing. The facility should be developed for handicap access. The site selected is near the southeastern end of the peninsula on a shallow ridge where stumps have been allowed to remain in the water as fish attractors. To complete the facility a 30 car parking space and paved walk connecting the pier to the existing parking area are planned. It is also planned to relocate an existing unused toilet building to the area of the proposed parking lot. Ultimately additional picnic facilities may be required at this site.

b. Lukens Road bank fishing area is planned for long-term future development of picnicking facilities. Existing Wildlife Management programs are expected to continue. Selective clearing of undesirable species and planting of desirable forms of wildlife plants is scheduled for the next 5 years. Controlled burning will also be used in this area to rejuvenate meadows in 5-year cycle.

c. Caesar Creek Pioneer Village has just completed a flush comfort station and does not anticipate additional physical development in the near term. Their emphasis will be on maintenance and improvement of their present facilities.

d. Wellman Meadows Boat Ramp. This facility was completed in the first construction phase of the project. Additional launching lanes would be desirable if a marina cannot be provided at this project. At the present time an open field south of the parking area provides overflow parking for boat ramp users. Additional picnicking facilities are shown for development at such time as they are needed in this area. No facilities will be allowed to interfere with the environmentally sensitive area around Flat Fork south of the developed area of the site. In the Flat Fork area, timber is being managed to preserve the aesthetic quality of the woods. In the rest of the area, most of the old fields are being allowed to grow up to brush. In the future, release cutting will be necessary to promote the best species. Also, a small backpackers' camp is planned east of the Flat Fork area.

7-08 SUMMARY OF PROPOSED FACILITIES. The following table summarizes facilities proposed to meet the needs of project visitor in the period from 1990 to 1995. After this period no further facilities will be necessary for about 10 years although upgrading of some facilities may be necessary such as paving turf parking areas and replacing vault toilets at the campground with water-borne facilities.

**ORIGINAL
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Facilities shown, including the support facilities for the marina, must be funded by the State at the present time because no funds are available in the 710 program. In the event that funds become available and the State is willing to negotiate a cost sharing contract, facilities costing a total of \$2,513,722 might be cost shared.

Following is a Summary of proposed facility costs:

TABLE 7
SUMMARY OF COSTS
FACILITIES SUITABLE FOR COST SHARING

Furnas Shores Marina (support facilities)	\$1,308,250
Furnas Shores Beach Area	153,920
Mounds Group Campground Expansion	441,250
Wellman Meadows Fishing Pier	<u>188,215</u>
Total Construction Costs	\$2,091,635
Engineering and Design	301,491
Supervision and Administration	<u>120,596</u>
Total Cost	\$2,513,722

TABLE 8
COST ESTIMATE
NEEDED FACILITIES, OPERATIONS AREA

(October 1990 Price Levels)

Date Prepared: 10 May 1991

Cost Account Number	Description of Items	Unit	Quantity	Unit Cost	Subtotal Cost	Contingency Pct	Contingency Amount	Total
Corps Facilities								
14.0.4.C	Conc Ramp at Fishing Pier	CY	120	\$ 275	\$33,000.00	30	\$ 9,900.00	\$42,900.00
14.0.4.C	Conc Ramp at Picnic Area	CY	200	275	55,000.00	30	16,500.00	71,500.00
14.0.4.C	Conc Fishing Platform Ext.	CY	30	250	7,500.00	30	2,250.00	9,750.00
Total Construction Cost					95,500.00		28,650.00	124,150.00
30.B.-.-	Engineering and Design	LS	1	14,325	14,325.00	20	2,865.00	17,190.00
31.A.-.-	Supervision & Administration	LS	1	5,730	5,730.00	20	1,146.00	6,876.00
TOTAL COST OPERATIONS AREA								\$ 148,216.00

TABLE 9.
COST ESTIMATE, FLOATING MARINA
(October 1990 Price Levels)

Date Prepared: 10 May 1991

Cost Account Number	Description of Items	Unit	Quantity	Unit Cost	Subtotal Cost	Contingency		Total
						Pct	Amount	
Marina - State Constructed								
14.0.4.B	Floating Dock ~ 200 Slip	Ea	200	\$ 6,500	\$1,300,000	20	\$260,000	\$1,560,000
14.0.4.B	Floating Breakwater	Ea	1	200,000	200,000	30	60,000	260,000
TOTAL CONSTRUCTION COST								\$1,820,000
30.B.--	Engineering and Design	LS	1	225,000	225,000	20	45,000	270,000
31.A.--	Supervision & Administration	LS	1	90,000	90,000	20	18,000	108,000
TOTAL COST								\$2,198,000

TABLE 10.
COST ESTIMATE FACILITIES SUITED FOR
COST SHARING

Date Prepared: 10 May 1991

Cost Account Number	Description of Items	Unit	Quantity	Unit Cost	Subtotal Cost	Contingency		Total
						Pct	Amount	
(October 1990 Price Levels)								
Item 3A Furnas Shores Marina Cost Sharing								
14.0.C.-	Road, Service	LF	200	\$ 45	\$ 9,000	30	\$ 2,700	\$ 11,700
14.0.C.-	Road 20' Bit Surf	LF	3,200	60	192,000	30	57,600	249,600
14.0.a.B	Parking, Bit	SY	3,000	16	48,000	30	14,400	62,400
14.0.1.B	Parking, Turf	SY	2,000	6	12,000	30	3,600	15,600
14.0.4.C	Concrete Boat Ramp	Ea	1	50,000	50,000	30	15,000	65,000
14.0.2.B	Excavation, Earth	CY	50,000	3	150,000	20	30,000	180,000
14.0.2.B	Excavation Soft Rock	CY	35,000	5	175,000	20	35,000	210,000
14.0.2.B	Excavation Hard Rock	CY	25,000	6	150,000	20	30,000	180,000
14.0.2.B	Riprap	SY	3,000	28	84,000	20	16,800	100,800
14.0.P.-	Restroom (450sf)	Ea	1	54,000	54,000	20	10,800	64,800
14.0.6.Q	Lift Station	Ea	1	40,000	40,000	20	8,000	48,000
14.0.6.Q	Sewage Collection (FM)	LF	1,500	8	12,000	20	2,400	14,400
14.0.6.Q	Water Distribution	LF	1,500	9	13,500	30	4,050	17,550
14.0.6.R	Elect. Dist. & Lights	LF	2,500	12	30,000	30	9,000	39,000
14.0.6.Q	Boat Dump Station	Ea	1	23,000	23,000	30	6,900	29,900
14.0.2.B	Landscaping/Signs	LS	1	15,000	15,000	30	4,500	19,500
Item (3a) Sub-total Const. Cost					\$1,057,500	23.71	\$250,750	\$ 1,308,250
Item 3b Furnas Shores Beach Area Cost Sharing								
14.0.1.B	Parking, Bit	SY	4,400	16	70,400	30	21,120	91,520
14.0.4.F	Picnic Shelter	Ea	1	25,000	25,000	20	5,000	30,000
14.0.5.B	Picnic Units	Ea	30	900	27,000	20	5,400	32,400
Item (3b) Subtotal Const. Cost					\$122,400	25.75	\$31,520	\$153,920
Item 3c Mound Ridge Campground & Beach								
14.0.C.-	Road 18' Bit	LF	1,500	55	82,500	30	24,750	107,250
14.0.1.B	Parking Bit	SY	1,900	16	30,400	30	9,120	39,520
14.0.4.B	Beach Sanding	SY	18,000	6	108,000	30	32,400	140,400
14.0.5.-	Campsites	Ea	15	4000	60,000	20	12,000	72,000
14.0.P.-	Toilet, Vault (450sf)	Ea	1	45,000	45,000	20	9,000	54,000
14.0.6.Q	Water Lines	LF	2,400	9	21,600	30	6,480	28,080
Item (3c) Sub-Total Const. Cost					\$347,500	26.98	\$93,750	\$441,250
Item 3d Wellman Meadows 50 Springs Fishing								
14.0.4.C	Fishing Pier	SF	720	25	\$ 18,000	30	\$ 5,400	\$ 23,400
14.0.4.C	Handicap Access Ramp	CY	110	275	30,250	30	9,075	39,325
14.0.1.B	Parking, Bit	SY	1800	16	28,800	30	8,640	37,440
14.0.P.-	Relocate Flush Toilet	Ea	1	20,000	20,000	30	6,000	26,000
14.0.6.Q	Water Lines	LF	500	9	4,500	30	1,350	5,850
14.0.6.Q	Sewer Lines (Fm)	LF	500	8	4,000	30	1,200	5,200
14.0.6.Q	Lift Station	Ea	1	36,000	36,000	20	7,200	43,200
14.0.6.R	Electric w/ lighting	LF	500	12	6,000	30	1,800	7,800
Item (3d) Sub-total Cost					\$147,550	27.56	\$40,665	\$ 188,215
Item 3 Total Const. Cost					\$1,674,950	24.88	416,685	\$2,091,635
30.B.--	E&O	LS	1	251,243	251,243	20	50,249	301,491
31.A.--	S&A	LS	1	100,497	100,497	20	20,099	120,596
Item 3 Total Cost								\$2,513,722

SECTION 8
PROJECT RESOURCE MANAGEMENT

8-01 OPERATIONAL CONCEPTS AND POLICIES. The United States holds title to 10,545 acres of land and water that makes up the Caesar Creek project. In addition, the Corps has 1,326 acres of easement lands. Of the fee land, 9,472 acres are leased to the State of Ohio, Department of Natural Resources for public park and recreation, fish, wildlife, and forest management purposes.

The area that is not leased to the State of Ohio is under the direct control of the U.S. Army Corps of Engineers and is managed by them for a variety of purposes. Project operation lands (1,073 acres) include the flood control structures, consisting of dam, spillway, tail-water area, and four saddle dams. The area operated by the Corps of Engineers also includes the Park Manager's office and maintenance buildings, the Miami River Area Office, a Class A visitor center, trails, picnic sites, fishing platforms, restrooms, and several recreational parking lots. Land surrounding the operational structures is managed for multiple purposes including recreation, fish and wildlife, aesthetics, and forestry.

The responsibility for the leased area operated by the State of Ohio, Department of Natural Resources, has been administratively divided between the Division of Parks and Division of Wildlife. The Division of Parks is responsible for 4,382 acres of land, the Division of Wildlife is responsible for 2,260 acres of land, and both have jurisdiction on the 2,830 acres of water.

The Corps coordinates with and monitors State activities in the entire leased area. Project resource management personnel act as liaison between the State Park and Wildlife personnel and the Louisville District office, assist in compliance, utilization, and sharecropping inspections, and coordinate and monitor day-to-day activities as well as special events.

8-02 STAFFING AND ORGANIZATION.

a. U.S. Army Corps of Engineers. The accompanying chart depicts the organizational arrangement of those elements within the Louisville District, Corps of Engineers, which have administration and management responsibilities. The basic responsibilities of these organizational elements are in general accord with ER 1130-2-400 and specifically in Louisville District Regulation DR 405-2-1.

b. State of Ohio. The accompanying chart depicts the organization of those elements for the State of Ohio having administrative and management responsibilities at the Caesar Creek project. The Department of Natural Resources will have basic responsibility, but will call on other State Departments. At the project level, the main points of contact for the Corps are the State Park Manager and the Chief of District V, Division of Wildlife.

8-03 PROJECT STAFFING. Both the Corps of Engineers and the Department maintain sufficient field personnel in the project area to fulfill day-to-day functions.

a. U.S. Army Corps of Engineers

Park Manager, GS-11 (Dual role)
Maintenance Mechanic, WG-10
Maintenance Worker, WG-08
2 Seasonal Maintenance Workers, WG-05
1 GS-5 Seasonal Park Ranger
1-2 Temporary Park Rangers, GS-04, as needed April-Sept.

Miami River Area Office and Visitor Center

Area Park Manager, GS-12
Assistant Area park Manager, GS-11 (Dual role)
Area Secretary, GS-05
Seasonal Electronics Worker, WG-08
2 Seasonal Park Rangers, GS-05
1-3 Temporary Park Rangers, GS-04

b. Ohio Division of Parks (full time)

Park Manager
Assistant Park Manager
Clerical Specialist
Campground Supervisor
Park Maintenance Supervisor
Park Conservation Crew Leader
Auto Mechanic
4 Park Rangers
2 Equipment Operators
2 Maintenance Repair Workers
Conservation Worker
Naturalist

Less than Full Time

9 Natural Resource Aide Conservation Workers
5 Lifeguards
5 Natural Resource Aide Check-in Attendants
Natural Resource Aide Secretary
Seasonal Ranger

c. Division of Wildlife Staff listed assigned to Caesar Creek Lake

1 Wildlife Manager
2 Wildlife Conservation Aids

d. Other Agencies: Caesar Creek Lake is regularly patrolled by Ohio Division of Watercraft, Springfield, Ohio, and the Warren County Sheriff's Department.

8-04 ADMINISTRATION AND MAINTENANCE.

a. Corps of Engineers. The District Engineer will vest appropriate responsibility and authority with the Area Manager for implementation of the District Regulations at the field level.

(1) Fees and Charges. All fees and charges for use of developed areas and facilities, whether managed by the state or Corps, will be consistent with the schedule of charges suggested in implementation of the Land and Water Conservation Fund Act of 1965.

(2) Outgrant Coordination. Outgrants, leases, licenses, permits, and easements to others for use of project land and/or water areas, are administered by Real Estate Division and are based on the approved Public Use Plan. In this regard, coordination between Engineering, Operations and Readiness, and Planning Divisions is maintained so as to assure full consideration to all desires, requirements, and objectives. All outgrants are thoroughly coordinated with the Director, Ohio Department of Natural Resources, before issuance by the District Engineer. The Director, Ohio Department of Natural Resources, likewise coordinates any proposed third-party concession agreement with the District Engineer on project areas leased to the third party. There are 12 minor outgrants on project lands in 1991.

(3) Encroachments. Those project lands abutting privately owned lands have been monumented with project funds as a means for guarding against encroachments. Project personnel patrol these boundaries once a year and cooperate with the State of Ohio on lands under their jurisdiction for the elimination of any encroachments. Any case discovered is forwarded to the District for resolution by the Real Estate Division.

(4) Erosion Control. Erosion control is essential for prevention of reservoir siltation and for assurance of maintaining water quality for recreational activities. It is the responsibility of Corps resource management personnel to effect proper erosion control measures over project lands where corrective treatment becomes necessary to prevent continuing or accelerating damage to natural features due to flood control operation of the project. Erosion control relative to recreation and fish and wildlife management of land leased to the state is the responsibility of the state. The Corps is responsible for all erosion control on the operational lands.

(4) Debris Control. Debris in the reservoir is dangerous to pleasure craft, and when blown ashore often makes shoreline and beach areas unsightly and unusable. Debris control is the responsibility of the Corps. Cleanup of boat ramps and the beach areas is handled by the State Park.

b. State of Ohio. In general, the State of Ohio is responsible for management of 9,471 acres for public park and recreational, fish and wildlife, and forest management purposes. The lease is for 50 years ending on 30 June 2025. Under the lease, the State has primary responsibility for the operations and management of the leased area, including law enforcement, maintenance, and administration.

(1) Law Enforcement. An effective program of proper land and water use management cannot be achieved without law enforcement. The State of Ohio assigns law enforcement personnel to enforce rules and regulations for land and water use. The State of Ohio is also responsible for the protection of its leased land from fire, vandalism, and soil erosion, and may make and enforce such regulations as are necessary within its legal authority, provided that such regulations are not inconsistent with those issued by the Secretary of the Army or with provisions of Section 4 of the Act of Congress approved 22 December 1944, as amended (16 U.S.C. 460d) by which the State of Ohio was granted its lease.

(2) Health, Sanitation, and Pollution Control. In promoting adequate standards relating to health, sanitation, and pollution control, all developments for public use will be thoroughly coordinated with the Ohio Department of Health. It will be the responsibility of the Ohio Department of Natural Resources to initiate such coordination for any contemplated development on all project lands.

(3) Resources on Project Lands. All resources on project lands, such as timber and gravel, will be managed for project purposes. Care will be taken to assure that the highest aesthetic standards are maintained if any resource is removed as part of resource management or development at this project.

(4) Facilities and Services. The State is responsible for providing facilities and services necessary to meet the public demand either directly or through concession agreements with third parties. All such agreements shall state that they are granted subject to the provisions of this lease, and that the concession agreement will not be effective until approved by the District Engineer.

(5) Damages. Any property of the United States damaged or destroyed by the State incident to the exercise of the privileges granted in the lease shall be promptly repaired or replaced by the State to the satisfaction of the District Engineer.

8-05 VEGETATION MANAGEMENT. Management of woodlands and grassland of the land acquired for project operations is accomplished with regard for management objective of its classification. Generally, the objectives for most lands are enhancement of the recreational experience of the public. Many areas are also managed to provide improved wildlife habitat. At the present time, timber will be harvested only when required to achieve management objectives such as wildlife habitat improvement. Forest improvement measures such as timber planting or vegetation manipulation for erosion control are important on all project land. A vegetation management demonstration area is being established on operations

lands adjoining the visitor center. In the future, the State of Ohio will broaden the scope of their management to include a detailed forest management program.

8-06 VISITOR ASSISTANCE. The Visitor Assistance Program was established to provide safe and healthful recreation opportunities while protecting and enhancing the project resources. This is accomplished by Park Managers and Rangers as well as through the use of local law enforcement agencies.

The policy of the Chief of Engineers requires Park Managers and Rangers to maintain a low-key profile while enforcing the provisions of Title 36. This regulation gives personnel and visitors protection under current statutory authority.

The Ohio Department of Natural Resources personnel (Division of Parks, Wildlife, and Watercraft); Warren, Clinton, and Greene County Sheriff Departments, as well as locally authorized law enforcement agencies empowered to enforce the Ohio Revised Code, shall have primary law enforcement authority over lands either outgranted by lease agreement or falling within their jurisdiction as defined by the State of Ohio. The Corps Park Ranger is responsible for coordination and liaison with all appropriate Federal, State, and local law enforcement agencies, as well as local fire and rescue agencies, in order to provide maximum visitor assistance. Maximum use of State, County, and local law enforcement agencies will be made if problem areas develop, and during periods when resource personnel are not available.

8-07 OUTGRANTS. Several small right-of-way outgrants exist on project lands covering approximately 171 acres. There are two covering telephone line rights-of-way, two covering electric lines, three are for road rights-of-way, and one other is a commercial pipeline right-of-way, and a water main easement. Also, there is a consent to easement for an electric transmission line.

The only large outgrant of project land is a lease to Ohio Department of Natural Resources (ODNR) for public parks, recreational, fish and wildlife, and forest management purposes. This lease covers an area of 9,472 acres for a 50-year term from 1 July 1975 to 30 June 2025. There are two third-party agreements under the lease with ODNR.

a. Caesar Creek Pioneer Village. The area contains several log homes and other structures moved to the site by volunteers working for Caesar Creek Pioneer Village, Incorporated, a nonprofit corporation holding a third-party license agreement with the Ohio Department of Natural Resources. Since the majority of these structures were originally located on lands used in the construction of the lake, it is felt that these structures have a direct relationship to the project.

b. Wright State University. The Ohio Department of Natural Resources has granted a third-party lease to Wright State University for the use of 1 acre of land to construct a research and educational facility.

The site is located in Furnas Shores Public Access Site. No facilities have been constructed as of this date. The University is carrying out several research projects on the site. Many of these projects involve work with native animal species such as the Monarch Butterfly.

8-08 CONCESSION ACTIVITIES. There is currently a beach and campground concession contract between the State of Ohio and a third-party concessionaire for operations and maintenance of state-leased facilities and the right to sell food, beverages, and related items at the Furnas Shores Beach and Boat Ramp, Wellman Boat Ramp, and in Mounds Ridge Campground.

8-09 VISITOR INTERPRETATION. The primary visitor interpretive facility at the project is the Caesar Creek Lake Visitor Center. ODNR also maintains some interpretive materials in their park office. The Caesar Creek Lake Visitor Center is a "Class A" type visitor center, the most comprehensive type the Corps utilizes. The visitor center has over 6,000 square feet of floor space for interpretive exhibits, displays, and programs. This is augmented with a wooden deck overlooking the lake and dam with interpretive signs and adjacent trails. The center is operated to further the following objectives:

- (1) Enhance the public's understanding of the role of the U.S. Army Corps of Engineers in development and administration of water resource projects.

- (2) Enhance the public's understanding of the purpose and operation of the project, its man-made, natural, and cultural features.

- (3) Develop public appreciation for proper use of project resources in an effort to reduce overall project operation and maintenance costs.

- (4) Aid project personnel in accomplishing management objectives.

The Park Rangers plan and coordinate programs throughout the year on a variety of topics that relate to Corps missions and the visitor center objectives. Movies and impromptu programs reflect themes of special events or occurrences around the lake. Each Ranger develops programs on a variety of natural and cultural history subjects related to Corps missions that can be presented on a rotating basis throughout the summer to provide variety for repeat visitors.

SECTION 9 - CONCLUSIONS AND RECOMMENDATIONS

9-01 CONCLUSIONS. Preparation of this plan began prior to distribution of ER 1130-3-435, dated 30 December 1987. However, guidance from this regulation has been used in allocating and classifying project lands. All lands above the seasonal pool are allocated to Operations, 5,580 acres, and Recreation, 2,140 acres. Operations lands are classified: 1,070 acres for operation of project structures; 1,500 acres for recreation; 200 acres for protection of environmentally sensitive areas; 2,810 acres for multiple resource management. The latter category cannot be subclassified by resource type at this time.

Public use of the Caesar Creek Lake project has grown slowly, and currently averages around 1.1 million. Attendance is not expected to continue to grow as the population in the market area remains stable. Only a few new recreation facilities are needed in the next 5 to 10 years. The most important facility needed in the near future is the marina. Construction of this facility was planned in the initial phase of project development; however, funds were not available for its construction. Also needed in the next 10 years are about 10 picnic sites, 45 campsites, and a campers' beach near the campground. In addition, beach parking should be increased by about 60 spaces.

The total estimated cost for potentially cost-shared proposed recreation facilities is \$2,513,700 to meet project needs in the next 10 years. At the present time there is no money available through the 710 Fund and other funds for development at completed projects. A similar restriction exists in the state funding. In the event that both of these situations change, we believe that the Ohio Department of Natural Resources will be interested in negotiating a cost-sharing contract to further project development.

Insofar as possible site boundaries in this plan are the same as the boundaries of the compartments established in the Operations Master Plan, Compartment No. 5B has been renamed Harveysburg Shore in order to differentiate it from the Mound Ridge Site.

We have considered the management concerns discussed in the Operations Master Plan in preparation of this Plan. The management planning in the OMP is consistent with land used approved in the previous Master Plan, D.M. No. 13, and its Supplements and at this time there are no use conflicts at this project. In the future, if more land is needed for general recreational use in the recreational sites, interim used such as wildlife management on project recreation lands may have to be modified.

9-02 RECOMMENDATIONS. It is recommended that this Plan be approved as a basis for the following: 1) development of the continuing construction program proposed herein when funding is available; 2) continuing project resource management consistent with the elements of this plan; and 3) a framework for continued planning as new challenges and opportunities occur, particularly with regard to resource management.

EXHIBIT

LEASE TO OHIO

BIENNIAL MANAGEMENT PLAN for STATE PARK

BIENNIAL MANAGEMENT PLAN for WILDLIFE

SUPPLEMENTAL AGREEMENT NO. 6
LEASE NO. DACW-27-1-76-43
CAESAR CREEK LAKE PROJECT, OHIO

This Supplemental Agreement entered into by and between the Secretary of the Army, hereinafter referred to as the Government, and the State of Ohio, Department of Natural Resources, Columbus, Ohio, hereinafter referred to as the Lessee, WITNESSETH THAT:

WHEREAS, a lease bearing No. DACW-27-1-76-43 was entered into by and between the Government and the Lessee on 4 November 1975, granting use and occupancy of approximately 9,311.31 acres of land and water areas of Caesar Creek Lake project for public park and recreational, fish and wildlife, and forest management purposes, for a term of fifty (50) years, beginning 1 July 1975 and ending 30 June 2025; and

WHEREAS, the lease was modified by Supplemental Agreement No. 1, dated 11 July 1977, to add 163.62 acres of land to the leased premises; and

WHEREAS, the lease was modified by Supplemental Agreement No. 2, dated 29 August 1979, to bring the lease into conformance with current wildlife management provisions; and

WHEREAS, the lease was modified by Supplemental Agreement No. 3, dated 22 July 1980, to grant the Lessee authority to enter into a third-party agreement with Wright State University for use of one (1) acre of project land; and

WHEREAS, the lease was modified by Supplemental Agreement No. 4, dated 7 June 1982, to delete from the leased premises 4.84 acres of lands and improvements, containing the Moses McKay House, a property listed on the National Register of Historic Places, and to grant authority for the Lessee to enter into a third-party agreement with the "Union of Native Indian Tribes for Education" (UNITE); and

WHEREAS, the lease was modified by Supplemental Agreement No. 5, dated 16 September 1982, to add a 1.46 acre parcel of land designated as Tract No. 334 that was previously encumbered with a life tenancy estate and therefore not included in the original lease agreement; and

WHEREAS, a Warranty Deed of Easement for a road right-of-way, being fifteen (15) feet in width was acquired by the United States of America to provide access to sewage lift station No. 17 located on subject project; and

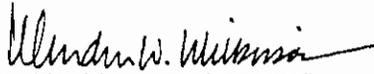
WHEREAS, said parcel is now available to add to the lease premises and it is in the best interest of the Government and the lessee to include said area in the leased premises.

NOW THEREFORE, the said lease is amended effective 1 August 1986, to added 1.18 acres of road easement as outlined in red on Exhibit "I" attached hereto and made a part hereof.

The said lease, dated 4 November 1975, as previously amended by Supplemental Agreement Nos. 1, 2, 3, 4, and 5 in all other respects shall remain in full force and effect.

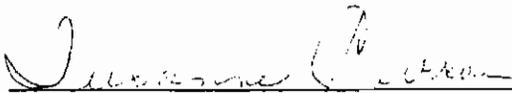
This Supplemental Agreement No. 6 is not subject to Title 10, United States Code, Section 2662, as amended.

IN WITNESS WHEREOF, I have hereunto set my hand this 12th day of August 1986 by authority of the Secretary of the Army.


WENDELL W. WILKINSON
Chief, Real Estate Division
Louisville District, Corps of Engineers
Louisville, Kentucky

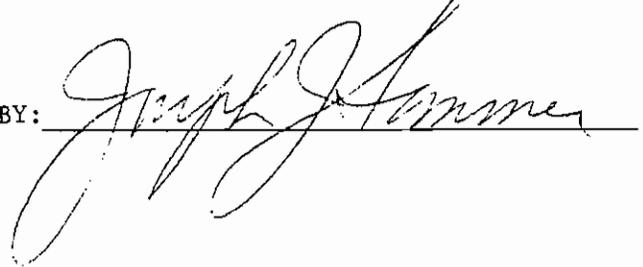
This Supplemental Agreement No. 6 is also executed by the Lessee this 6 day of August 1986.

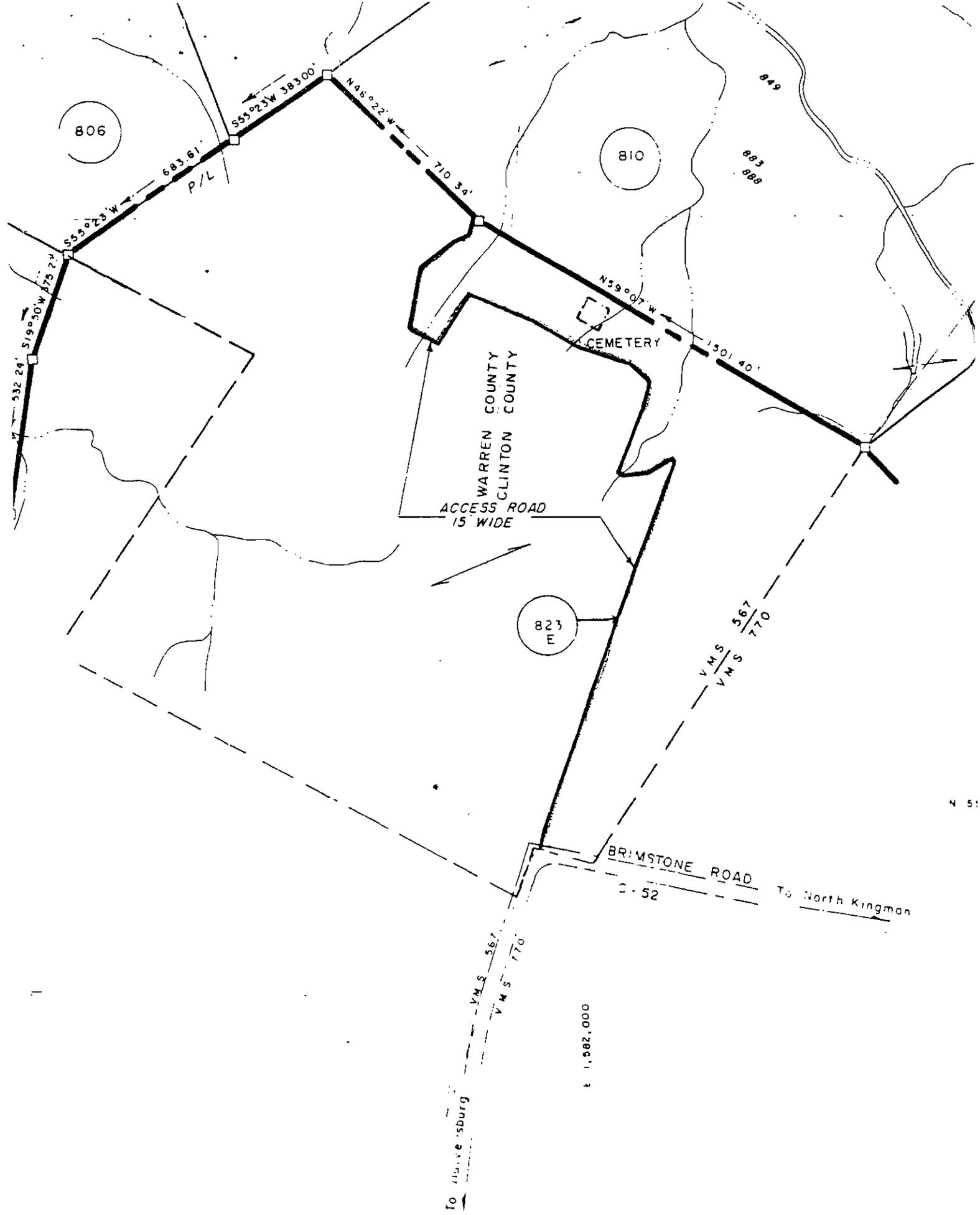
Signed and sealed
in the Presence of:



STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES

BY:





N 51

± 1,582,000

Supplemental Agreement No. 5

This Supplemental Agreement entered into by and between the Secretary of the Army, hereinafter referred to as the Government, and the State of Ohio, Department of Natural Resources, Columbus, Ohio, hereinafter referred to as the Lessee, Witnesseth That:

Whereas, a lease bearing No. DACW-27-1-76-43 was entered into by and between the Government and the Lessee on 4 November 1975, granting use and occupancy of approximately 9,311.31 acres of land and water areas of Caesar Creek Lake project for public park and recreational, fish and wildlife, and forest mangement purposes, for a term of fifty (50) years, beginning 1 July 1975 and ending 30 June 2025; and

Whereas, the lease was modified by Supplemental Agreement No. 1, dated 11 July 1977, to add 163.62 acres of land to the leased premises; and

Whereas, the lease was modified by Supplemental Agreement No. 2, dated 29 August 1979, to bring the lease into conformance with current wildlife management provisions; and

Whereas, the lease was modified by Supplemental Agreement No. 3, dated 22 July 1980, to grant the Lessee authority to enter into a third-party agreement with Wright State University for use of one (1) acre of project land; and

Whereas, the lease was modified by Supplemental Agreement No. 4, dated 7 June 1982, to delete from the leased premises 4.84 acres of lands and improvements, containing the Moses McKay House, a property listed on the National Register of Historic Places, and to grant authority for the Lessee to enter into a third-party agreement with the "Union of Native Indian Tribes for Education" (UNITE); and

Whereas, a 1.46-acre parcel of land designated as Tract No. 334 was previously incumbered with a life tenancy estate and therefore not included in the original lease agreement; and

Whereas, said parcel is now available to add to the leased premise and it is in the best interest of the Government and the lessee to include said area in the leased premises.

Now therefore, the said lease is amended, effective 1 July 1982, to add 1.46 acres of land as outlined in red on Exhibit "E" attached hereto and made a part hereof.

The said lease, dated 4 November 1975, as previously amended by Supplemental Agreement Nos. 1, 2, 3, and 4, in all other respects shall remain in full force and effect.

This Supplemental Agreement No. 5 is not subject to Title 10, United States Code, Section 2662.

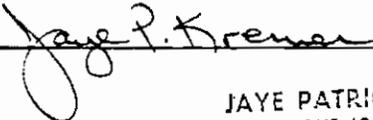
In Witness Whereof, I have hereunto set my hand this 30th day of September 19 82, by ~~direction of the Assistant Secretary of the Army (HSEM)~~ authority of the Secretary of the Army.


ROBERT R. HUMPHREYS
Chief, Real Estate Division
Louisville District, Corps of Engineers
Louisville, Kentucky

This Supplemental Agreement No. 5 is also executed by the Lessee this 16th day of September 1982.

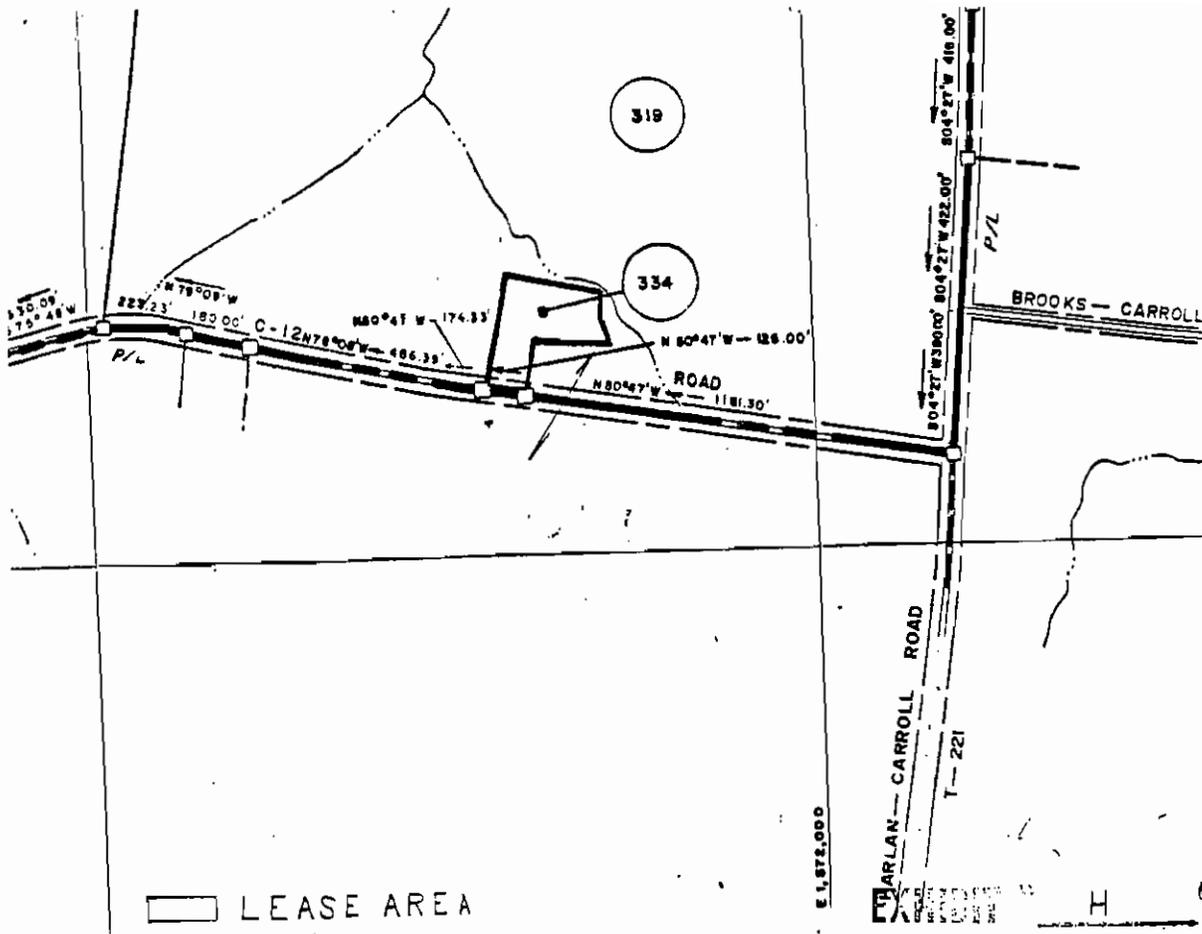
SIGNED AND SEALED
IN THE PRESENCE OF:

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES



JAYE PATRICIA KREMER
NOTARY PUBLIC - STATE OF OHIO
MY COMMISSION EXPIRES FEB 1, 1983

BY 



PROJECT MAP (CONTINUATION SHEET)			
DEPT. OF THE ARMY	USING SERVICE		CORPS OF ENGINEERS
LOCATION OF PROJECT		TRANSPORTATION FACILITIES	
STATE OHIO	RAILROADS		PENNSYLVANIA R.R. CO.
COUNTY WARREN	STATE ROADS		73 B 380
DIV. OHIO RIVER	FEDERAL ROADS		I-71 B 42
DIST. LOUISVILLE	AIRLINES		EASTERN
ARMY AREA	151		
16 MILES S.W.	OF XENIA		
20 MILES S.E.	OF DAYTON		
SEGMENT 3			
DEPARTMENT OF THE ARMY OFFICE OF THE LOUISVILLE DISTRICT ENGINEER OHIO RIVER DIVISION			
DRAWN BY John H. Spencer TRACED BY John H. Spencer CHECKED BY Ben Hoof	REAL ESTATE CAESAR CREEK LAKE		
SUBMITTED BY: <i>J. P. M. Powell, Jr.</i> CHIEF PLANNING & CONT BR	APPROVED BY: <i>Benjamin D. Shields</i> DISTRICT ENGINEER		
RECOMMENDED BY: <i>W. B. Boman</i> CHIEF REAL ESTATE DIV.	DATE <i>7 Mar 74</i> OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D. C. 20315		
INSTALLATION OR PROJECT NO. LOUV-2-0022	Scale 1" = 400'		
SHEET 4 OF 23	DRAWING NO.		

SUPPLEMENTAL AGREEMENT NO. 4

This Supplemental Agreement entered into by and between the Secretary of the Army, hereinafter referred to as the Government, and the State of Ohio, Department of Natural Resources, Columbus, Ohio, hereinafter referred to as the Lessee, WITNESSETH THAT:

WHEREAS, a lease bearing No. DACW-27-1-76-43 was entered into by and between the Government and the Lessee on 4 November 1975, granting use and occupancy of approximately 9,311.31 acres of land and water areas of Caesar Creek Lake project for public park and recreational, fish and wildlife, and forest management purposes, for a term of fifty (50) years, beginning 1 July 1975 and ending 30 June 2025; and

WHEREAS, the lease was modified by Supplemental Agreement No. 1, dated 11 July 1977, to add 163.62 acres of land to the leased premises; and

WHEREAS, the lease was modified by Supplemental Agreement No. 2, dated 29 August 1979, to bring the lease into conformance with current wildlife management provisions; and

WHEREAS, the lease was modified by Supplemental Agreement No. 3, dated 22 July 1980, to grant the Lessee authority to enter into a third-party agreement with Wright State University for use of one (1) acre of project land; and

WHEREAS, the Government and the Lessee have determined that 4.84 acres of land and improvements, containing the Moses McKay House, a property listed on the National Register of Historic Places, are excess to project requirements; and

WHEREAS, the Corps of Engineers and the Advisory Council on Historic Preservation entered into a Memorandum of Agreement for the Caesar Creek Lake project in 1979 which provided for the transfer of subject property to the General Services Administration for disposal. Conveyance of the property by the General Services Administration will be subject to compliance with Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation Regulations, "Protection of Historic and Cultural Properties," (36 CFR, Part 800); and

WHEREAS, the Lessee requested that the lease be further amended to grant authority for the Lessee to enter into a third-party agreement with the "Union of Native Indian Tribes for Education," hereinafter referred to as UNITE, for use of 128.297 acres of project land on which UNITE will construct an American Indian Center; and

WHEREAS, it is deemed in the best interest of the Government and the Lessee to enter into this supplemental agreement for the purpose of deleting 4.84 acres of land and improvements at Caesar Creek Lake from the lease and authorizing the Lessee to enter into a third-party agreement with UNITE.

NOW THEREFORE, the said lease is amended, effective 1 October 1981, to delete 4.84 acres of land as outlined in red on Exhibit E attached hereto and made a part hereof, and further amended to authorize the lessee to enter into a third-party agreement with UNITE, Spring Valley, Ohio, which agreement will grant UNITE the use of 128.297 acres of land as outlined in Exhibit F and more particularly described on Exhibit G, attached hereto and made a part hereof. The third-party agreement will authorize UNITE to develop an American Indian Center on portion of Tract No. 901, subject to the following conditions:

a. In the event of default by UNITE, the following conditions will apply:

(1) If no construction or partial construction has begun on the center, the lessee may, at its option, complete the development as planned or restore the site to its original condition.

(2) If construction is completed, the Lessee shall assume responsibility for operation of the center.

b. The UNITE development will be accomplished without cost to the Government and will not increase operation and management costs of the Government.

c. Any religious development will be for interpretative purposes and not to serve a particular religious belief, and further any educational facilities constructed will be designed to serve the general public and not any limited group sect or any other limited portion of the population.

The said lease, dated 4 November 1975, as previously amended by Supplemental Agreements Nos. 1, 2, and 3, in all other respects shall remain in full force and effect.

This Supplemental Agreement No. 4 is not subject to Title 10, United States Code, Section 2662.

IN WITNESS WHEREOF, I have hereunto set my hand this ^{27th} day of ^{JUNE} ~~APRIL~~

19 ~~82~~, by direction of the Assistant Secretary of the Army (IL&FM).

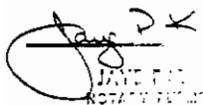


Gordon M. Hobbs
Assistant for Real Property
OASA (IL&FM)

This Supplemental Agreement No. 4 is also executed by the Lessee this

^{1st} day of April 19 82.

Signed and sealed
in the presence of:



JANE E. [unclear]
NOTARY PUBLIC STATE OF OHIO
MY COMMISSION EXPIRES [unclear]

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES

By 

DESCRIPTION OF LAND

TO BE LEASED

TO UNITE

Situated in Virginia Military Survey number 562, Massie Township, Warren County, Ohio, and being more particularly described as follows:

Beginning at an iron pipe found in the center of Township Road number 232, a.k.a. Furnas Road, and running thence North $47^{\circ}41'00''$ East, with said road, and passing an iron pipe found at a distance of 2,310.381 feet, a total distance of 2362.290 feet to an existing fence corner; thence South $51^{\circ}17'10''$ East, along an existing fence line, a distance of 2,003.124 feet to a point; thence South $35^{\circ}16'57''$ West a distance of 1,384.965 feet to a point in an abandoned road; thence South $48^{\circ}03'48''$ West a distance of 1,337.006 feet to a point in an existing fence; thence North $41^{\circ}56'12''$ West, along said fence line, a distance of 2,267.232 feet to the PLACE OF BEGINNING and containing 128.297 acres of land.

A survey of the above was performed under the supervision of John V. Horst, Registered Surveyor number 4522, in June, 1981.

July 7, 1981.

EXHIBIT "G"

SUPPLEMENTAL AGREEMENT NO. 3

This Supplemental Agreement entered into by and between the Secretary of the Army, hereinafter referred to as the Government, and the State of Ohio, Department of Natural Resources, Columbus, Ohio, hereinafter referred to as the Lessee, WITNESSETH THAT:

WHEREAS, a lease bearing No. DACW-27-1-76-43 was entered into by and between the Government and the Lessee on 4 November 1975, granting use and occupancy of approximately 9,311.31 acres of land and water areas of Caesar Creek Lake project for public park and recreational, fish and wildlife, and forest management purposes, for a term of fifty (50) years, beginning 1 July 1975 and ending 30 June 2025; and

WHEREAS, the lease was modified by Supplemental Agreement No. 1, dated 11 July 1977, to add 163.62 acres of land to the leased premises; and

WHEREAS, the lease was modified by Supplemental Agreement No. 2, dated 29 August 1979, to bring the lease into conformance with current wildlife management provisions; and

WHEREAS, the Lessee requested that the lease be amended to grant authority for the Lessee to enter into a third-party agreement with Wright State University for exclusive use of one (1) acre of project land on which the Wright State University Research Facility Center will be constructed for research and educational purposes; and

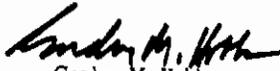
WHEREAS, it is deemed in the best interest of the Government and the Lessee to enter into this Supplemental Agreement for the purpose of authorizing the Lessee to enter into a third-party agreement with Wright State University.

NOW THEREFORE, the said lease as previously amended by Supplemental Agreements Nos. 1 and 2 is hereby amended, effective 1 May 1980, to authorize the Lessee to enter into a third-party agreement with Wright State University, Dayton, Ohio, which agreement will grant the University use of one (1) acre of land and access to same on Tract No. 621, Caesar Creek Lake project, as outlined on Exhibit D, attached hereto and made a part hereof. The third-party agreement will authorize the University to construct the Wright State University Research Facility Center on subject one-acre tract and provide easements for an access road and utilities as shown on Exhibit D.

The said lease, dated 4 November 1975, as previously amended by Supplemental Agreements Nos. 1 and 2, in all other respects shall remain in full force and effect.

This Supplemental Agreement is not subject to Title 10, United States Code, Section 2662.

IN WITNESS WHEREOF, I have set my hand this 22nd day of July, 1980, by direction of the Assistant Secretary of the Army (IL&FM).


Gordon M. Hobbs
Assistant for Real Property,
OASA (IL&FM)

This Supplemental Agreement No. 3 is also executed by the Lessee this 5th day of May, 1980.

Signed and sealed
in the presence of:



STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES

By 

SUPPLEMENTAL AGREEMENT NO. 2

This Supplemental Agreement entered into by and between the Secretary of the Army, hereinafter referred to as the Government, and the State of Ohio, Department of Natural Resources, Columbus, Ohio, hereinafter referred to as the Lessee, WITNESSETH THAT:

WHEREAS, a lease bearing No. DACW-27-1-76-43 was entered into by and between the Government and the Lessee on 4 November 1975, granting use and occupancy of approximately 9,311.31 acres of land and water areas of Caesar Creek Lake project for public park and recreational, fish and wildlife, and forest management purposes, for a term of fifty (50) years, beginning 1 July 1975 and ending 30 June 2025; and

WHEREAS, the lease was modified by Supplemental Agreement No. 1, dated 11 July 1977, to add 163.62 acres of land to the leased premises; and

WHEREAS, it is deemed in the best interest of the Government and the Lessee to enter into this supplemental agreement for the purpose of bringing the lease into conformance with current wildlife management provisions; and

WHEREAS, it is considered in the best interest of both parties to said lease to delete Condition No. 21 and add Condition No. 33 to the lease to bring it into conformance with current wildlife management provisions.

NOW THEREFORE, the said lease as previously amended by Supplemental Agreement No. 1 is hereby amended, effective 1 May 1979, in the following respects:

- a. Condition No. 21 of said lease is deleted in its entirety.
- b. Condition No. 33 is added to the lease as follows:

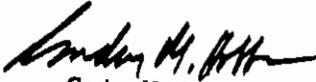
33. That the Lessee, in exercising its governmental or proprietary functions, may plant or harvest crops either directly, by service contract, by sharecrop agreements with local farmers, or by agricultural agreements to provide food and/or habitat for wildlife and for the development and conservation of fish and wildlife, forests, and other natural resources. Where feasible, contracts and agreements with third parties shall be by competitive bid procedures. The proceeds derived from the sale of crops and timber required to be cleared may be used in furtherance of the above uses at this project in accordance with the approved management plan. The balance of the proceeds not so used shall be paid to the United States of America at the expiration of each 5-year period. Payment of direct expenses is authorized for planning and development of optimum wildlife habitat including planting of wildlife food plots, necessary timber clearing, erosion control, or habitat improvements such as shelter, restocking of fish and wildlife, and protection of endangered species. Payment of Lessee's employees who are directly engaged in such activities at the project is also authorized. However, proceeds will not be used for general administrative expenses. Proceeds derived from the sale of fishing and hunting licenses are not subject to this condition. Any lands not being managed by the Lessee for wildlife habitat will be made available for lease by the District Engineer for agricultural or grazing purposes under conditions which would not be incompatible with the Lessee's use of the leased property. The Lessee will establish and maintain adequate records and accounts and render statements of receipts and expenditures in furtherance of its game management program and as otherwise may be reasonably required by the said District Engineer. The District Engineer shall have the right to perform audits of the Lessee's records and accounts.

Supplemental Agreement No. 2
Lease No. DACW-27-1-76-43
Caesar Creek Lake, Ohio

The said lease, dated 4 November 1975, as previously amended by Supplemental Agreement No. 1, in all other respects shall remain in full force and effect.

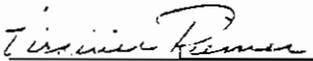
This supplemental agreement is not subject to Title 10, United States Code, Section 2662.

IN WITNESS WHEREOF, I have set my hand this 29th day of AUGUST, 1979, by direction of the Assistant Secretary of the Army.


- Gordon M. Hobbs
Assistant for Real Property
OASA (ILGFM)

This Supplemental Agreement No. 2 is also executed by the Lessee this 4th day of APRIL, 1979.

Signed and sealed
in the presence of:


Virginia Kerner

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES

By 
Robert W. Leater

✓

Lease No. DACW-27-1-76-43
Caesar Creek Lake, Ohio

SUPPLEMENTAL AGREEMENT NO. 1

This supplemental agreement entered into by and between the Secretary of the Army, hereinafter referred to as the Government, and the State of Ohio, Department of Natural Resources, Columbus, Ohio, hereinafter referred to as the Lessee, WITNESSETH THAT:

WHEREAS, a lease bearing No. DACW-27-1-76-43 was entered into by and between the Government and the Lessee on 4 November 1975, granting use and occupancy of approximately 9,311.31 acres of land and water areas of Caesar Creek Lake project for public park and recreational, fish and wildlife, and forest management purposes, for a term of fifty (50) years, beginning 1 July 1975 and ending 30 June 2025; and

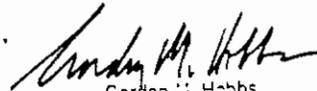
WHEREAS, the Government has acquired an additional 163.62 acres of land at Caesar Creek Lake, and it is deemed in the best interest of the Government and the Lessee to include these areas under the lease.

NOW THEREFORE, the said lease is amended, effective 1 April 1977, to add 163.62 acres of land as outlined in green on Exhibits C-1 through C-5, attached hereto and made a part hereof.

The said lease, dated 4 November 1975, in all other respects shall remain in full force and effect.

This supplemental agreement is not subject to Title 10, United States Code, Section 2662.

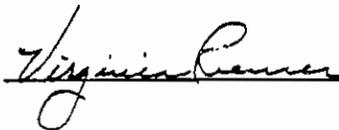
IN WITNESS WHEREOF, I have hereunto set my hand this 11th day of
JULY 1977, by direction of the Assistant Secretary
of the Army.

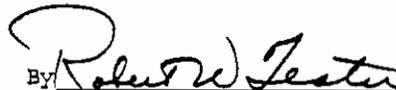

Gordon M. Hobbs
Assistant for Real Property
(OASA (R&L) FM)

This Supplemental Agreement No. 1 is also executed by the Lessee this
14th day of March, 1977.

Signed and sealed
in the presence of:

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES



By 

DEPARTMENT OF THE ARMY

LEASE

No. DACW-27-1-76-43

FOR PUBLIC PARK AND RECREATIONAL PURPOSES
FISH AND WILDLIFE, AND FOREST MANAGEMENT PURPOSES
CAESAR CREEK LAKE, CLINTON, GREENE, AND WARREN COUNTIES, OHIO. PROJECT AREA

THE SECRETARY OF THE ARMY under authority of Section 4 of the Act of Congress approved 22 December 1944, as amended (16 U.S.C. 460d), hereby grants to State of Ohio, Department of Natural Resources,

a lease for a period of fifty (50) years commencing on 1 July 1975 and ending on 30 June 2025, to use and occupy approximately 9,311.31 acres of land and water areas under the primary jurisdiction of the Department of the Army in the Caesar Creek Lake Project Area, hereinafter referred to as the premises as shown on attached Exhibit A and Exhibits B-1 thru B-5, ~~numbered~~ ~~updated~~, for public park and recreational, ~~purposes~~ fish and wildlife, and forest management purposes.

THIS LEASE is granted subject to the following conditions:

1. The lessee shall conform to such regulations as the Secretary of the Army may issue to govern the public use of the project area, and shall comply with the provisions of the above cited Act of Congress. The lessee shall protect the premises from fire, vandalism, and soil erosion, and may make and enforce such regulations as are necessary, and within its legal authority, in exercising the privileges granted in this lease, provided that such regulations are not inconsistent with those issued by the Secretary of the Army or with provisions of the above cited Act of Congress.

2. The lessee shall administer and maintain the premises in accordance with the U.S. Army Engineers' Master Plan and the implementing General Development Plan for the premises and with an Annual Management Program to be mutually agreed upon between the lessee and the U.S. Army District Engineer in charge of the administration of the project, which may be amended from time to time as may be necessary. Such Annual Management Program shall include, but is not limited to, the following:

a. Plans for management activities to be undertaken by the lessee or jointly by the U.S. Army Engineers and the lessee, including improvements and other facilities to be constructed thereon.

b. Budget of the lessee for carrying out the management activities.

c. Personnel to be used in the management of the area. *(See d. below)

3. The lessee shall provide the facilities and services necessary to meet the public demand either directly or through concession agreements with third parties. All such agreements shall state that they are granted subject to the provisions of this lease and that the concession agreement will not be effective until approved by the District Engineer.

4. Admission, entrance or user fees may be charged by the lessee for the entrance to or use of the premises or any facilities constructed thereon, PROVIDED, prior written approval of the District Engineer is obtained.

*d. Plans for supervising, patrolling, and policing the leased areas, including the water areas.

5. The amount of any fees and all rates and prices charged by the lessee or its concessionaires for accommodations, food (except packaged goods), and services furnished or sold to the public shall be subject to the prior approval of the District Engineer. The lessee shall, by 15 April ~~and 15 October~~ of each year, submit to the District Engineer for approval a list of the fees, rates and prices proposed for the following 12 months, including justification for any proposed increase or decrease. The District Engineer will give written notice to the lessee of his approval of or objection to any proposed fee, rate or price and will, if appropriate, state an approved fee, rate or price for each item to which an objection has been made. The lessee and/or its concessionaires shall keep a schedule of such fees, rates or prices posted at all times in a conspicuous place on the leased premises.

6. All monies received by the lessee from operations conducted on the premises, including, but not limited to, entrance and admission fees and user fees and rental or other consideration received from its concessionaires, may be utilized by the lessee for the administration, maintenance, operation and development of the premises. Any such monies not so utilized, or programmed for utilization within a reasonable time, shall be paid to the District Engineer at the end of each 5-year period. The lessee shall establish and maintain adequate records and accounts and render annual statements of receipts and expenditures to the District Engineer, except for annual or weekly entrance fees which also are honored at other recreational areas operated by the lessee. The District Engineer shall have the right to perform audits of the lessee's records and accounts, and to require the lessee to audit the records and accounts of third party concessionaires, and furnish the District Engineer a copy of the results of such an audit.

7. All structures shall be constructed and landscaping accomplished in accordance with plans approved by the District Engineer. Further, the lessee shall not discharge waste or effluent from the premises in such a manner that such discharge will contaminate streams or other bodies of water or otherwise become a public nuisance.

8. The right is reserved to the United States, its officers, agents, and employees, to enter upon the premises at any time and for any purpose necessary or convenient in connection with river and harbor and flood control work, and to remove timber or other material required for such work, to flood the premises when necessary, and/or to make any other use of the land as may be necessary in connection with public navigation and flood control, and the lessee shall have no claim for damages of any character on account thereof against the United States or any agent, officer or employee thereof.

9. Any property of the United States damaged or destroyed by the lessee incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the lessee to the satisfaction of the District Engineer.

10. The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the exercise of the privileges herein granted, or for damages to the property of the lessee, or for damages to the property or injuries to the person of the lessee's officers, agents, servants, or employees or others who may be on the premises at the invitation or the invitation of any one of them, arising from or incident to the flooding of the premises by the Government or flooding from any other cause, or arising from or incident to any other governmental activities, and the lessee shall hold the United States harmless from any and all such claims.

11. That at the time of the commencement of this lease, the lessee will obtain from a reputable insurance company, acceptable to the Government, liability or indemnity insurance providing for minimum limits of \$ _____ per person in any one claim, and an aggregate limit of \$ _____ for any number of persons or claims arising from any one incident with respect to bodily injuries or death resulting therefrom, and \$ _____ for damage to property suffered or alleged to have been suffered by any person or persons resulting from the operations of the lessee under the terms of this lease.

12. This lease may be relinquished by the lessee at any time by giving to the Secretary of the Army, through the District Engineer, at least 30 days' notice in writing.

13. This lease may be revoked by the Secretary of the Army in the event the lessee violates any of the terms and conditions of this lease and continues and persists therein for a period of 30 days after notice thereof in writing by the District Engineer.

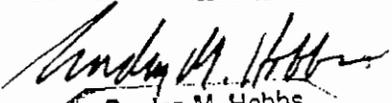
14. On or before the date of expiration of this lease or its relinquishment by the lessee, the lessee shall vacate the premises, remove its property therefrom, and restore the premises to a condition satisfactory to the District Engineer. If, however, this lease is revoked, the lessee shall vacate the premises, remove its property therefrom, and restore the premises as aforesaid within such time as the Secretary of the Army may designate. In either event, if the lessee shall fail or neglect to remove its property and so restore the premises, then its property shall become the property of the United States without compensation therefor, and no claim for damages against the United States or its officers or agents shall be created by or made on account thereof.

15. The lessee or its concessionaires shall not discriminate against any person or persons because of race, creed, color, or national origin in the conduct of its operations hereunder. The grantee furnishes as part of this contract an assurance (Exhibit C) that he will comply with Title VI of the Civil Rights Act of 1964 (78 Stat. 241) and Department of Defense Directive 5500.11 issued pursuant thereto and published in Part 300 of Title 32, Code of Federal Regulations.

16. All notices to be given pursuant to this lease shall be addressed, if to the lessee, to State of Ohio, Department of Natural Resources, Fountain Square, Columbus, O. 43224, if to the Government, to the District Engineer, Louisville District, Corps of Engineers, P. O. Box 59, Louisville, Kentucky 40201, or as may from time to time be directed by the parties. Notice shall be deemed to have been duly given if and when inclosed in a properly sealed envelope or wrapper, addressed as aforesaid and deposited postage prepaid (or, if mailed by the Government, deposited under its franking privilege) in a post office or branch post office regularly maintained by the United States Government.

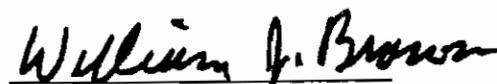
17. This lease is subject to all existing easements, and easements subsequently granted, for roadways, and utilities located or to be located on the premises, provided that the proposed grant of any easement will be coordinated with the lessee and easements will not be granted which will interfere with developments, present or proposed, by the lessee. Conditions Nos. 18 through 32 are set forth on attached sheet.

IN WITNESS WHEREOF I have hereunto set my hand this 4th of NOVEMBER, 19 75, by direction of the Assistant Secretary of the Army.

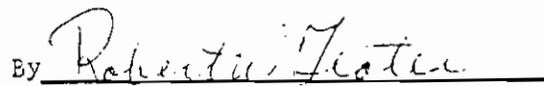

Gordon M. Hobbs
Assistant for Real Property
OASA (I&L)

The above instrument, together with the provisions and conditions thereof, is hereby accepted this 12th day of June, 19 75

Approved as to form this 19 day of May, 19 75.


Attorney General

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES

By 
Robert W. Teater, Director

in a given future year, the lessee will be allowed to provide a reasonable surplus which will be held in reserve against a future poor crop season or may be disposed of by the State and the proceeds from the sale held in reserve against a future poor crop season. In any event, the lands will not be used by the State for the production of crops or any other purpose solely to produce revenue to defray costs of management of the wildlife area. Lands within the leased area, available for lease for agricultural or grazing purposes, will be leased by the District Engineer. Monies collected by the State and not used to provide food for wildlife in a poor crop season shall be paid to the District Engineer at five-year intervals. The lessee will establish and maintain adequate records and accounts and render periodic statements of receipts and expenditures in furtherance of its wildlife feeding program, as may be required by said District Engineer.

22. That the lessee may cut timber, either directly or by contract, as may be necessary to further the development and conservation of forest lands, and collect and utilize the proceeds of any sales of timber in the development, conservation, maintenance, and utilization of said lands. No timber will be cut and sold solely to produce revenue to defray costs of management of the leased area. Any funds received by the lessee from the sale of timber and not so utilized or programmed for utilization within a reasonable time will be paid to the United States of America at the expiration of each five-year period of the term of the lease. The first five-year period is to begin on the date of the execution of this lease for and on behalf of the United States of America. The lessee will establish and maintain adequate records and accounts and render periodic statements of receipts and expenditures in furtherance of its management program as may be required by said District Engineer.

23. That the lessee may take, trap, remove, stock, or otherwise control all forms of fish and wildlife within the said area and may place therein such additional forms of fish and wildlife as it may desire from time to time, and shall have the right to close the area or any parts thereof from time to time to fishing, hunting, or trapping, provided that the closing of any area to such use for fishing, hunting, or trapping shall be consistent with the State laws for the protection of fish and wildlife; also, the lessee shall enforce the fish and game laws and such orders and regulations as may be issued by the Division Chiefs of the Department of Natural Resources and/or its Director, which laws, orders, and regulations are consistent with its State-wide program.

24. That the water areas of the said area shall be open to public use generally for boating, swimming, bathing, fishing, and other recreational purposes and that ready access to and exit from such areas along the shores of the lake shall be maintained for general public use, when such use is determined by the Secretary of the Army not to be contrary to the public interest. However, no use of any area shall be permitted which is inconsistent with the State laws for the protection of fish and wildlife.

25. That this lease is subject to all existing and future easements, leases, licenses, and permits heretofore granted, or to be hereafter granted, by the United States concerning said lands; provided, however, that upon appropriate notification by the lessee to said District Engineer, the United States, insofar as may be consistent with other uses and purposes of the lands, will not enter into any new easements, leases, licenses, or permits, or renewals thereof which will in the opinion of the District Engineer adversely affect the current operations of the lessee under the provisions of the lease or which will conflict with the definitely scheduled program of the lessee for the expansion of its activities under the provisions of this lease.

26. That no cuts or fills along the shoreline shall be made by the lessee without the prior approval of the said District Engineer.

27. That the lessee, in its conduct of the activities hereby authorized, agrees to comply promptly with applicable federal and state laws and regulations relating to the preservation and enhancement of the quality of the environment and the elimination of environmental pollution. Such federal and state laws and regulations in effect or to be prescribed are hereby made a condition of this lease.

28. That ingress to and egress from the reservoir area shall be afforded the lessee over existing access roads, such interior roads as may be constructed at such additional places over Government-owned lands as may be approved by said District Engineer. The lessee shall provide appropriate markings at its own expense.

29. That the United States shall not be responsible for damages to property or injuries to persons which may arise from the lessee's activities on the leased premises and the lessee shall hold the United States harmless from any and all such claims.

30. If and when a General Plan for Fish and Wildlife Management is approved pursuant to Section 3 of the Fish and Wildlife Coordination Act, as amended (72 Stat. 566; 16 U.S.C. 663), this lease will be amended to the extent necessary to conform with such General Plan.

31. That Exhibit A generally depicts the leased area. Because certain tracts were not acquired as of the effective date of the lease, Exhibits E-1 through B-5 are attached and made a part of the lease to accurately describe the areas excluded. As the excluded areas are acquired, they will be included in the leased area by supplemental agreement.

32. That prior to execution of this lease, the granting clause and Conditions Nos. 1, 5, and 15 were modified, Condition No. 2d and Conditions Nos. 18 through 32 were added, and Conditions Nos. 10, 11, and 17 were deleted.

18. That, upon completion of construction of facilities by the Department of the Army, an inventory and condition report of all personal property and improvements of the Government included in this lease shall be made by a representative of the Government and a representative of the lessee to reflect the then present condition of said property. A copy of said inventory and condition report shall be attached hereto and become a part hereof, as fully as if originally incorporated herein. Upon the expiration, revocation, or termination of this lease, a similar inventory and condition report shall be prepared and submitted to the said officer, said inventory and condition report to constitute the basis of settlement by the lessee with said officer for the leased property shown to be lost, damaged, or destroyed, any such property to be either replaced or restored to the condition required by Condition No. 14 hereof, or at the election of the Government reimbursement made therefor by the lessee at the then current market value thereof.

19. Concession agreements entered into pursuant to Condition No. 3 above will require that the concessionaire obtain liability insurance from a reputable insurance company, acceptable to the Government, providing minimum protection of the Government in limits of \$50,000.00 per person for any one claim and an aggregate limit of \$150,000.00 for any number of persons or claims arising from any one incident with respect to bodily injuries or death resulting therefrom, and \$5,000.00 for damage to property suffered or alleged to have been suffered by any person or persons resulting from the operations by the concessionaire under the concession agreement. Such insurance coverage will be obtained prior to initiation of operations by the concessionaire and be carried for the full term of the concession agreement.

20. That the lessee may construct upon said land such buildings, improvements, facilities, accommodations, fences, signs, and other structures as may be necessary for the purpose of this lease, and may plant seeds, shrubs, and trees, provided that all such structures shall be constructed and the landscaping accomplished in accordance with plans approved by the District Engineer, Corps of Engineers, in charge of the administration of the property; and, provided further that each one of the foregoing items proposed for location below elevation 888 feet mean sea level must have the prior written approval for the design and location thereof by the said District Engineer, and the lessee hereby further agrees that it will from time to time relocate, remove, or alter any of the items so constructed below elevation 888 feet mean sea level within such time as the said District Engineer may direct in writing to accommodate any changes in plans or purposes for operating the dam and controlling the lake elevation.

21. That the lessee, in exercising its governmental or proprietary functions, may plant and harvest crops, either directly or by service contract or under sharecrop agreements with local farmers, to provide: (a) food and cover for wildlife and (b) necessary compensation to farmers under any sharecrop agreement. Recognizing that a poor crop season may result in a lack of food for wildlife

21 deleted by
SIA No. 2. See Cont.
No 32

BIENNIAL MANAGEMENT PLAN

For ODNR operated State Park or Wildlife area on lands and waters leased or permitted by the U.S. Army Corps of Engineers

NAME OF AREA: Caesar Creek State Park

TERM COVERED BY THIS PLAN: FY 92 - FY 93

APPROVED BY: *Russell Edsell* *5-21-91*
Division Chief Date

SUBMITTED BY: *Robert L. Lucas* *5/28/91*
ODNR Corps of Engineer Liaison Date

A. MANAGEMENT ACTIVITIES DIRECTED AT IMPROVING AND MAINTAINING RESOURCE BASE

1. Structural/Physical Elements

Plans for new construction or major repair of any structural elements such as roads, buildings, trails, signage, or other public use facilities:

- no planned changes; facilities to be maintained at same level as previously
 new construction, renovation or repairs planned as follows:

The projected budget cuts will cause us to make some changes in our operational plan. Our mowing patterns will be decreased as well as later opening dates on many of our day use facilities. Also, the renovation cycle on many of our structures would be set back.

B. MANAGEMENT ACTIVITIES DIRECTED AT SUPERVISING PUBLIC VISITATION TO PROVIDE RECREATIONAL OPPORTUNITIES AND PROMOTE RESOURCE MANAGEMENT AND PROTECTION OBJECTIVES RELATED TO PUBLIC VISITATION

1. Sporting/Recreational Activities

Plans for new user groups or recreational vehicles/equipment to be incorporated in range or services.

- No changes planned; no new special events or third party leases, licenses or special privileges planned
 New or modified special sport/recreation events or activities are planned as follows:

2. Law Enforcement

Plans for protection of visitor safety, Federal lands and property from damage or unauthorized private use.

- No changes planned; no new law enforcement procedures or significant changes in staff/equipment planned
 New or modified law enforcement activities are planned as follows:

Should the projected budget cuts impact full time officers we would be placed in a position of re-structuring our patrol patterns.

3. User Surveys and Research

Plans to measure and respond to identified or changing visitor preferences for recreational or sporting activities that are consistent with statutory management objectives.

- No changes planned; no surveys or research to be conducted specific to project site
- Surveys or other research activities related to visitation are planned as follows:

C. SIGNIFICANT MODIFICATION TO POLICIES, ADMINISTRATIVE RULES OR PROCEDURES

None, except as noted in plan.

BIENNIAL MANAGEMENT PLAN

For ODNR operated State Park or Wildlife area on lands and waters leased or permitted by the U.S. Army Corps of Engineers

NAME OF AREA: Caesar Creek Wildlife Area

TERM COVERED BY THIS PLAN: FY 92-93

APPROVED BY: Richard B. Prew May 16, 1991
Division Chief Date

SUBMITTED BY: Robert L. Lucas May 21, 1991
ODNR Corps of Engineer Liaison Date

A. MANAGEMENT ACTIVITIES DIRECTED AT IMPROVING AND MAINTAINING RESOURCE BASE

1. Structural/Physical Elements

Plans for new construction or major repair of any structural elements such as roads, buildings, trails, signage, or other public use facilities:

- No planned changes; facilities to be maintained at same level as previously
- New construction, renovation or repairs planned as follows:

2. Wildlife Management (Terrestrial)

Plans for habitat manipulation, special hunting regulations, surveys, release of propagated wildlife, nuisance animal trapping or control, and other activities impacting terrestrial wildlife populations including game and non-game species:

- No planned changes; habitats and wildlife management activities to continue as previously
- New or modified wildlife management activities are planned as follows:

We plan to develop one wetland at the north end of the area off Paintersville-Spring Valley Road. The wetland will be developed where there are currently some seeps that remain wet year round. Total acres developed will be approximately 8.

3. Fisheries Management

Plans for stocking, aquatic structure enhancement, research, surveys and other fishery related activities

 No planned changes; fishery to be managed as previously
 X Fish management activities are planned as follows:

Stock 280,000 saugeye (female walleye x male sauger) fingerlings annually. Conduct fish population surveys to measure stocking success.

B. MANAGEMENT ACTIVITIES DIRECTED AT SUPERVISING PUBLIC VISITATION TO
PROVIDE RECREATIONAL OPPORTUNITIES AND PROMOTE RESOURCE MANAGEMENT
AND PROTECTION OBJECTIVES RELATED TO PUBLIC VISITATION

1. Sporting/Recreational Activities

Plans for new user groups or recreational vehicles/equipment to be incorporated in range or services.

- No changes planned; no new special events or third party leases, licenses or special privileges planned
 New or modified special sport/recreation events or activities are planned as follows:

2. Law Enforcement

Plans for protection of visitor safety, Federal lands and property from damage or unauthorized private use.

- No changes planned; no new law enforcement procedures or significant changes in staff/equipment planned
 New or modified law enforcement activities are planned as follows:

3. User Surveys and Research

Plans to measure and respond to identified or changing visitor preferences for recreational or sporting activities that are consistent with statutory management objectives.

- No changes planned; no surveys or research to be conducted specific to project site
- Surveys or other research activities related to visitation are planned as follows:

C. SIGNIFICANT MODIFICATION TO POLICIES, ADMINISTRATIVE RULES OR PROCEDURES



CAESAR CREEK LAKE WILDLIFE AREA

Clinton, Greene, and Warren Counties

DISTANCE FROM MAJOR POPULATION CENTERS:

- 30 miles from Cincinnati
- 62 miles from Columbus
- 26 miles from Dayton
- 31 miles from Hamilton
- 22 miles from Middletown
- 31 miles from Springfield

LOCATION AND DESCRIPTION

Caesar Creek Lake Wildlife Area is located in southwestern Ohio, 3 miles east of Spring Valley on Spring Valley-Paintersville Road. State Route 73 bisects the reservoir south of the wildlife area and crosses Corwin-New Burlington Road which provides access to the wildlife area from the south. Lumberton-New Burlington, Center, and Mound Roads reach the area from the southeast. In Greene County, Cemetery, Roxanna-New Burlington, and Spring Valley-Paintersville Roads provide access from the north and west.

The 2,257-acre wildlife area lies at the upper end of Caesar Creek Lake, a flood control reservoir operated by the U.S. Army Corps of Engineers. In summer the reservoir is normally 2,830 acres. During periods of heavy rainfall the reservoir covers portions of the normally dry wildlife area. Caesar Creek State Park, 7,929 acres, lies south of the wildlife area on both sides of the reservoir.

Meadow and grain crops cover about 50 percent of the wildlife area and woodlands make up about 40 percent. The remainder is reverting fields—a mixture of shrubs, small trees, grasses, and forbs.

HISTORY AND PURPOSE

Caesar Creek Lake was constructed by the U.S. Army Corps of Engineers for flood control and recreation. It was completed in 1977. Of the 10,186 acres licensed to the Ohio Department of Natural Resources, 2,257 acres are managed by the Division of Wildlife for public hunting and fishing. The Division of Parks and Recreation manages 7,929 acres for general recreation, and issues waterfowl hunting blind location permits on the reservoir for the waterfowl season. Some areas within the park lands are closed to hunting.

Wildlife area habitat management work has included development of crop rotations and field sizes to provide food and cover for upland wildlife. Wildlife habitat has been enhanced by planting trees and shrubs to establish field dividers, improving existing fencerows through selective cutting, and protecting and improving woodlands. A 20-acre marsh has been developed for waterfowl.

FISH AND WILDLIFE

Northern bobwhite quail, cottontail rabbit, fox squirrel, and woodchuck are the major game species, although white-tailed deer and gray squirrel are found on the area in good numbers. Waterfowl are most common during migration. Common furbearers are raccoon, opossum, muskrat, mink, weasel, skunk, red fox, and gray fox. A variety of songbirds can be found on the area. Largemouth and smallmouth bass, crappies, walleye, bluegill, catfish, sunfish, suckers, and carp occur in the lake.

HUNTING, TRAPPING, AND FISHING

Caesar Creek is very popular for hunting rabbits and quail, both of which are found throughout the area. Squirrel hunting is best for gray squirrels in the larger stands of mature woodland and for fox squirrels in the smaller woodlots, along the streams, and in woody fencerows. Woodchucks abound on the area. Deer hunting with longbow is good throughout the area. Waterfowl hunting is available on the reservoir, the streams around the reservoir, and the marsh.

Trapping is most productive around the ponds and along the streams running into the reservoir. The headwaters north of the reservoir are productive for catfish and smallmouth bass. Good fishing is found throughout the lake in coves with stumps and standing trees.

PUBLIC USE FACILITIES

Fifteen parking areas are distributed throughout the wildlife area. One boat launching area, at Haines Road, is available on the wildlife area and several others in the state park provide access to the reservoir. A dog training area is located at the end of Scott Road; dog training is permitted all year, only in the posted unit.

ADDITIONAL INFORMATION

Further information may be obtained from Wildlife District Five Office, 1076 Old Springfield Pike, Box 576, Xenia, Ohio 45385; telephone (513) 372-9261.

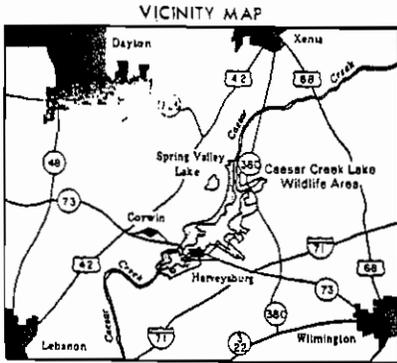
TURN IN A POACHER

Ohio's TIP, "Turn In a Poacher," program is helping to curtail poaching throughout the state. TIP is designed to involve the public in reporting wildlife violations. Citizens who observe wildlife violations should call the TIP toll-free hotline, 1-800-POACHER.



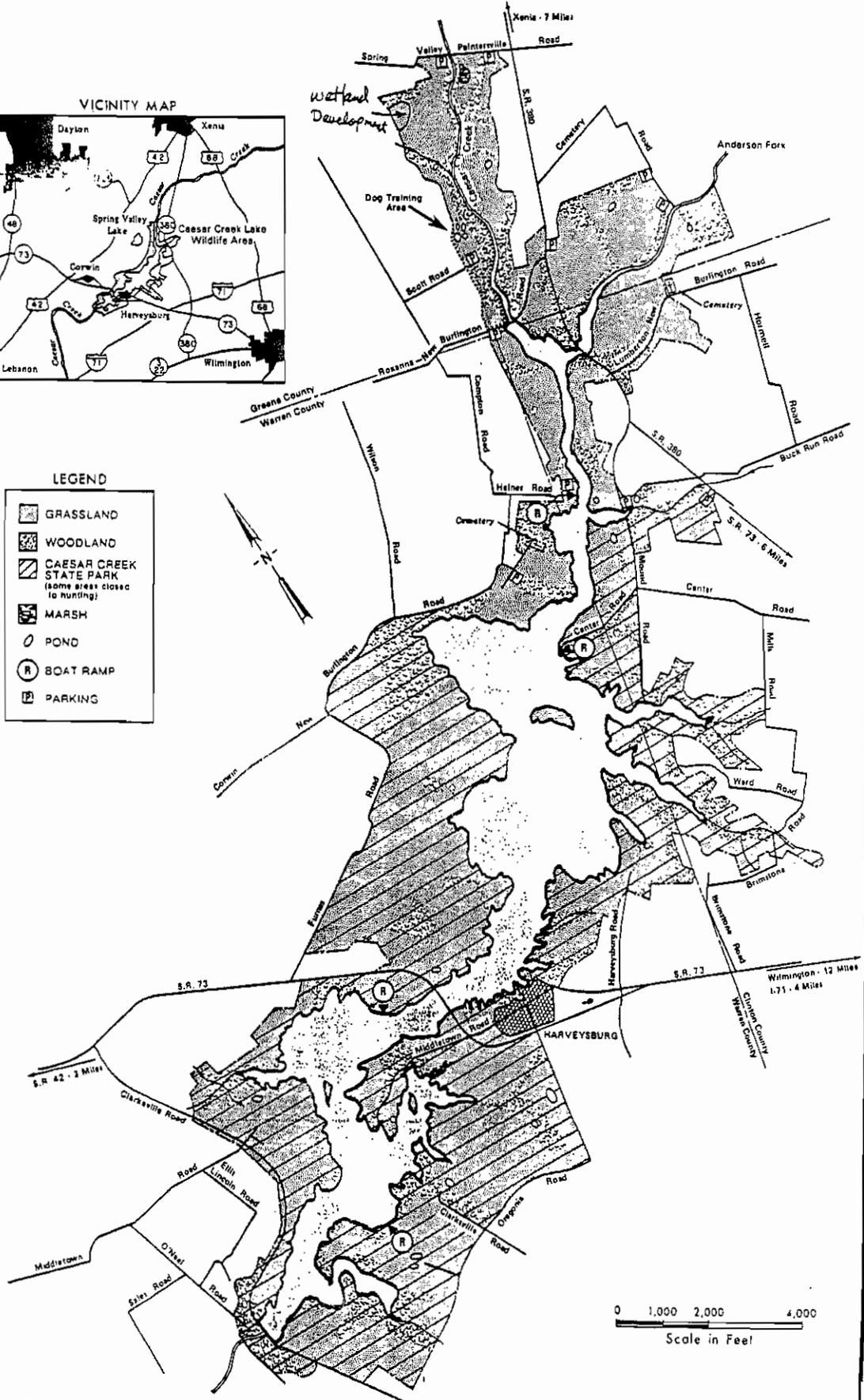
Richard F. Celeste, Governor • Joseph J. Sommer, Director

Total copies printed 5000
Unit cost \$ 402
Publication date 17/86



LEGEND

- GRASSLAND
- WOODLAND
- CAESAR CREEK STATE PARK (some areas closed to hunting)
- MARSH
- POND
- BOAT RAMP
- PARKING



EXHIBIT

COMMENTS by ODNR, STATE MANAGER

Update OOKL Master Plan

1. Recreational facility needs: ODNR
 - a.) Non-concur on boat launching lanes and parking lot expansion. The addition of parking will add to an already congested boating situation on the lake. Additional launching lanes would only be appropriate for Wellman Meadows boat launch. The construction of the proposed marina would assist in facilitating launching and vehicle parking and should be considered as the primary method of alleviating the parking and launching problems.
 - b.) Additional individual camp sites at the Mound Ridge facility would not be fully utilized under current or future projected trends. Currently the facility experiences full utilization only on holiday weekends. The more immediate need would be for the development of primitive or semi-primitive camping at the Mound Ridge Campground, upgrading of facilities at the Horsemans Camp, and provide back packers a primitive camp at the Wellman Site.
 - c.) Additional picnic sites are in order. However, development of these sites should be limited to the following areas; Beach Area (North of the current parking lots), 50 Springs, Wellman Meadows, and in the future the Lukens Road area.
 - d.) Mound Ridge Campground needs to have its beach area developed. This should be included with Recreational Facility needs.
 - e.) Additional developed bank fishing parking is not necessary. Currently parking at road terminis and pull off areas has proven more than adequate. These areas include: Old Rt 73 on West shore, Harveysburg Rd., Lukens Rd., Wellman Meadows Launch Ramp, Haines Launch Ramp, the Old Road System on Anderson Fork, Wildlife area parking lots, Gorge parking area, Flat Fork Ridge parking area and Spillway parking.
2. Maps
 - 6.01 (a)✓ O'Neil Gorge is properly called Caesar Creek Gorge and should be labeled as such on maps.
 - (b)✓ Add existing trail in Tailwater area.
 - (c)✓ Add existing trail north of Visitor Center.
 - (d)✓ Show existing parking areas located in the Spillway.
 - (e)✓ Handicap Ramp should be shown as future facility.
 - (f) Show location of future trail from Visitor Center to Control Tower.
 - (g)✓ Show future development of handicap access to picnic shelter at Flat Fork Ridge.

- 6.02(a) Correct management division line.
- 6.03(a) Correct location of parking area is more south of pond.
- 6.04(a) Service road is asphalt not gravel.
 - (b) Directions on road that say "To Sailboat Ramp" is incorrect. It should read "To North Pool Boat Ramp".
 - (c) Label marina "future".
 - (d) Parking lot location near St. Rt. 73 is incorrect.
- 6.05(a) No sailboat marina is located or planned for this site. This should be removed.
 - (b) Location of TF facility should be marked on North side of launching ramps.
 - (c) Overnight boat storage area is officially designated as "Dry Moorage Area".
 - (d) Show all overflow (Turf) parking areas as being paved in the future.
 - (e) Correct layout location of current connecting road between North and South parking lots at beach area.
 - (f) Eliminate one way loop proposed for beach parking.
 - (g) Move proposed picnic sites from East side of beach to north of beach parking lots.
 - (h) Show location of keelless launching area south of North Pool Boat Ramp.
 - (i) Remove Horse Trail shown in area.
 - (j) Incorrect spelling of Maintenance Center.
 - (k) Show additional courtesy docks at North Pool Ramp.
- 6.06(a) Remove all Horse Trails that are south of Dike.
 - (b) Mark area as "Nature Study Area".
- 6.08(a) Compartment #4 should be labeled as "Wildlife Area".
- 6.09(a) Remove names of previous owners.
 - (b) Correct boundary line.
- 6.10(a) Show the relocation of various roads. This should apply to all maps with road relocations.
 - (b) Remove old buildings and owners names.
 - (c) Label as "Wildlife Area".
- 6.13(a) Relocate parking area.
- 6.14(a) Reduce primitive camping area in scope and

size. This area should be utilized as group or small group primitive sites. The number of sites should be reduced from 100 to a size that could accommodate up to 20 small groups. This area should also be relocated to the area immediately north of Mound Ridge Campground. This area could be expanded as future needs indicate. Currently needs do not justify major expansion of facilities in this area (see 1 (b) for additional justification.

- (b) Several additional facilities are not shown on this map. These are: TF comfort station located north of the boat ramp parking area, An amphitheater located between the above mentioned TF comfort station and the cul-de-sac to the east, a TF comfort station loop north of Center Road, and the parcourse parking area located east of Mound Road and north of Center Road
- (c) Proposed addition to boat ramp parking area should be removed. If it were constructed the TF comfort station currently located here would have to be removed.

- 6.15(a) Indicate existance of Youth Hostel on state owned portion of land.
- (b) Show location of State Park Maintenance Area.
- (c) Show location of State Park Residence.
- (d) Show locations of existing Play Areas and gravel Visitor Parking in campground.
- (e) Delete areas on east of side Mound Rd. showing expanded camping and play areas on state owned property.
- (f) Statement in lower left corner about map 6.12 matching this segment (6.15) is incorrect.

- 6.16(a) Reduce number of future cabins from 60 to 44. This is most easily done by eliminating two most southern loops.

- 6.17(a) Label as "scenic area".
- (b) Show additional land owned by State of Ohio.

- 6.18(a) , Delete Interpretive Center and it's corresponding road. With current Visitor Center facility this would be needlessly redundant.
- (b) Area is used as natural and wildlife area.

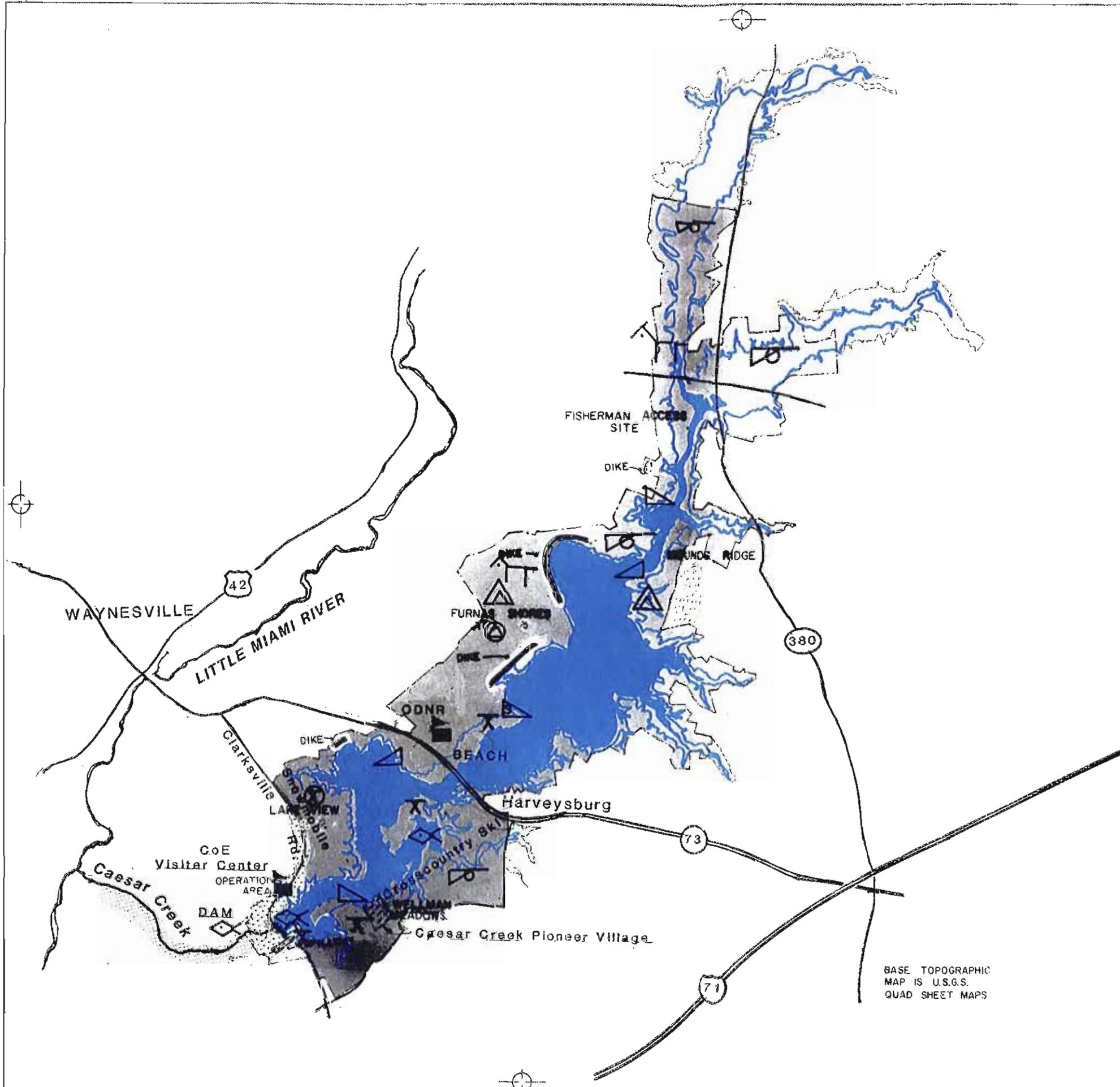
- 6.19(a) ; Indicate location of proposed water intake, north of Old Rd 73 off east shore of lake.

- 6.20(a) Maintain future picnic development, however do not add road that goes south from this area to Lukens Rd. The addition of this internal road would be redundant. Oregonia Road acts as a perimeter road that provides all the access needed to these areas. This additional road would create needless maintenance and remove valuable acreage from wildlife and the park area.
- (b) Designate trail as cross-country ski trail.
- (c) Several facilities are indicated in this area that do not exist. 1 Picnic Shelter and 1 Comfort Station. These should be removed (See 6.20).
- (d) The wrong comfort station is slated for relocation. Please refer to 6.20 for the correct relocation of comfort station.
- (e) Handicapped access is excellent idea. Good location.
- 6.21(a) Remove internal road system (See 6.20 (a) for justification).
- (b) Designate wooded area as Nature Study Area. This is one of the more valuable scenic wooded areas. Should be utilized for low impact recreation activities.
- (c) Indicate presence of State Park Residence in area.
- 6.22(a) Dock shown in this area does not exist. This should be removed.
- (b) Back Packers primitive camp site should be shown in area south of boat launch, between the two existing ponds near the junction of the hiking trails.
- (c) This area could benefit from the addition of a launching lane or two in the future.
- (d) Alternate marina site should be deleted from this map.

3. Text

2-02 Summarized Project Data

- (c) Spillway:
Bottom width of Spillway is 500 ft not 450 ft listed.
- (d) Outlet Works:
The following corrections are needed:
(1) Conduit is an QVAL not Circle.
(2) The diameter is 8' x 12' not 8'.
(3) Size of main gates are 4' x 12' not 3.75' x 8'.

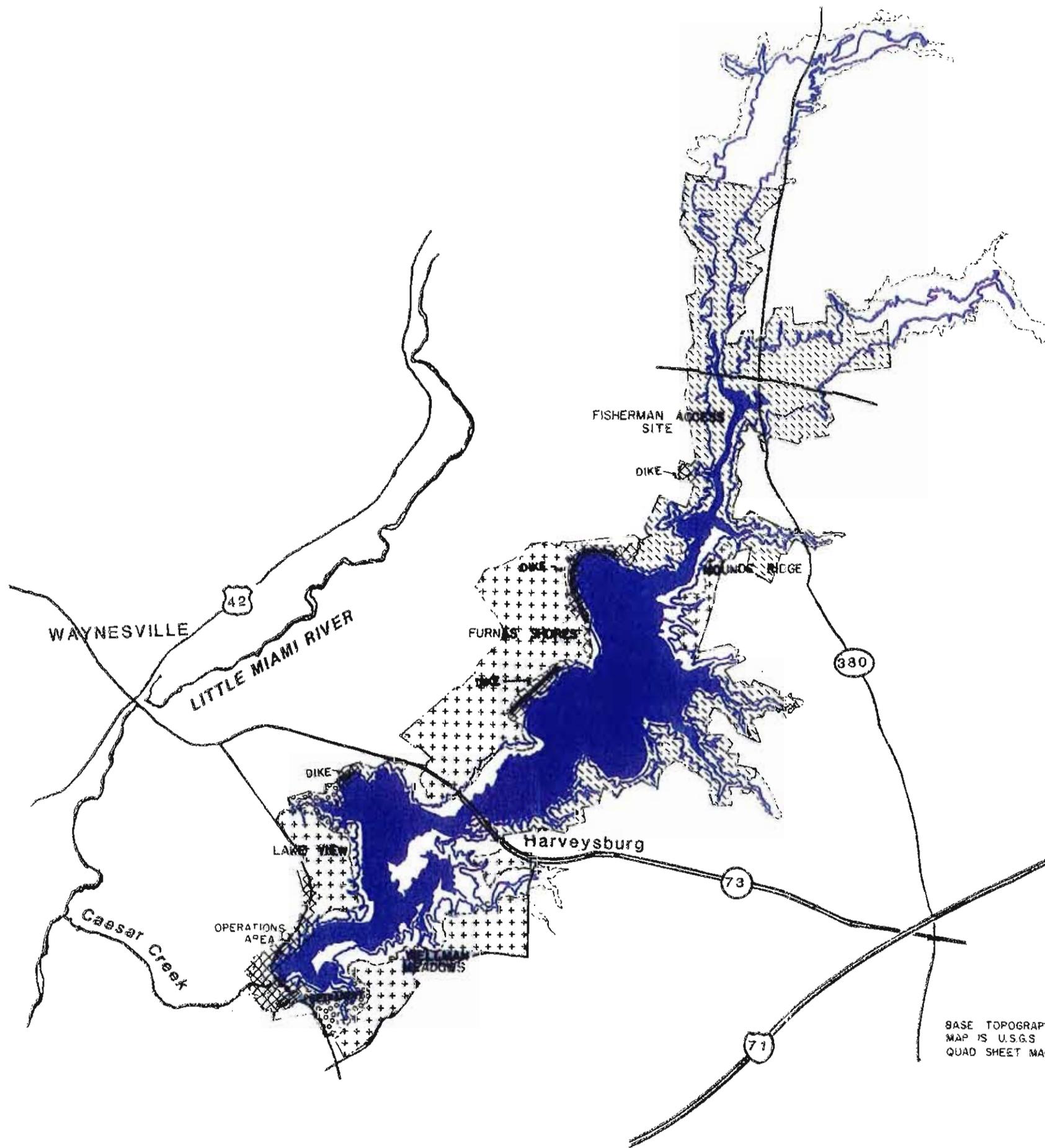


- FLOOD POOL ELEV. 883
- SEASONAL POOL ELEV. 849
- PROJECT BOUNDARY and LAND RETAINED BY CORPS OF ENGINEERS
- FLOWAGE EASEMENT
- LANDS LEASED TO STATE OF OHIO
- ACQUISITION BY STATE OF OHIO
- BOAT LAUNCHING RAMP
- FISHING FACILITY
- PICNIC AREA
- CAMP GROUND
- WILDLIFE MANAGEMENT AREA
- HORSE TRAIL
- GROUP FACILITY
- SAILBOAT FACILITY
- OFFICE



DESIGNED:	U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
TRAYN:	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER AREA MAP	
CHECKED:	APPROVED:	DATE:
SUBMITTED:	APPROVED:	DATE:
APPROVAL TECH:	APPROVED:	DATE:
ASST CHIEF PLANNING DIV:	COL. CHIEF OF DISTRICT:	DISTRICT ENGINEER:
APPROVED:	SCALE:	DRAWING NUMBER:
CIVIL PLANNING DIVISION:		

BASE TOPOGRAPHIC MAP IS U.S.G.S. QUAD SHEET MAPS

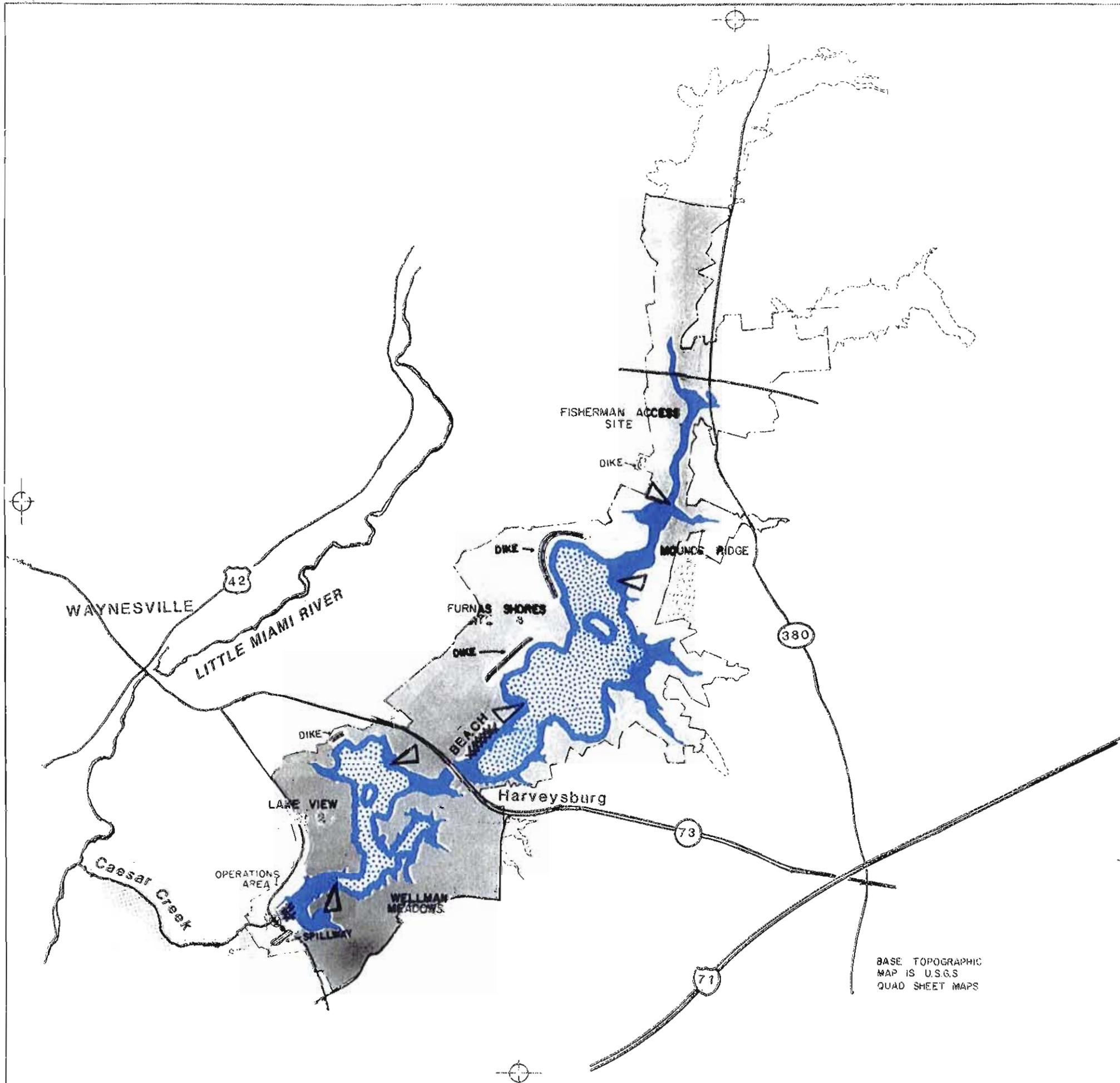


FLOOD POOL ELEV. 883
 SEASONAL POOL ELEV. 849
 PROJECT BOUNDARY and LAND RETAINED BY CORPS OF ENGINEERS
 FLOWAGE EASEMENT
 LANDS LEASED TO STATE OF OHIO
 ACQUISITION BY STATE OF OHIO
 ALLOCATION OF PROJECT LANDS (ABOVE SEASONAL POOL)
 RECREATION OPERATIONS ***
 CLASSIFICATIONS OF OPERATIONS LAND
 OPERATIONS RECREATION
 ENVIRONMENTALLY SENSITIVE AREA
 MULTIPLE RESOURCE MANAGEMENT



BASE TOPOGRAPHIC MAP IS U.S.G.S QUAD SHEET MAPS

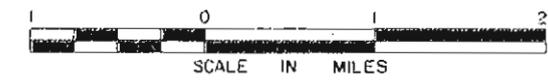
REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DISTRICT			
DESIGNED	OHIO RIVER BASIN		
DRAWN	CAESAR CREEK LAKE		
CHECKED	LITTLE MIAMI RIVER		
DATE	LAND ALLOCATION		
APPROVAL SIGNATURE	APPROVED	DATE	
APPROVED	TITLE	DISTRICT ENGINEER	
DRAWING NUMBER			



FLOOD POOL ELEV. 883
 SEASONAL POOL ELEV. 849
 PROJECT BOUNDARY and LAND RETAINED BY CORPS OF ENGINEERS
 FLOWAGE EASEMENT
 LANDS LEASED TO STATE OF OHIO
 ACQUISITION BY STATE OF OHIO

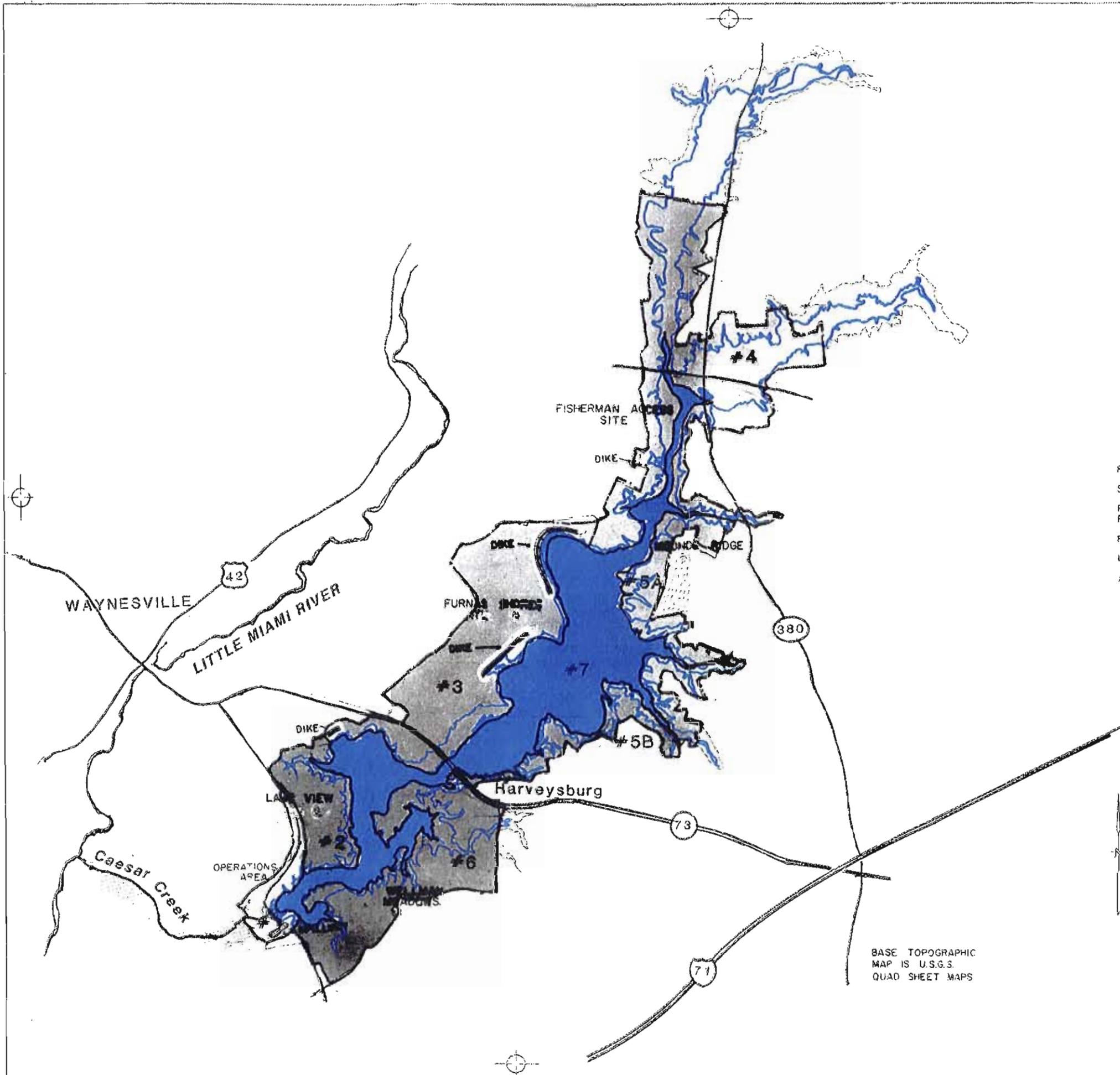


BOAT RAMP
 NO BOATING
 NO WAKE SPEED
 UNRESTRICTED



REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY			
DESIGNED:	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER WATER ZONING		
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APPROVED:		SCALE:	DRAWING NUMBER:

BASE TOPOGRAPHIC MAP IS U.S.G.S QUAD SHEET MAPS

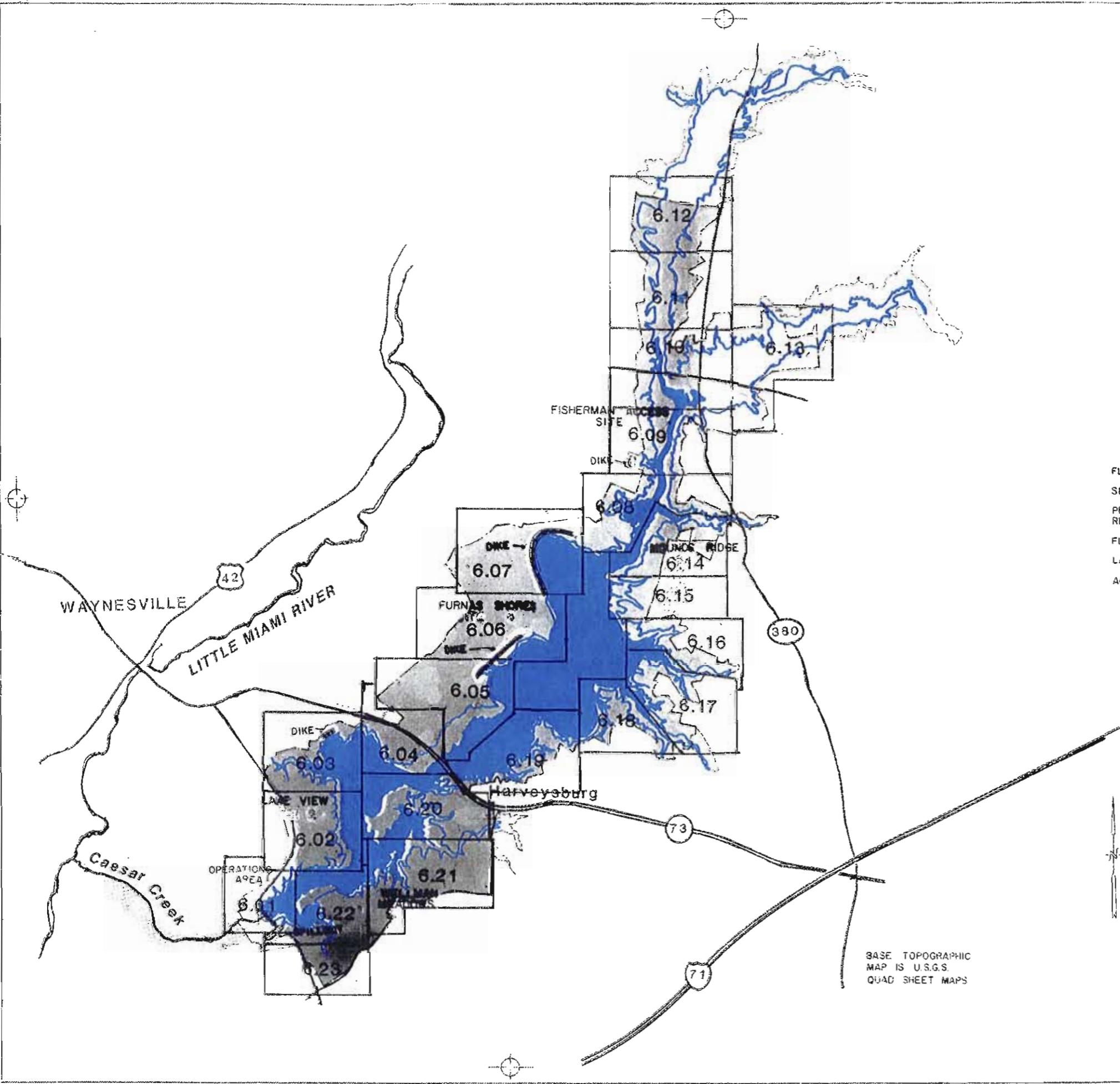


FLOOD POOL ELEV. 883
 SEASONAL POOL ELEV. 849
 PROJECT BOUNDARY and LAND RETAINED BY CORPS OF ENGINEERS
 FLOWAGE EASEMENT
 LANDS LEASED TO STATE OF OHIO
 ACQUISITION BY STATE OF OHIO



DESIGNED:		DATE:		DESCRIPTION:		BY:			
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY									
DRAWN:		TRACED:		OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER COMPARTMENTS		DATE:			
CHECKED:		SUBMITTED:				SCALE:		DRAWING NUMBER:	
APPROVAL TECH:		APPROVED:				SCALE:		DRAWING NUMBER:	
APPROVED:		SCALE:		DRAWING NUMBER:		DRAWING NUMBER:			

BASE TOPOGRAPHIC MAP IS U.S.G.S. QUAD SHEET MAPS



FLOOD POOL ELEV. 893
 SEASONAL POOL ELEV. 849
 PROJECT BOUNDARY and LAND RETAINED BY CORPS OF ENGINEERS
 FLOWAGE EASEMENT
 LANDS LEASED TO STATE OF OHIO
 ACQUISITION BY STATE OF OHIO



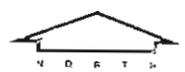
DESIGNED	U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
DRAWN	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
CHECKED	INDEX MAP	
SUBMITTED	APPROVED	DATE
APPROVAL SIGNATURE	APPROVED	DATE
APPROVED	SCALE	DRAWING NUMBER

BASE TOPOGRAPHIC MAP IS U.S.G.S. QUAD SHEET MAPS

LEGEND

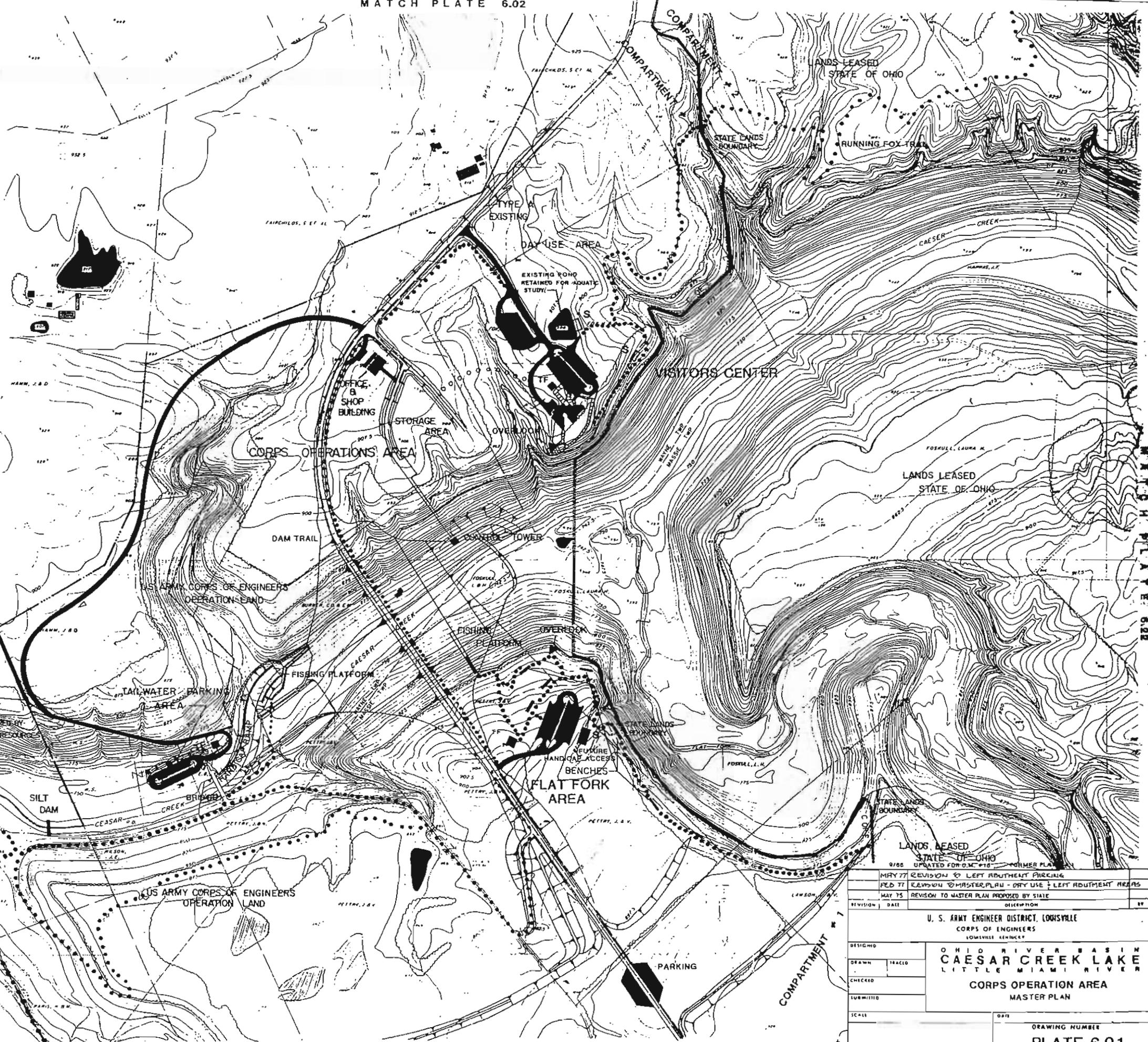
- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 25 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- | EXISTING | FUTURE |
|----------------------------|--------|
| ROADS AND PARKING | |
| ENTRANCE CONTROL STATION | |
| SANITARY DUMP STATION | |
| FOOT TRAILS | |
| ERODING TRAILS | |
| TREE PLANTING | |
| TOILETS - VAULT PRE-FAB | |
| TOILETS - VAULT | |
| TOILETS - FLUSH | |
| CAMP WASH BUILDING | |
| CHANGE HOUSE BEACH | |
| PICNIC SHELTER | |
| PICNIC SHELTER WITH TOILET | |
| WATER TREATMENT | |
| SEWAGE DISPOSAL | |
| SEWAGE UFT STATION | |
| OVERLOOK | |
| BOAT LOADING DOCK | |

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1986 USING STEREOPHOTOGRAMMETRIC SAUSA & LOWE 780 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1983. HORIZONTAL AND VERTICAL CONTROL BY USCAGS, USOS, USCE AND AMERICAN AIR SURVEYS, INC.



ROAD SURFACE KEY

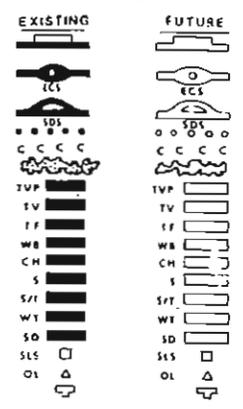
TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	16' / 26'	TWO WAY
TYPE C	PRIME & SEAL	16' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY



DESIGNED		DRAWN		CHECKED		SUBMITTED		SCALE		DATE	
DRAWN		CHECKED		SUBMITTED		SCALE		DATE		DRAWING NUMBER	
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE OFFICE											
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER CORPS OPERATION AREA MASTER PLAN											
										PLATE 6.01	

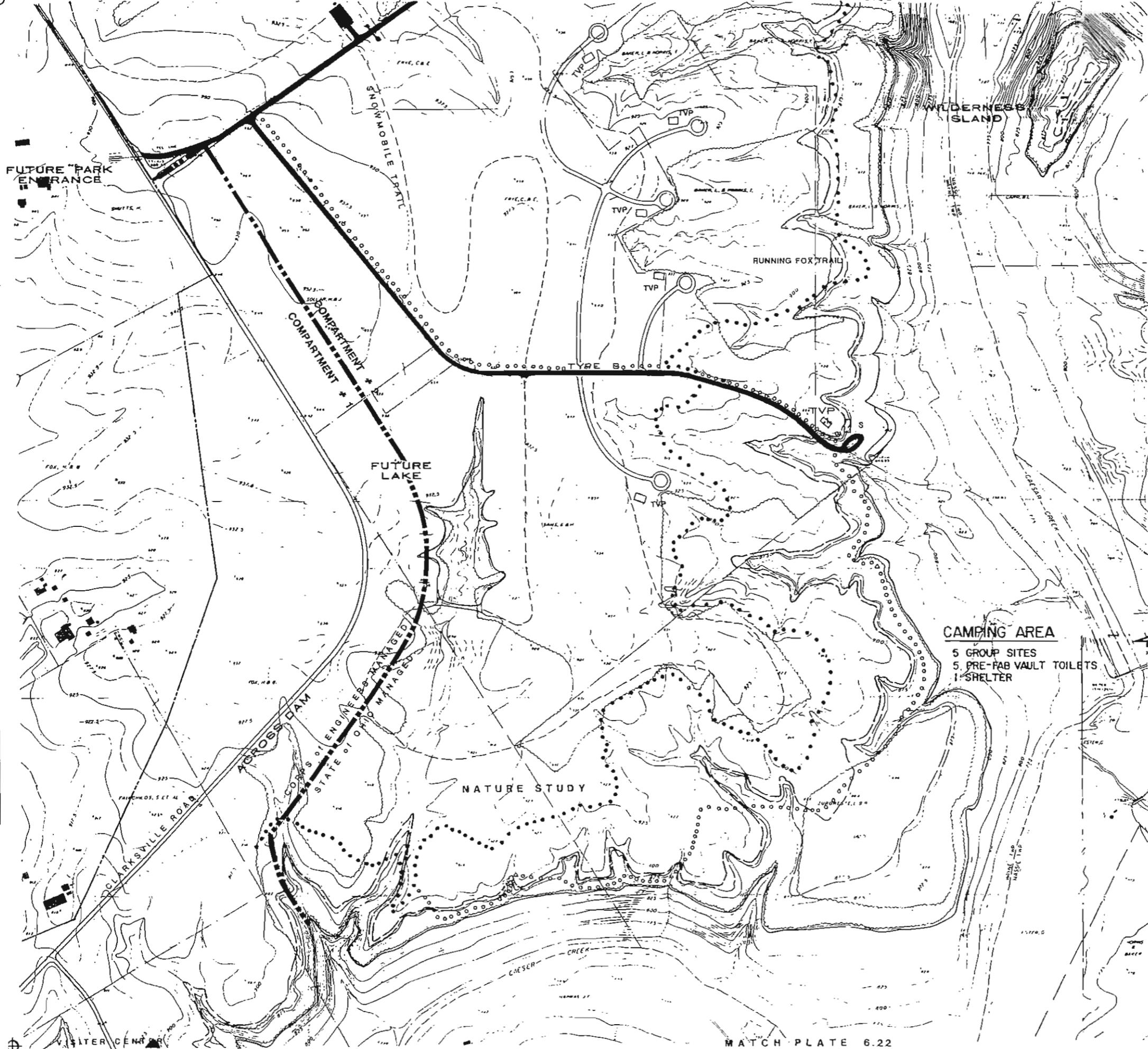
LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 1" YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
-
- PUBLIC USE AREA DEVELOPMENT**
 - ROADS AND PARKING
 - FINANCE CONTROL STATION
 - SANITARY DUMP STATION
 - FOOT TRAILS
 - BIKING TRAILS
 - TREE PLANTING
 - TOILETS - VAULT PRE-FAB
 - TOILETS VAULT
 - TOILETS FLUSH
 - CAMP WASH BUILDING
 - HOUSE BEACH
 - PICNIC SHELTER
 - PICNIC SHELTER WITH TABLE
 - WATER TREATMENT
 - SEWAGE DISPOSAL
 - SEWAGE LIFT STATION
 - OVERLOOK
 - BOAT LOADING DOCK



ROAD SURFACE KEY

TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	16' / 26'	TWO WAY
TYPE C	PRIME & SEAL	16' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY



CAMPING AREA
 5 GROUP SITES
 5 PRE-FAB VAULT TOILETS
 1 SHELTER

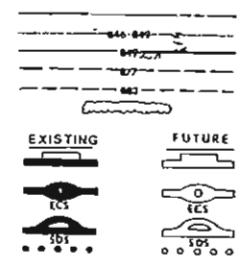


PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY. BY: MR. SURVEYS, PITTSBURGH PA. PHOTOGRAPHY BY: PHOTOGRAPHY DIVISION, U.S. ARMY ENGINEER DISTRICT, LOUISVILLE, KY. PHOTOGRAPHY BY: PHOTOGRAPHY DIVISION, U.S. ARMY ENGINEER DISTRICT, LOUISVILLE, KY.

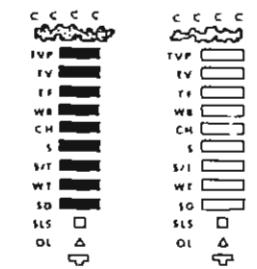
9/88 UPDATED FOR D.M. #15 FORMER PLATE 6.15	
MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION	DATE
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
DESIGNED	OHIO RIVER BASIN
DRAWN	CAESAR CREEK LAKE
CHECKED	LITTLE MIAMI RIVER
SUBMITTED	LAKE VIEW SITE
SCALE	MASTER PLAN
DATE	DRAWING NUMBER
	PLATE 6.02

LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 25 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS



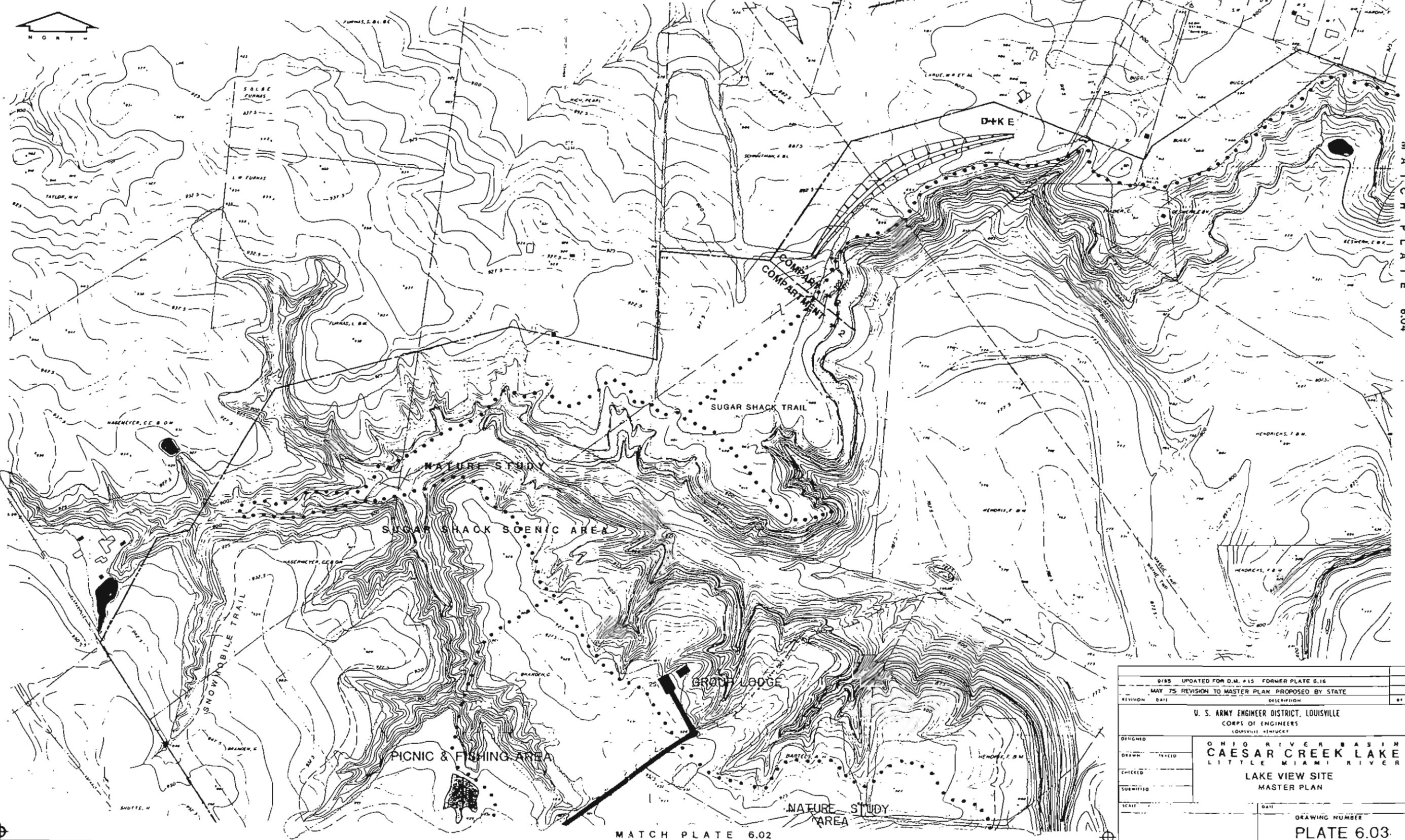
- BIDDING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- DVERLOOK
- BOAT LOADING DOCK



ROAD SURFACE KEY

TYPE A	BITUMMOUS	20' / 24'	TWO WAY
TYPE B	BITUMMOUS	18' / 24'	TWO WAY
TYPE C	PRIME & SEAL	18' / 24'	TWO WAY
TYPE D	PRIME & SEAL	17' / 16'	ONE WAY

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 750 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY JSC&S, USGS, USCE AND AMERICAN AIR SURVEYS, INC.



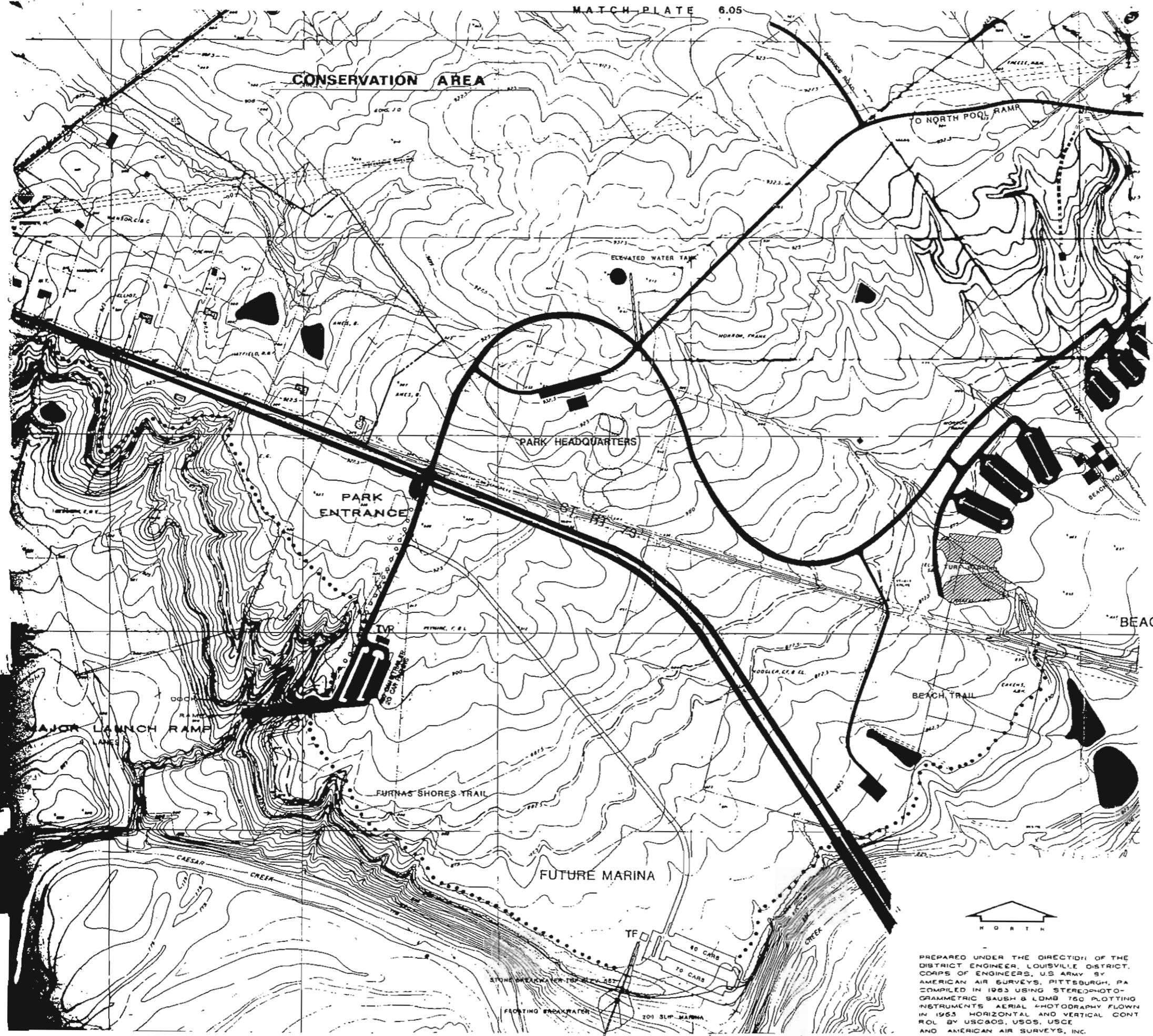
MATCH PLATE 604

MATCH PLATE 6.02

9/85 UPDATED FOR D.M. #15 FORMER PLATE 6.16		
MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE		
REVISION	DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DISTRICT		
DESIGNED	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
DRAWN	LAKE VIEW SITE MASTER PLAN	
CHECKED		
SUBMITTED		
SCALE	DATE	
DRAWING NUMBER		PLATE 6.03

LEGEND

PROJECT BOUNDARY		
WATER QUALITY POOL		646-647
SEASONAL POOL		648
25 YEAR FLOOD		677
FLOOD POOL		683
EXISTING TREE COVER		
PUBLIC USE AREA DEVELOPMENT		
ROADS AND PARKING		
ENTRANCE CONTROL STATION		
SANITARY DUMP STATION		
FOOT TRAILS		
BIKING TRAILS		
TREE PLANTING		
TOILETS - VAULT PRE-FAB		
TOILETS - VAULT		
TOILETS - FLUSH		
CAMP WASH BUILDING		
CHANGE HOUSE BEACH		
PICNIC SHELTER		
PICNIC SHELTER WITH TOILET		
WATER TREATMENT		
SEWAGE DISPOSAL		
SEWAGE LIFT STATION		
OVERLOOK		
BOAT LOADING DOCK		



ROAD SURFACE KEY

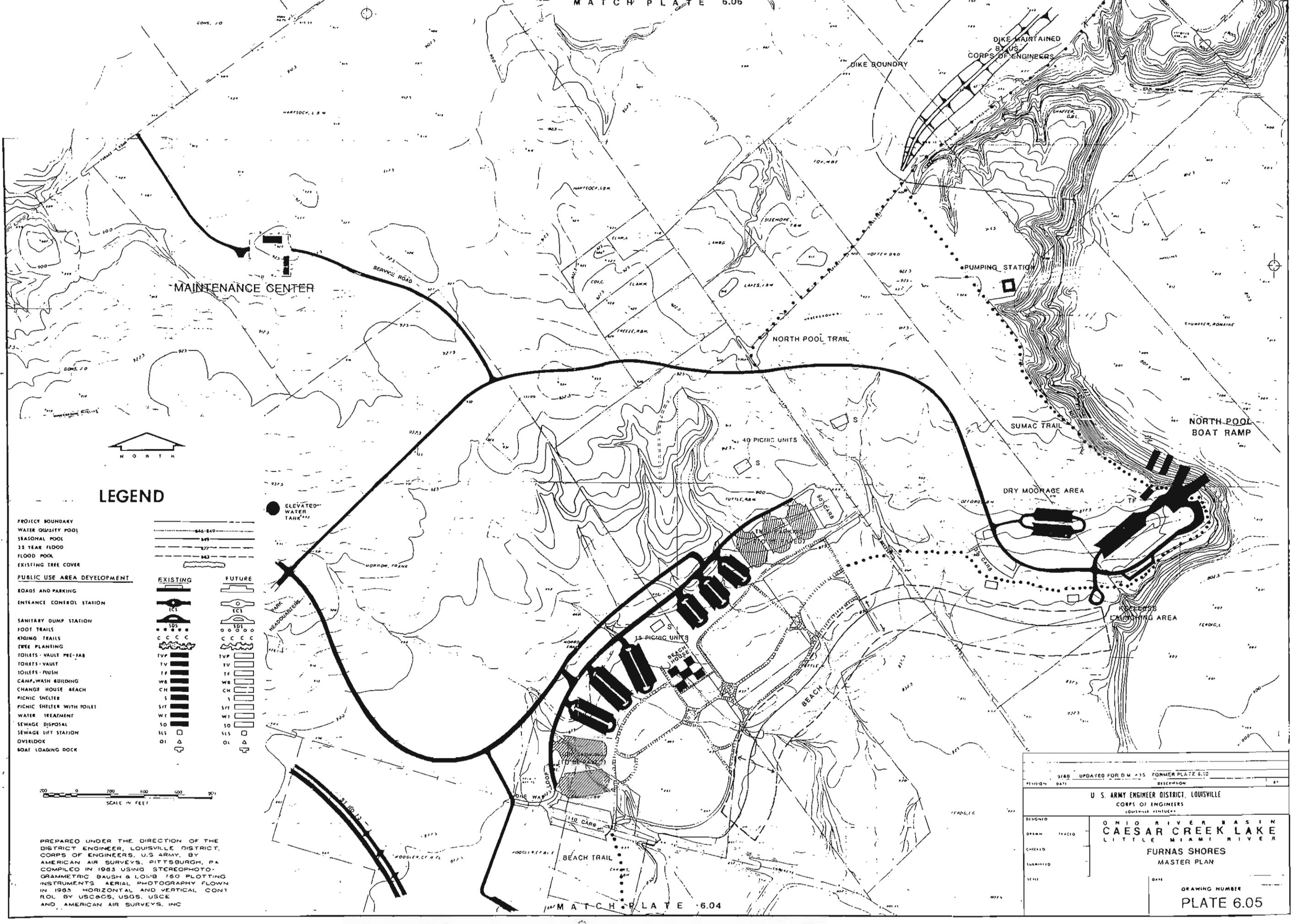
TYPE A	BITUMINOUS	26' / 26'	TWO WAY
TYPE B	BITUMINOUS	18' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 18'	ONE WAY

9/88 UPDATED FOR D.W. #15 FORMER PLATE 6.11

REVISION	DATE	DESCRIPTION	BY
SEPT 77		REVISION ACCORDANCE WITH SUPPLEMENT NO. 3	
MAY 75		REVISION TO MASTER PLAN PROPOSED BY STATE	
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY			
DIVISION DRAWN CHECKED SUBMITTED		OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER FURNAS SHORES MASTER PLAN	
SCALE	DATE	DRAWING NUMBER	
		PLATE 6.04	



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC SAUSH & LOMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963 HORIZONTAL AND VERTICAL CONTROL BY USCAOS, USOS, USCE AND AMERICAN AIR SURVEYS, INC.



MAINTENANCE CENTER

DIKE MAINTAINED BY US CORPS OF ENGINEERS

DIKE BOUNDARY

PUMPING STATION

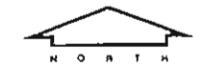
NORTH POOL TRAIL

SUMAC TRAIL

NORTH POOL BOAT RAMP

DRY MOORAGE AREA

CAMPING AREA



LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 25 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING**
- ENTRANCE CONTROL STATION**
- SANITARY DUMP STATION**
- FOOT TRAILS**
- RIDING TRAILS**
- TREE PLANTING**
- TOILETS - VAULT PRE-FAB**
- TOILETS - VAULT**
- TOILETS - FLUSH**
- CAMP WASH BUILDING**
- CHANGE HOUSE BEACH**
- PICNIC SHELTER**
- PICNIC SHELTER WITH TOILET**
- WATER TREATMENT**
- SEWAGE DISPOSAL**
- SEWAGE LIFT STATION**
- OVERLOOK**
- BOAT LOADING DOCK**

ELEVATED WATER TANK

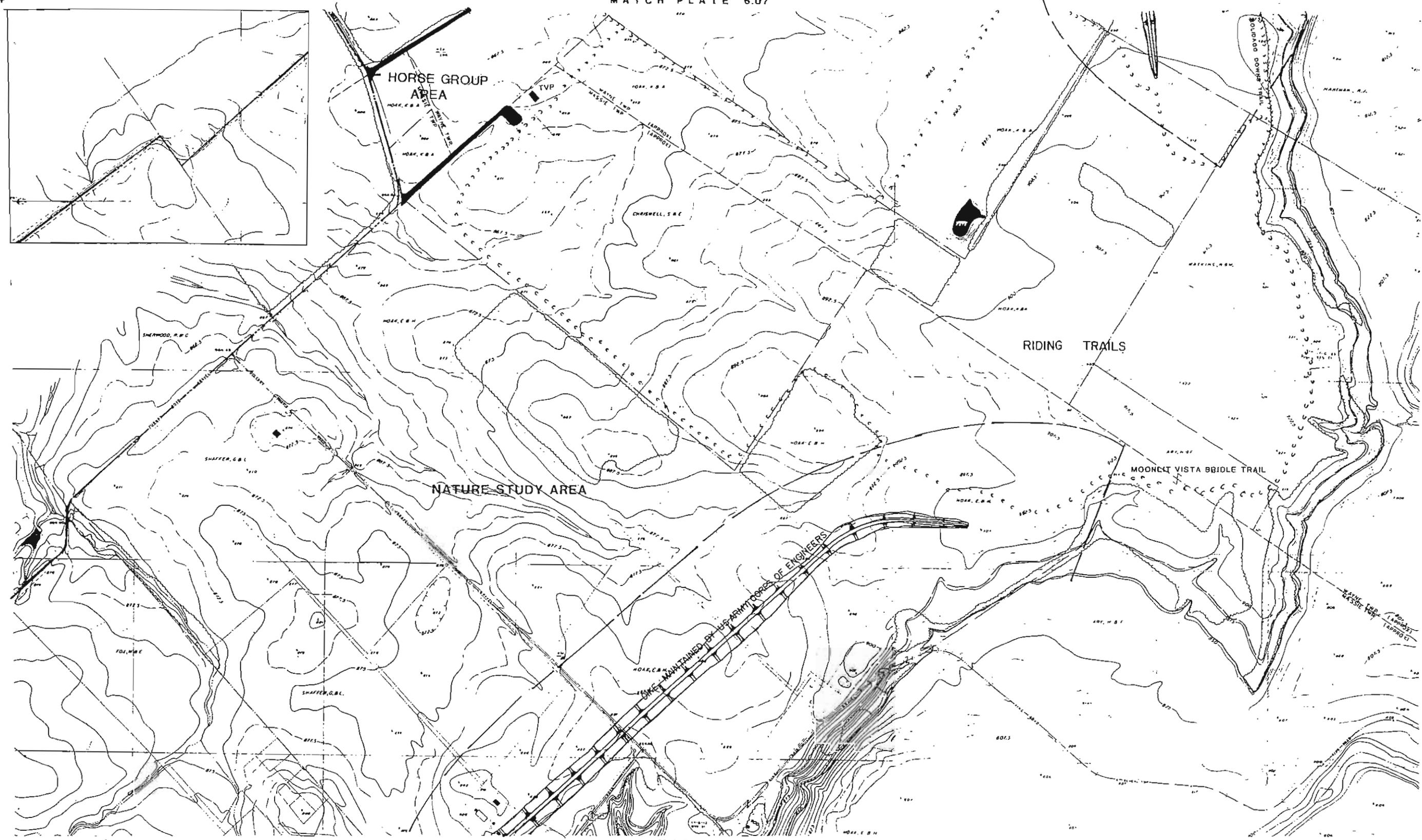


PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1983 USING STEREOPHOTOGRAMMETRIC BAUSH & LOHMEYER 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1983 HORIZONTAL AND VERTICAL CONTROL BY USCAOS, USGS, USCE AND AMERICAN AIR SURVEYS, INC

3/88 UPDATED FOR DM 35 FORMER PLATE 6.02	
REVISION DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DISTRICT	
DESIGNED	ONIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER
DRAWN	FURNAS SHORES MASTER PLAN
CHECKED	
QUANTITY	
SCALE	
DATE	DRAWING NUMBER
	PLATE 6.05

MATCH PLATE 6.07

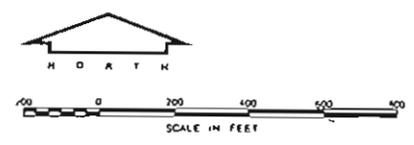
MATCH PLATE 6.05



LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 25 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMPY STATION

- FOOT TRAILS
- RIDING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH POCKET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK

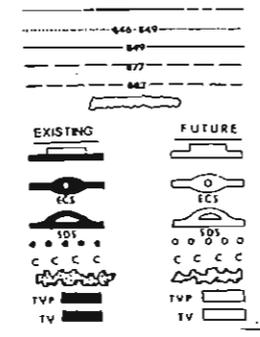


PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USCGS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

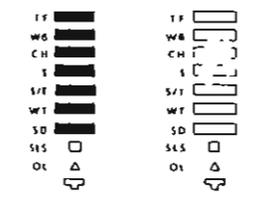
8/78 UPDATED FOR D.H. #15 FORMER PLATE 6.19	
MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION DATE	DESCRIPTION
DEC 73	OMISSION OF CAMPING AREA
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
DRAWN	TRACED
CHECKED	
SUBMITTED	
SCALE	DATE
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
FURNAS SHORES MASTER PLAN	
DRAWING NUMBER PLATE 6.06	

LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 75 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS
- RIDING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT

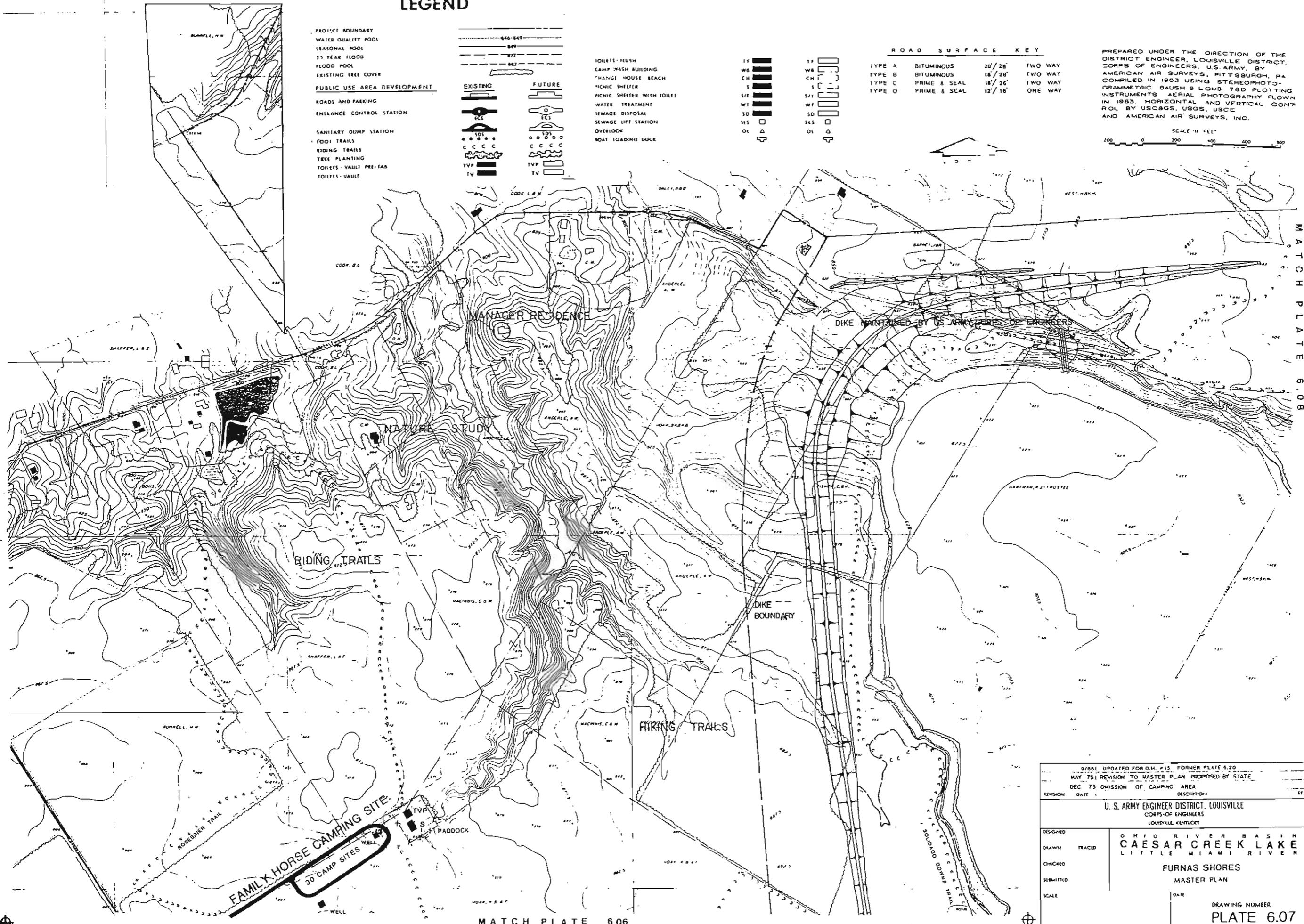
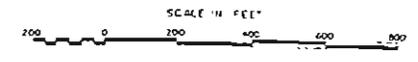


- TOILETS - FLUSH
- CAMP WASH BUILDING
- TRANGI HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK



ROAD SURFACE KEY			
TYPE A	BITUMINOUS	20' / 16'	TWO WAY
TYPE B	BITUMINOUS SEAL	18' / 18'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE O	PRIME & SEAL	12' / 16'	ONE WAY

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1903 USING STEREOPHOTOGRAMMETRIC GAUCH & LOWE 780 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1983. HORIZONTAL AND VERTICAL CONTROL BY USCGS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.



MATCH PLATE 6.08

MATCH PLATE 6.06

9/80, UPDATED FOR D.M. #15, FORMER PLATE 6.20		MAY 75, REVISION TO MASTER PLAN PROPOSED BY STATE	
DEC 73, OMISSION OF CAMPING AREA		DESCRIPTION	
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY			
DESIGNED	TRACED	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
CHECKED		FURNAS SHORES MASTER PLAN	
SUBMITTED		SCALE	DATE
			DRAWING NUMBER PLATE 6.07

LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 15 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING
 - ENTRANCE CONTROL STATION
 - SANITARY DUMP STATION
 - FOOT TRAILS
 - ERGING TRAILS
 - TREE PLANTING
 - TOILETS - VAULT PRE-FAB
 - TOILETS - VAULT
 - TOILETS - FLUSH
 - CAMP WASH BUILDING
 - CHANGE HOUSE BLEACH
 - PICNIC SHELTER
 - PICNIC SHELTER WITH TABLE
 - WATER TREATMENT
 - SEWAGE DISPOSAL
 - SEWAGE LIFT STATION
 - OVERLOOK
 - BOAT LOADING DOCK
- EXISTING** **FUTURE**
- ECS
 - SDS
 - TV
 - WB
 - CH
 - S
 - WT
 - SD
 - SLS
 - OL

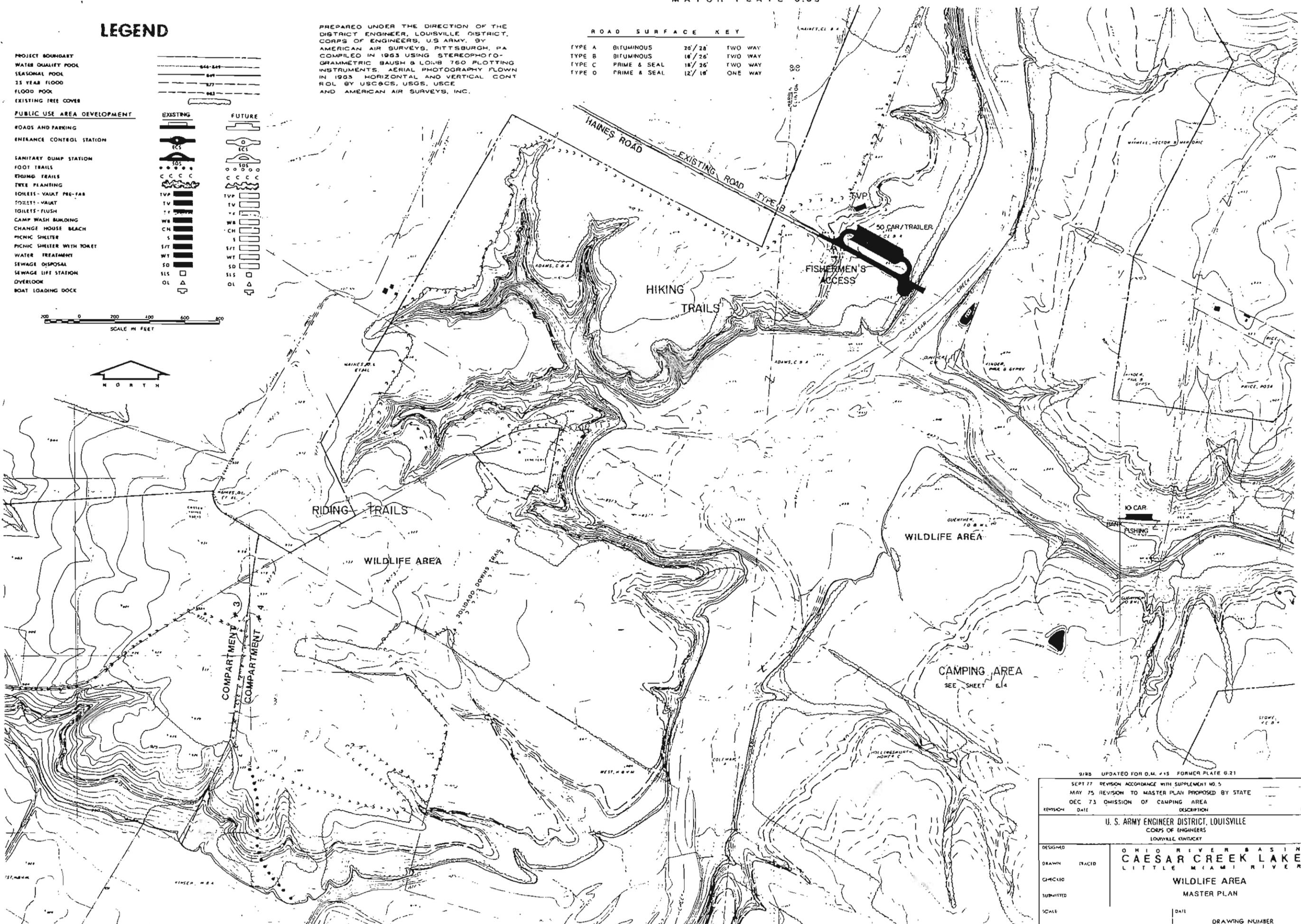
PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS, AERIAL PHOTOGRAPHY FLOWN IN 1963 HORIZONTAL AND VERTICAL CONTROL BY USCGCS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

ROAD SURFACE KEY

TYPE A	BITUMINOUS	26' / 26'	TWO WAY
TYPE B	BITUMINOUS	16' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY



MATCH PLATE 6.07

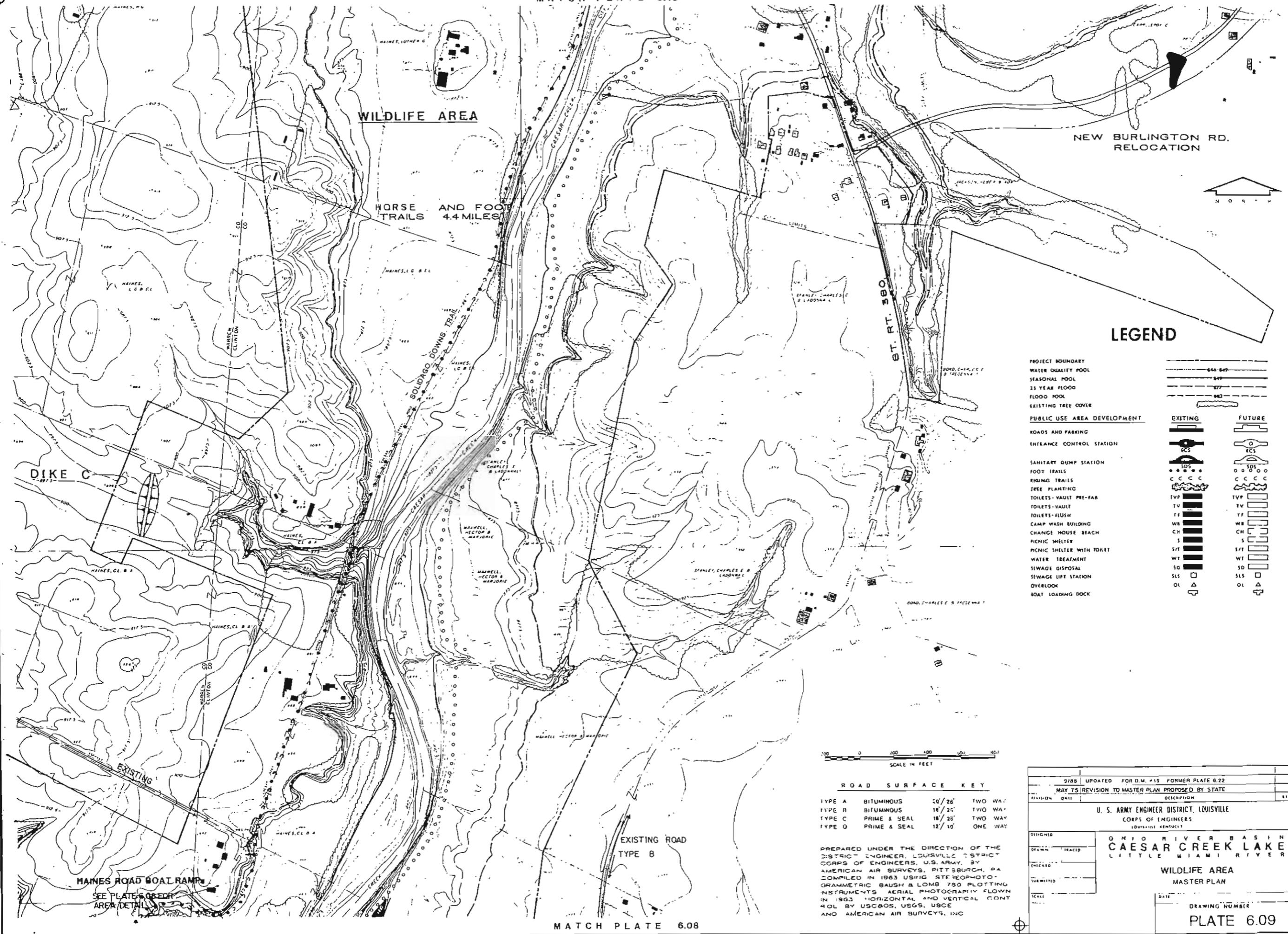


3/80 UPDATED FOR O.M. #15 FORMER PLATE 6.21

DESIGNED	TRACED	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER
DRAWN	CHECKED	WILDLIFE AREA MASTER PLAN
SUBMITTED	SCALE	DATE
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY		DRAWING NUMBER PLATE 6.08

REVISION HISTORY:

REVISION	DATE	DESCRIPTION	BY
SEPT 77		REVISION ACCORDANCE WITH SUPPLEMENT NO. 5	
MAY 75		REVISION TO MASTER PLAN PROPOSED BY STATE	
DEC 73		OMISSION OF CAMPING AREA	



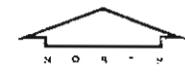
WILDLIFE AREA

HORSE AND FOOT TRAILS 4.4 MILES

NEW BURLINGTON RD. RELOCATION

LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 25 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- | | EXISTING | FUTURE |
|----------------------------|----------|----------|
| ROADS AND PARKING | [Symbol] | [Symbol] |
| ENTRANCE CONTROL STATION | [Symbol] | [Symbol] |
| SANITARY GUMP STATION | [Symbol] | [Symbol] |
| FOOT TRAILS | [Symbol] | [Symbol] |
| RIDING TRAILS | [Symbol] | [Symbol] |
| TREE PLANTING | [Symbol] | [Symbol] |
| TOILETS - VAULT PRE-FAB | [Symbol] | [Symbol] |
| TOILETS - VAULT | [Symbol] | [Symbol] |
| TOILETS - FLUSH | [Symbol] | [Symbol] |
| CAMP WASH BUILDING | [Symbol] | [Symbol] |
| CHANGE HOUSE BEACH | [Symbol] | [Symbol] |
| PICNIC SHELTER | [Symbol] | [Symbol] |
| PICNIC SHELTER WITH TOILET | [Symbol] | [Symbol] |
| WATER TREATMENT | [Symbol] | [Symbol] |
| SEWAGE DISPOSAL | [Symbol] | [Symbol] |
| SEWAGE LIFT STATION | [Symbol] | [Symbol] |
| OVERLOOK | [Symbol] | [Symbol] |
| BOAT LOADING DOCK | [Symbol] | [Symbol] |



ROAD SURFACE KEY

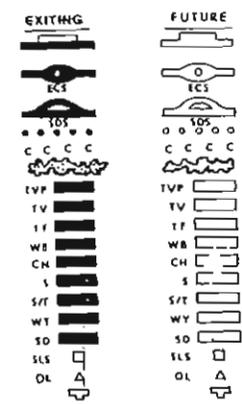
TYPE A	BITUMINOUS	20' / 28'	TWO WAY
TYPE B	BITUMINOUS	18' / 25'	TWO WAY
TYPE C	PRIME & SEAL	18' / 25'	TWO WAY
TYPE D	PRIME & SEAL	12' / 10'	ONE WAY

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 750 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963 HORIZONTAL AND VERTICAL CONTROL BY USCAOS, USGS, USCE AND AMERICAN AIR SURVEYS, INC

3788	UPDATED FOR D.M. #15 FORMER PLATE 6.22
MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION	DATE
DESIGNER	
DRAWN	
CHECKED	
SUBMITTED	
SCALE	
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
WILDLIFE AREA MASTER PLAN	
DATE	
DRAWING NUMBER	
PLATE 6.09	

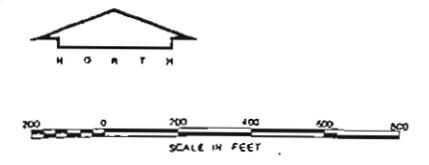
LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL FLOOD
- 15 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS
- TRAIL PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CAMP HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILEY
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- DYERLOOK
- BOAT LOADING DOCK

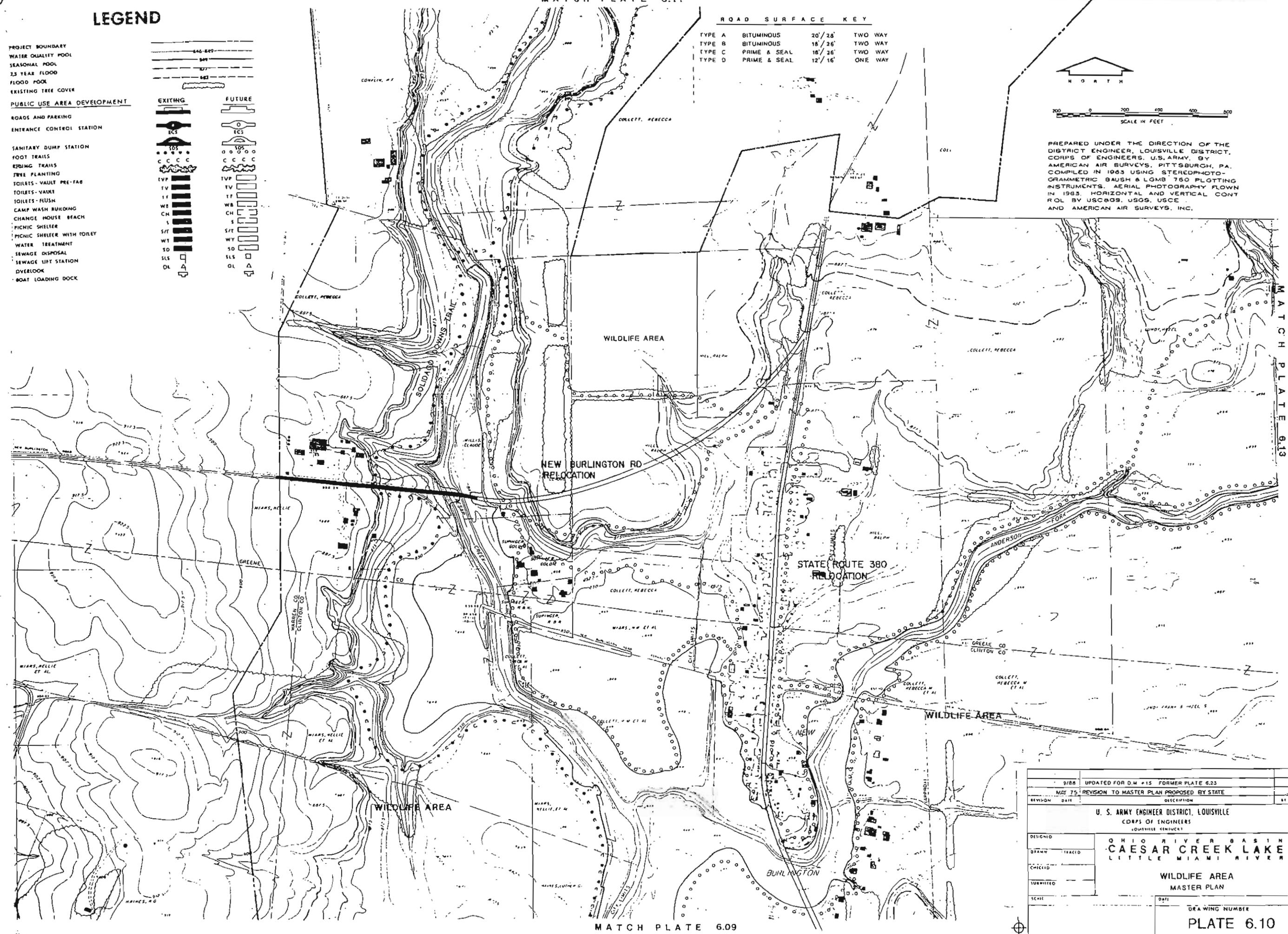


ROAD SURFACE KEY

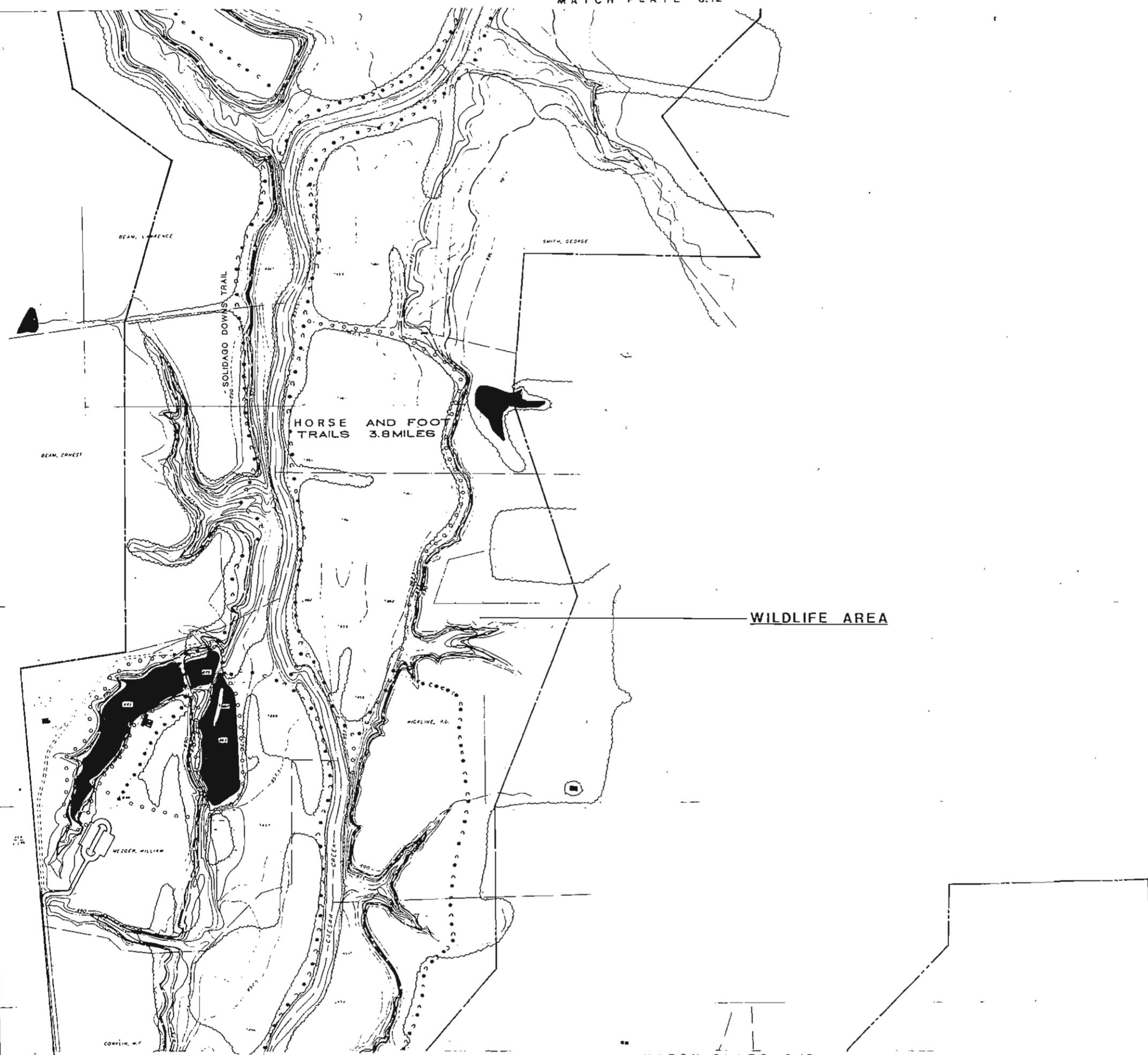
TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	18' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 750 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1953. HORIZONTAL AND VERTICAL CONTROL BY USC809 USGS, USCE AND AMERICAN AIR SURVEYS, INC.

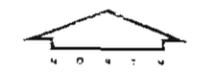


DESIGNED	9/88	UPDATED FOR D.M. #15 FORMER PLATE 6.23
DRAWN	MAY 75	REVISION TO MASTER PLAN PROPOSED BY STATE
CHECKED		
SUBMITTED		
SCALE		
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY		
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER		
WILDLIFE AREA MASTER PLAN		
DATE	DRAWING NUMBER	
	PLATE 6.10	



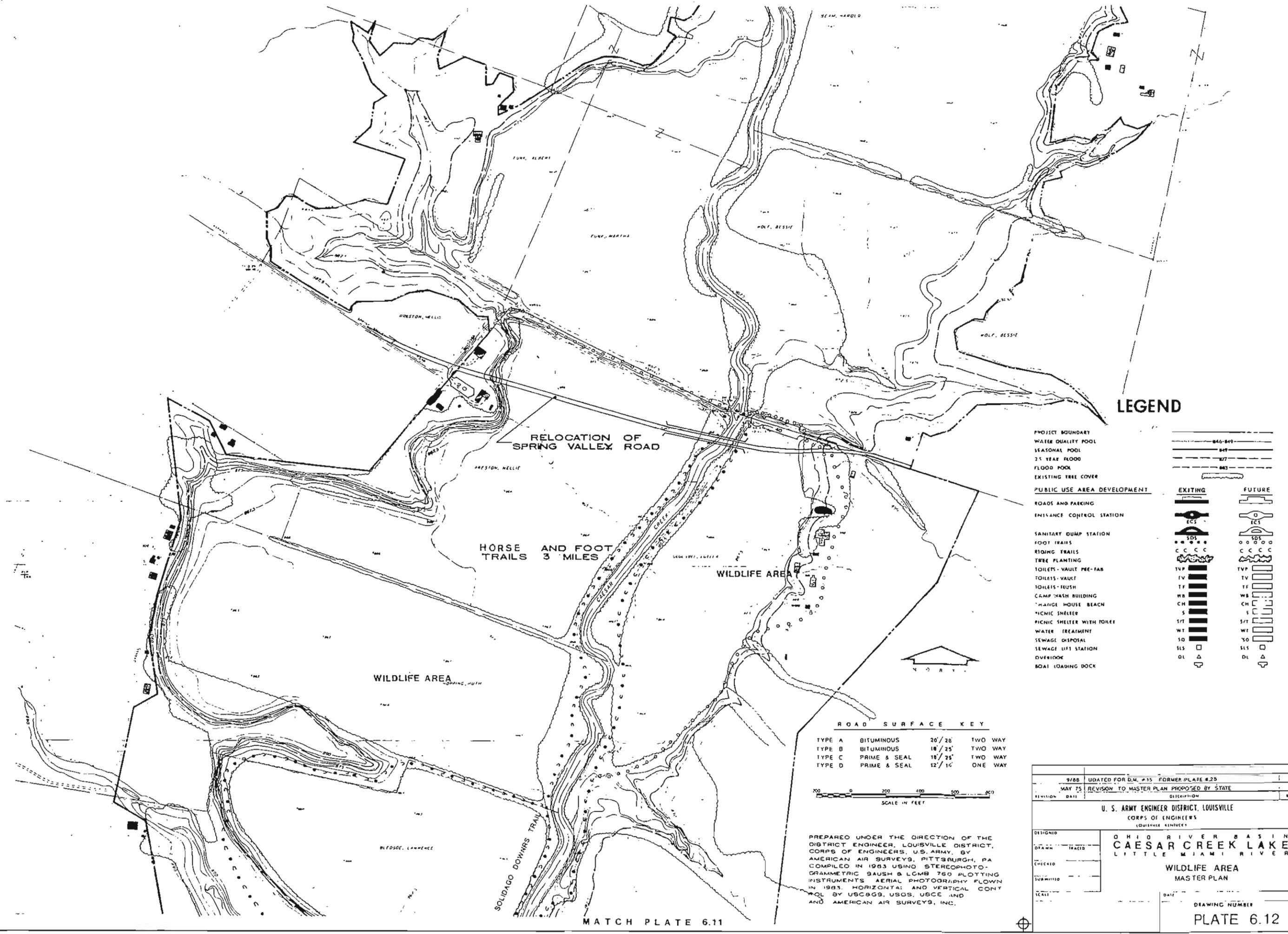
LEGEND

PROJECT BOUNDARY		846-849
WATER QUALITY POOL		849
SEASONAL POOL		877
24 YEAR FLOOD		883
FLOOD POOL		
EXISTING TREE COVER		
PUBLIC USE AREA DEVELOPMENT		
EXISTING		
ROADS AND PARKING		
ENTRANCE CONTROL STATION		
SANITARY DUMP STATION		
FOOT TRAILS		
RIDING TRAILS		
TREE PLANTING		
TOILETS - VAULT PEE-FAB		
TOILETS - VAULT		
TOILETS - FLUSH		
CAMP WASH BUILDING		
CHANGE HOUSE BEACH		
PICNIC SHELTER		
PICNIC SHELTER WITH POCKET		
WATER TREATMENT		
SEWAGE DISPOSAL		
SEWAGE LIFT STATION		
OVERLOOK		
BOAT LOADING DOCK		
FUTURE		
ROADS AND PARKING		
ENTRANCE CONTROL STATION		
SANITARY DUMP STATION		
FOOT TRAILS		
RIDING TRAILS		
TREE PLANTING		
TOILETS - VAULT PEE-FAB		
TOILETS - VAULT		
TOILETS - FLUSH		
CAMP WASH BUILDING		
CHANGE HOUSE BEACH		
PICNIC SHELTER		
PICNIC SHELTER WITH POCKET		
WATER TREATMENT		
SEWAGE DISPOSAL		
SEWAGE LIFT STATION		
OVERLOOK		
BOAT LOADING DOCK		



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB T-63 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963 HORIZONTAL AND VERTICAL CONTROL BY USC&GS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

DESIGNED	DATE	3/68	UPDATED FOR D.W. # 15 FORMER PLATE 6.24
DRAWN	DATE	MAY 75	REVISION TO MASTER PLAN PROPOSED BY STATE
CHECKED	DATE		
SUBMITTED	DATE		
SCALE	DATE		
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DISTRICT			
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER			
WILDLIFE AREA MASTER PLAN			
			DRAWING NUMBER PLATE 6.11



LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 25 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING
 - ENTRANCE CONTROL STATION
 - SANITARY DUMP STATION
 - FOOT TRAILS
 - RIDING TRAILS
 - TREE PLANTING
 - TOILETS - VAULT PEE-FAB
 - TOILETS - VAULT
 - TOILETS - FLUSH
 - CAMP WASH BUILDING
 - HANGAR HOUSE BEACH
 - PICNIC SHELTER
 - PICNIC SHELTER WITH TOILET
 - WATER TREATMENT
 - SEWAGE DISPOSAL
 - SEWAGE LIFT STATION
 - OVERLOOK
 - BOAT LOADING DOCK
- | EXISTING | FUTURE |
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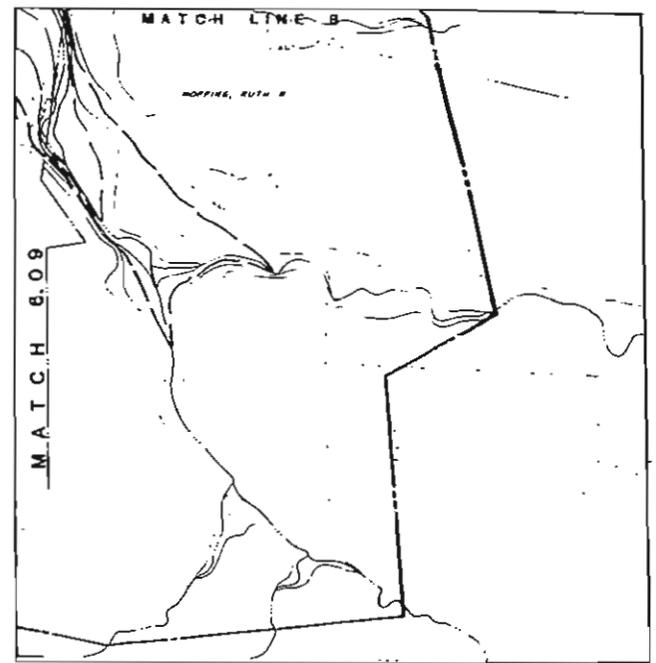
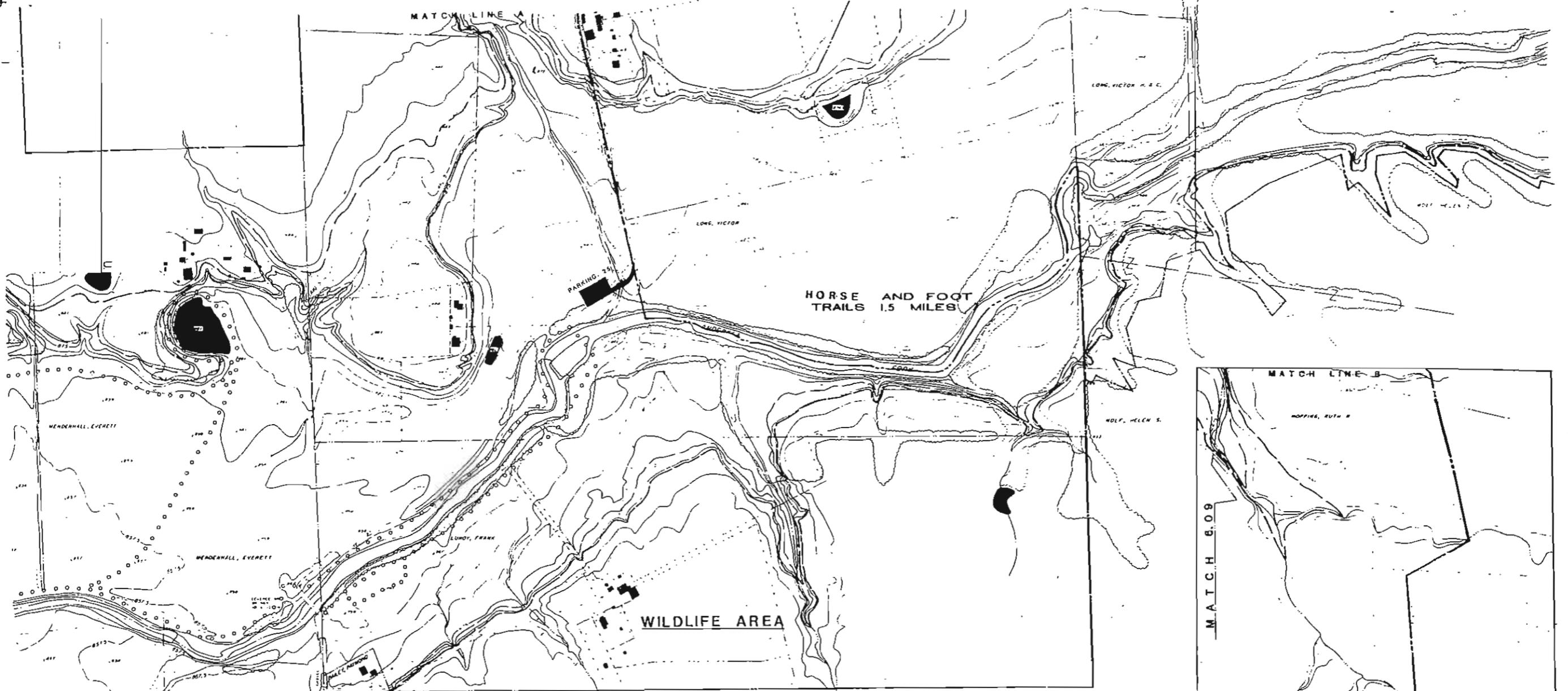
ROAD SURFACE KEY

TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	18' / 25'	TYO WAY
TYPE C	PRIME & SEAL	18' / 25'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC SAUSH & LGMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USC&GS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

9/88	UPDATED FOR D.M. #15 FORMER PLATE #28
MAY 75	REVISION TO MASTER PLAN PROPOSED BY STATE
REVISION DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
DESIGNED	OHIO RIVER BASIN
DRAWN	CAESAR CREEK LAKE
CHECKED	LITTLE MIAMI RIVER
SUBMITTED	WILDLIFE AREA
SCALE	MASTER PLAN
DATE	DRAWING NUMBER
	PLATE 6.12

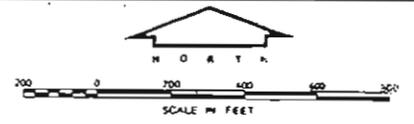


MATCH PLATE 6.10

MATCH LINE B

LEGEND

- | | | | |
|------------------------------------|-----|----------|--------|
| PROJECT BOUNDARY | --- | EXISTING | FUTURE |
| WATER QUALITY POOL | --- | ECS | ECS |
| SEASONAL POOL | --- | SDS | SDS |
| 25 YEAR FLOOD | --- | TV | TV |
| FLOOD POOL | --- | TF | TF |
| EXISTING TREE COVER | --- | WB | WB |
| PUBLIC USE AREA DEVELOPMENT | | | |
| ROADS AND PARKING | --- | CH | CH |
| ENTRANCE CONTROL STATION | --- | S | S |
| SANITARY DUMP STATION | --- | S/T | S/T |
| FOOT TRAILS | --- | WT | WT |
| RIDING TRAILS | --- | SD | SD |
| TREE PLANTING | --- | S/S | S/S |
| TOILETS - VAULT PRE-FAB | --- | OL | OL |
| TOILETS - VAULT | --- | | |
| TOILETS - FLUSH | --- | | |
| CAMP WASH BUILDING | --- | | |
| CHANGE HOUSE BEACH | --- | | |
| PICNIC SHELTER | --- | | |
| PICNIC SHELTER WITH NOILET | --- | | |
| WATER TREATMENT | --- | | |
| SEWAGE DISPOSAL | --- | | |
| SEWAGE LIFT STATION | --- | | |
| OVERLOOK | --- | | |
| BOAT LOADING DOCK | --- | | |

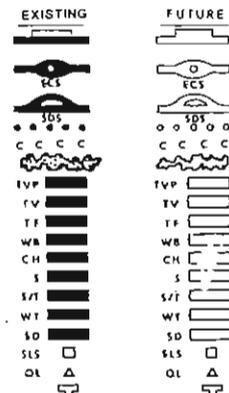


PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1963 USING STEREO-TO-GRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USC&GS, USDS, USCE AND AMERICAN AIR SURVEYS, INC.

S/88 UPDATED FOR D.M. #13 FORMER PLATE 6.10	
MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION	DATE
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
DESIGNED	OHIO RIVER BASIN
DRAWN	CAESAR CREEK LAKE
CHECKED	LITTLE MIAMI RIVER
NUMBERED	WILDLIFE AREA
SCALE	MASTER PLAN
DATE	DRAWING NUMBER
	PLATE 6.13

LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL FLOOD
- 25 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS
- TRAILING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK



EARLY DEVELOPMENT

- 5 GROUP CAMPSITES
- ENTRANCE ROAD 1500 FT
- WATER LINE
- VAULT/COMFORT STATIONS
- BEACH SANDING
- 40 CAR PARKING SPACES

GROUP PRIMITIVE CAMPING

20 SITES

PRIMITIVE CAMPING (FUTURE)

3 TOILETS - PREFAB VAULT

CAMPING AREA

102 SITES
2 WASH BUILDINGS
1 GATE HOUSE

CAMPERS BEACH INITIAL

AMPHITHEATER

WILDLIFE AREA

CONSERVATION AREA

COMPARTMENT #4

COMPARTMENT #3

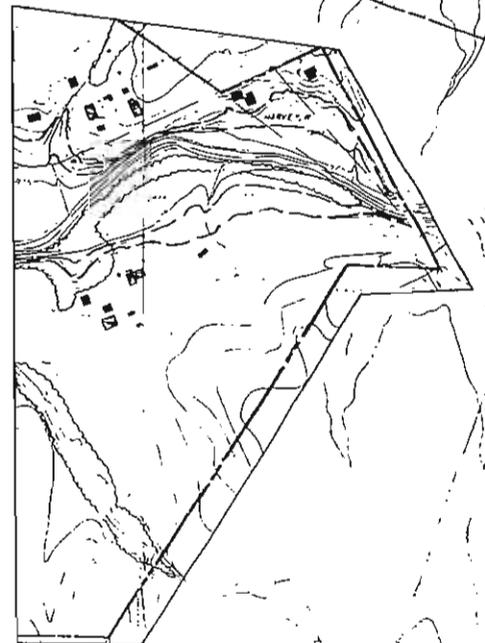
PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USC&GS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.



ROAD SURFACE KEY

TYPE A	BITUMINOUS	20' / 28'	TWO WAY
TYPE B	BITUMINOUS	16' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY

MATCH PLATE 6.15



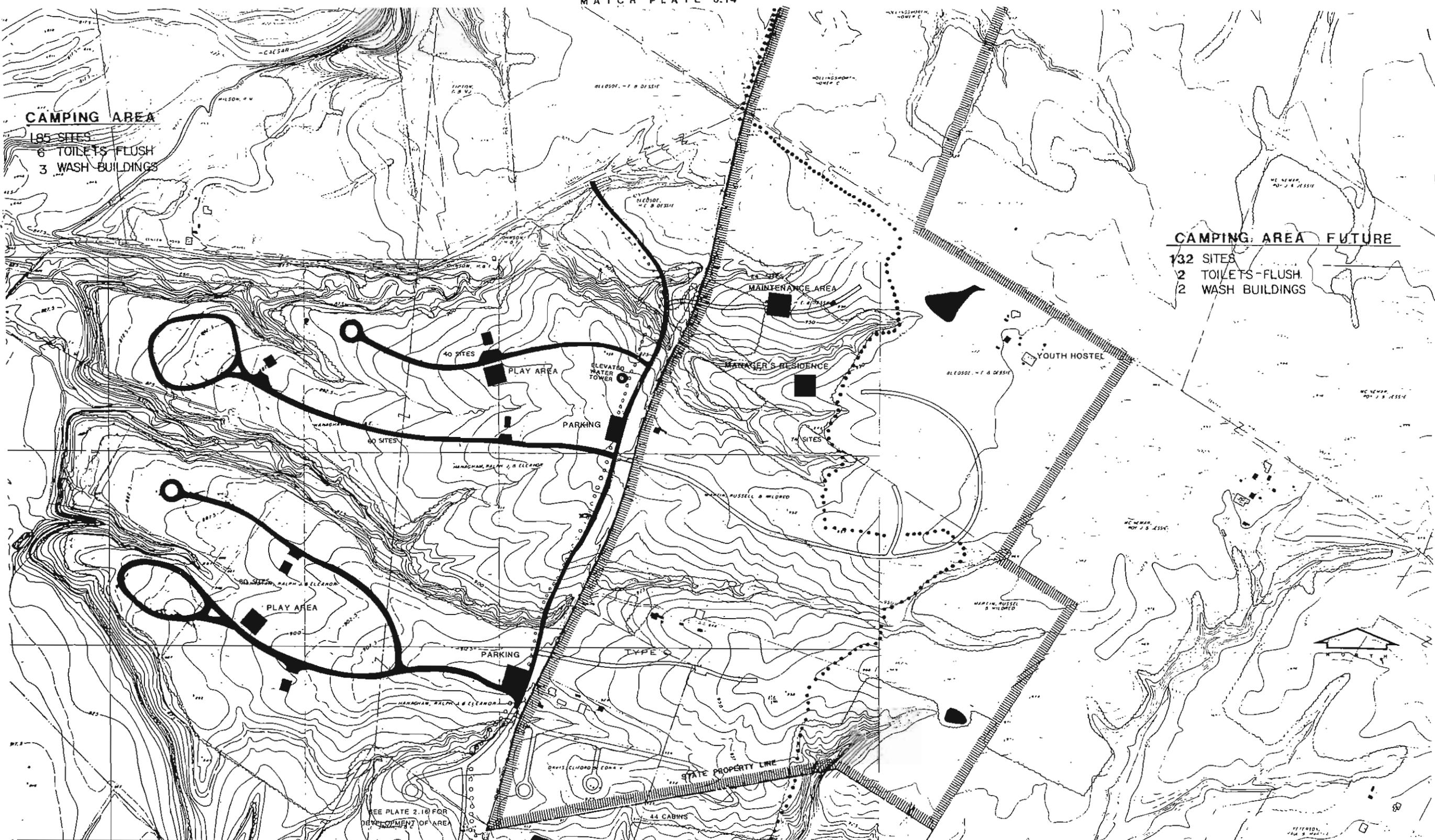
9/88	UPDATED FOR D.M. #15
MAY '75	REVISION TO MASTER PLAN PROPOSED BY STATE
DEC '71	CHANGE OF PHASE DEVELOPMENT OF CAMPING AREA
REVISION DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE REMOVED	
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
MOUNDS CAMPGROUND SITE MASTER PLAN	
DESIGNED	
DRAWN	FEAR
CHECKED	
QUANTITY	
SCALE	
DRAWING NUMBER PLATE 6.14	

CAMPING AREA

- 185 SITES
- 6 TOILETS-FLUSH
- 3 WASH BUILDINGS

CAMPING AREA FUTURE

- 132 SITES
- 2 TOILETS-FLUSH
- 2 WASH BUILDINGS



LEGEND

- SUBJECT BOUNDARY
- HIGH QUALITY POOL
- SEASONAL POOL
- YEAR-ROUND POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROAD AND PARKING
- FINANCE CONTROL STATION
- SEWER

- TRAILING TRAILS
- TREE PLANTING
- TOILETS-VAULT PRE-FAB
- TOILETS-VAULT
- TOILETS-FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK

- CCCC
- TVP
- TV
- TF
- WB
- CH
- S
- S/P
- WT
- SD
- SLS
- OL

MATCH PLATE 6.16

ROAD SURFACE KEY

TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	18' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE O	PRIME & SEAL	12' / 16'	ONE WAY



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, US ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1983 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1983 - HORIZONTAL AND VERTICAL CONT ROL BY USCBO, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

9/88	UPDATED FOR FOR D.M. #15 FORMER PLATE 6.13
MAY 75	REVISION TO MASTER PLAN PROPOSED BY STATE
DEC 73	CHANGE OF PHASE DEVELOPMENT OF CAMPING AREA
DESIGNED BY	U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DISTRICT
DRAWN BY	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER
CHECKED BY	MOUNDS CAMPGROUND SITE MASTER PLAN
DATE	DRAWING NUMBER
	PLATE 6.15

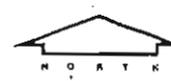
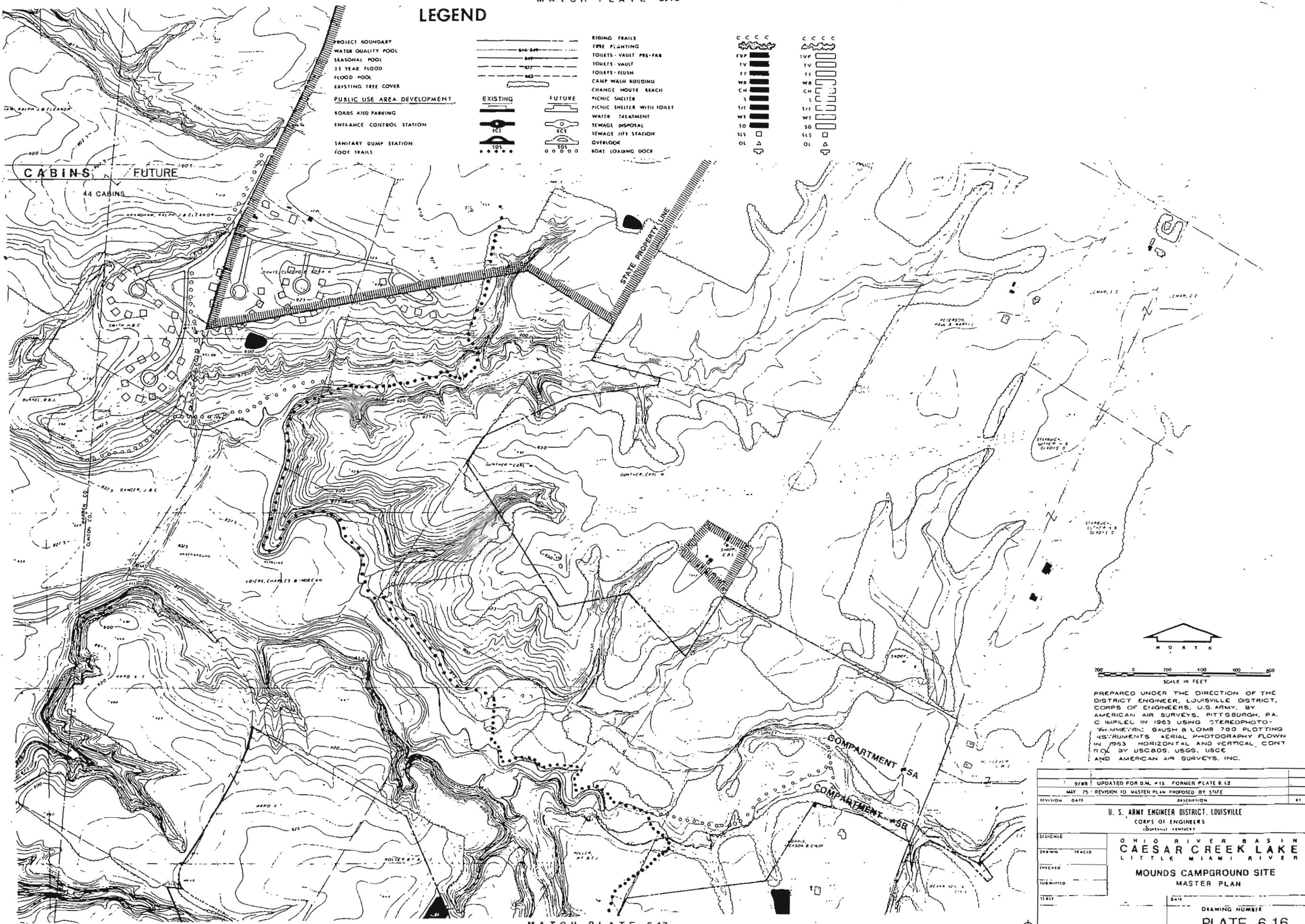
LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 25 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS

- RIDING TRAILS
- FIRE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE REACH
- PICNIC SHELTER
- PICNIC SHELTER WITH FORET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE INTAKE STATION
- OVERLOOK
- BOAT LOADING DOCK

- C C C C
- FVP
- TV
- TF
- WB
- CH
- S
- WT
- SO
- SLS
- OL

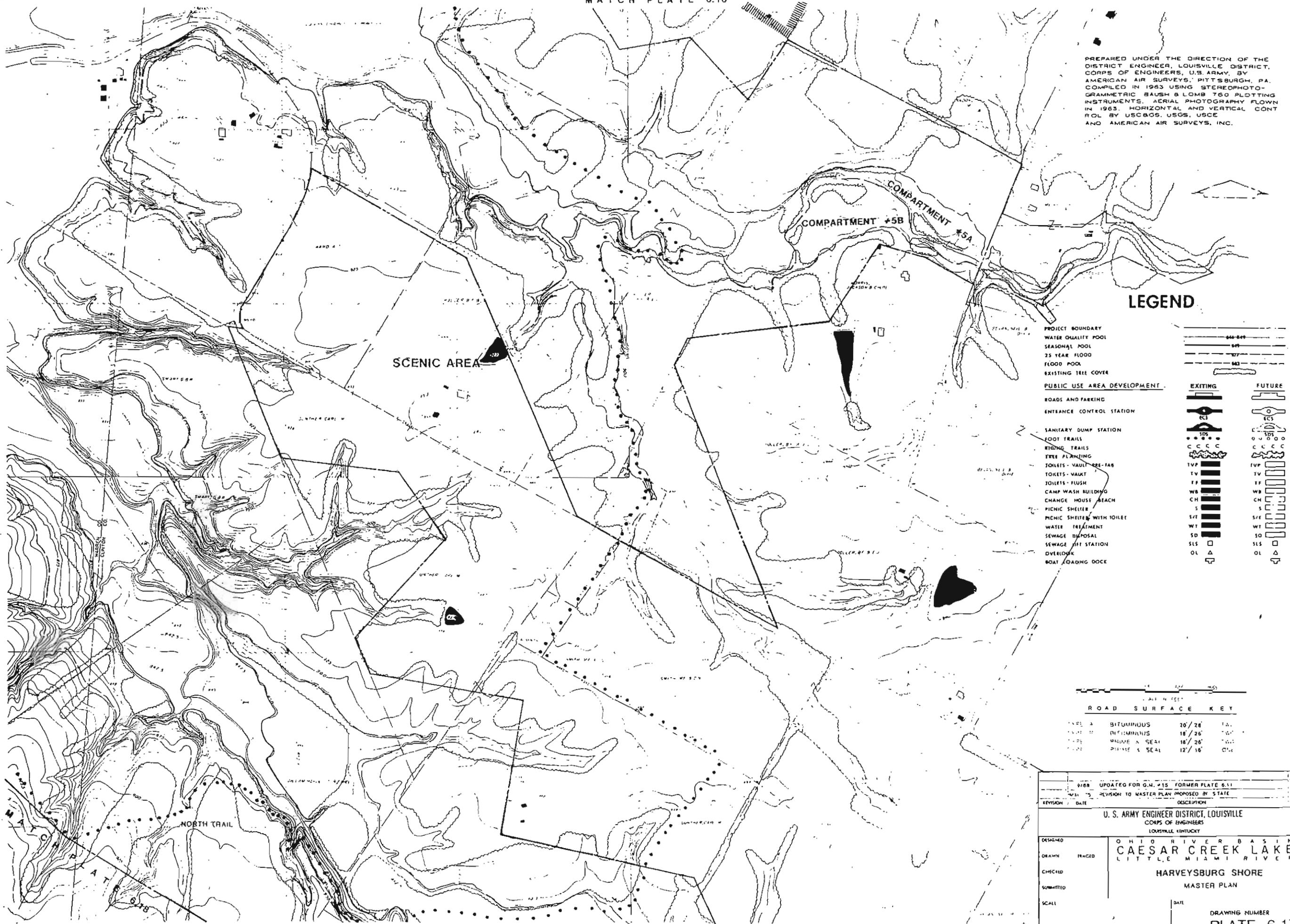
- C C C C
- FVP
- TV
- TF
- WB
- CH
- S
- WT
- SO
- SLS
- OL



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTO-GRAMMETRIC BAUSH & LOMB 780 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1963 HORIZONTAL AND VERTICAL CONTROL BY USCBDS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

9/86 UPDATED FOR D.M. #15 FORMER PLATE 6.12	
MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION	DATE
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
MOUNDS CAMPGROUND SITE MASTER PLAN	
DRAWN	TRACED
CHECKED	
SUBMITTED	
DATE	
DRAWING NUMBER PLATE 6.16	

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USCBGS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.



LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 25 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT**
- ROADS AND PARKING
 - ENTRANCE CONTROL STATION
 - SANITARY DUMP STATION
 - FOOT TRAILS
 - RIDING TRAILS
 - TREE PLANTING
 - TOILETS - VAULT - SEE-FAS
 - TOILETS - VAULT
 - TOILETS - FLUSH
 - CAMP WASH BUILDING
 - CHANGE HOUSE BEACH
 - PICNIC SHELTER
 - PICNIC SHELTER WITH TOILET
 - WATER TREATMENT
 - SEWAGE DISPOSAL
 - SEWAGE TIT STATION
 - OVERLOOK
 - BOAT LOADING DOCK
- | | EXISTING | FUTURE |
|----------------------------|----------|--------|
| ROADS AND PARKING | | |
| ENTRANCE CONTROL STATION | | |
| SANITARY DUMP STATION | | |
| FOOT TRAILS | | |
| RIDING TRAILS | | |
| TREE PLANTING | | |
| TOILETS - VAULT - SEE-FAS | | |
| TOILETS - VAULT | | |
| TOILETS - FLUSH | | |
| CAMP WASH BUILDING | | |
| CHANGE HOUSE BEACH | | |
| PICNIC SHELTER | | |
| PICNIC SHELTER WITH TOILET | | |
| WATER TREATMENT | | |
| SEWAGE DISPOSAL | | |
| SEWAGE TIT STATION | | |
| OVERLOOK | | |
| BOAT LOADING DOCK | | |

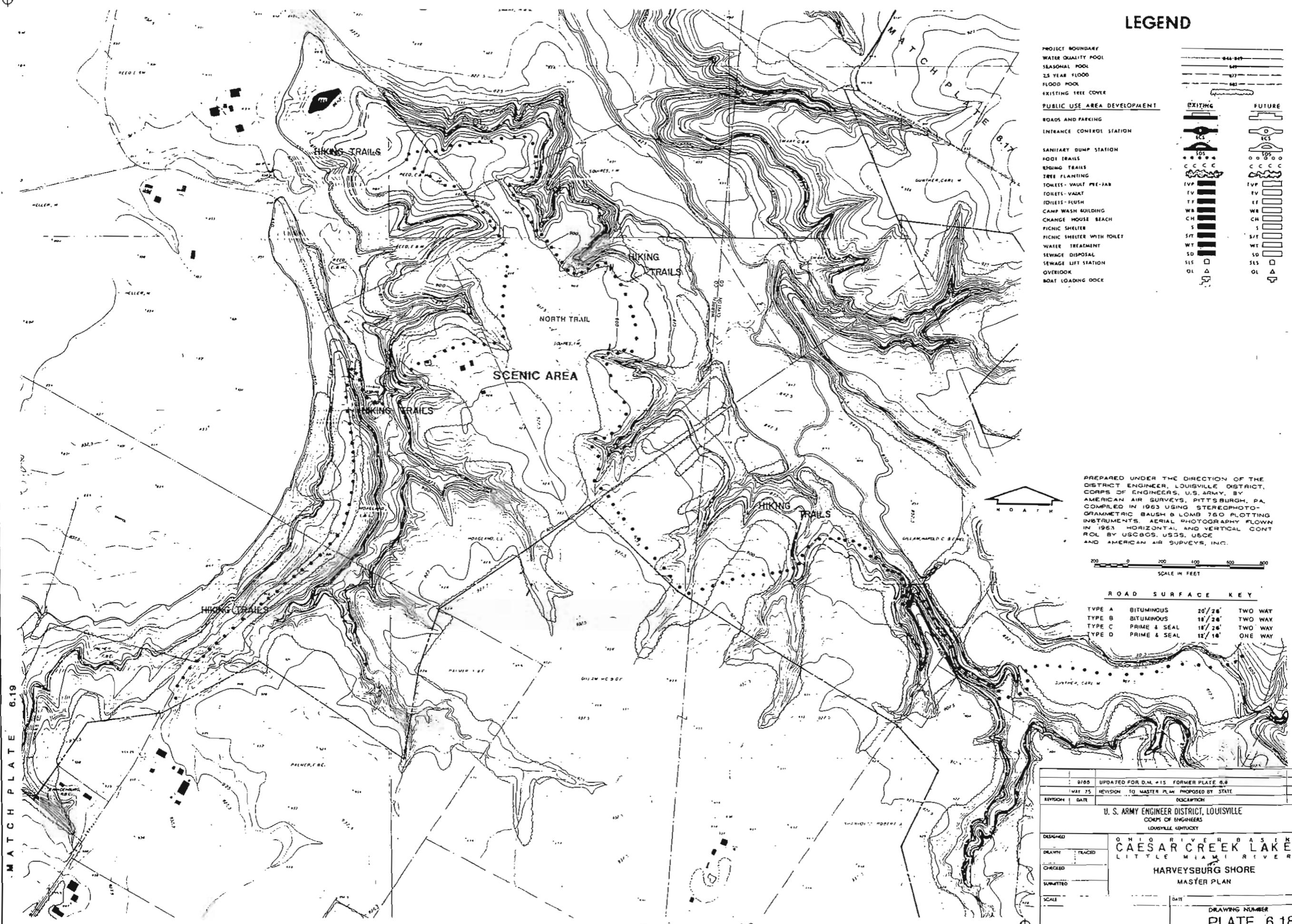
ROAD SURFACE KEY

TYPE	MATERIAL	WIDTH	THICKNESS
TYPE 1	BITUMINOUS	20' / 24'	1.5"
TYPE 2	BITUMINOUS	18' / 26'	1.5"
TYPE 3	PASQUE & SEAL	18' / 26'	1.5"
TYPE 4	PASQUE & SEAL	12' / 18'	0.75"

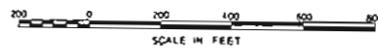
9708	UPDATED FOR G.M. #15	FORMER PLATE 6.11
751	REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION	DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY		
DESIGNED	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
DRAWN	HARVEYSBURG SHORE	
CHECKED	MASTER PLAN	
SUBMITTED		
SCALE	DATE	DRAWING NUMBER
		PLATE 6.17

LEGEND

PROJECT BOUNDARY		844-845
WATER QUALITY POOL		847
SEASONAL POOL		877
25 YEAR FLOOD		882
FLOOD POOL		
EXISTING TREE COVER		
PUBLIC USE AREA DEVELOPMENT		
ROADS AND PARKING		
ENTRANCE CONTROL STATION		
SANITARY DUMP STATION		
FOOT TRAILS		
BIKING TRAILS		
TREE PLANTING		
TOILETS - VAULT PEE-JAB		
TOILETS - VALET		
TOILETS - FLUSH		
CAMP WASH BUILDING		
CHANGE HOUSE BEACH		
PICNIC SHELTER		
PICNIC SHELTER WITH TOILET		
WATER TREATMENT		
SEWAGE DISPOSAL		
SEWAGE LIFT STATION		
OVERLOOK		
BOAT LOADING DOCK		



PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USCGOS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.



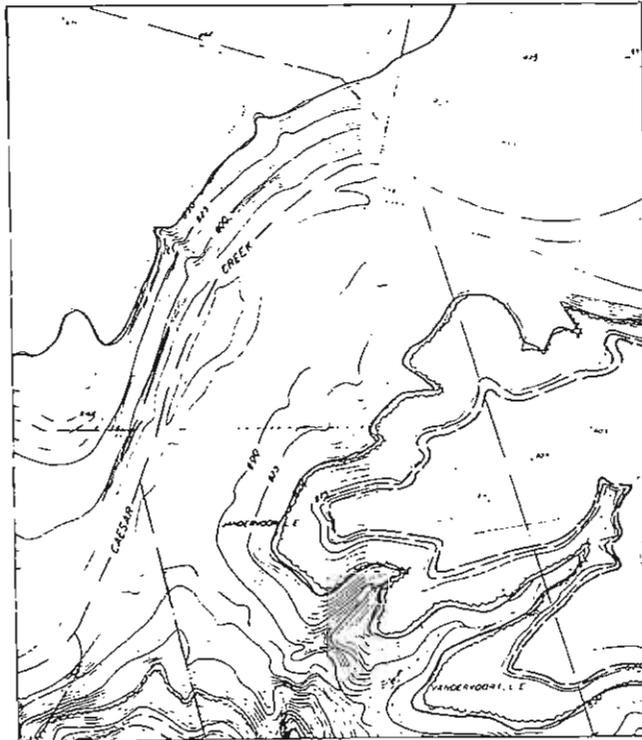
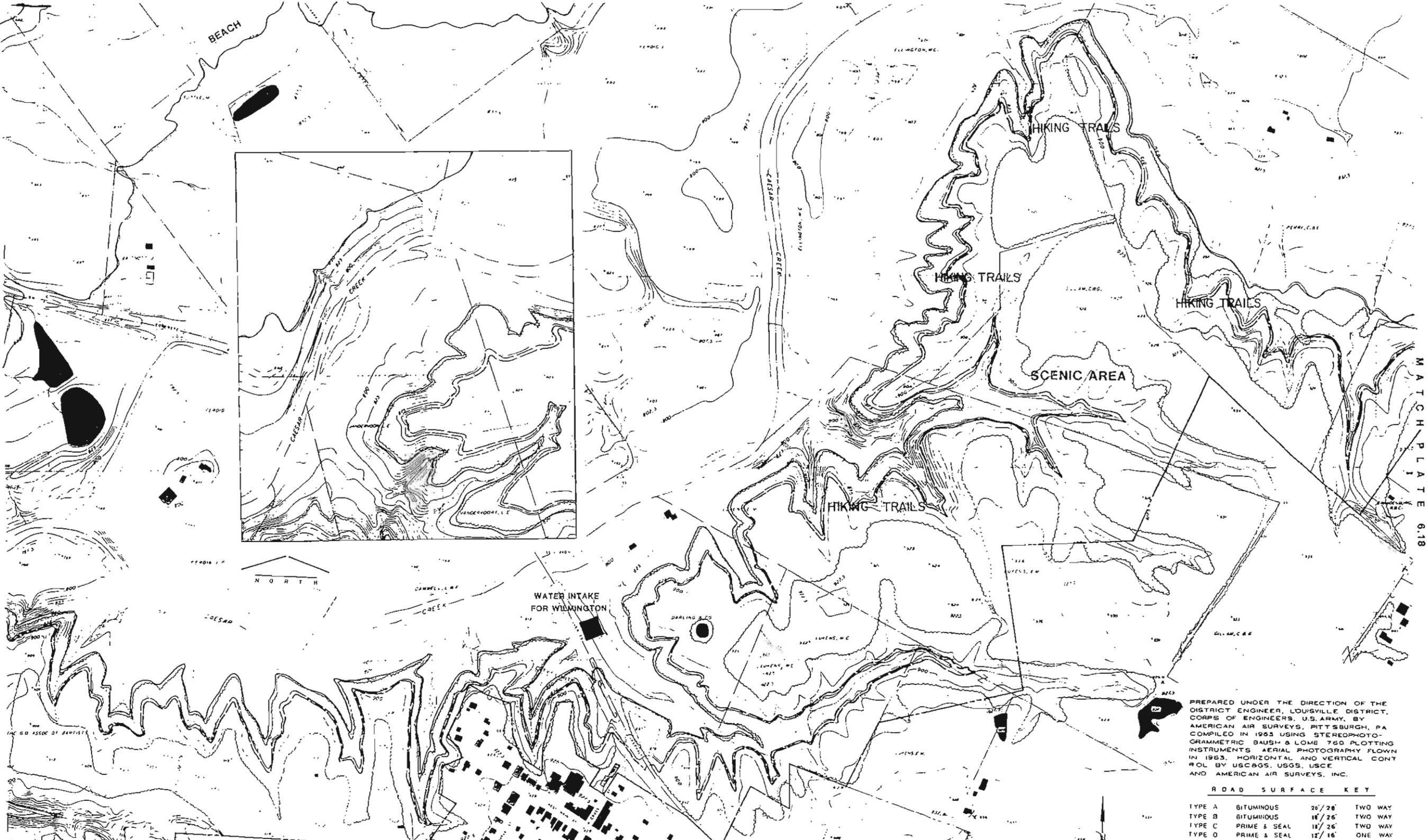
ROAD SURFACE KEY

TYPE A	BITUMINOUS	20'/26"	TWO WAY
TYPE B	BITUMINOUS	18'/26"	TWO WAY
TYPE C	PRIME & SEAL	18'/26"	TWO WAY
TYPE D	PRIME & SEAL	12'/16"	ONE WAY

DESIGNED	0/00	UPDATED FOR D.M. #15	FORMER PLATE 6.8
DRAWN	MAY 75	REVISION	TO MASTER PLAN PROPOSED BY STATE
CHECKED		DATE	
SUBMITTED		DESCRIPTION	
SCALE		U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY	
		OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER HARVEYSBURG SHORE MASTER PLAN	
		DRAWING NUMBER	DATE
		PLATE 6.18	

MATCH PLATE 6.19

MATCH PLATE 6.17



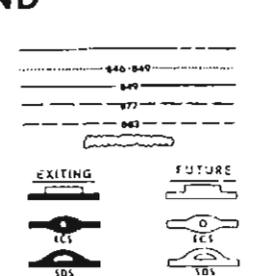
PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1953 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1953. HORIZONTAL AND VERTICAL CONTROL BY USC&GS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

ROAD SURFACE KEY

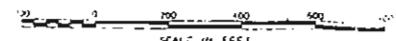
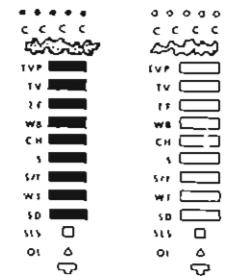
TYPE A	BITUMINOUS	20' / 20'	TWO WAY
TYPE B	BITUMINOUS	18' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	ONE WAY

LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 25 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY GUMP STATION

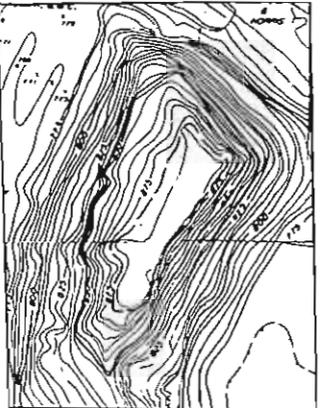
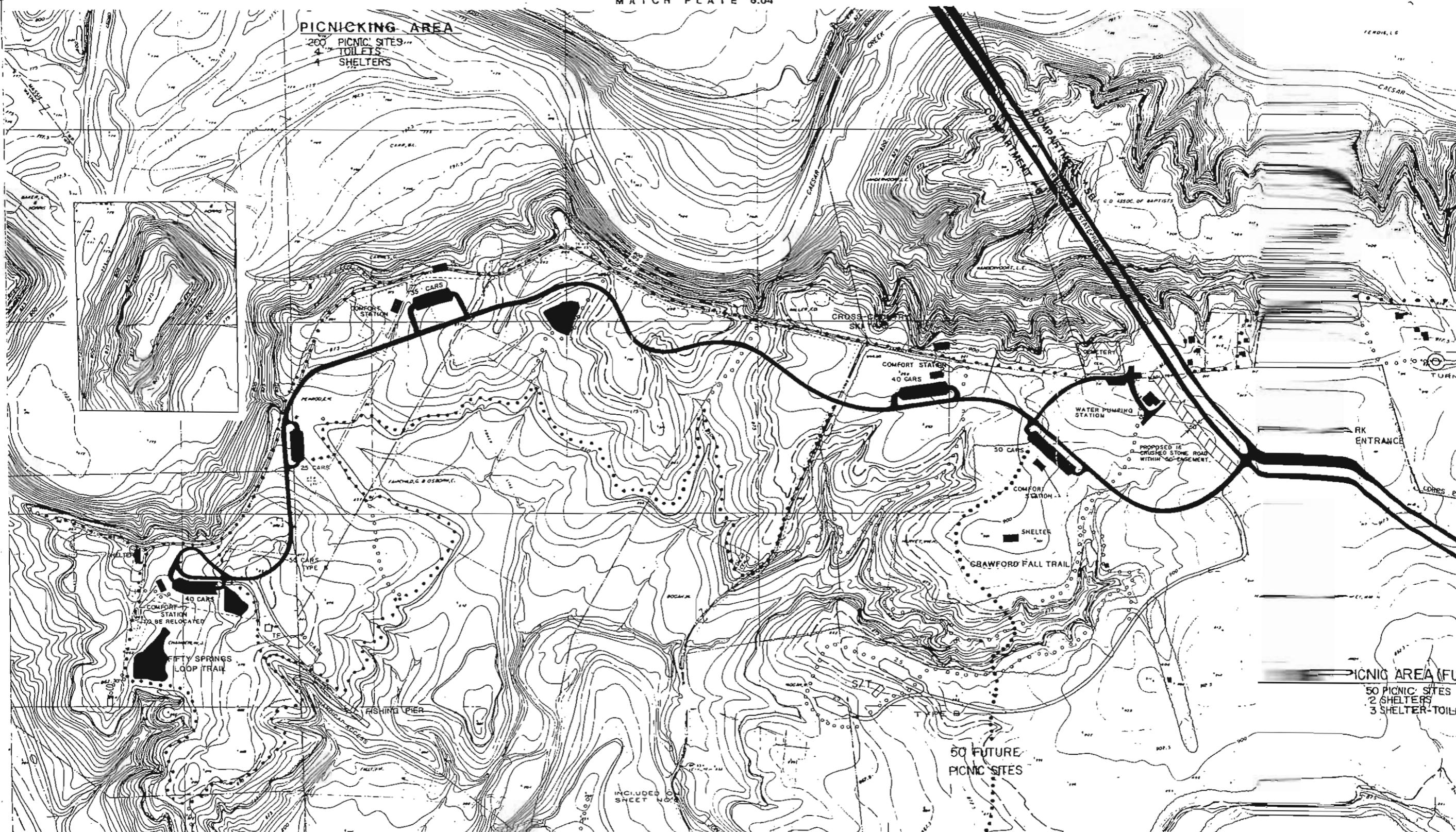


- FOOT TRAILS
- RIDING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK



DESIGNED	TRACED	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER HARVEYSBURG SHORE MASTER PLAN
DRAWN	CHECKED	
SUBMITTED	SCALE	
DATE	DRAWING NUMBER	
9/59 UPDATED FOR D.M. #15 FORMER PLATE 6.7 MAY 75 REVISION TO MASTER PLAN PROPOSED BY STATE REVISION DATE DESCRIPTION BY		U.S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE, KENTUCKY		DATE PLATE 6.19

PICNICKING AREA
 200 PICNIC SITES
 4 TOILETS
 1 SHELTERS

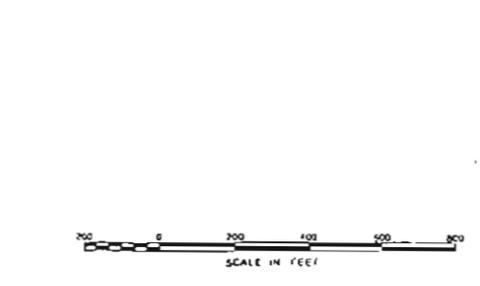


LEGEND

- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 25 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS

- RIDING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BRACK
- PICNIC SHELTER
- PICNIC SHELTER WITH TOILET
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK

- CCCC
- TVP
- TY
- TF
- WR
- CR
- S
- S/T
- WT
- SO
- SLS
- OL
- CCCC
- TVP
- TV
- TF
- WR
- CR
- CH
- S/T
- WF
- SO
- SLS
- OL



ROAD SURFACE KEY

- TYPE A BITUMINOUS 20' / 26' TWO WAY
- TYPE B BITUMINOUS 18' / 26' TWO WAY
- TYPE C PRIME & SEAL 18' / 26' TWO WAY
- TYPE D PRIME & SEAL 12' / 16' ONE WAY

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA COMPILED IN 1983 USING STEREOPHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS AERIAL PHOTOGRAPHY FLOWN IN 1983 HORIZONTAL AND VERTICAL CONTROL BY USCGS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

PICNIC AREA (FU)
 50 PICNIC SITES
 2 SHELTERS
 3 SHELTER-TOILET

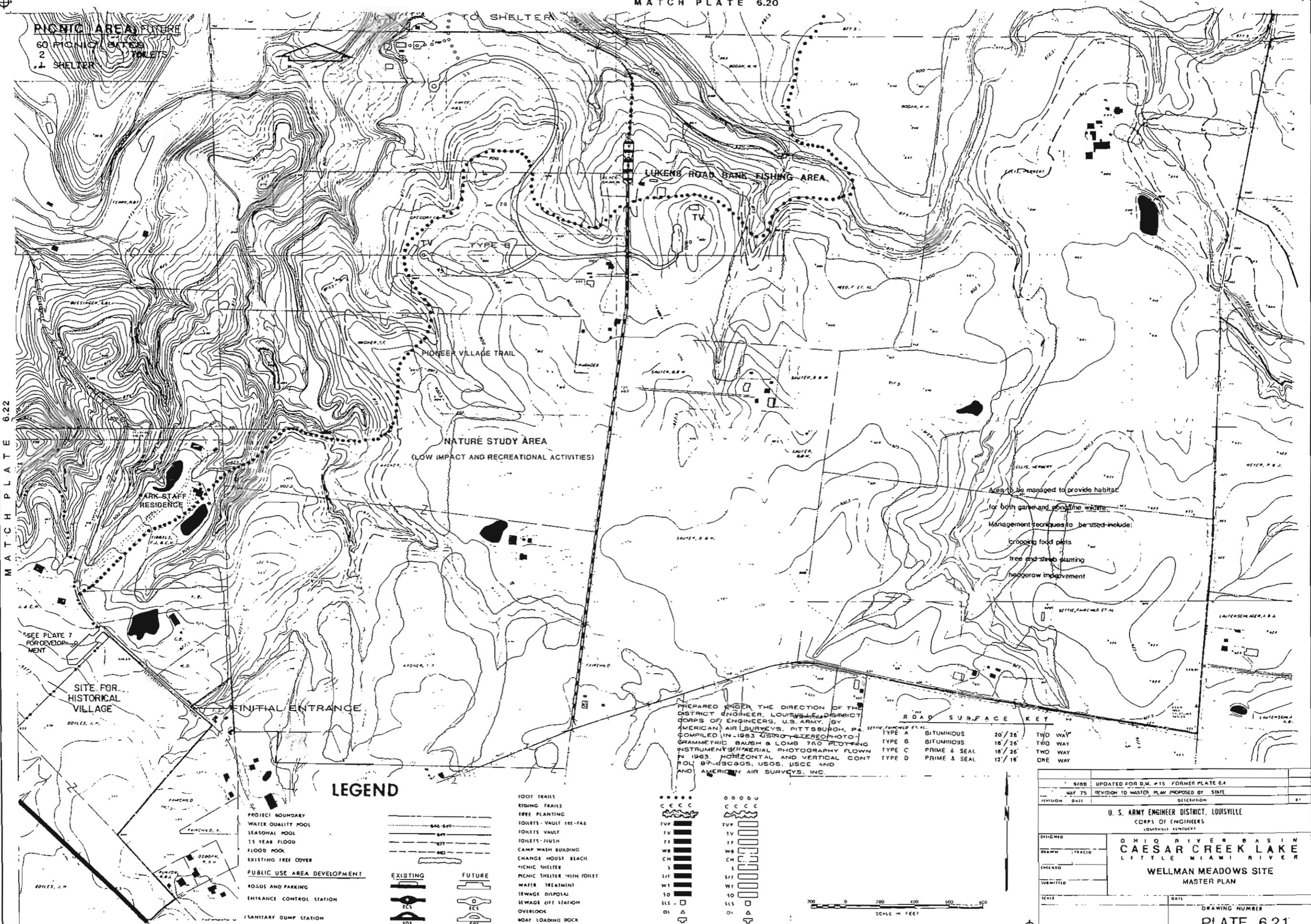
50 FUTURE PICNIC SITES

MATCH SHEET 6.21

Q/BA	UPDATED FOR	FORMER PLATE 6.5
JULY 76	REVISION TO M	FOR CEMETERY ACCESS
MAY 75	REVISION TO M	FOR PLAN PROPOSED BY STATE
REVISION	DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE		
CORPS OF ENGINEERS		
LOUISVILLE DISTRICT		
DESIGNED	OM	30 RIVER
DRAWN	CA	ESAR CREEK
CHECKED	LI	FILE MIAMI
SUBMITTED		50 SPRINGS ACCESS
SCALE		MASTER PLAN
		DATE
		DRAWING
		PLAT

PICNIC AREA FUTURE
 60 PICNIC BENCHES
 2 TOILETS
 1 SHELTER

MATCH PLATE 6.22



NATURE STUDY AREA
 (LOW IMPACT AND RECREATIONAL ACTIVITIES)

Area to be managed to provide habitat for both game and non-game wildlife. Management techniques to be used include:
 - cropping food plots
 - tree and shrub planting
 - hedgerow improvement

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREO PHOTOGRAMMETRIC BAUSH & LOMB 760 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPHY FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USCGS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.

ROAD SURFACE KEY

TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	16' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 26'	TWO WAY
TYPE D	PRIME & SEAL	12' / 16'	DWE WAY

LEGEND

- PROJECT BOUNDARY
 - WATER QUALITY POOL
 - SEASONAL POOL
 - 15 YEAR FLOOD
 - FLOOD POOL
 - EXISTING TREE COVER
 - PUBLIC USE AREA DEVELOPMENT**
 - ROADS AND PARKING
 - ENTRANCE CONTROL STATION
 - SANITARY DUMP STATION
 - INITIAL ENTRANCE
- | | | | |
|--|---------------------|--|----------------------------|
| | EXISTING | | FUTURE |
| | FOOT TRAILS | | RIDING TRAILS |
| | TREE PLANTING | | TOILETS - VAULT |
| | TOILETS - VAULT | | TOILETS - FLUSH |
| | CAMP WASH BUILDING | | CHANGE HOUSE BEACH |
| | PICNIC SHELTER | | PICNIC SHELTER WITH TOILET |
| | WATER TREATMENT | | SEWAGE DISPOSAL |
| | SEWAGE LIFT STATION | | OVERLOOK |
| | BOAT LOADING DOCK | | |



9/88	UPDATED FOR D.M. #15 FORMER PLATE 6.4	
MAY 75	REVISION TO MASTER PLAN PROPOSED BY SITE	
REVISION	DATE	DESCRIPTION
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DISTRICT		
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER		
WELLMAN MEADOWS SITE MASTER PLAN		
DRAWN	TRACED	
CHECKED		
DATE	DATE	DRAWING NUMBER
		PLATE 6.21

LEGEND

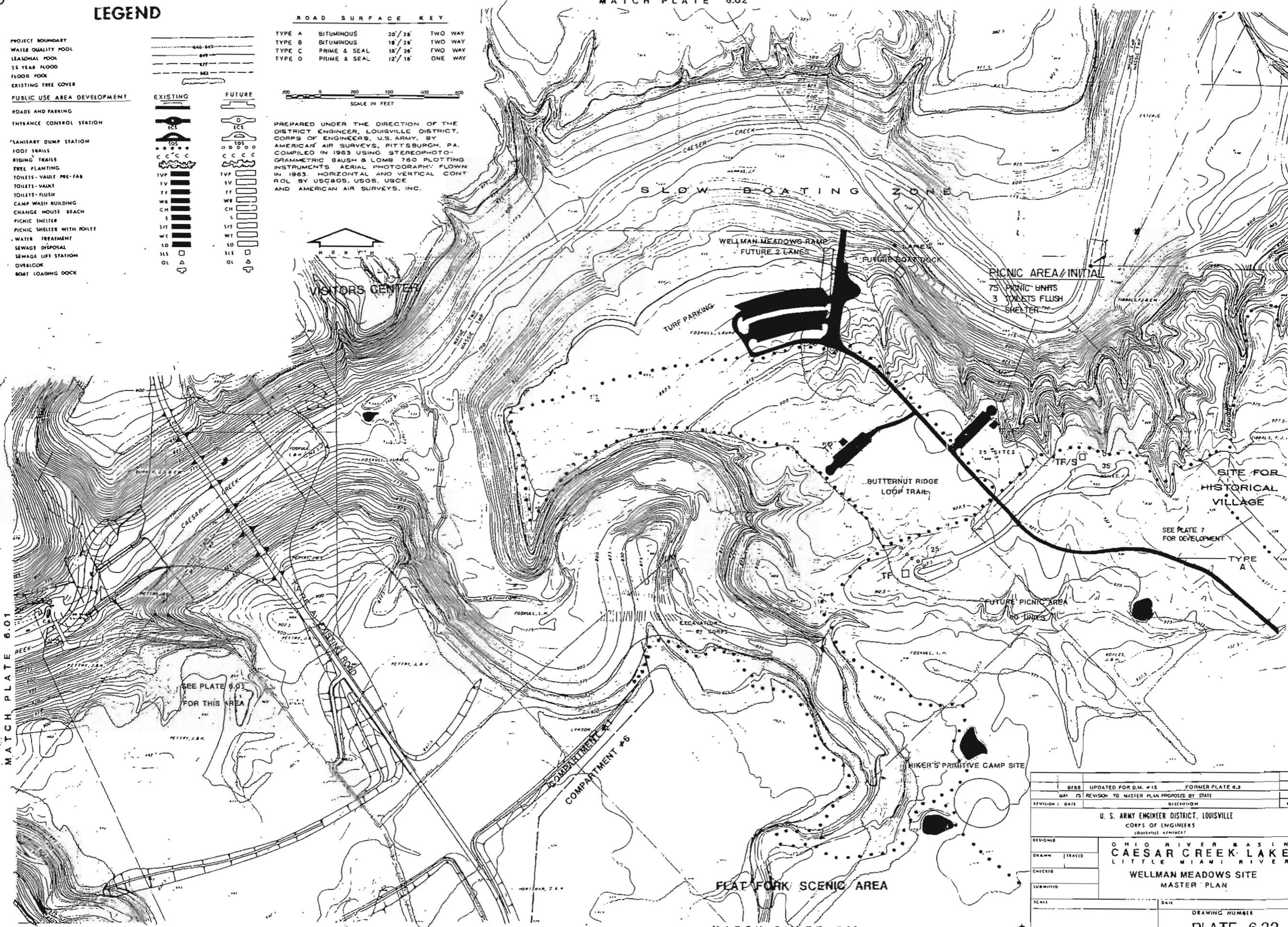
- PROJECT BOUNDARY
- WATER QUALITY POOL
- SEASONAL POOL
- 15 YEAR FLOOD
- FLOOD POOL
- EXISTING TREE COVER
- PUBLIC USE AREA DEVELOPMENT
- ROADS AND PARKING
- ENTRANCE CONTROL STATION
- SANITARY DUMP STATION
- FOOT TRAILS
- BIRDING TRAILS
- TREE PLANTING
- TOILETS - VAULT PRE-FAB
- TOILETS - VAULT
- TOILETS - FLUSH
- CAMP WASH BUILDING
- CHANGE HOUSE BEACH
- PICNIC SHELTER
- PICNIC SHELTER WITH JOHLEY
- WATER TREATMENT
- SEWAGE DISPOSAL
- SEWAGE LIFT STATION
- OVERLOOK
- BOAT LOADING DOCK

ROAD SURFACE KEY

TYPE A	BITUMINOUS	20' / 26'	TWO WAY
TYPE B	BITUMINOUS	18' / 26'	TWO WAY
TYPE C	PRIME & SEAL	18' / 20'	TWO WAY
TYPE O	PRIME & SEAL	12' / 10'	ONE WAY

SCALE IN FEET

PREPARED UNDER THE DIRECTION OF THE DISTRICT ENGINEER, LOUISVILLE DISTRICT, CORPS OF ENGINEERS, U.S. ARMY, BY AMERICAN AIR SURVEYS, PITTSBURGH, PA. COMPILED IN 1963 USING STEREOPHOTOGRAMMETRIC GAUSH & LOWE 760 PLOTTING INSTRUMENTS. AERIAL PHOTOGRAPH FLOWN IN 1963. HORIZONTAL AND VERTICAL CONTROL BY USCGS, USGS, USCE AND AMERICAN AIR SURVEYS, INC.



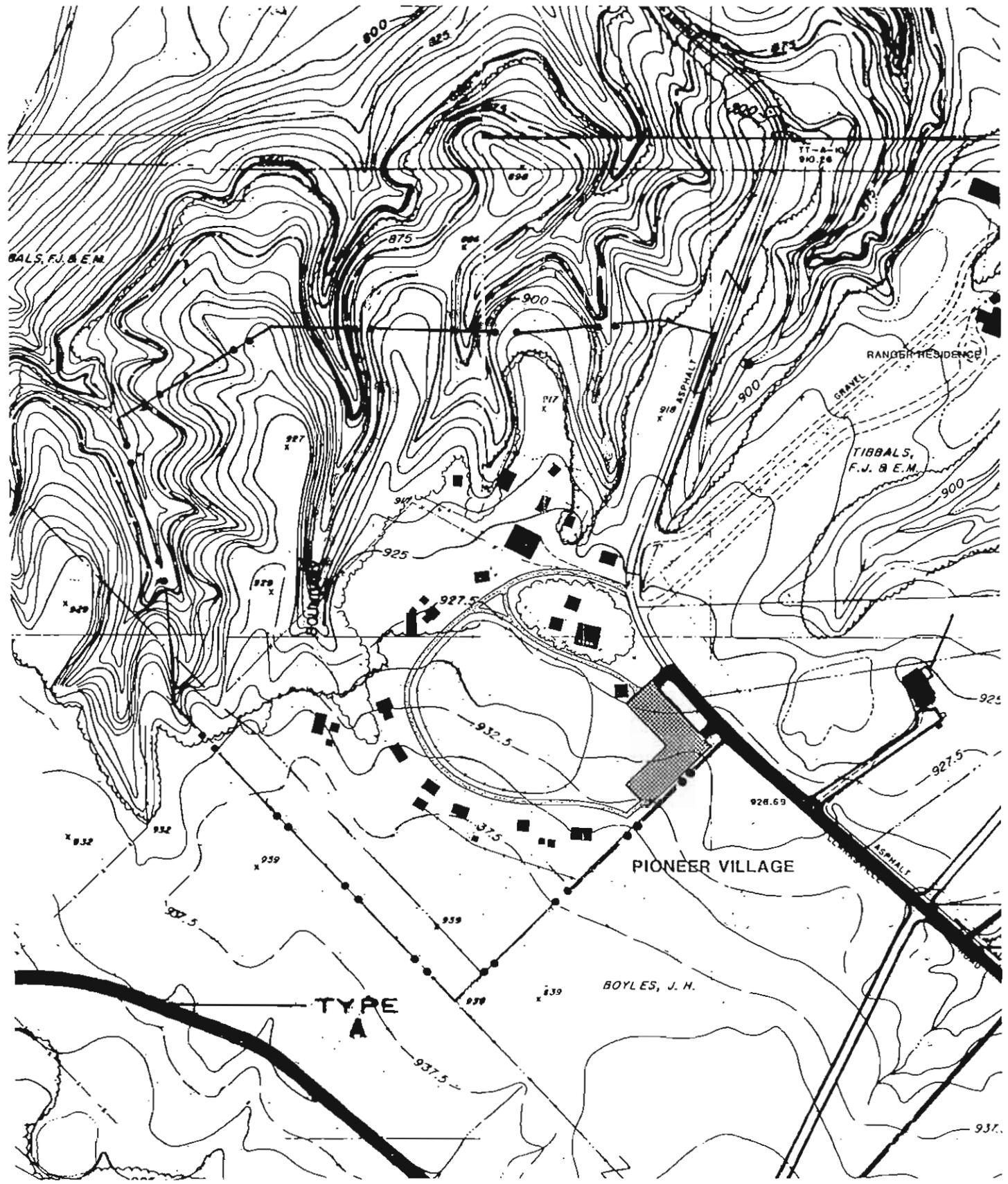
MATCH PLATE 6.01

MATCH PLATE 6.21

SEE PLATE 6.01 FOR THIS AREA

SEE PLATE 7 FOR DEVELOPMENT

9188	UPDATED FOR D.M. #15	FORMER PLATE 6.3
MAY 75	REVISION TO MASTER PLAN PROPOSED BY STATE	
REVISION 1 DATE	DISCUSSION	BY
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE OFFICE		
DESIGNED	OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER	
DRAWN	WELLMAN MEADOWS SITE MASTER PLAN	
CHECKED		
SUBMITTED		
SCALE	DATE	DRAWING NUMBER
		PLATE 6.22



LEGEND

- ENTRANCE ROAD 
- PARKING 
- WALKS 
- FENCE 
- BUILDING ON ORIGINAL SITE 
- RELOCATED BUILDING 



REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, LOUISVILLE CORPS OF ENGINEERS LOUISVILLE DIVISION			
OHIO RIVER BASIN CAESAR CREEK LAKE LITTLE MIAMI RIVER			
CAESAR CREEK PIONEER VILLAGE MASTER PLAN			
DESIGNED			
DRAWN	TRACED		
CHECKED			
SUBMITTED			
SCALE	DATE	DRAWING NUMBER	
		PLATE 7	