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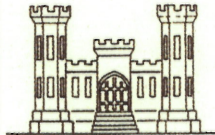
LACKAWAXEN RIVER
PENNSYLVANIA

PROMPTON LAKE

DESIGN MEMORANDUM NO. 9

MASTER PLAN

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PHILADELPHIA



DEPARTMENT OF THE ARMY
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS
CUSTOM HOUSE - 2D & CHESTNUT STREETS
PHILADELPHIA, PENNSYLVANIA 19106

REVISED AUGUST 1971

TC557
.P5
P76
no. 9
1971



DEPARTMENT OF THE ARMY
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS
CUSTOM HOUSE-2 D & CHESTNUT STREETS
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO

NAPEN-R

13 August 1971


SUBJECT: Prompton Lake, Lackawaxen River, Pennsylvania, Transmittal of
Design Memorandum No.9 Revised Master Plan.

Division Engineer, North Atlantic
ATTN: NADPL-R

1. Attached as inclosure 1, are six copies of the revised Master Plan which has been prepared in accordance with guidelines in EM 1130-2-302. This supercedes a previously revised Master Plan dated July 1965.
2. Site investigations indicate that expansion of the swimming facilities would necessitate a beach separate from the existing one because of steep underwater grades. The Pennsylvania Bureau of State Parks has informed this office that it prefers not to staff two beaches as it feels there is not sufficient public demand to require an additional swimming area and that additional dry beach area would relieve congestion of the waters' edge.
3. The Federal portion of the planned recreation development is primarily rehabilitative in nature. The work to be accomplished under the plan is minimal and can be accomplished by Corps personnel except for basic grading and application of the sand blanket on the beach.
4. This revised Master Plan represents a virtually complete rewriting of the preceeding design memorandum dated July 1965. Sections I, II and III herein contain minor revisions since the subject matter describes mostly unchanging physical and administrative situations. The remaining sections, particularly those dealing with recreation facilities, have been greatly changed to reflect new regulatory guidelines and advances in planning criteria. Revision annotations on each page have been omitted with the intention that this Master Plan totally supercedes the previous document.

FOR THE DISTRICT ENGINEER:

1 Incl (sext)
as


W. D. STOCKMAN
Chief, Engineering Division

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PHILADELPHIA DISTRICT

The content of the revised Design Memorandum No. 9, Master Plan, Prompton Lake, was reviewed and is concurred in by this office.



THOMAS R. COLEMAN
Acting Chief, Real Estate Division

29 March 1971
Date

PROMPTON LAKE
LACKAWAXEN RIVER BASIN
LACKAWAXEN RIVER, PENNSYLVANIA

DESIGN MEMORANDUM NO. 9

MASTER PLAN
(Revised)

OFFICE OF THE DISTRICT ENGINEER
U. S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
PHILADELPHIA, PA.

REVISED AUGUST 1971

LACKAWAXEN RIVER BASIN
PROMPTON LAKE
PENNSYLVANIA

PREVIOUS REPORTS AND DESIGN MEMORANDA

No.	Title	Submitted	Approved
	Definite Project Report	Apr 1949	Jan 1950
	Memorandum on Effect of Revised Spillway Design Flood Criteria	Jun 1956	26 Aug 1956
	Flood Control Review Report	Aug 1956	
1	Real Estate	Sep 1956	Revised
	Resubmitted	Oct 1956	
1A	Real Estate	Oct 1957	Revised
	Resubmitted	Nov 1958	25 Feb 1959
2	Outlet Works	Feb 1957	26 Aug 1957
3	Spillway Design	Feb 1957	12 Apr 1957
4	Embankment Design	Mar 1957	5 Jun 1957
5	Concrete Aggregates Investigation	Jan 1957	18 Jan 1957
6	Highway Relocation	Sep 1957	9 Jan 1958
6A	Relocation of Utilities	Sep 1959	5 Nov 1959
7	Reservoir Clearing	Oct 1959	7 Dec 1959
8	Buildings, Grounds and Recreational Facilities	Dec 1959	30 Mar 1960
9	Master Plan	Jun 1961	13 Dec 1961
	(Revised)	Jul 1965	23 Mar 1966
	(Revised)	Aug 1971	
10)	Hydrology and Hydraulics	31 Oct 1966	31 Mar 1967
11	General Design	Feb 1968	30 Jul 1968

REVISED MASTER PLAN FOR PROMPTON LAKE

DESIGN MEMORANDUM NO. 9

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1/ The Pennsylvania Department of Forests and Waters has been abolished and its functions assumed by the Pennsylvania Department of Environmental Resources established in February 1971. The Bureau of State Parks remains as part of the new agency.

PERTINENT DATA

(All elevations are in feet and refer to mean sea level)

a. Dam Embankment

Top elevation -----	1,226.0
Height (ft.) -----	140.0
Top width (ft.) -----	30.0
Crest length (ft.) -----	1,230.0

b. Intake

Elevation of weir crest -----	1,125.0
Elevation of low level crest (8'6" wide)-----	1,122.8

c. Conduit

Discharge capacity @ reservoir design flood (cfs) ----	2,700.0
Discharge capacity @ spillway crest (cfs) -----	3,250.0
Length of conduit (ft.) -----	548.0

d. Stilling Basin

Length (ft.) -----	55.0
Depth (ft.) -----	23.0
Bottom width (ft.) -----	30.0
Floor elevation -----	1,075.0

e. Spillway

Crest elevation -----	1,205.0
Length of crest (ft.) -----	50.0
Maximum discharge (ft.) -----	15.5
Peak natural flow at dam site (cfs) -----	74,000
Peak inflow rate into full reservoir (cfs) -----	81,500
Maximum spillway discharge (cfs) -----	9,200

f. Pool

	<u>Elevation</u>	<u>Acres</u>
River bed -----	1,086.0	
Low level pool -----	1,122.8	260
Permanent pool -----	1,125.0	280
Five-year storm level -----	1,131.0	340
Reservoir at design flood -----	1,168.1	630

g. Water Surface Elevations and Acreages

Spillway crest -----	1,205.0	910
Maximum elevation of spillway		
design flood -----	1,220.5	1,070
Top of dam -----	1,226.0	1,130

h. Permanent pool shoreline

Length (miles) ----- 6.25

i. Service Building

Length (ft.) ----- 42.0

Width (ft.) ----- 32.7

Height (ft.) ----- 11.8

j. Total Project Cost (approx.) ----- \$4,225,000

k. Estimated Maintenance and Operation Cost (annual
average)----- \$15,400

h. Permanent pool shoreline

Length (miles) ----- 6.25

i. Service Building

Length (ft.) ----- 42.0

Width (ft.) ----- 32.7

Height (ft.) ----- 11.8

j. Total Project Cost (approx.) ----- \$4,225,000

k. Estimated Maintenance and Operation Cost (annual
average) ----- \$15,400

REVISED MASTER PLAN FOR PROMPTON LAKE
DESIGN MEMORANDUM NO. 9
SECTION I - GENERAL

1-01. **AUTHORITY** Congressional authority for the construction of Prompton Lake, in accordance with recommendations of the Chief of Engineers as presented in House Document 113, 80th Congress, 1st Session, is contained in the Flood Control Act approved 30 June 1948. That authority provides for a dam on the main stem of the Lackawaxen River in the Borough of Prompton, to impound flood flows and control the release thereof to prevent flooding in Prompton, Seelyville and Honesdale and to minimize flooding at White Mills and Hawley.

1-02. **PURPOSE.** The purpose of this Master Plan is to provide the basis for: (1) administration and operation of the project; (2) preservation of its scenic, biological and recreation resources; and (3) coordination with interested Federal, State and local agencies.

1-03. **SCOPE.** This Master Plan was prepared in accordance with the provisions of EM 1120-2-302 (changes 1 through 10). It: (1) describes the pertinent existing features of the dam and lake area; (2) describes the recreation resources of the project, the specific plans, criteria for improvements and measures needed to protect these resources; (3) defines the responsibilities of the Corps of Engineers and the Commonwealth of Pennsylvania for maintaining, operating and managing the reservoir and (4) describes the authorized future modifications to provide long term storage for water supply and recreation use as well as flood control. The latter topic was presented in Design Memorandum No. 11 which was approved by OCE on 30 July 1968.

1-04. **LOCATION AND ACCESSIBILITY.** Prompton Lake is located across the Lackawaxen River within the limits of the Borough of Prompton and about one-half mile north of U. S. Highway 6. The project is located in Wayne County and is approximately 115 air miles north of Philadelphia, Pennsylvania (see inset plate 1).

1-05. **WATERSHED.** The Lackawaxen River, upstream of Prompton Lake, drains an area of 60 square miles in the northeast corner of Pennsylvania and flows in a southeasterly direction 49 miles to the town of Lackawaxen where it enters the Delaware River. The three principal tributaries of Lackawaxen River, all located downstream of the dam, are: Dyberry Creek, draining 71 square miles and entering the river from the north of Honesdale; Middle Creek, draining 82 square miles and joining the river from the west at Hawley; and Wallenpaupack Creek, draining 228 square miles and entering the river from the southwest, a short distance downstream from Hawley.

SECTION II DESCRIPTION OF PROJECT AREA

2-01. GEOLOGY AND TOPOGRAPHY. The project lies within the Pocono Plateau. Bedrock consists of nearly horizontal strata of gray sandstone and shale, with some interbeds of red sandstone and shale. These strata are part of the Catskill Formation, of the Devonian period, which is well developed in northeastern Pennsylvania. The project area's rounded ridge-crests and unstratified soils and sediments manifest the effects of Pleistocene glaciation. A ground moraine occurs on the upper valley slopes and adjacent ridges. Soils are predominantly stony and gravelly loams of the Culvers and Lordstown series. There are also some finer textures soils in the Tioga and Lackawanna series. The impoundment is located in a narrow valley having gentle slopes.

2-02. VEGETATION. The forest cover at the project is a mixture of eastern and southern hardwood types found in the mid-Atlantic coastal region. The upland forest is primarily composed of beech, sugar maple, eastern hemlock, black cherry, yellow birch, red maple, elm, white pine, pitch pine, and aspen. The lowland species that may be found are willow, sycamore, river birch, black birch, and alder. Most of the forested land had been repeatedly logged for the more desirable species by selective cutting.

2-03. FISH AND WILDLIFE. A report on fish and wildlife resources at the project was prepared in 1966 by the U. S. Fish and Wildlife Service 1/. That report is summarized below. The fish species present in the lake are walleye, pickerel, suckers and smallmouth black bass. Brook trout, brown trout, rainbow trout, yellow perch, bullheads and sunfish are found in the Lackawaxen River above and below the lake. White-tailed deer are found in this section of Pennsylvania but the lake area provides little suitable habitat for them. Upland game found on the reservoir area consists of cottontails, raccoons, opossums, red foxes, gray foxes, ruffed grouse, woodchucks and gray squirrels. The section of Pennsylvania in which the project is located is not an important part of the flyway. Present utilization of nearby bodies of water comparable to Prompton's conservation pool, indicates that the impoundment will have little value to waterfowl.

1/ The report may be seen in Appendix A-15, General Design Memorandum No. 11

SECTION III
DESCRIPTION OF DAM AND IMPOUNDMENT AREA

3-01. PRINCIPAL PROJECT STRUCTURES. Prompton Dam is a rolled earth embankment with rock-facing on the downstream face and a substantial rock section on the upstream face (see photographs 1 and 2). The dam was constructed higher than would normally be required since it proved more economical to increase the height of the dam than to construct the more costly spillway that would be needed for a lower dam. A small 50-foot wide unlined emergency spillway is located in bedrock at the west abutment. A low level "Morning Glory" intake, a circular ungated conduit, and a stilling basin have been provided.

3-02. SPECIAL CONSTRUCTION FOR TROUT PRESERVATION. As an aid in the preservation of a trout fishery downstream from the dam during the summer when surface water discharged from the reservoir would be undesirably warm, a special intake structure was constructed. The intake, by means of an arrangement of weirs, mixes surface water with cooler bottom water during periods when inflow to the reservoir is high. When inflow is low, such as during very hot weather, the intake passes only the cooler bottom water.

3-03. DAMTENDER'S SERVICE FACILITIES. A service building for the dam-tender is located near the right (west) abutment of the dam 1/. Vehicular access to the building is by an access road from relocated State Route 170. Associated with the service building is a well for potable water, a small sewage disposal system, electricity, communication equipment, one truck, a tractor and a 14-foot rowboat with an outboard motor. The Operation and Maintenance Manual describes this equipment in detail.

3-04. CLEARING. The project area was cleared as follows:

Zone 1. Elevation 1120 and below: All buildings, floatable structures, timber, floatable debris, downed timber, trash and fences of floatable construction were removed.

Zone 2. Elevation 1120 to 1128: Completely cleared of timber and buildings. All structures completely removed.

Zone 3. Elevations 1128 to 1131: All debris removed. Downed timber less than four inches in diameter at the butt and less than eight feet long was left in place. Floatable buildings and structures have been removed. Foundations were demolished to grade and excavations filled.

Zone 4. Elevations 1131 to 1205: All floatable buildings and structures were removed and foundations demolished to grade. All excavations were filled.

3-05. IMPOUNDMENT AREA DESCRIPTION. A permanent pool ranging between 260 and 280 acres is maintained between elevations 1122.8 and 1125.0 by the weirs located at the entrance to the outlet. The shoreline of the permanent pool is about six miles in length. A five-year storm would

1/ Location of service building at top of right abutment is discernible on photograph 2.

raise the pool to elevation 1131.0 and create a 340-acre lake. Maximum elevation at reservoir design flood is 1168.1 creating a 630-acre lake. Spillway crest is at elevation 1205.0 with a 910-acre lake. The storage capacity of the normal pool is 3,400 acre-feet. At spillway level the total capacity is 51,700 acre-feet of which 48,300 acre-feet, equivalent to 15 inches of runoff from the drainage area above the dam, is above the permanent pool. The discharge capacity of the outlet works when the pool is a maximum elevation of reservoir design flood is 2,700 c.f.s., and at spillway crest, it is 3,250 c.f.s.

3-06. OPERATION AND MAINTENANCE. The lake capacity is used entirely for flood control except for the permanent pool which is used for recreation. There are no control gates and operation of the lake is entirely automatic. Lake pool levels can be read on a sectional staff gauge located on the left bank immediately upstream of the dam. Pool level is registered on a recorder which is in a shelter on top of a gauge well. The well is located to the left of center along the upstream face of the embankment. Outflow from the lake is measured and recorded at a United States Geological Survey stream gaging station located approximately 1,000 feet downstream from the dam and about 1,500 feet upstream of the highway bridge carrying U.S. Route 6 over Lackawaxen River. The intake structure was built to allow for the temporary installation of barriers at the weirs to cut off discharges and permit inspection or emergency work on the outlet conduit.

3-07. REAL ESTATE. Project lands include 525.46 acres acquired in fee title and 503.55 acres in easement, or a total area of 1,029.01 acres. Land held in fee extends to the top of the five-year frequency pool (elevation 1131) and land held in easement extends to the spillway crest (elevation 1205). The extend of land acquisition (both fee title and easements) was such as to provide for construction and operation of the project for flood control purposes. Although no land was acquired specifically for recreation, certain lands have been subsequently allocated for recreation development. All Federally-owned land adjacent to the lake, not needed for operation and maintenance of the flood control project, is designated as priority one, in accordance with ER 405-2-835, Change 3, 21 May 1965 1/. The Commonwealth of Pennsylvania has purchased about 972 acres continuous to the Federally-owned land. All areas of land acquisition by the Federal Government and the Commonwealth are shown on plate 1.

1/ Priority one land is that land to be used for public park and recreation areas.

SECTION IV RECREATION

4-01. **AUTHORITY FOR RECREATION DEVELOPMENT.** Section 4 of the Flood Control Act of 1944 (P.L. 78-534), as amended by the Flood Control Act of 1962 (P.L. 87-874), as further amended by the Land and Water Conservation Fund Act of 1965 (P.L. 88-578), provides authority for consideration of recreation development by the Corps of Engineers at all of its water-resource development projects.

4-02 **RECREATION RESOURCES.** The recreation resources at Prompton Lake are varied. The reservoir and its adjacent land offers opportunities for swimming, fishing, boating, picnicking, hiking, hunting and natural history interpretation.

4-03. **PLAN FOR RECREATION DEVELOPMENT.** A plan for preservation and partial development of the recreation resources has been developed by the Corps and coordinated with the Commonwealth of Pennsylvania. The scope of this plan has been limited to partial development of the resource because of terrain limitations and the authorized modification of Prompton Lake. It is expected that the project will become a multi-purpose project after 1980. The modification is explained in paragraph 6-01. The recreation plan for the existing Prompton project is discussed hereafter in terms of recreation development that has already been undertaken and development that is planned for use prior to modification.

4-04. **EXISTING RECREATION DEVELOPMENT.** Through the use of Code 710 funds, facilities were constructed by the Corps of Engineers in 1961 and expanded in 1965. The facilities constructed in 1961 consisted of an access road and a parking area for 750 automobiles. The access road, used also as a service road, extends from relocated State Route 170 to a point near the intake structure. The parking area is located north of the access road, about midway between State Route 170 and the lake. In 1965, a day-use public-access area was constructed on the left bank immediately upstream from the dam. Facilities added at that time included a bathing beach, change-house, sanitary facilities, trails, water supply facilities, picnic tables and fireplaces. A general view of existing facilities is shown on plate 1 and photograph 1. The swimming area is shown on Photographs 2 and 3. No new recreation facilities have been added since 1965.

4-05. **PLANNED RECREATION DEVELOPMENT.** In accordance with the lease (see appendix A) DA 36-109 CIVENG-66-319 signed 11 January 1966, and a letter dated 23 September 1968, concerning proposed recreational facilities for Prompton Lake (see appendix B), (Public Law 89-72) future development of recreation facilities will be accomplished cooperatively by the Corps of Engineers and the Pennsylvania Bureau of State Parks.

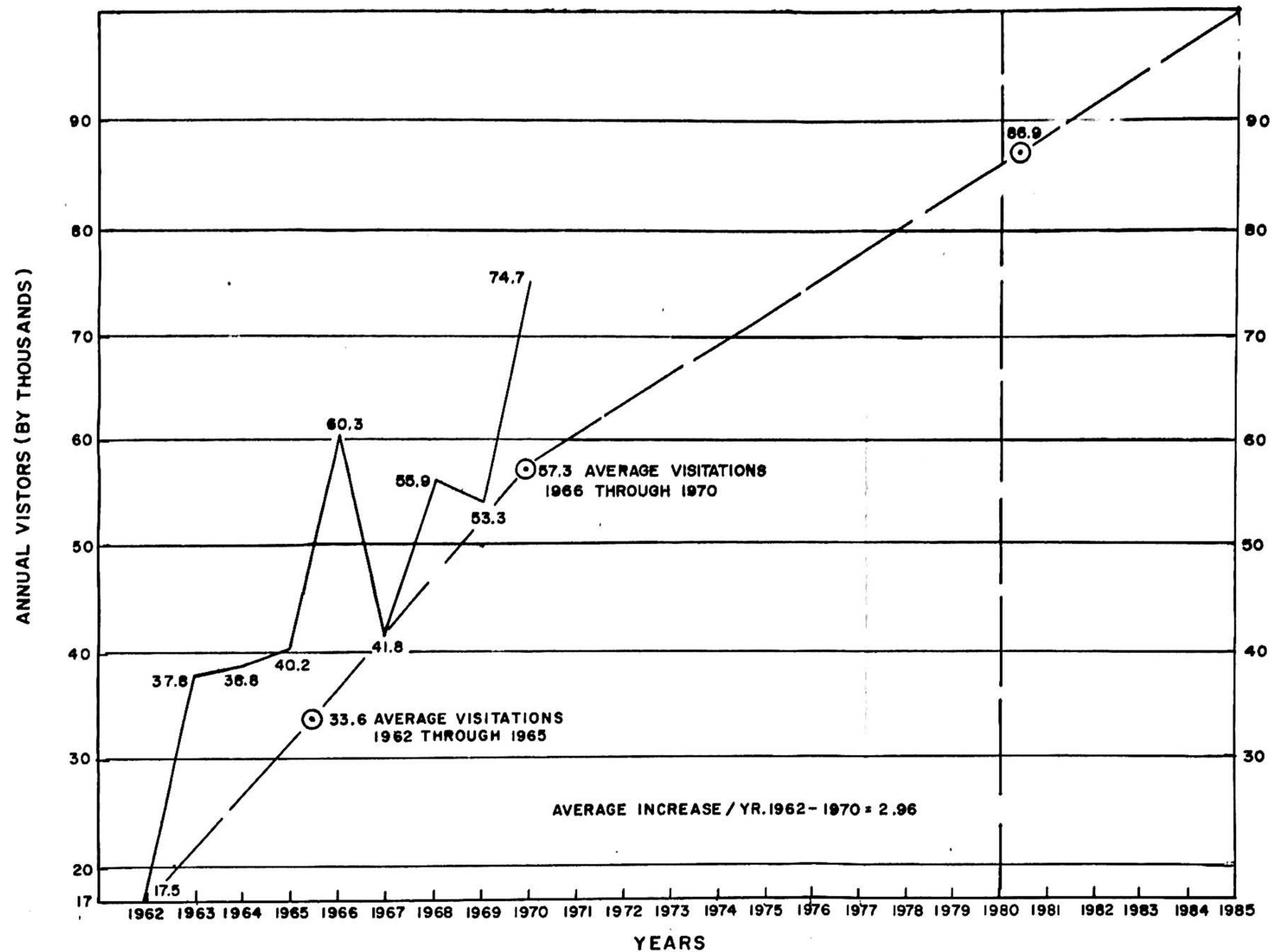
a. Estimated Demand

Table 4-1 and Chart 4-1 provide, respectively, the estimated annual attendances and design loads from 1968. Existing recreation facilities were

built as an expedient to partially meet public needs. No design load formula was used in the development of the existing facilities. Abrupt grades, both underwater and adjacent to the impoundment, the narrow configuration of project lands and the consideration of eventual project modification has limited recreation development to providing minimum facilities at the available small sites. The design load capacity of existing recreation facilities is 652. Based on actual annual visitation counts, the existing facilities should be expanded to accommodate a design load of 1013. It is estimated that by 1980, the design load requirement will increase to 1127 as seen in Chart 4-1. From 1962 until 1965, informal boat access to the impoundment was the only available water-oriented recreation open to the public. Notwithstanding this lack of facilities, an average annual visitation of 33,600 persons occurred from 1962 until 1965. The present recreation facilities have been available since 1966, except for boat launching facilities which were closed in 1967. New boat launching facilities, provided by the Commonwealth in 1970, and the other facilities attracted 74,700 visitors to the project in 1970. Chart 4-1 shows an extrapolation of this rate of yearly growth in graphical form. It is expected annual visitations will reach 86,100 persons by 1980. 1/

1/ Chart 4-1 reflects actual annual visitations from 1962 to 1970 in accordance with the figures reported on Engineer Form 2527.

PROMPTON RESERVOIR - ESTIMATE OF ANNUAL VISITORS TO 1980



SIGNIFICANT HISTORY

- 1962 - First minimal facilities available
- 1964 - Minimal boat launching available
- 1966 - Present facilities first available
- 1967 - Boat launch closed
- 1970 - Boat launch open

ANNUAL VISITORS

(BY THOUSANDS)

- ACTUAL COUNT
- - - AVERAGE PROJECTED ESTIMATE

TABLE 4-1
DESIGN LOADS AND ANNUAL ATTENDANCES -
1968 to TIME OF PROJECT MODIFICATION

	Proposed Plan	1980 <u>5/</u>	GDM No. 11 <u>5/</u> (Modification)
DL <u>1/</u>	1013 <u>2/</u>	1,127	2,025
Design Attendance	67,925	75,500	138,340
Sightseers <u>3/</u>	6,793 (10%)	11,300 (15%)	34,585 (25%)
Total Annual Attendance	74,700 <u>4/</u>	86,800	172,925

1/ Design loads (DL) are calculated by use of the formula below:

$$DL = \frac{Av \times .80 \times .30}{14 \times 1.15}$$

DL = Design Load. This is the number of people the facilities can accommodate at any one time.

AV = Estimated annual attendance (visitors).

.80 = Percent of use during a recreation season.

.30 = Percent of weekly attendance occurring on any normal Sunday.

14 = The number of weeks of a normal recreation season.

1.15 = Estimated turnover on day-use facilities on an normal Sunday.

2/ Actual Design Load derived by count of spaces available to accommodate persons at existing facilities is as follows: Swimming area (480), rental rowboats (42), picnic tables (80) downstream fishing (20), and boat launching (30) for a total Design Load of 652.

3/ Present sightseeing is negligible due to the small size of the project, lack of spectacular natural topographical features and the absence of an overlook area.

4/ Total attendance from Engineering Form 2527 for FY 1970.

5/ The difference in annual visitations estimated in GDM No. 11 and the figures projected for 1980 shown in chart 4-1 may result from the comprehensive scope of expanded recreation facilities after project modification which will attract visitors from a wider area.

b. Proposed Facilities and Design Load Capacities. The following plan for recreation development is considered to be an interim program. Locations of the proposed facilities may be found on plate 1. A comparison of present and anticipated 1980 design load capacities is shown in table 4-2.

TABLE 4-2
COMPARISON OF DESIGN LOAD CAPACITIES - 1969 and 1980

	<u>1969</u>	<u>1980</u>
Picnicking	80	210
Swimming	480	705
Boating	42	155
Downstream Fishing	<u>20</u>	<u>57</u>
	622	1127

(1) Corps of Engineers' Construction. The proposed plan, shown on plate 2, envisions expansion of the existing beach and a new sand blanket for the existing dryland and underwater portions of the swimming area. The area between the beach and the parking lot will be planted with trees and the existing interlinking trail system between the beach, change house area and the existing picnic area near the dam, will be rehabilitated. Picnic tables, fireplaces and trash cans will be installed in the forested area. Restorative tree planting will be accomplished at the existing parking area in conjunction with the new beach construction. Further rehabilitation in the beach area will include installation of steps, utilizing railroad ties as steps and risers, on the steep grade leading to the beach from the parking area. An additional small, gravel-surfaced, pull-off parking area will be constructed adjacent to the picnic area near the dam. Project modification will not affect that area. Trees, picnic tables, metal trail edging and wooden steps installed at the beach area will be salvaged at the time of project modification.

(2) Non-Federal Construction. A boat launching ramp, parking area, and vault latrine have been partially constructed by the Pennsylvania Bureau of State Parks near the center of the impoundment on the left bank. Completion of that facility will include a boat mooring line, further grading and landscaping. Most of the facility will not be salvageable at the time of project modification.

4-06. REGULATION OF PUBLIC USE. The regulations contained in the Federal Register of 21 October 1959, Title 36 - Parks, Forests, Land Memorials, Chapter III, Park 311, "Public Use of Certain Reservoir Areas", will be used in the operation and maintenance of Prompton Lake. Regulations prescribed for Pennsylvania's state parks will also be in effect at the project and will be administered by the Pennsylvania Bureau of State Parks which operates and maintains the recreation facilities.

SECTION V
COORDINATION WITH OTHER AGENCIES

5-01. DEPARTMENT OF THE INTERIOR.

a. In accordance with the intent of the Fish and Wildlife Coordination Act of 1958, there has been close coordination between the Fish and Wildlife Service and the Corps of Engineers. A letter from the Fish and Wildlife Service which can be found in appendix A., General Design Memorandum No. 11, contained the following recommendations:

(1) The entire project area should be open to free use by the public except such portions as may be reserved by the planning agency for purposes of safety, efficient operation or protection of public property.

(2) The project area should be managed by the Pennsylvania Fish Commission and the Pennsylvania Game Commission as a public fishing and hunting area.

(3) All normal flow releases should be made from near the bottom of the permanent pool.

(4) A flow of at least 10 c.f.s. should be maintained in the river below the lake, unless otherwise requested by the Pennsylvania Fish Commission, as a reservoir fishery preservation measure during extended periods of low inflow.

b. In accordance with the provisions of Section 4 of the Flood Control Act of 1944, a report was prepared by the National Park Service in 1947. That report stated that the Prompton Project had no national recreational significance and recommended that the Commonwealth of Pennsylvania develop facilities for recreation.

5-02. COMMONWEALTH OF PENNSYLVANIA.

a. All lands not needed for operation of the flood control project have been leased to the Pennsylvania Department of Environmental Resources, (née Forests and Waters) for administration and management of the recreation facilities constructed by the Corps of Engineers. The Department has assumed responsibility for enforcing regulations pertaining to public use of these facilities and the reservoir. The Secretary, Department of Environmental Resources, coordinates the use of the recreation facilities and the reservoir with the Pennsylvania Fish and Game Commissions to obtain maximum public benefits. A copy of the lease may be found in appendix A. It is the contention of the Department, concurred in by this office, that the yearly increase in annual attendance reflects the need for boating and picnicking facilities rather than for swimming. Crowded conditions at the swimming area are due to a small beach. The available bathing area is adequate. Correspondence relative to construction, may be found in appendix B. A resume of non-Federal operating expenses may be found in appendix B, pages B-6 and B-7.

b. While acting under a tentative agreement with the Corps of Engineers to furnish additional recreation facilities, the Department provided a pit latrine and improved a small area to permit boat launching. Those facilities were located on the left bank about 1000 feet upstream from the northern end of the reservoir, and were accessible via the abandoned portion of former State Route 170. Access to this launching area has subsequently been closed

due to the removal of a deteriorated timber bridge and the site was abandoned in 1967. Plans for the new site are filed in the District. Partial construction of the boat launching facility in 1970 permits limited public use until the facility is completed.

5-03. U. S. PUBLIC HEALTH SERVICE. Since the summer of 1963, algae has appeared intermittently in Prompton Lake. The presence of algae discourages fishing and swimming in the reservoir and deposits in the channel downstream of the dam have produced offensive odors. In conjunction with the Health Service and the Pennsylvania Fish Commission, a program has been developed to treat the upper three feet of the reservoir with copper sulfate as indicated by periodic laboratory examination of water samples. The treatment has been effective without being detrimental to the fishery. Correspondence concerning this subject may be found in appendix A., General Design Memorandum No. 11.

SECTION VI
PROJECT MODIFICATION

6-01. MODIFICATION OF THE PROMPTON PROJECT. Congress authorized modification of the Prompton Project in the Flood Control Act of 1962 (P.L. 87-874). In accordance with the recommendations of the Chief of Engineers contained in House Document 522, 87th Congress, 2d Session, entitled "Delaware River Basin, New York, New Jersey, Pennsylvania and Delaware", Prompton Dam and Lake will be modified to become a multi-purpose project to provide water supply, and recreation benefits as well as flood control. The impounding structure, when modified, will have a control tower with a service bridge, gates to control reservoir releases, a widened spillway and a blanket of impervious material on the valley floor upstream from the dam. Creation of a modified structure, as contemplated, will result in a permanent pool of 730 acres at elevation 1,180. According to the project document, modification of Prompton will be required by about 1974, however, investigations by the Delaware River Basin Commission indicate that additional water storage will not be required before 1980. Refer to letter in appendix A, General Design Memorandum No. 11. The plans for recreation development at the multi-purpose project would provide for day-use activities such as picnicking, boating, swimming, fishing and hiking. Facilities would also include those for camping in addition to the facilities now existing at the project.

SECTION VII
COST ESTIMATES

7-01. COST ESTIMATES. The current working estimate of the recommended recreation facility expansion is presented below. Federal and non-Federal detailed cost breakdowns and operational costs prepared by the Pennsylvania Department of Forests and Waters may be found in appendix C. The cost of the Federal construction will be funded from Code 710 funds. It is assumed that the work will be accomplished using service contracts except for installation of the path and steps which will be accomplished by Corps personnel.

	<u>Recreation Feature</u>	<u>Total Contract Cost</u>
Federal	Swimming Area	\$ 9,200
	Grading	3,700
	Path & Steps	2,100
	Picnic tables	2,000
	Site work (landscaping, seeding fertilizer)	5,500
	Parking lot	2,500
	Contingencies - EDS & A	<u>7,000</u>
TOTAL	TOTAL FEDERAL	\$ 32,000
Non-Federal	Boat launching ramp & mooring beach	3,500
	Parking area	8,500
	Access road	18,000
	Site work	5,000
	Contingencies - EDS & A	<u>7,000</u>
	TOTAL NON-FEDERAL	\$ 42,000

SECTION VIII
PROJECT MANAGEMENT

8-01. ADMINISTRATION. The District Engineer, Philadelphia, will have the responsibility of administering the Master Plan and updating it as required. In addition, he will be responsible for administration of leases, licenses and permits. He will also be concerned with determining the nature and extent of development, recording activities relative to policies and regulation, relations with other agencies and public relations.

8-02. OPERATION AND MAINTENANCE.

a. Corps of Engineers

(1) The following staff is required for project operation and maintenance involving reservoir regulation, flood control and water supply.

1 Dam Tender, W-08	\$8,000 p.a.
1 Dam Tender, W-05	7,000 p.a.
TOTAL (includes leave and estimated overtime)	15,000 p.a.

(2) Estimated annual costs of operation, maintenance and replacement:

Buildings, grounds, and equipment	\$19,000
Utilities	1,000
Supplies and materials	5,500
Vehicle costs	4,000
District overhead (Engineering, S&I, Radio Net)	20,000
Recreation (Visitors Center; Recreation Surveys)	2,500
Stream Gaging	3,000
SUBTOTAL	55,000
Salaries	15,000
GRAND TOTAL	70,000

(3) The major maintenance equipment assigned to the project is as follows:

Tractor, International, Model 340, 35 HP w/Frontend loader
Truck, International, 1 ton, 4 wheel drive pick-up w/dump body.
Sprayer, trailer-mounted, 250 gal. tank, 12 HP, 20 GPM w/300' of 5/8" hose.
Boat, 14' riveted aluminum, w/12 HP outboard engine and trailer.

b. Commonwealth of Pennsylvania. The Commonwealth of Pennsylvania has assumed responsibility for operation and maintenance of the recreation facilities. It is estimated that the annual operation budgetary requirement will be \$25,000. Refer to appendix B for detailed estimate.

SECTION IX
CONCLUSION AND RECOMMENDATION

9-01. CONCLUSION AND RECOMMENDATION.

a. It is concluded that expansion of existing recreation facilities will be necessary to accomodate present and increasing numbers of visitors anticipated at the project by 1980. Increasing in number each year, project visitors are over-utilizing existing facilities.

b. It is recommended that this Master Plan be approved as the basis for expansion of recreation facilities at the project.

PLATES

CORPS FEE ACQUISITION LINE (NOT SHOWN IF WITHIN RIGHT-OF-WAY OF STATE ROUTE 170)
EASEMENT TAKING LINE (NOT SHOWN IF WITHIN RIGHT-OF-WAY OF STATE ROUTE 170)
COMMONWEALTH OF PA FEE ACQUISITION LINE
PERMANENT POOL ELEV 1125.0

1180 LONG TERM STORAGE POOL ELEV.-FUTURE MODIFIED PROJECT

•• PICNIC UNIT (2 TABLES, 1 FIREPLACE)

 CHANGE HOUSE
 DRINKING FOUNTAIN
 LATRINE

EXISTING TRAIL

NEW TRAIL

EXISTING WOODS

NEW TREES

EXISTING SWIM AREA

AREA RESERVED BY CORPS OF ENGINEERS FOR PROJECT OBM

BOAT LAUNCHING SITE TO BE DEVELOPED
BY COMMONWEALTH OF PA.

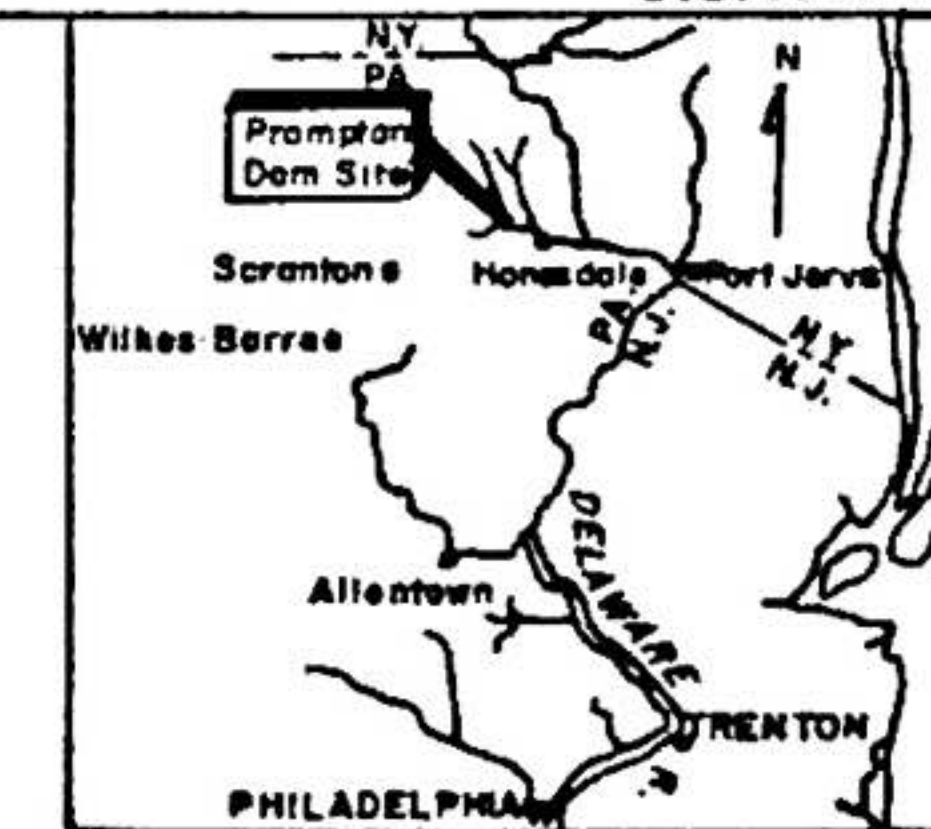
COMMONWEALTH OF PA.
FEE ACQUISITION LINE
FOLLOWS
EASEMENT TAKING LINE

COMMONWEALTH OF PA. FEE ACQUISITION LINE FOLLOWS STATE ROUTE 170

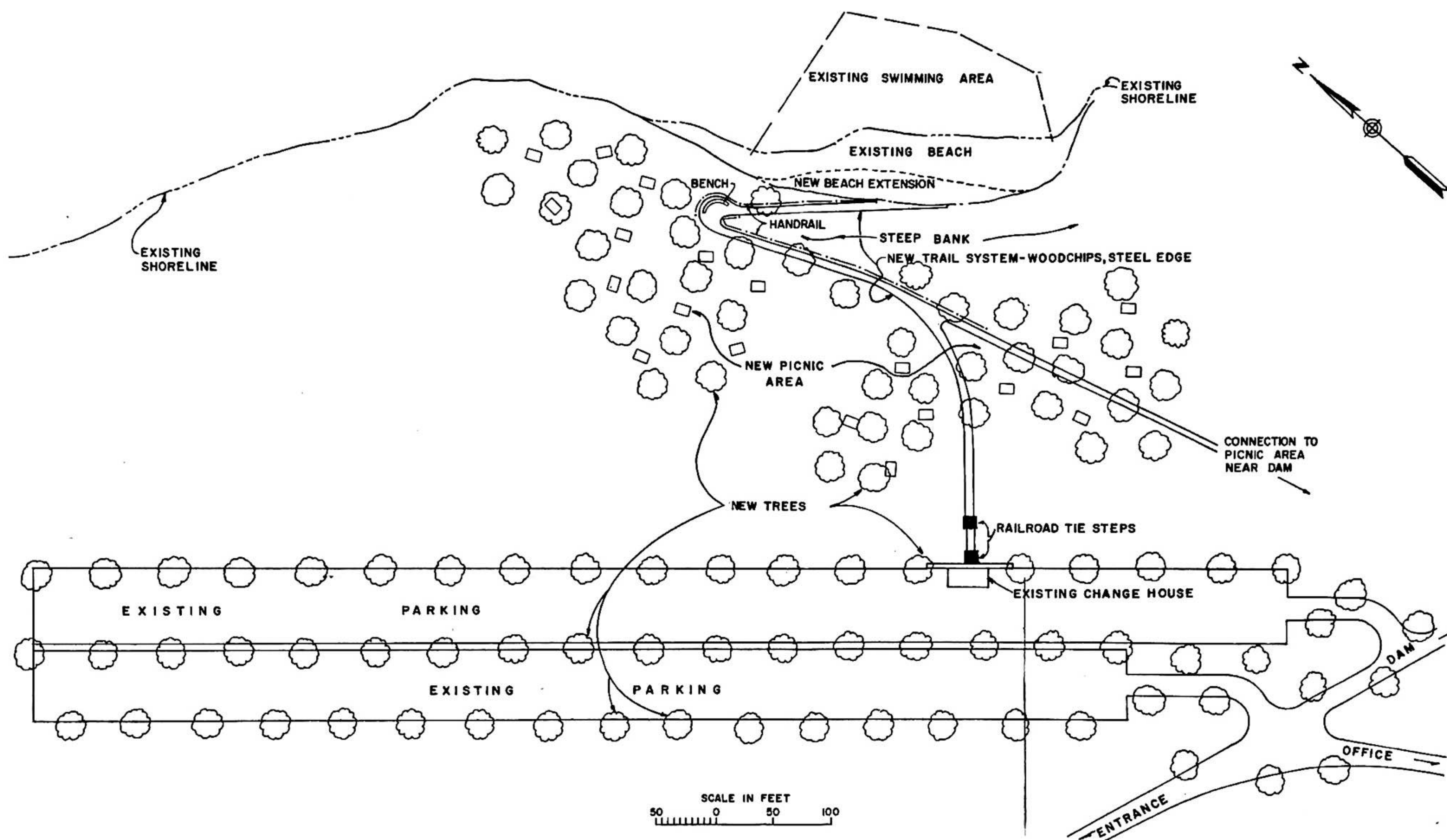
Scale of feet
400 0 400 800

LACKAWAXEN RIVER BASIN
LACKAWAXEN RIVER, PA.
PROMPTON DAM & RESERVOIR
GENERAL DEVELOPEMENT
PLAN

REVISED D.M.NO. 9 PLATE I

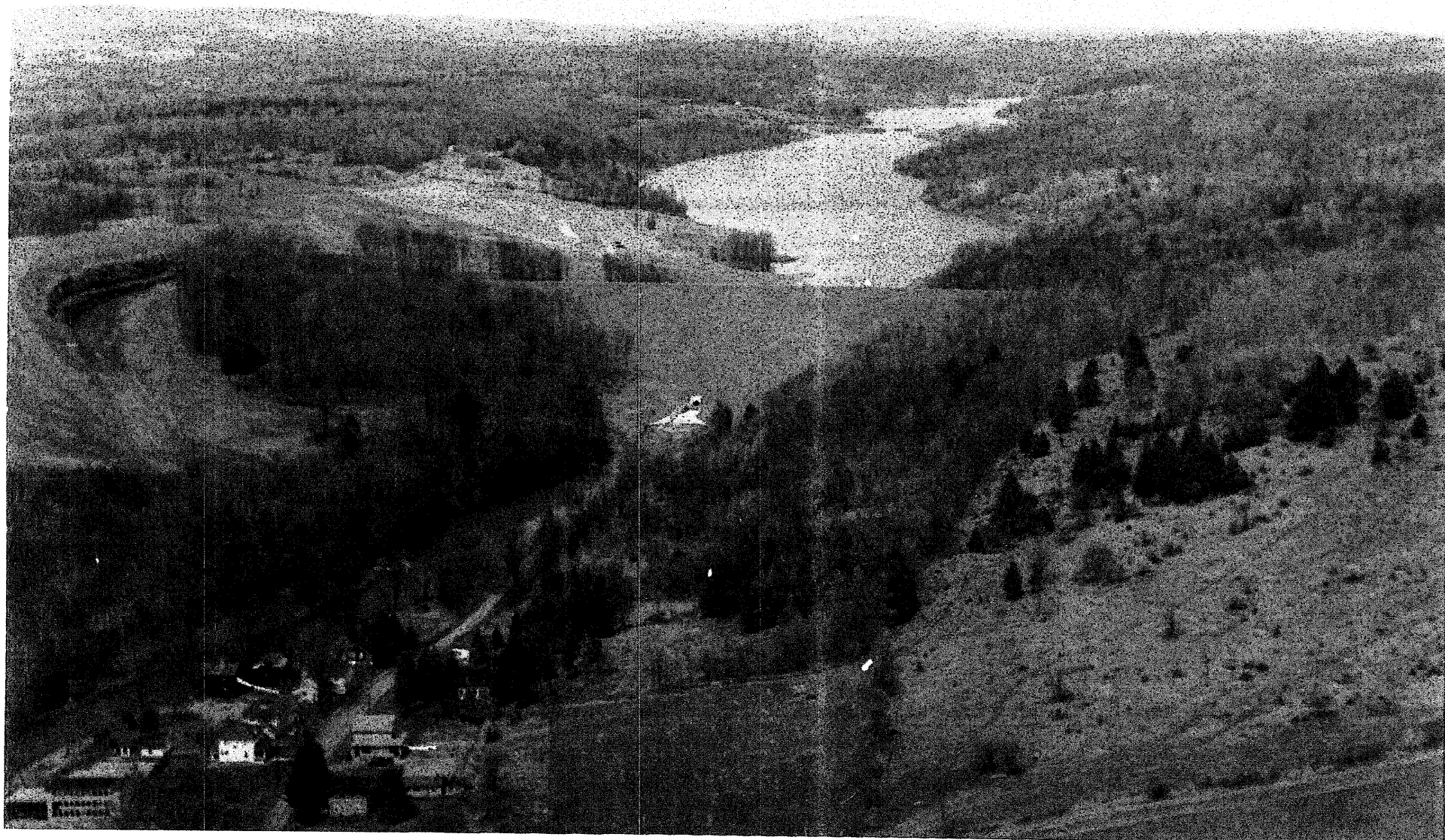


LOCATION MAP
SCALE OF MILES
0 20

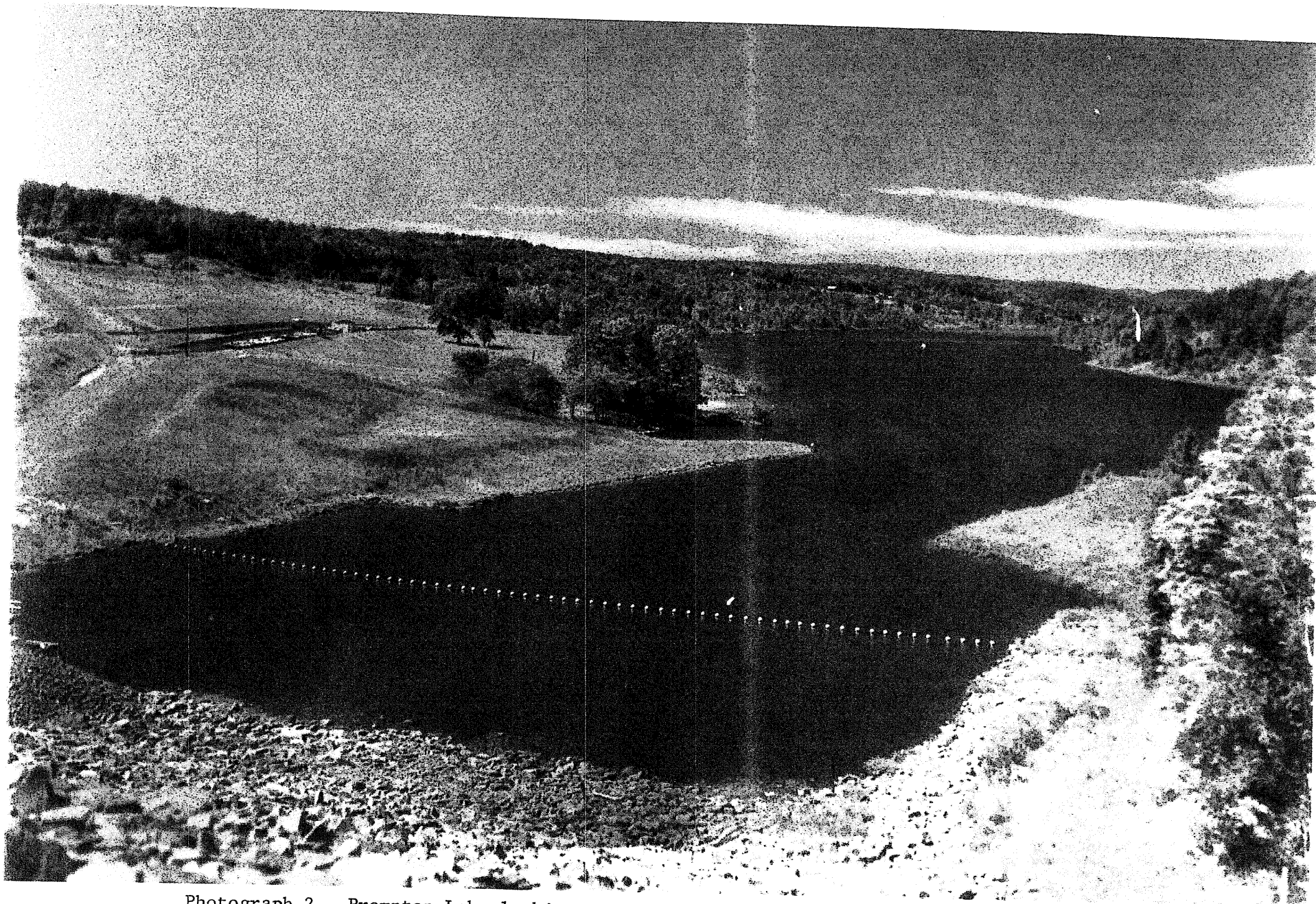


LACKAWAXEN RIVER BASIN
LACKAWAXEN RIVER, PA.
PROMPTON DAM & RESERVOIR
**PROPOSED
RECREATION FACILITIES**

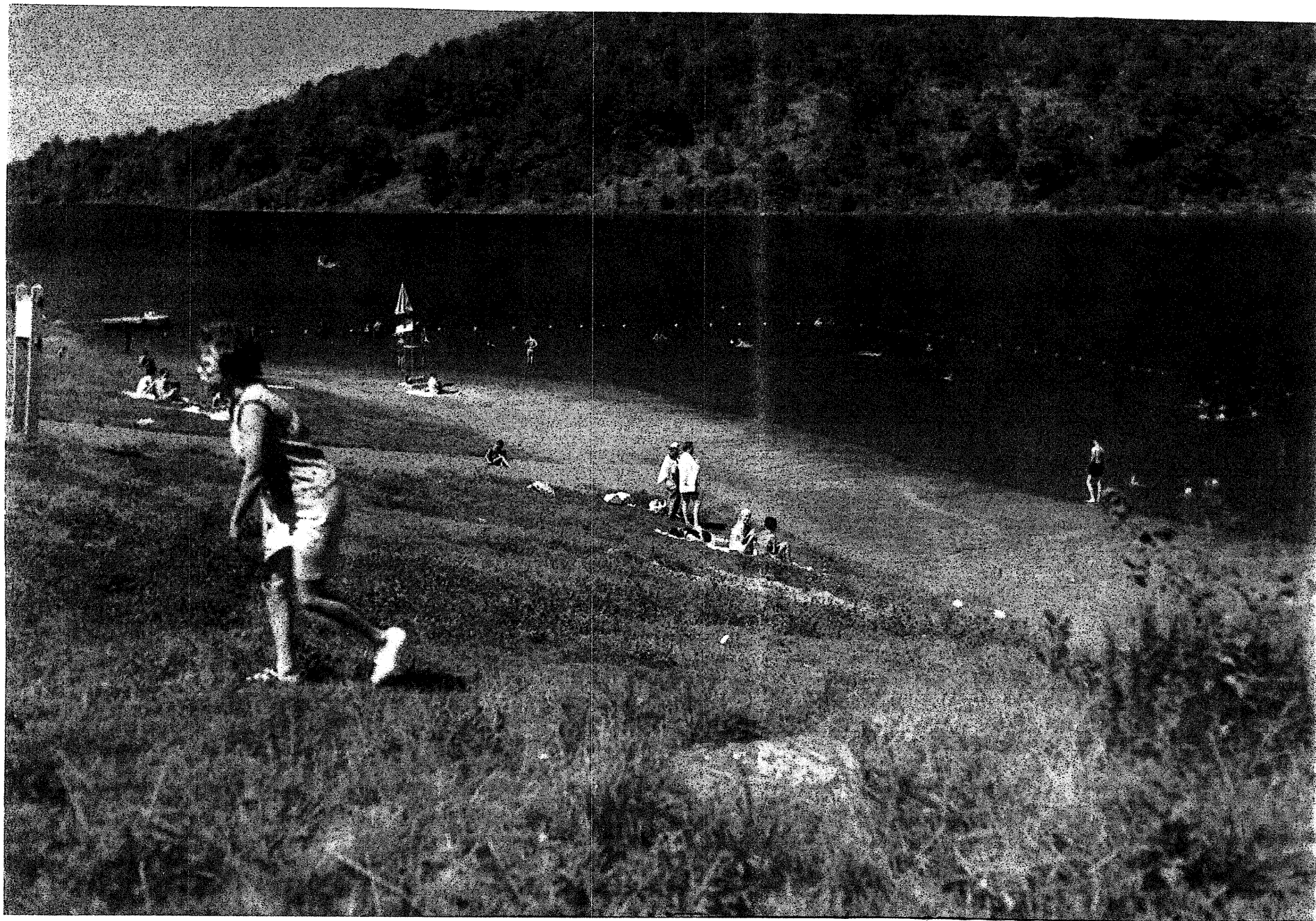
PHOTOGRAPHS



Photograph 1. Prompton Lake. Looking north from Borough of Prompton.



Photograph 2. Prompton Lake looking north from top of dam. Swimming area is on left peninsula, change house on parking lot.



Photograph 3. Prompton Lake - Swimming area.

APPENDIX A

LEASE

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES
(FORMERLY DEPARTMENT OF FORESTS & WATERS)

DEPARTMENT OF THE ARMY

LEASE

DA-36-109-CIVENG-66-319

FOR PUBLIC PARK AND RECREATIONAL PURPOSES

PROMPTON DAM and

RESERVOIR AREA

THE SECRETARY OF THE ARMY under authority of Section 4 of the Act of Congress approved 22 December 1944, as amended (76 Stat. 1195; 16 U.S.C. 460d), hereby grants to The Commonwealth of Pennsylvania, acting through the Department of Forests and Waters a lease for a period of fifty (50) years commencing on 11 Jan 1966 , and ending on 10 Jan 2016 , to use and occupy approximately 497 acres of land and water areas under the primary jurisdiction of the Department of the Army in the PROMPTON RESERVOIR Project Area, as shown in red on Exhibit "A" , numbered _____, dated _____, attached hereto and made a part hereof, for public park and recreational purposes.

THIS LEASE is granted subject to the following conditions:

1. That the lessee, in the exercise of the privileges hereby granted, shall conform to such rules and regulations as may be prescribed by the Secretary of the Army to govern the public use of the said project area, and with the provisions of Section 4 of the Act of Congress approved 22 December 1944, as amended (76 Stat. 1195).

2. That the lessee shall administer and maintain the said property for the purposes of this lease, in accordance with the Corps of Engineers' Master Plan and the implementing General Development Plan for said property and with an Annual Management Program to be mutually agreed upon between the lessee and the District Engineer, Corps of Engineers, in charge of the administration of the property, 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 Corps of Engineers and the lessee, including buildings, 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.

3. That all structures shall be constructed and landscaping accomplished in accordance with plans approved by the District Engineer.

4. That the lessee shall protect the property from fire, vandalism, and soil erosion, and may make and enforce such rules and regulations as are necessary, and within its legal authority, in exercising the privileges granted in this lease, provided that such rules and regulations are not inconsistent with those prescribed by the Secretary of the Army to govern the public use of the project area.

5. That the lessee shall, in exercising its governmental or proprietary functions, provide the facilities and services necessary to meet the public demand for the use of the area for public park and recreational purposes, either directly or through concession agreements with third parties. Such concession agreements shall be subject to the prior approval of the District Engineer. In addition, all rates and prices charged by the lessee or its concessionaires for facilities and services furnished or sold to the public shall be subject to the prior approval of the District Engineer. No charges or fees may be imposed for admission to all or any part of the leased area or for the use of boat ramps, bathing beaches, camping areas, parking lots, picnic areas and other basic facilities.

Reasonable charges and fees may be imposed for the use of special facilities and services furnished by the lessee or its concessionaires, provided, each person has the right to elect whether he desires to use such special facilities and services without abrogating his privilege to use the leased area and basic facilities without charge. Examples of special facilities and services for which charges and fees may be imposed are: mechanical or personal assistance in boat launchings; bathhouse and clothes checking facilities; firewood, utilities, and hot showers; personal care and protection of watercraft; etc. Monies received by the lessee from operations conducted on the area included in this lease or received from its concessionaires may be utilized by the lessee for the administration, maintenance, operation and further development of the area included in this lease. Any such monies not so utilized shall be paid to the said District Engineer at the expiration of each 5-year period of this lease. 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 the said District Engineer.

6. That the right is hereby expressly reserved to the United States, its officers, agents, and employees, to enter upon the said land and water areas at any time and for any purpose necessary or convenient in connection with river and harbor and flood control work, and to remove therefrom timber or other material required or necessary for such work, to flood said premises when necessary, and/or to make any other use of said 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.

7. That 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 said District Engineer.

8. That 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 said premises at their invitation or the invitation of any one of them, arising from or incident to the flooding of said premises by the Government or flooding from any other cause, or arising from or incident to any other governmental activities on the said premises, and the lessee shall hold the United States harmless from any and all such claims.

9. That this lease may be relinquished by the lessee at any time by giving to the Secretary of the Army, through the said District Engineer, at least thirty (30) days' notice in writing.

10. That 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 thirty (30) days after notice thereof in writing by the said District Engineer.

11. That on or before the date of expiration of this lease or its relinquishment by the lessee, the lessee shall vacate the said Government premises, remove all property of the lessee therefrom, and restore the premises to a condition satisfactory to the said District Engineer. If, however, this lease is revoked, the lessee shall vacate the premises, remove said 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 said property and so restore the premises, then said 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.

12. That the lessee or its concessionaires shall not discriminate against any person or persons because of race, religion, color or national origin in the conduct of its operations hereunder.

13. That all notices to be given pursuant to this lease shall be addressed, if to the lessee, to The Commonwealth of Pennsylvania, Department of Forests and Waters, Division of State Parks, Harrisburg, Pennsylvania, if to the Government, to the U. S. Army Engineer District, Philadelphia, Corps of Engineers, Custom House, 10th and Chestnut Streets, Philadelphia, Pennsylvania 19106

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.

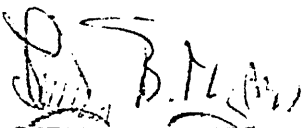
14. The lessee takes this lease and the leased premises subject to all existing easements, and easements subsequently granted during the period of said lease for electric transmission, telephone, telegraph, water, gas, gasoline, oil and sewer lines, and other utilities located or to be located within the area covered by this lease, 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.

15. Any explanatory signs or directional signs provided by the lessee shall include appropriate wording or the Engineers castle to indicate that the lands are a part of the U. S. Army Corps of Engineers project. Design and wording shall be approved by said District Engineer before erection.

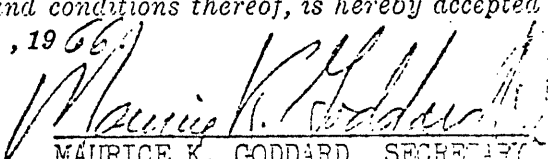
16. That the lessee shall exercise reasonable precautions to keep persons using or visiting the park and recreation area confined within the boundaries of the areas covered by this lease so as to avoid trespass on adjoining or adjacent property. Such precautions may include but are not limited to posting, fencing and patrolling as necessary, provided, however, that no inappropriate structure shall be located below the top of dam elevation.

(See Continuation Sheets)

IN WITNESS WHEREOF I have hereunto set my hand this 12th day
of ~~January~~ 1966, by direction of the Assistant
Secretary of the Army.


SHERRY B. MYERS
Staff Asst (Real Property)
Mil Const and Real
Property OASA (I&L)

The above instrument, together with the provisions and conditions thereof, is hereby accepted
this 23rd day of May, 1966.


MAURICE K. GODDARD, SECRETARY
DEPARTMENT OF FORESTS AND WATERS

Continuation Sheet:

17. The lessee may provide additional facilities and shall provide all services necessary to meet the public demand for the use of the area for public park and recreational purposes either direct or through concession agreements with third parties. All concession agreements shall expressly state that they are granted subject to all of the terms and conditions of this lease and that the concession agreement will not be effective until the terms and conditions thereof are approved by the District Engineer.

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

19. The amount of any fees to be charged by the lessee and all rates and prices charged by the lessee or its concessionaires for accommodations, and services furnished or sold to the public shall be subject to regulations and the prior approval of the District Engineer. The lessee shall, not less than 15 days prior to 30 April and 31 October of each year that this lease remains in effect, submit to the District Engineer for approval a list of the fees, rates and prices proposed for the following six months. The lessee shall furnish justification for any proposed fee, rate or price 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.

20. All monies received by the lessee from operations conducted on the leased 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 leased premises. Any such monies not so utilized by the lessee, or programmed for utilization within a reasonable time, shall be paid to the District Engineer at the expiration of each five-year period of this lease. The lessee shall establish and maintain adequate records and accounts and render annual statements of receipts and expenditures to the District Engineer.

Continuation Sheet:

21. That the lessee shall furnish annually, by not later than 15 December of each year, a report of park activities including monthly attendance and usage of the area during the preceding twelve months in a form and content as prescribed by said District Engineer, including an accounting of receipts and disbursements from use of the leased property, as well as costs of capital improvements, maintenance and operating costs.

22. That this lease may be assigned by the lessee to the General State Authority of the Commonwealth of Pennsylvania with respect to any portion or portions of the leased property required by The General State Authority for projects of the Authority as authorized by Act No. 34 of the 1949 Session of the General Assembly of the Commonwealth of Pennsylvania, approved 31 March 1949, Public Law 372.

Conditions: 5 deleted and 15, 16, 17, 18, 19, 20, 21 and 22, were added hereto prior to execution.

APPENDIX B

CORRESPONDENCE

1. PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL
RESOURCES (FORMERLY DEPARTMENT OF FORESTS & WATERS)



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF FORESTS AND WATERS
HARRISBURG
17120

September 23, 1968

Colonel W. W. Watkin, Jr.
Corps of Engineers, Philadelphia
Department of the Army
Custom House
Second and Chestnut Streets
Philadelphia, Pennsylvania 19106

Dear Colonel Watkin:

During the 1968 summer season, members of this Bureau have been in contact with Messrs. Chute, Farley, Campbell and Guský of your staff, concerning proposed recreational facilities for Prompton Reservoir Project, Pennsylvania.

At a recent meeting of our respective representatives, held in Harrisburg on September 5, 1968, your personnel requested that this Department provide a written statement of the various determinations and understandings attained.

The responsibility of both agencies is indicated on the enclosed print.

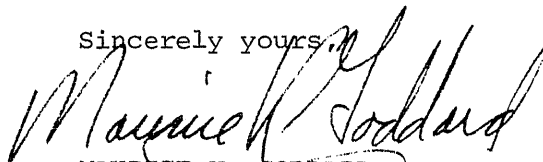
This Department will construct the public boat launching, mooring and boat concession facilities at the changed location shown.

The Corps will extend the public swimming facilities and provide off-road parking in the vicinities designated.

On receipt of your concurrence, we will commence boat facility development as we wish to complete rough grading this fall.

Enclosure

Sincerely yours,


MAURICE K. GODDARD

NAPRE-M

7 NOV 1963

Dr. Maurice E. Goddard, Secretary
Department of Forests and Waters
Commonwealth of Pennsylvania
Harrisburg, Pennsylvania 17120

Dear Doctor Goddard:

This is in reply to your letter of 23 September 1963 concerning proposed development of certain recreation facilities at Paxon Dam and Reservoir Project, Wayne County, Pennsylvania.

In accordance with paragraph 2 of your Lease No. DA-36-109-CIVENG-6A-319, you are authorized to proceed with the rough grading of the boat launching site. The proposed plan for relocation of the facility as indicated on the map forwarded with your letter appears to be satisfactory. Prior to further construction, the detailed plans and specifications of the launching ramp and other facilities must be submitted to this office for review and approval in accordance with paragraph 3 of your lease. Although construction of the boat launching facility is not covered in our current master plan for recreational development, tentative approval of the proposed modification has been received and when the master plan is revised it will be included.

Expansion of the beach and parking area is being studied. I shall keep you informed as to our progress toward construction of these facilities.

Sincerely yours,

JAMES A. JOHNSON
Colonel, Corps of Engineers
District Engineer



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF FORESTS AND WATERS
HARRISBURG
17120

December 23, 1969

Mr. L. A. Duscha
Chief, Engineering Division
Philadelphia District
U. S. Army Corps of Engineers
Custom House, 2D and Chestnut Streets
Philadelphia, Pennsylvania 19106

Dear Mr. Duscha:

We have reviewed your plan for proposed facilities to be constructed at Prompton Reservoir, Wayne County, Pennsylvania

We are in general agreement with your proposal, but question the need for construction of a new beach and swimming area. Our swimming attendance records indicate that the existing beach with your proposed new beach extension will be adequate.

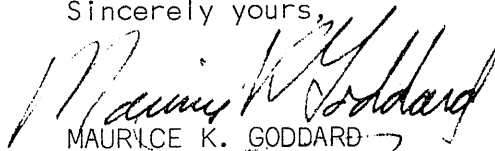
The following swimming figures are taken from our attendance records:

	<u>1969</u>	<u>1968</u>
May	200	
June	2,645	3,211
July	6,545	10,200
August	7,450	5,270
September	<u>650</u>	<u>100</u>
TOTAL	17,490	18,781

I have enclosed a copy of our preliminary plan and profile and our preliminary cost estimate for construction of the temporary boating facility by this Department.

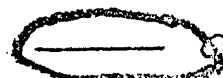
The access road has been rough graded. The remaining work will be accomplished as funds are made available. Upon completion of construction, we will furnish you with "as built" plans and total cost of construction.

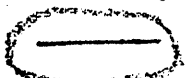
Sincerely yours,


MAURICE K. GODDARD

Enclosure

LEGEND

 CONSTRUCTION BY FORESTS & WATERS

 CONSTRUCTION BY CORPS OF ENGINEERS

9/19/61

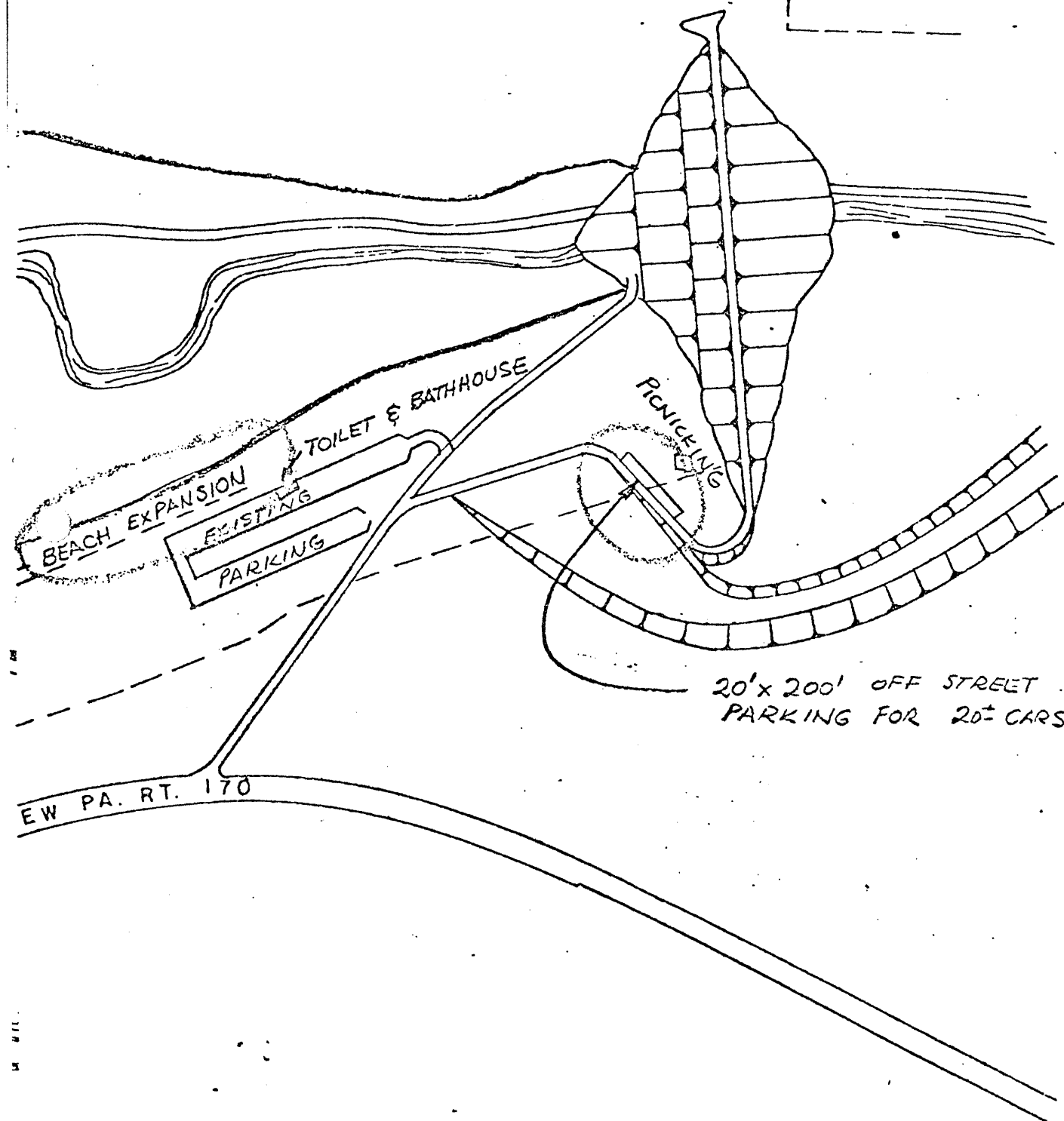
COMPOSITE TRACING

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF FORESTS & WATERS
DIVISION OF STATE PARKS

PROPERTY MAP
PROMPTON DAM STATE PARK

SCALE 1" = 400'	DRAWN BY	DRAWING NUMBER 163-0-3
DATE 1-22-63	TRACED BY R. J. MATTER	
	CHECKED BY	

WAL



B-3b

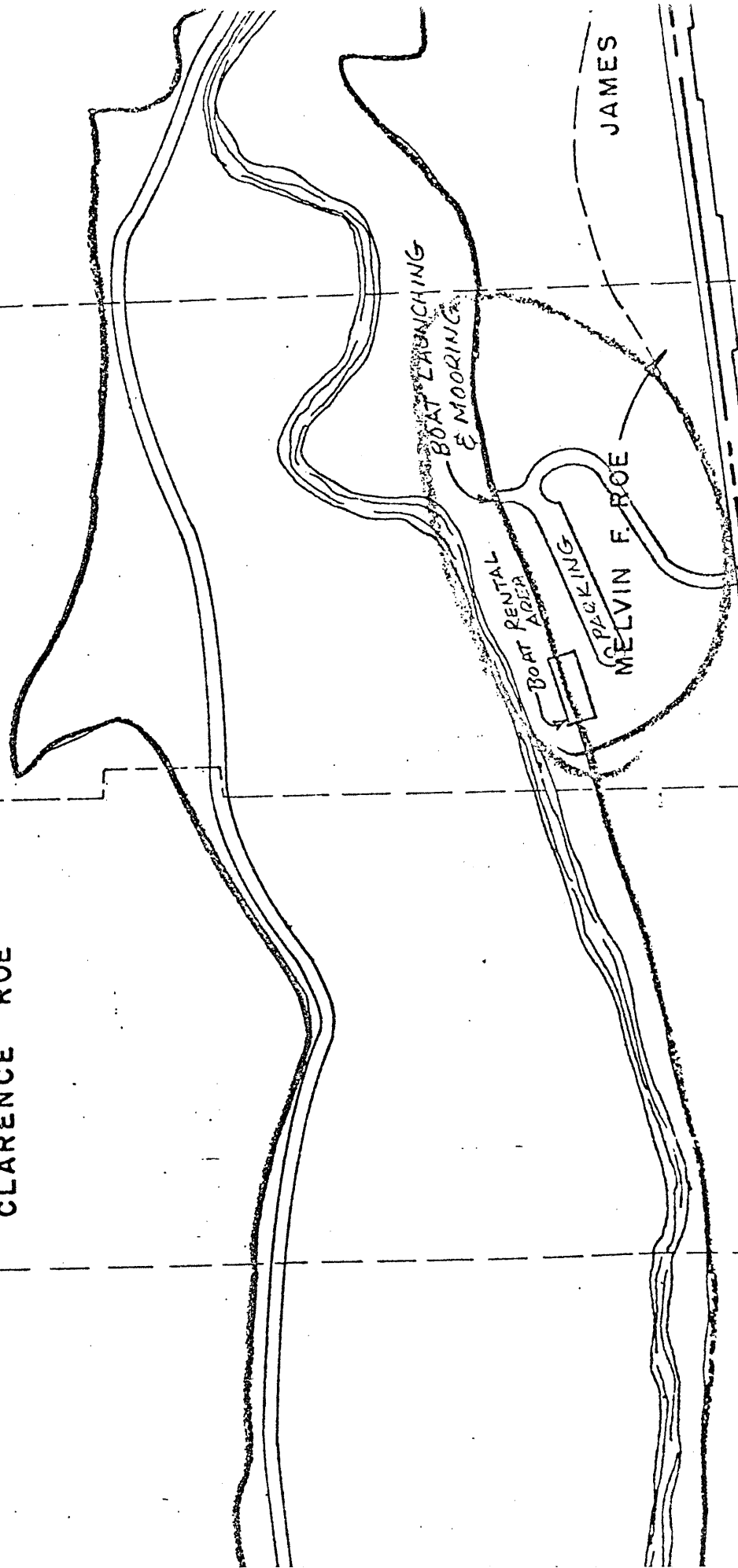
PROMPTON

FRED L. LOW

MELVIN F. ROE

JAME

CLARENCE ROE





DEPARTMENT OF ENVIRONMENTAL RESOURCES
COMMONWEALTH OF PENNSYLVANIA
~~DEPARTMENT OF FORESTS AND WATERS~~
HARRISBURG
17120

February 4, 1971

Colonel Carroll D. Strider
Philadelphia District
Corps of Engineers
Department of the Army
2D and Chestnut Streets
Philadelphia, Pennsylvania 19106

Dear Colonel Strider:

The following information is a report on Prompton State Park:

BUDGET FOR CALENDAR YEAR 1971

Object 100 (Salaries)	\$ 7,029.00
Object 121 (Wages)	14,975.00
Object 210 (Contracted Repairs)	None
Object 300 (Materials and Supplies)	2,550.00
TOTAL	\$24,554.00

PERSONNEL USED IN OPERATION AND MAINTENANCE

1	Laborer	Full-time
2	Laborer	Part-time
1	Lifeguard Supervisor	Part-time
3	Lifeguards	Part-time

In addition to the above, the Superintendent and Clerk-Typist at Tobyhanna State Park (January to June and the Superintendent at Lackawanna State Park (July to December) performed work as required at Prompton State Park. Their salary has been prorated and included in Object 100 (Salaries).

1970 EXPENDITURES

Object 100 (Salaries)	\$ 6,832.36
Object 121 (Wages)	7,388.72
Object 210 (Contracted Repairs)	None
Object 300 (Materials and Supplies)	6,856.45
TOTAL	\$21,077.53

APPENDIX C
COST ESTIMATES

CONSTRUCTION COST ESTIMATES
 PROMPTON DAM-BEACH RENOVATION

ITEM	<u>QUANTITY</u>	<u>COST</u>
1. Excavation, grading and fill	4000 cy	3200
2. Sandfill	1500 cy	9150
3. Seeding and fertilizing	2.5 ac LS	460
4. Footpath	2800 LF	1590
5. Steps	LS	330
6. Relocation of trees, incl. supervision	110	4950
7. Picnic units (2 tables, 1 fireplace		
1 trashcan	10	2000
8. Bench	1	100
9. Handrail	425 LF	1060
10. Gravel parking lot, wood guard rail	4000 SF	1950
11. Equipment mobilization and demobilization		800
12. Layout		200
	Sub-Total	25,790
	Contingencies 12%	3,095
	EDS&A 12%	3,466
	Total	32,351
Non-Federal estimate	Total	42,262

BOAT LAUNCHING AND MOORING FACILITY
PRELIMINARY COST ESTIMATE
PROMPTON STATE PARK

BUREAU OF STATE PARKS
DEPARTMENT OF FORESTS AND WATERS

Roadway - 2 lane, 18' width, select material surfacing, 3' shoulders

± 1425 L.F., including cuts and fills, rough and finish grading, shoulders, prepared sub-base and 6" select material surfacing: \$18,000

Parking Lot

80' x 200' (±), including rough and finish grading, prepared sub-base, 6" select material surfacing and 2' shoulders: 8,500

Boat Launching Ramp and Mooring Beach

30' x 60' Approximately, 6" R.C.C. pavement on 12" stone base. Includes rough grading, finish grading and mooring rail. This cost is assuming water level is down and no coffer dam required. Otherwise, add approximately \$1,500 + for coffer dam and pumping. The R.C.C. ramp is recommended for a better installation. The work involved in constructing a crushed aggregate ramp, as shown on the plan, will result in the same approximate cost. 3,500

Site Work

Seeding and Sodding, etc. 5,000

Sub Total \$35,000

Administration and Design - 15% 5,250

Sub Total \$40,250

Contingencies - 5% 2,012

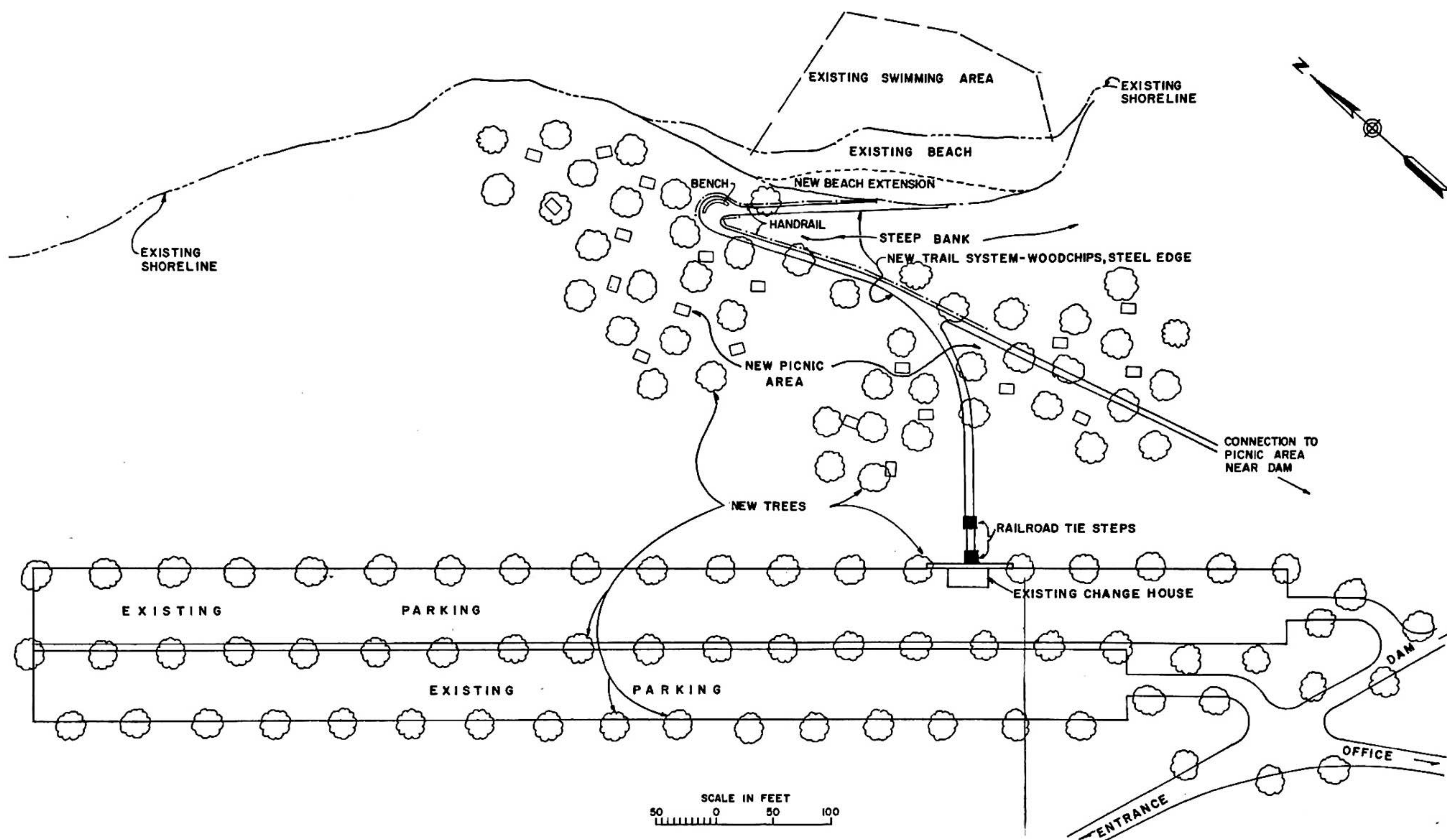
PROJECT TOTAL \$42,262

AREA RESERVED BY CORPS OF ENGINEERS FOR PROJECT OBM

Scale of feet
0 400

Scale of feet
400 0 400 800

REVISED D.M.NO. 9 PLATE I



LACKAWAXEN RIVER BASIN
LACKAWAXEN RIVER, PA.
PROMPTON DAM & RESERVOIR
**PROPOSED
RECREATION FACILITIES**