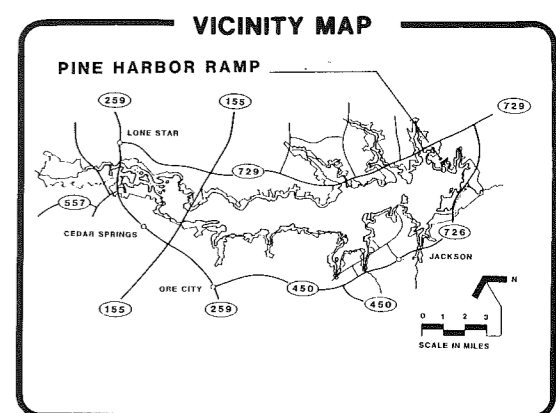


**BOAT LAUNCH AREA**  
**EXISTING**

- 2 LANE BOAT RAMP
- UNDEFINED, UNSURFACED PARKING

**PROPOSED**

- RE-ALIGN ROADWAY AS SHOWN
- 10 CAR/TRAILER PARKING AREA



**LEGEND**

**SYMBOLS**

**ROADS**

- EXISTING SURFACED ROADS
- - - EXISTING UNSURFACED ROAD
- PROPOSED SURFACED ROAD
- ▨ PROPOSED UNSURFACED ROAD
- EXISTING PARKING
- PROPOSED PARKING
- ▨▨▨ ROAD DELETION

**BUILDINGS**

- [CT] COMPOSTING TOILET
- [FV] FRAME VAULT TOILET
- [FW] FRAME WATERBORNE TOILET
- [MV] MASONRY VAULT TOILET
- [MW] MASONRY WATERBORNE TOILET
- [MS] MASONRY WATERBORNE WITH SHOWERS
- [FS] FEE CONTROL STATION
- EXISTING BUILDING
- PROPOSED BUILDING

**MISCELLANEOUS**

- E ■ P PICNIC UNIT(E-EXISTING), (P-PROPOSED)
- △ E ▲ P TENT CAMPSITE(E-EXISTING),(P-PROPOSED)
- ⬡ E ⬢ P GROUP SHELTER(E-EXISTING),(P-PROPOSED)
- ⊙ AMPHITHEATER
- ⊙ PLAYGROUND
- ⊙ FISHING PIER
- ⊙ COURTESY DOCK
- TRAIL-(A) ACCESS,(H) HIKING,(W) WALKING  
(E) EQUESTRIAN,(I) INTERPRETIVE
- ⊙ SANITARY DUMP STATION(E-EXISTING)  
(P-PROPOSED)
- ⊙ FISH CLEANING STATION

--- PROJECT BOUNDARY

▨▨▨ RECREATION SITE BOUNDARY

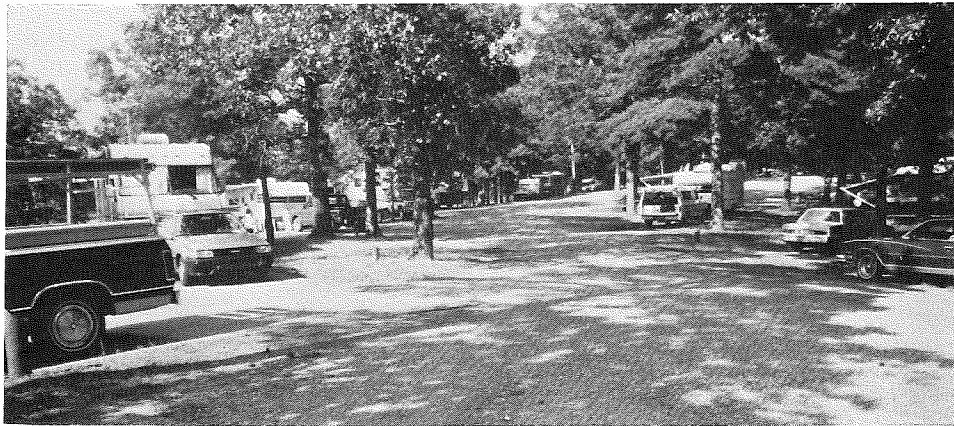
U. S. ARMY ENGINEER DISTRICT, FORT WORTH  
 CORPS OF ENGINEERS  
 FORT WORTH, TEXAS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 REVIEWED BY: \_\_\_\_\_

**LAKE O' THE PINES**  
 CYPRESS RIVER, TEXAS

**PINE HARBOR RAMP**

INVIATION NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_ NO. \_\_\_\_\_  
 DRAWING NUMBER 1 OF 1 SEQUENCE NO. 6-03



**BUCKHORN CREEK PARK**

6-05 BUCKHORN CREEK PARK

I. GENERAL DESCRIPTION

A. **SIZE:** 85 acres, of which approximately 45 acres are currently developed for intensive recreation use.

B. **LOCATION / ACCESS:** The park is located at the southeastern portion of the lake, on Highway 726.

C. **OPERATION:** The Corps of Engineers operates and maintains the park.

D. **PARK USE:** The primary use of the park is fee use /camping to accommodate both RV and tent camping. Boat launching facilities are also available at the park. Primary users consist of family groups from a 100 mile radius area. Park operation is currently seasonal, being open from March 1 to September 30.

II. SITE ANALYSIS

A. **TERRAIN:** The area consists of rolling to flat topography along the eastern portion of the park. On the western edge of the park, along the water inlet, the topography is steeper.

B. **VEGETATION:** The area vegetation is a predominant mix of hardwood-pine with scattered dominant pine stands. Understory vegetation is sparse.

C. **SITE USE / IMPACT CONCERNS:**

1. In RV camping areas, vehicle circulation is very poor. Most of the roadways are very narrow and accommodate one-way traffic only. Most of the parking spurs are oriented as if all roads are one way into the park. This makes it difficult to circle back and park in a stall has been passed by.

2. RV pad sites are grouped into high density areas, often unlevel and of insufficient length. Vehicle maneuverability is difficult at best.

3. Tent camping areas are located on unsurfaced, undefined roadways with no delineated parking areas nor leveled tent pads or table sites. Vehicles currently park on park land adjacent to tent areas, thereby creating a highly compacted, eroded area denuded of surfaced vegetation.

4. In the boat launch area, the existing roadway alignment allows for straight line vehicle access to the ramp with signs and speedbumps to slow vehicles approaching the lake. The car/trailer parking area is surfaced with no defined spaces.

### **III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

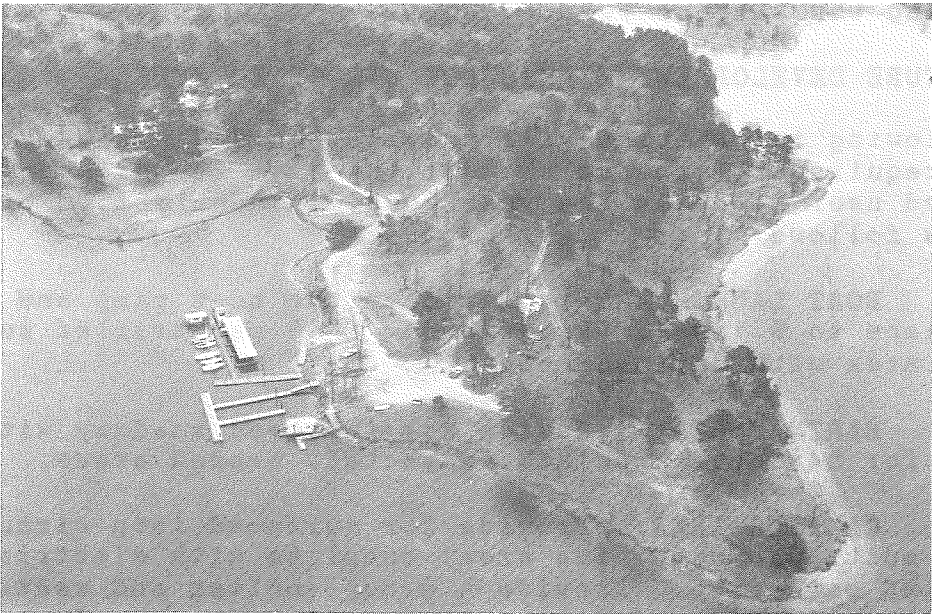
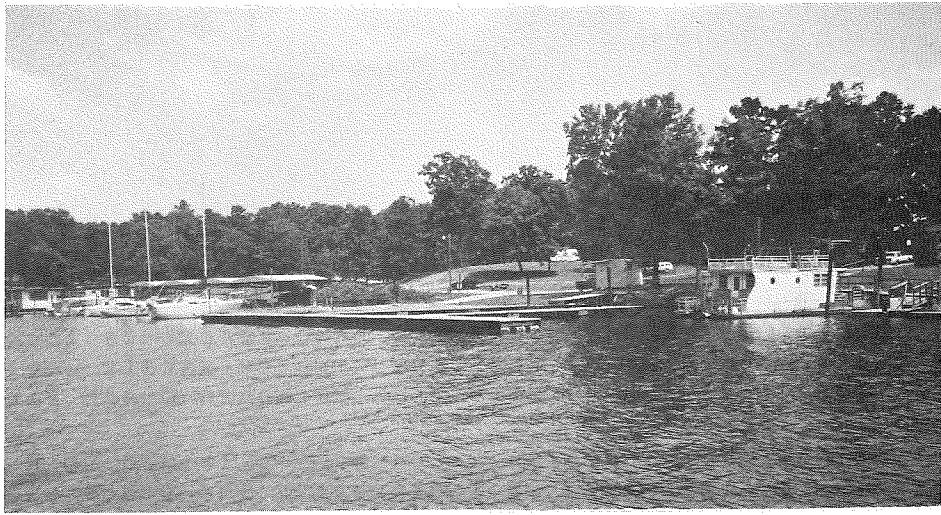
The following information will provide guidelines about the action required to enhance the current site features to meet the estimated user needs in the year 2005. A description of these features follows:

**A. BOAT LAUNCH AREA:** Re-align the road entry to prevent straight line access to the shoreline. Provide a turn-around for greater vehicle maneuverability. Provide a 25 car / trailer parking area. Provide a courtesy dock and a fish cleaning station.

**B. RV CAMPING AREAS:** In RV Camping Area No. 1, re-align the roadway into a one-way loop system. Delete designated pad sites to decrease the density of the area. Reorient pad sites to align with the loop system. Remove the existing frame vault toilet and replace with a masonry restroom. Reclaim compacted, eroded areas on the site. In RV Camping Area No. 2, extend existing loop system and delete portions of the roadway for ease of circulation. Reclaim compacted, eroded areas. A group RV camping area is proposed in the eastern portion of the site. This group camping area should include a group shelter, restroom, and overflow parking. All pad sites should have electrical/ water hook-ups.

**C. TENT CAMPING AREAS:** In both Tent Camping Areas No. 1 and No. 2, provide improved, surfaced roadways. Provide defined areas of cluster parking and install traffic barriers to prevent random parking throughout the area. Relocate tent sites at greater distances to reduce density and upgrade individual tent sites as to Chapter 7 recommendations.

**D. BEACH AREA:** Locate a beach area adjacent to Tent Camping Area No. 2. Provide parking for 22 cars and designate an area for picnic units.



# SUMMER LAKE RESORT

## **6-06 SUMMER LAKE RESORT**

### **I. GENERAL DESCRIPTION**

**A. SIZE:** 29 acres.

**B. LOCATION / ACCESS:** Summer Lake Resort is located on the northeastern portion of the lake, approximately one mile off of Highway 726, across the inlet from Buckhorn Creek Park.

**C. OPERATION:** The area is currently leased to a private concessionaire by the Corps of Engineers. The concessionaire operates and maintains the area.

**D. PARK USE:** The site serves as a private marina with boat launching facilities and camping.

### **II. SITE ANALYSIS**

**A. TERRAIN:** The area has a 0-2 percent slope.

**B. VEGETATION:** The site consists of both hardwood and pine stands, with sparse vegetation adjacent to the shoreline, becoming denser inland. Understory vegetation is sparse.

**C. SITE USE / IMPACT CONCERNS:**

1. The existing roadway and parking area has an unimproved surface and the parking is undefined. Random vehicle circulation occurs throughout the site, creating compaction and destroying the surface vegetation.

### **III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

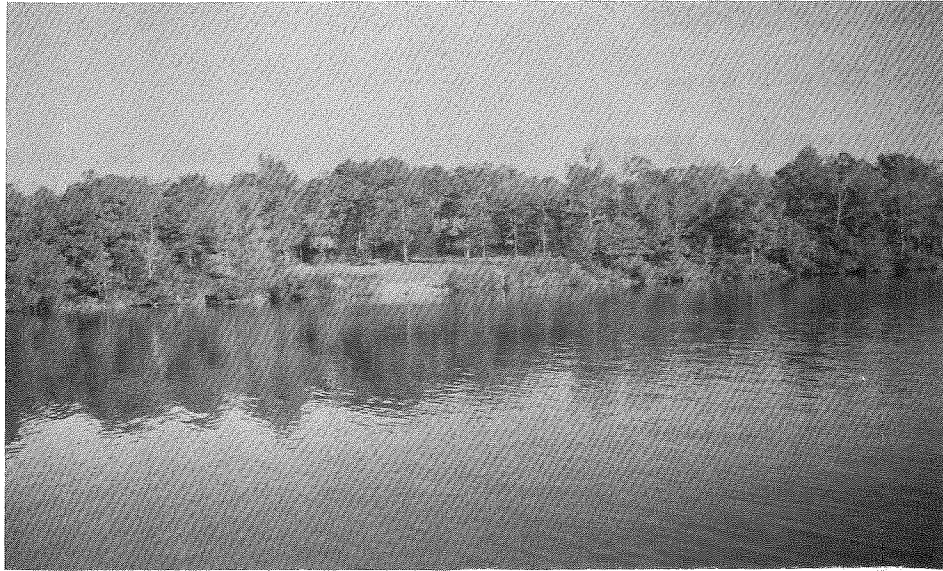
The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. BOAT LAUNCH AREA:** Relocate the boat ramp and increase from 1 lane to 5 lanes. Provide for a 50 car/trailer surfaced, parking area with defined spaces.

**B. MARINA AREA:** Provide for improved roadway with defined parking for 54 cars. Reclaim compacted, eroded areas.

**C. CAMPING AREA:** Provide for surfaced loop circulation for the multi-use camp site area, complete with electrical/ water hook-up at each site. Provide a group shelter and restroom facilities. A total of 24 sites should be developed.

**D. BEACH / PICNIC AREA:** Develop roadway circulation with cluster parking for 42 cars. Develop a picnic area with 28 picnic units. Develop a beach area.



**HOLIDAY HARBOR RAMP**

**6-07 HOLIDAY HARBOR RAMP**

**I. GENERAL DESCRIPTION**

**A. SIZE:** 1 acre.

**B. LOCATION / ACCESS:** Holiday Harbor Ramp is located on the northeast portion of the lake, across the water inlet from Summer Lake Resort. Access to the site is approximately one and one half miles west of the junction of Highways 729 and 726.

**C. OPERATION:** Marion County has been granted an easement for operation and maintenance of this area.

**D. PARK USE:** The area is operated as a free 24 hour 2 lane boat launch facility.

**II. SITE ANALYSIS**

**A. TERRAIN:** The area is relatively flat with a 0-2 percent slope.

**B. VEGETATION:** The area is heavily wooded with hardwood / pine stands. Understory vegetation is moderately dense.

**C. SITE USE / IMPACT CONCERNS:**

1. The existing road alignment allows straight line access to the boat ramp with no safeguard to slow vehicle approach to the lake.

2. There is no defined, surfaced parking at the site. Vehicles are parked at random off the roadway, creating soil compaction and erosion problems.

3. The existing boat ramp has a raised concrete ramp divider which hampers vehicle maneuverability during boat launching.

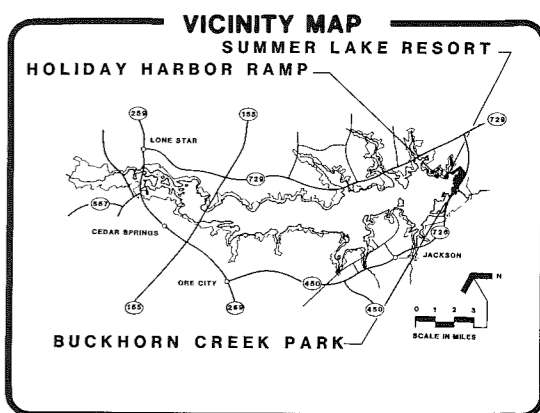
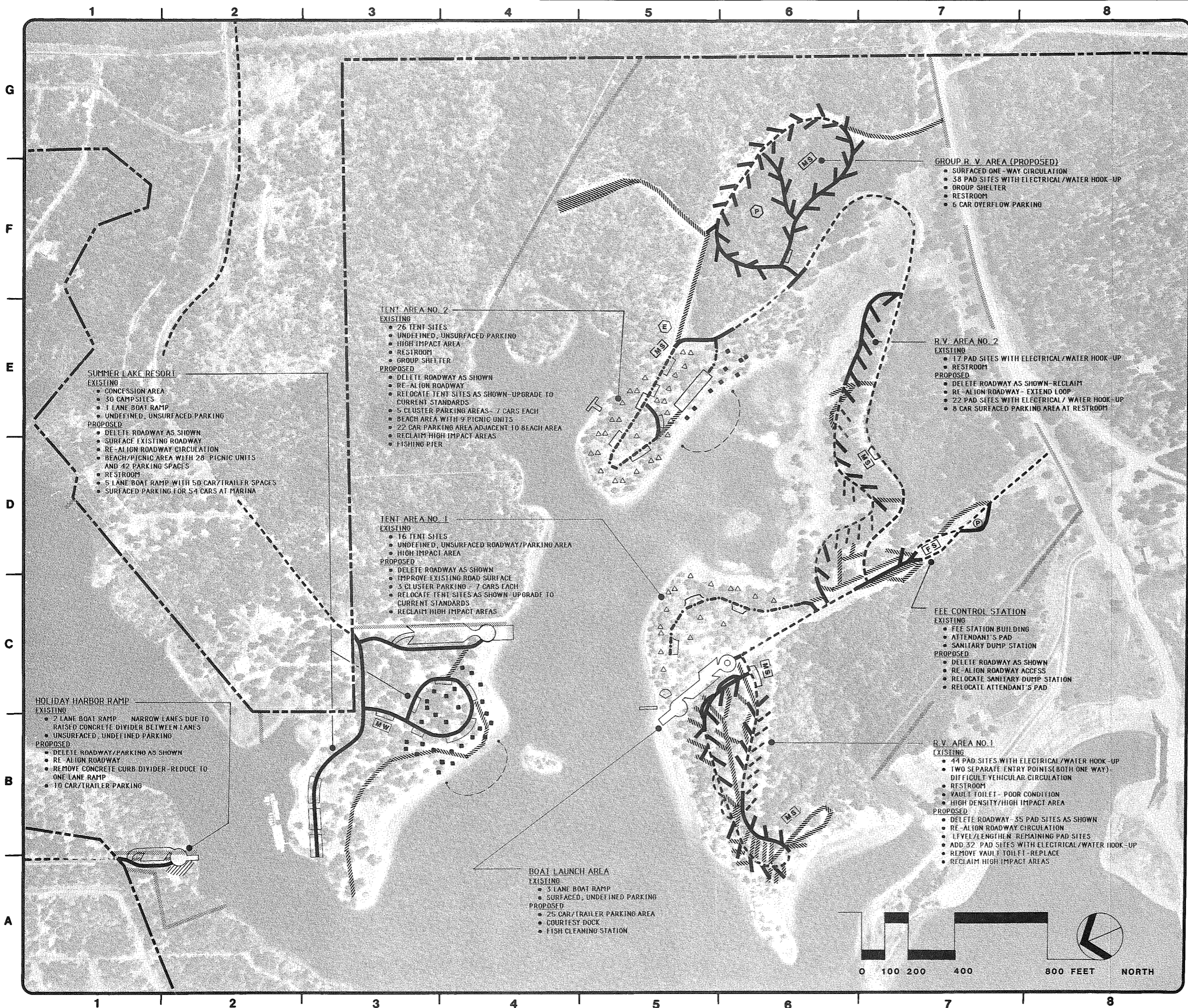
**III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES:**

The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. ROADWAY CIRCULATION:** Re-align existing roadway to avoid straight line access to the shoreline.

**B. BOAT LAUNCH AREA:** Remove the existing raised concrete divider to allow greater vehicle maneuverability. Provide a turn-around for vehicle maneuverability. Provide a 10 car/trailer parking area.





**LEGEND**

**SYMBOLS**

**ROADS**

- EXISTING SURFACED ROADS
- - - - EXISTING UNSURFACED ROAD
- PROPOSED SURFACED ROAD
- - - - PROPOSED UNSURFACED ROAD
- [ ] EXISTING PARKING
- [ ] PROPOSED PARKING
- ||||| ROAD DELETION

**BUILDINGS**

- [CT] COMPOSTING TOILET
- [FV] FRAME VAULT TOILET
- [FW] FRAME WATERBORNE TOILET
- [MV] MASONRY VAULT TOILET
- [MW] MASONRY WATERBORNE TOILET
- [MS] MASONRY WATERBORNE WITH SHOWERS
- [FS] FEE CONTROL STATION
- [ ] EXISTING BUILDING
- [ ] PROPOSED BUILDING

**MISCELLANEOUS**

- [E] [P] PICNIC UNIT (E-EXISTING), (P-PROPOSED)
- [E] [P] TENT CAMPSITE (E-EXISTING), (P-PROPOSED)
- [E] [P] GROUP SHELTER (E-EXISTING), (P-PROPOSED)
- [ ] AMPHITHEATER
- [ ] PLAYGROUND
- [ ] FISHING PIER
- [ ] COURTESY DOCK
- [ ] TRAIL - (A) ACCESS, (H) HIKING, (W) WALKING (E) EQUESTRIAN, (I) INTERPRETIVE
- [E] [P] SANITARY DUMP STATION (E-EXISTING) (P-PROPOSED)
- [ ] FISH CLEANING STATION

--- PROJECT BOUNDARY  
 ||||| RECREATION SITE BOUNDARY

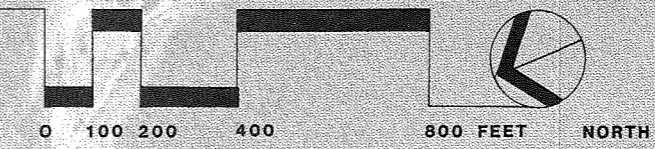
U. S. ARMY ENGINEER DISTRICT, FORT WORTH  
CORPS OF ENGINEERS  
FORT WORTH, TEXAS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 REVIEWED BY: \_\_\_\_\_

**LAKE O' THE PINES**  
CYPRESS RIVER, TEXAS

**BUCKHORN CREEK PARK**  
HOLIDAY HARBOR RAMP  
SUMMER LAKE RESORT

INVITATION NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_ SEQUENCE NO. \_\_\_\_\_  
 DRAWING NUMBER 1 OF 1 6-02





**PINE HARBOR RAMP**

**6-08 PINE HARBOR RAMP**

**I. GENERAL DESCRIPTION**

**A. SIZE:** Approximately 1 acre.

**B. LOCATION/ ACCESS:** Pine Harbor Ramp is located on the eastern portion of the lake with access from Highway 729.

**C. OPERATION:** Marion County has been granted an easement for operation and maintenance of the area.

**D. PARK USE:** The area is operated as a free 24 hour access 2 lane boat launch facility.

**II. SITE ANALYSIS**

**A. TERRAIN:** The area slopes about 5 percent throughout the site. The steepest portion of the site occurs along the shoreline area.

**B. VEGETATION:** The area vegetation consists primarily of pines with hardwoods scattered throughout the site. Understory vegetation is dense.

**C. SITE USE / IMPACT CONCERNS**

1. The existing access road is in poor condition and in need of repair.

2. The existing roadway alignment allows a straight line access to the ramp with no safeguard to slow vehicle approach to the lake.

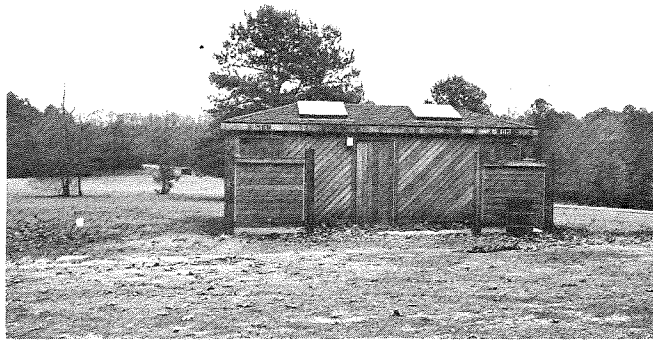
3. There is no defined, surfaced parking at the site. Vehicles are parked at random on turf areas, creating soil compaction and erosion problems.

**III. FUTURE DEVELOPMENT/ RESOURCE USE OBJECTIVES**

The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. ROADWAY CIRCULATION:** Upgrade the surface of the existing access road to the ramp area. Re-align the roadway to prevent straight line access into the water.

**B. BOAT LAUNCH AREA:** Provide a turn-around adjacent to the boat ramp for vehicle maneuverability. Provide a defined, surfaced parking area for 10 car/trailer spaces.



**HURRICANE CREEK PARK**

**6-09 HURRICANE CREEK PARK**

**I. GENERAL DESCRIPTION**

**A. SIZE:** This park consists of 18 acres, of which 8 are developed.

**B. LOCATION / ACCESS:** Hurricane Creek Park is located on Highway 729, approximately 3 miles west of the junction of Highways 729 and 726.

**C. OPERATION:** The area is currently operated and maintained by the Corps of Engineers.

**D. PARK USE:** The park serves as a free day/camping use area which offers boat launching facilities and picnic/tent camping areas.

**II. SITE ANALYSIS**

**A. TERRAIN:** The area is composed of rolling hills with the steepest slopes occurring along the shoreline.

**B. VEGETATION:** The overstory vegetation is predominantly hardwood-pine stands with sparse understory vegetation covering the area.

**C. SITE USE / IMPACT CONCERNS:**

1. Random vehicle parking and access is common throughout the site, causing soil compaction, loss of ground cover, and erosion.

2. Vehicle circulation through the picnic/tent camping area is unimproved, with random access and no defined parking.

3. Many of the 23 picnic and tent camping sites are located on excessive slopes, causing erosion and exposing concrete table footings. The general appearance is aesthetically unpleasant due to overuse of the site.

4. The parking area is surfaced but parking spaces are not delineated.

**III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

The following information will provide guidelines about the action required to enhance the current site features to meet the estimated user needs in the year 2005. A description of these features follows:

**A. ROADWAY CIRCULATION:** Upgrade the existing surfaced road to the boat launch area. In the picnic / tent camping area, provide a surfaced one-way vehicle loop system with defined parking for individual sites. Provide barriers to prevent random vehicle access. Reclaim all compacted, eroded areas.

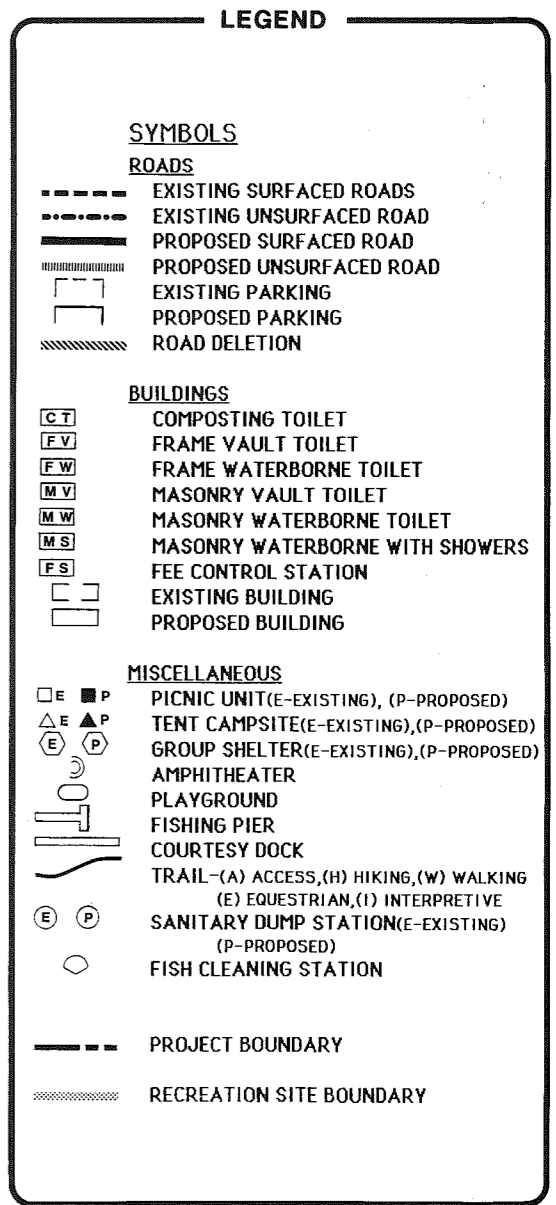
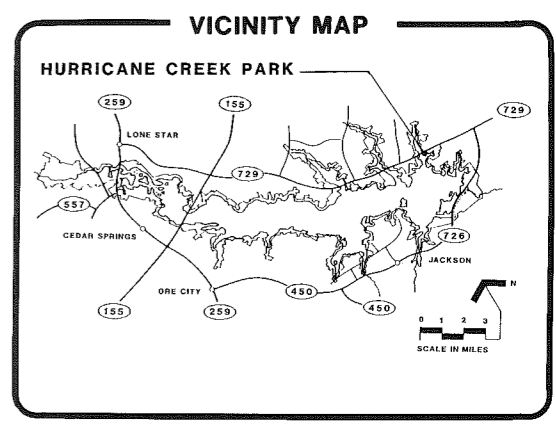
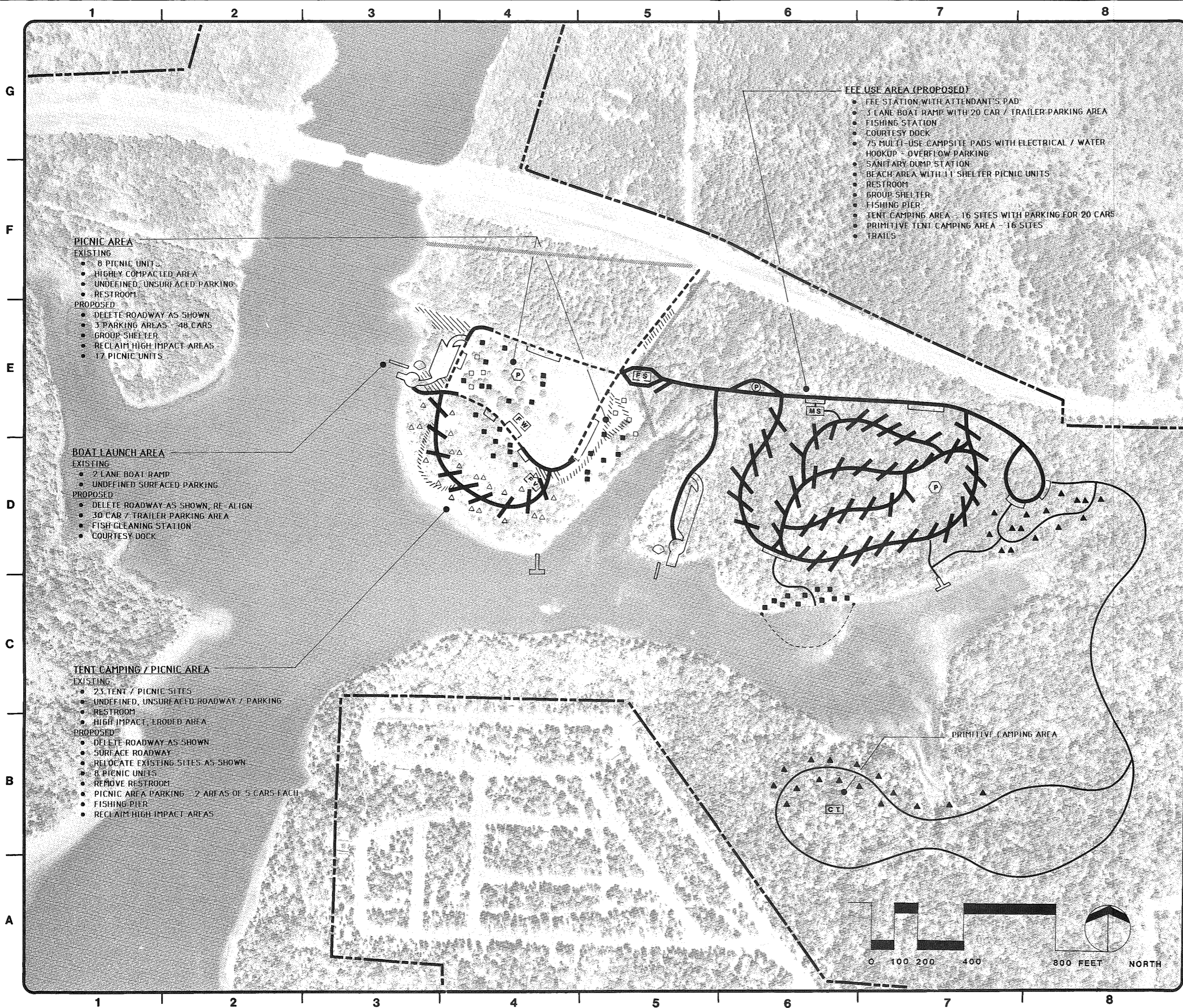
**B. EXISTING PICNIC / TENT CAMPING AREA:** Relocate sites to reduce density and upgrade pads to current Corps of Engineers standards.

**C. BOAT LAUNCH AREA:** Provide a turn-around at the ramp for vehicle maneuverability. Provide a surfaced, defined 30 car / trailer parking area with defined spaces. Provide a courtesy dock and a fish cleaning station.

**D. PROPOSED PICNIC AREA:** Within the existing day use area, provide additional picnic units and a group shelter.

**E. PROPOSED FEE USE CAMPING AREA:** The proposed fee use area will consist of the following:

1. Fee station with attendant's pad.
2. 3 lane boat launch facility with a 20 car / trailer surfaced parking area with defined parking spaces.
3. 75 pad multi-use camping area with individual electrical/water hook-up. Provide restroom, group shelter, and overflow parking.
4. Beach area with 11 picnic units.
5. 16 site tent camping area with cluster parking and a fishing pier.
6. Trail system from the tent camping area near the RV sites to the remote 16 site primitive tent camping area.
7. Increase the size of the existing designated park boundary to accommodate future recreational facility demand.



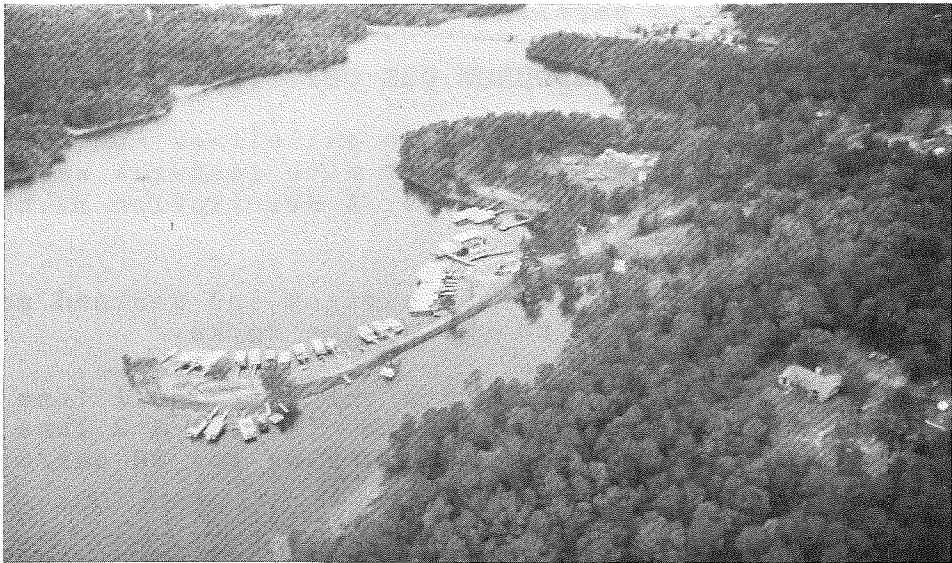
U. S. ARMY ENGINEER DISTRICT, FORT WORTH  
 CORPS OF ENGINEERS  
 FORT WORTH, TEXAS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 REVIEWED BY: \_\_\_\_\_

**LAKE O' THE PINES**  
 CYPRESS RIVER, TEXAS

**HURRICANE CREEK PARK**

INVITATION NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_  
 DRAWING NUMBER 1 OF 1 SEQUENCE NO. 6-04



**HAMP'S RAMP**



**6-10 HAMP'S RAMP**

**I. GENERAL DESCRIPTION**

**A. SIZE:** 6 acres.

**B. LOCATION / ACCESS:** The area is located on the northeastern portion of the lake with access from Highway 729.

**C. OPERATION:** The area is currently operated and maintained by a private concessionaire through a lease agreement from the Corps of Engineers.

**D. PARK USE:** The area serves as a marina with boat launching facilities available.

**II. SITE ANALYSIS**

**A. TERRAIN:** The site is relatively flat throughout the peninsula area with rolling hills to the west.

**B. VEGETATION:** The peninsula area is relatively void of vegetation compared with the rest of the area which is covered by scattered hardwoods with sparse understory vegetation.

**C. SITE USE / IMPACT CONCERNS**

1. The parking area is unsurfaced, constricted, and undefined and vehicles park randomly throughout the site.

2. The existing boat ramp is short and awkward to use since it is so close and parallel to the main road.

**III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. PARKING AREA:** Provide for surface and defined parking to accommodate 89 cars close to the marina docks.

**B. BOAT LAUNCH AREA:** Relocate the existing 1 lane boat ramp to the opposite side of the inlet. Provide a 2 lane boat ramp with a turn-around and surfaced parking for 20 car/trailer spaces. Provide for 9 picnic units.

**C. CAMPSITE AREA:** Provide an unsurfaced loop camping area for 11 campsites with electrical/water hook-ups.



## LAKEVIEW MARINA

**6-11 LAKEVIEW MARINA**

**I. GENERAL DESCRIPTION**

- A. SIZE:** 6 acres.
- B. LOCATION / ACCESS:** Lakeview Marina is located on the eastern portion of the lake with access from Highway 729, across the highway from Hamp's Ramp.
- C. OPERATION:** The area is currently operated and maintained by a private concessionaire by lease agreement with the Corps of Engineers.
- D. PARK USE:** The area serves as a private marina with boat launching facilities (2 lane ramp) available.

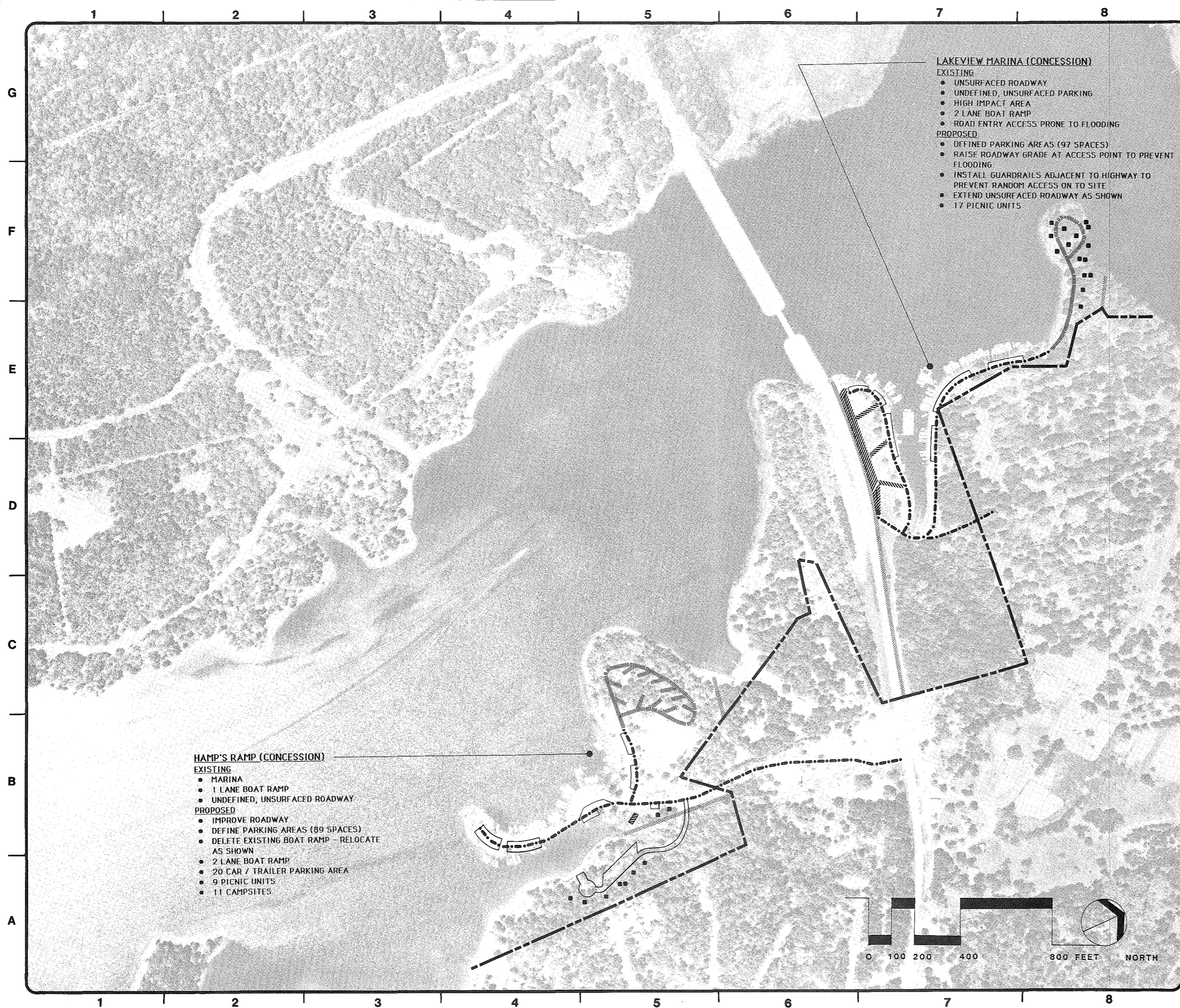
**II. SITE ANALYSIS**

- A. TERRAIN:** The site slopes from the shoreline at 3-6 percent.
- B. VEGETATION:** The site vegetation consists of sparse hardwood and pine stands with sparse understory vegetation.
- C. SITE USE / IMPACT CONCERNS:**
  - 1. The entry road is inundated by water at higher pool elevations, making access difficult, if not impossible at times.
  - 2. The marina roads are currently unimproved and in need of upgrading. Parking is at random and spaces are undefined.

**III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

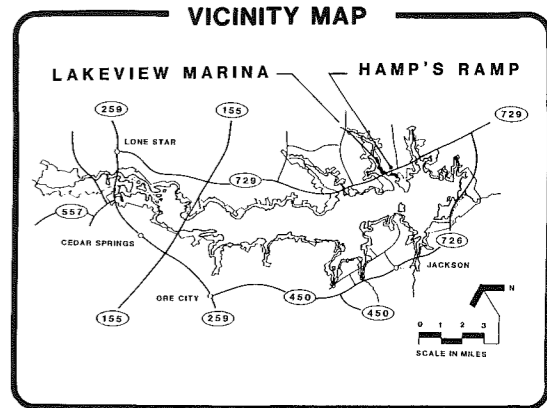
The following information will provide a guidelines about the action required to enhance the current site features to meet the estimated user needs in the year 2005. A description of these features follows:

- A. ROADWAY CIRCULATION:** Upgrade the site entry by providing a paved and raised roadbed to allow access during normal pool raises. Provide defined parking areas for 97 vehicles and install post barriers to prevent guide parking.
- B. SITE IMPROVEMENTS:** Extend the existing road and develop a picnic area with 17 picnic units on the peninsula. Reclaim all compacted and eroded areas.



- LAKEVIEW MARINA (CONCESSION)**
- EXISTING**
- UNSURFACED ROADWAY
  - UNDEFINED, UNSURFACED PARKING
  - HIGH IMPACT AREA
  - 2 LANE BOAT RAMP
  - ROAD ENTRY ACCESS PRONE TO FLOODING
- PROPOSED**
- DEFINED PARKING AREAS (97 SPACES)
  - RAISE ROADWAY GRADE AT ACCESS POINT TO PREVENT FLOODING
  - INSTALL GUARDRAILS ADJACENT TO HIGHWAY TO PREVENT RANDOM ACCESS ON TO SITE
  - EXTEND UNSURFACED ROADWAY AS SHOWN
  - 17 PICNIC UNITS

- HAMP'S RAMP (CONCESSION)**
- EXISTING**
- MARINA
  - 1 LANE BOAT RAMP
  - UNDEFINED, UNSURFACED ROADWAY
- PROPOSED**
- IMPROVE ROADWAY
  - DEFINE PARKING AREAS (89 SPACES)
  - DELETE EXISTING BOAT RAMP - RELOCATE AS SHOWN
  - 2 LANE BOAT RAMP
  - 20 CAR / TRAILER PARKING AREA
  - 9 PICNIC UNITS
  - 11 CAMPSITES



**LEGEND**

**SYMBOLS**

**ROADS**

- EXISTING SURFACED ROADS
- - - EXISTING UNSURFACED ROAD
- PROPOSED SURFACED ROAD
- ▨ PROPOSED UNSURFACED ROAD
- EXISTING PARKING
- PROPOSED PARKING
- ▤ ROAD DELETION

**BUILDINGS**

- CT COMPOSTING TOILET
- FV FRAME VAULT TOILET
- FW FRAME WATERBORNE TOILET
- MV MASONRY VAULT TOILET
- MW MASONRY WATERBORNE TOILET
- MS MASONRY WATERBORNE WITH SHOWERS
- FS FEE CONTROL STATION
- EXISTING BUILDING
- PROPOSED BUILDING

**MISCELLANEOUS**

- E ■ P PICNIC UNIT(E-EXISTING), (P-PROPOSED)
- △ E ▲ P TENT CAMPSITE(E-EXISTING),(P-PROPOSED)
- ⊕ E ⊕ P GROUP SHELTER(E-EXISTING),(P-PROPOSED)
- ⊕ AMPHITHEATER
- ⊕ PLAYGROUND
- ⊕ FISHING PIER
- ⊕ COURTESY DOCK
- TRAIL-(A) ACCESS,(H) HIKING,(W) WALKING
- (E) (P) SANITARY DUMP STATION(E-EXISTING) (P-PROPOSED)
- FISH CLEANING STATION
- PROJECT BOUNDARY
- ▨ RECREATION SITE BOUNDARY

U. S. ARMY ENGINEER DISTRICT, FORT WORTH  
CORPS OF ENGINEERS  
FORT WORTH, TEXAS

DESIGNED BY: \_\_\_\_\_

DRAWN BY: \_\_\_\_\_

REVIEWED BY: \_\_\_\_\_

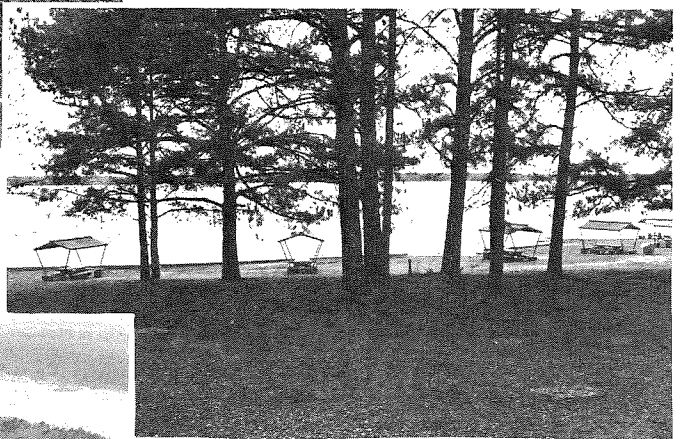
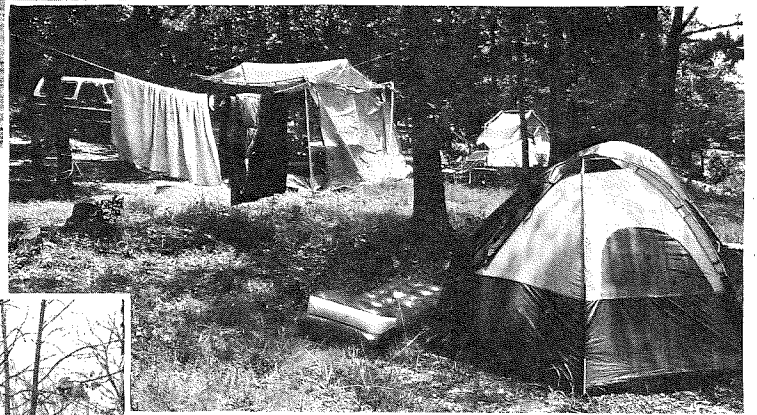
**LAKE O' THE PINES**  
CYPRESS RIVER, TEXAS

**LAKEVIEW MARINA**  
**HAMP'S RAMP**

INVITATION NO. \_\_\_\_\_ DATE: \_\_\_\_\_

CONTRACT NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_ SEQUENCE NO. \_\_\_\_\_

DRAWING NUMBER 1 OF 1 NO. 6-05



# JOHNSON CREEK PARK

## 6-12 JOHNSON CREEK PARK

### I. GENERAL DESCRIPTION

**A. SIZE:** 105 acres of which 51 acres are currently developed.

**B. LOCATION/ACCESS:** This park is located on the north central portion of the lake 3 miles northeast of the embankment. The park road connects to Texas Highway 729 adjacent to the Crestwood Community.

**C. OPERATION:** The Corps of Engineers currently operates the park as a day use/fee camping area.

**D. PARK USE:** In the day use area, the following facilities are currently available: boat ramp, beach area, picnic area, amphitheater, group shelter, and restrooms. In the fee/camping area, the following facilities are available: RV and tent camping, boat ramp, and beach area. These facilities are used primarily by family groups from the surrounding areas for weekend and extended vacation use.

### II. SITE ANALYSIS

**A. TERRAIN:** The area slopes at 2-5 percent slope throughout the central and southwestern portions of the park. The area along the southeastern and eastern shoreline contains steeper topography, ranging up to a 10 percent slopes.

**B. VEGETATION:** There are two predominant tree covers within the park site. Piney woods dominate around the park entrance and the central portion of the park. Hardwoods, mainly oak, dominate in the camping and day use areas.

#### C. SITE USE / IMPACT CONCERNS

1. Slight to severe soil compaction and surface erosion in the day use and fee/camping areas have resulted from overuse. Erosion is active along all shorelines with direct exposure to the southern winds. Only those shorelines in protected coves remain in fair condition.

2. The lack of access trails within heavily used areas of the campgrounds and picnic areas has lead to widespread soil compaction and erosion. There is no access to a hiking trail system. Due to the lack of defined and controlled roadways and parking areas, vehicles are driven throughout the park. This has created compaction and erosion problems.

3. Boat ramp areas are in good condition. A courtesy dock is needed for safe and efficient boat launching in both the day use and fee camping areas. Parking for cars and trailers is inadequate in both areas. The day use boat launch roadway has a straight line alignment to the ramp and shoreline with only a chatter strip safeguard provision to slow vehicle entry into the water.

4. Current RV loops contain densely clustered sites which promotes poor circulation, difficult vehicle maneuvering, high soil compaction and erosion. Some individual pad sites are too short and not on level grades. Many picnic tables are located on sloped eroding hillsides making access difficult. In the tent camping areas, most sites are located on sloping terrain without level impact resistant tent or picnic table pads. Repeated use of sloping sites has resulted in severe compaction and erosion problems. Parking for individual tent sites is random throughout the area, causing compaction, erosion, and the loss of the aesthetic visual quality of the area.

### III. FUTURE DEVELOPMENT/ RESOURCE USE OBJECTIVES

The following information will provide guidelines about the action required to enhance the current site features to meet the estimated user needs in the year 2005. A description of these features follows:

**A. DAY USE ROADWAY CIRCULATION:** Realign the roadway adjacent to the existing launch area to allow expansion for future boat launch facilities. Relocate the existing amphitheater to accommodate the new road alignment.

**B. DAY USE BOAT LAUNCH AREA:** Realign the roadway entry and expand the boat ramp from 2 lanes to 4 lanes. Provide a 50 car/trailer surfaced and delineated parking area. Add a courtesy dock and a fish cleaning station.

**C. DAY USE BEACH AREA:** Provide erosion control measures between the existing parking areas and the beach to eliminate erosion problems. Level the areas around existing picnic units and provide impact resistant sites around each. Provide 20 additional picnic units and create several double unit sites for dual family use. Provide access trails throughout the area to concentrate impacts, reduce random pedestrian travel and reduce soil compaction erosion problems.

**D. DAY USE NATURE TRAIL:** Develop a trail system for passive recreational use. Provide a 50 car/trailer surfaced parking area. Add a courtesy dock and a fish cleaning station.

**E. GROUP CAMPING AREA:** Develop a surfaced loop multi-use camping area for 12 pad sites with electrical/water hookups. Provide a group pavilion with restroom.

**F. FEE USE CAMPING AREAS:** In all four of the existing RV multi-use camping areas, delete portions of the roadway and selected pad sites (see Plate Sequence 6-06) to reduce site densities, provide greater vehicle maneuverability, and to reduce soil compaction and erosion of the sites due to overuse. Level and lengthen some parking pads as to provide a wide variety of parking lengths to the user and to maintain the aesthetic quality of the sites. Provide group shelters in selected RV areas.

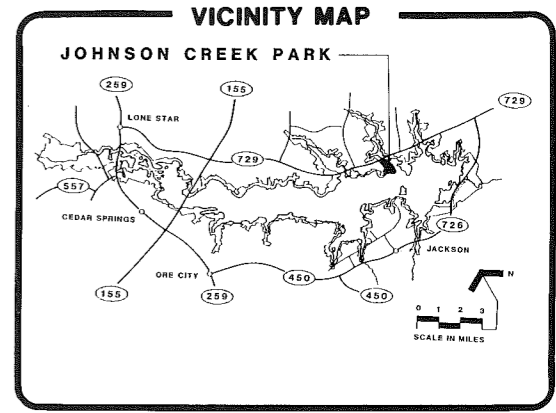
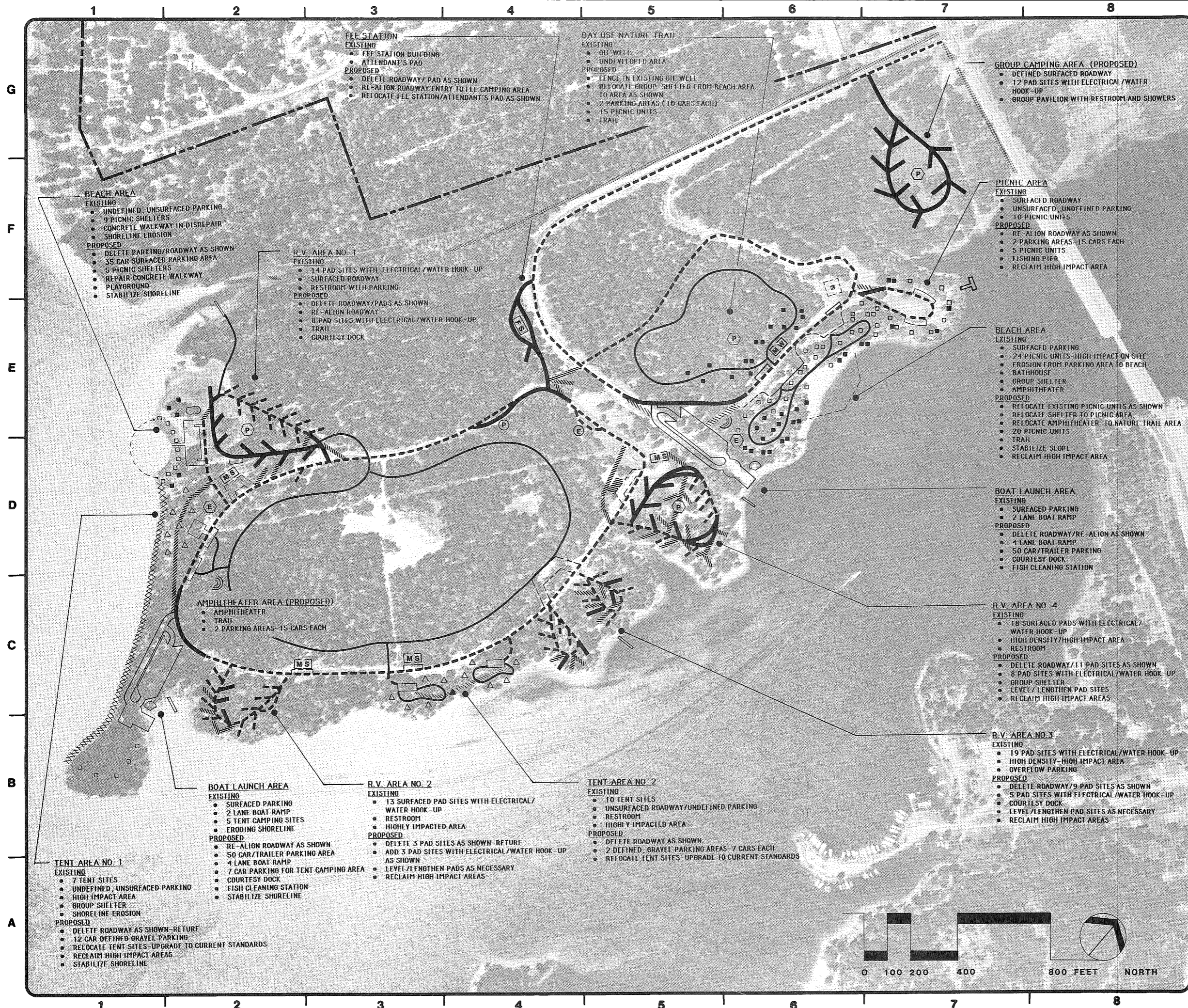
**G. FEE USE TENT CAMPING AREAS:** In both areas, relocate existing tent sites to areas with less slope gradient and provide level, impact resistant tent and table pads, properly installed to allow for good surface drainage. Provide cluster parking within a close walking distance of each site with a defined trail system throughout the site to further reduce the soil compaction and erosion problem. Reclaim all impacted areas and restore to natural conditions.

**H. FEE USE BOAT LAUNCH AREA:** Realign the existing park roadway to allow expansion of the existing boat launch area. Increase the existing 2 lane ramp to a 4 lane ramp. Provide a surfaced 50 car/trailer parking area with a courtesy dock and a fish cleaning station. Provide a 7 car parking area for the existing 5 site tent camping area. Upgrade individual tent sites.

**I. FEE USE BEACH AREA:** Provide a surfaced and delineated 35 car parking area with a walkway to the beach area. Repair and restore the existing concrete walkway around the existing beach. Add 5 sheltered picnic units to the 9 existing units. Provide a playground area. Stabilize the beach shoreline.

**J. OTHER SITE IMPROVEMENTS:** Develop an amphitheater within the interior portion of the site. Provide pull-off parking for 30 cars. Develop a nature trail throughout the interior portion of the site, with trailhead connections at each camping area. Stabilize the entire main lake shoreline with rip-rap. Reclaim all compacted, eroded areas throughout the site and restore to natural conditions.





**LEGEND**

**SYMBOLS**

**ROADS**

- EXISTING SURFACED ROADS
- - - EXISTING UNSURFACED ROAD
- PROPOSED SURFACED ROAD
- - - - PROPOSED UNSURFACED ROAD
- [ ] EXISTING PARKING
- [ ] PROPOSED PARKING
- ||||| ROAD DELETION

**BUILDINGS**

- [CT] COMPOSTING TOILET
- [FV] FRAME VAULT TOILET
- [FW] FRAME WATERBORNE TOILET
- [MV] MASONRY VAULT TOILET
- [MW] MASONRY WATERBORNE TOILET
- [MS] MASONRY WATERBORNE WITH SHOWERS
- [FS] FEE CONTROL STATION
- [ ] EXISTING BUILDING
- [ ] PROPOSED BUILDING

**MISCELLANEOUS**

- [E] [P] PICNIC UNIT (E-EXISTING), (P-PROPOSED)
- [△] [▲] [▽] [▼] TENT CAMPSITE (E-EXISTING), (P-PROPOSED)
- [⬢] [⬣] [⬤] [⬥] GROUP SHELTER (E-EXISTING), (P-PROPOSED)
- [ ] AMPHITHEATER
- [ ] PLAYGROUND
- [ ] FISHING PIER
- [ ] COURTESY DOCK
- [ ] TRAIL—(A) ACCESS, (H) HIKING, (W) WALKING (E) EQUESTRIAN, (I) INTERPRETIVE
- [E] [P] SANITARY DUMP STATION (E-EXISTING) (P-PROPOSED)
- [ ] FISH CLEANING STATION

--- PROJECT BOUNDARY

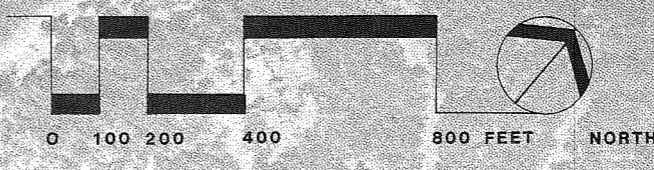
||||| RECREATION SITE BOUNDARY

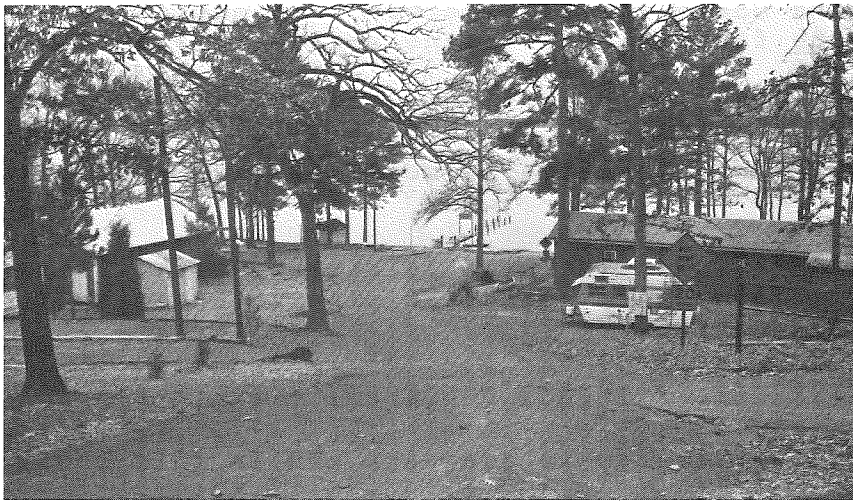
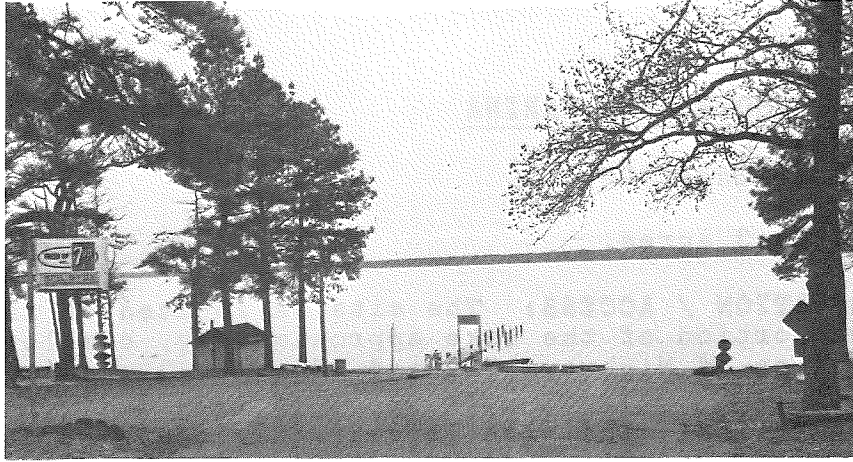
U. S. ARMY ENGINEER DISTRICT, FORT WORTH  
CORPS OF ENGINEERS  
FORT WORTH, TEXAS

DESIGNED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
REVIEWED BY: \_\_\_\_\_

**LAKE O' THE PINES  
CYPRESS RIVER, TEXAS  
JOHNSON CREEK  
PARK**

INVITATION NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
CONTRACT NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_ SEQUENCE NO. \_\_\_\_\_  
DRAWING NUMBER \_\_\_\_\_ 1 OF 1 6-06





**LAKESIDE MOTEL & MARINA**

## **6-19 LAKESIDE MOTEL AND MARINA**

### **I. GENERAL DESCRIPTION:**

**A. SIZE:** 3 acres.

**B. LOCATION / ACCESS:** The site is located on the northeastern portion of the lake approximately, 6 miles west of the intersection of Highways 729 and 726.

**C. OPERATION:** The area is currently operated and maintained by private concessionaire under a lease agreement with the Corps of Engineers.

**D. PARK USE:** The area serves as a marina with a motel and boat launching facilities ( 2 lane ramp ) available.

### **II. SITE ANALYSIS**

**A. TERRAIN:** The area is moderately sloped, between 5-10 percent.

**B. VEGETATION:** The area is covered with, predominantly hardwood tree cover with scattered pine stands with little if no understory vegetation.

#### **C. SITE USE / IMPACT CONCERNS:**

1. Roadway access is adequate and in fair condition.

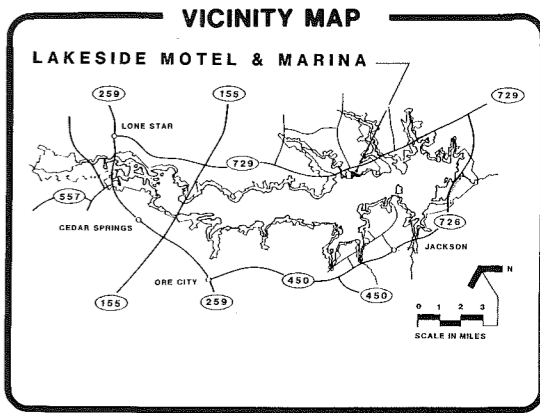
2. The roadway alignment allows a straight line access to the shoreline with no safeguard provided to slow vehicle approach to the lake.

### **III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. BOAT LAUNCH AREA:** Realign the existing roadway to avoid straight line access to the lake. Provide a turn-around for greater vehicle maneuverability. Provide a parking area for 20 car/trailer parking spaces and for 20 car only spaces.

**B. SITE IMPROVEMENTS:** Provide an improved trail from the proposed parking area to the marina and develop 10 picnic units. Develop a multi-use camp site area for 10 sites with electrical/water hookups.



**LEGEND**

**SYMBOLS**

**ROADS**

- EXISTING SURFACED ROADS
- - - EXISTING UNSURFACED ROAD
- PROPOSED SURFACED ROAD
- - - PROPOSED UNSURFACED ROAD
- ▭ EXISTING PARKING
- ▭ PROPOSED PARKING
- ▨ ROAD DELETION

**BUILDINGS**

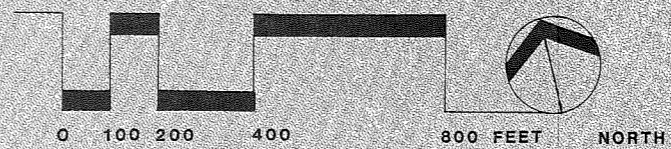
CT	COMPOSTING TOILET
FV	FRAME VAULT TOILET
FW	FRAME WATERBORNE TOILET
MV	MASONRY VAULT TOILET
MW	MASONRY WATERBORNE TOILET
MS	MASONRY WATERBORNE WITH SHOWERS
FS	FEE CONTROL STATION
▭	EXISTING BUILDING
▭	PROPOSED BUILDING

**MISCELLANEOUS**

- E ■ P PICNIC UNIT (E-EXISTING), (P-PROPOSED)
- △ E ▲ P TENT CAMPSITE (E-EXISTING), (P-PROPOSED)
- ⬢ E ⬢ P GROUP SHELTER (E-EXISTING), (P-PROPOSED)
- ⊙ AMPHITHEATER
- ⊙ PLAYGROUND
- ⊙ FISHING PIER
- ⊙ COURTESY DOCK
- TRAIL - (A) ACCESS, (H) HIKING, (W) WALKING (E) EQUESTRIAN, (I) INTERPRETIVE
- ⊙ SANITARY DUMP STATION (E-EXISTING) (P-PROPOSED)
- ⊙ FISH CLEANING STATION

--- PROJECT BOUNDARY

▨ RECREATION SITE BOUNDARY



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FORT WORTH, TEXAS

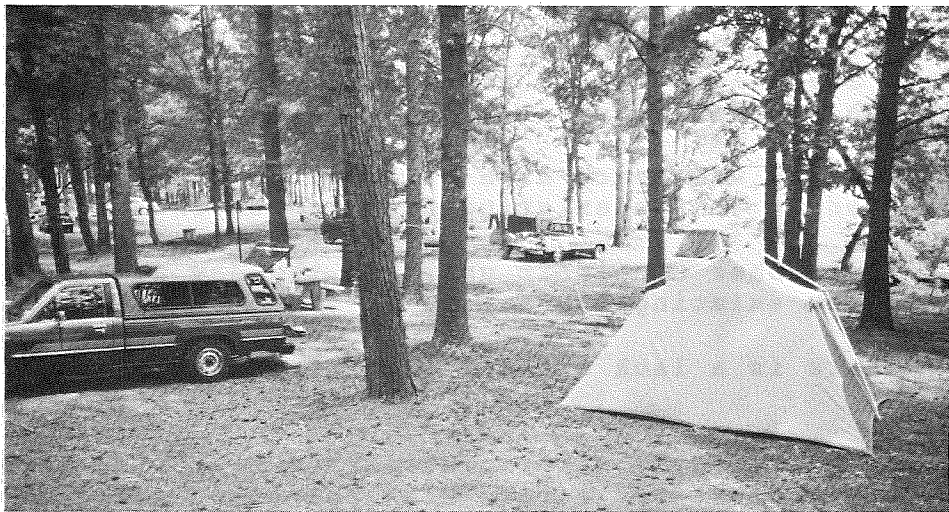
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DRAWN BY: \_\_\_\_\_

REVIEWED BY: \_\_\_\_\_

**LAKE O' THE PINES**  
CYPRESS RIVER, TEXAS  
**LAKESIDE MOTEL and MARINA**

INVITATION NO.	DATE:
CONTRACT NO.	SHEET NO. SEQUENCE NO.
DRAWING NUMBER	1 OF 1 6-07



**ALLEY CREEK PARK**

6-14 ALLEY CREEK PARK

I. GENERAL DESCRIPTION

A. **SIZE:** 74 acres, of which approximately 50 acres are currently developed for recreation use.

B. **LOCATION / ACCESS:** This park is located on the north central portion of the lake on Highway 729, approximately 7 miles west of the intersection of Highways 726 and 729.

C. **OPERATION:** The Corps of Engineers currently operates and maintains the park as a day use/fee use area.

D. **PARK USE:** In the day use area, the following facilities are available: boat launching facilities, beach area, picnic area, courtesy dock, and restrooms. In the fee use area, the following facilities are available: tent camping areas, and beach area. A small RV camping loop can be reserved for group use or used by individuals when not reserved. This loop is complete with group shelter and restroom facilities.

II. SITE ANALYSIS

A. **TERRAIN:** The area is composed of rolling hills with sandy loam soils and 0-8 percent slopes.

B. **VEGETATION:** The predominant tree cover is a pine-hardwood mix with the majority of the upland area covered in pine and the lower elevations in hardwoods. In non-use areas, the understory vegetation is dense.

C. **SITE USE / IMPACT CONCERNS:**

1. Slight to severe soil compaction and surface erosion in the day use area has resulted from wide spread use and random parking along sloped areas.

2. The day use beach area is isolated from the main picnic area and adjacent to the existing boat launch facilities.

3. The number of picnic units in the day use picnic area is adequate for existing needs.

4. There is a lack of boat launching facilities in the fee use area.

5. In existing RV camping areas, current loop layouts contain densely clustered sites, with points of difficult vehicular maneuverability due to sharp road angles and trees abutting the roadway edge.

6. The fee use beach area is in need of repair. The concrete walkway around the beach has shifted and concrete edges are exposed, presenting a potential hazard to users. The sand area is eroding due to wave impact.

7. Erosion is occurring along the entire southern shoreline.

### III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES

The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. EXISTING DAY USE BEACH AREA:** Delete the existing beach and relocate to the picnic area south of the day use ramp. Reclaim the area and return it to natural conditions.

**B. DAY USE PICNIC AREA:** Regroup the 20 existing picnic units and add 13 additional picnic units throughout the site. Provide for a 32 car surfaced and delineated parking area and reclaim compacted, eroded areas caused by random vehicle parking.

**C. DAY USE BOAT LAUNCH AREA:** Provide a turnaround for greater vehicle maneuverability. Provide a 20 car/trailer surfaced parking area. Provide a fish cleaning station and relocate 4 picnic units from the previous beach area.

**D. TENT CAMPING AREAS:** Consolidate tent camping areas. Improve the existing surfaced roadway and add a second surfaced camping loop. Relocate all tent sites and upgrade to current Corps of Engineers standards. Provide a total of 37 tent sites.

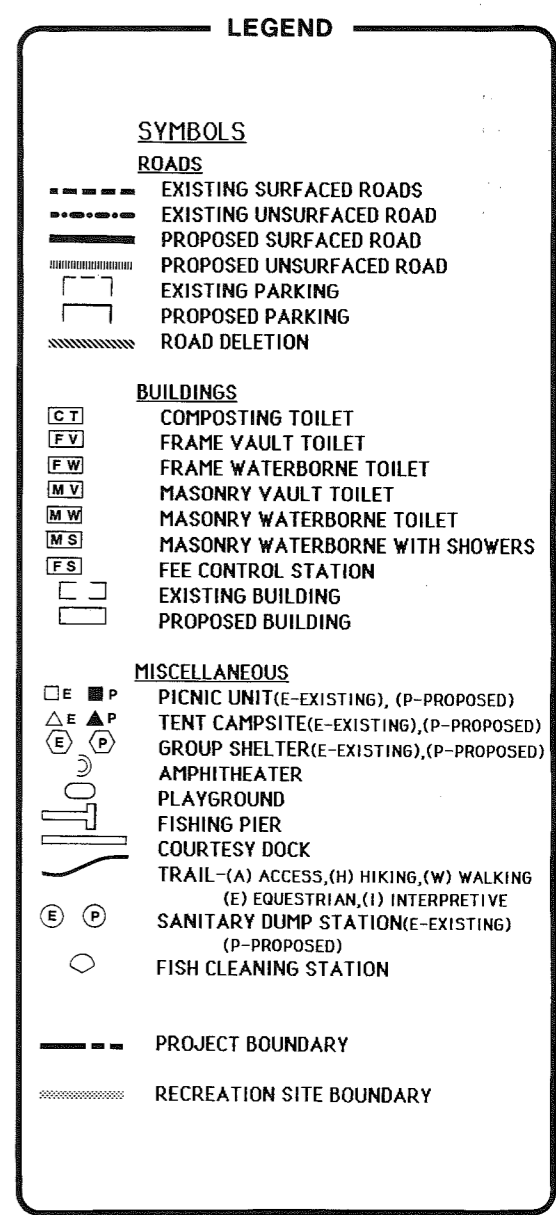
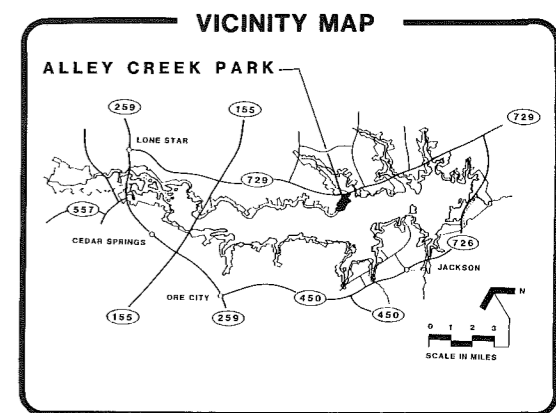
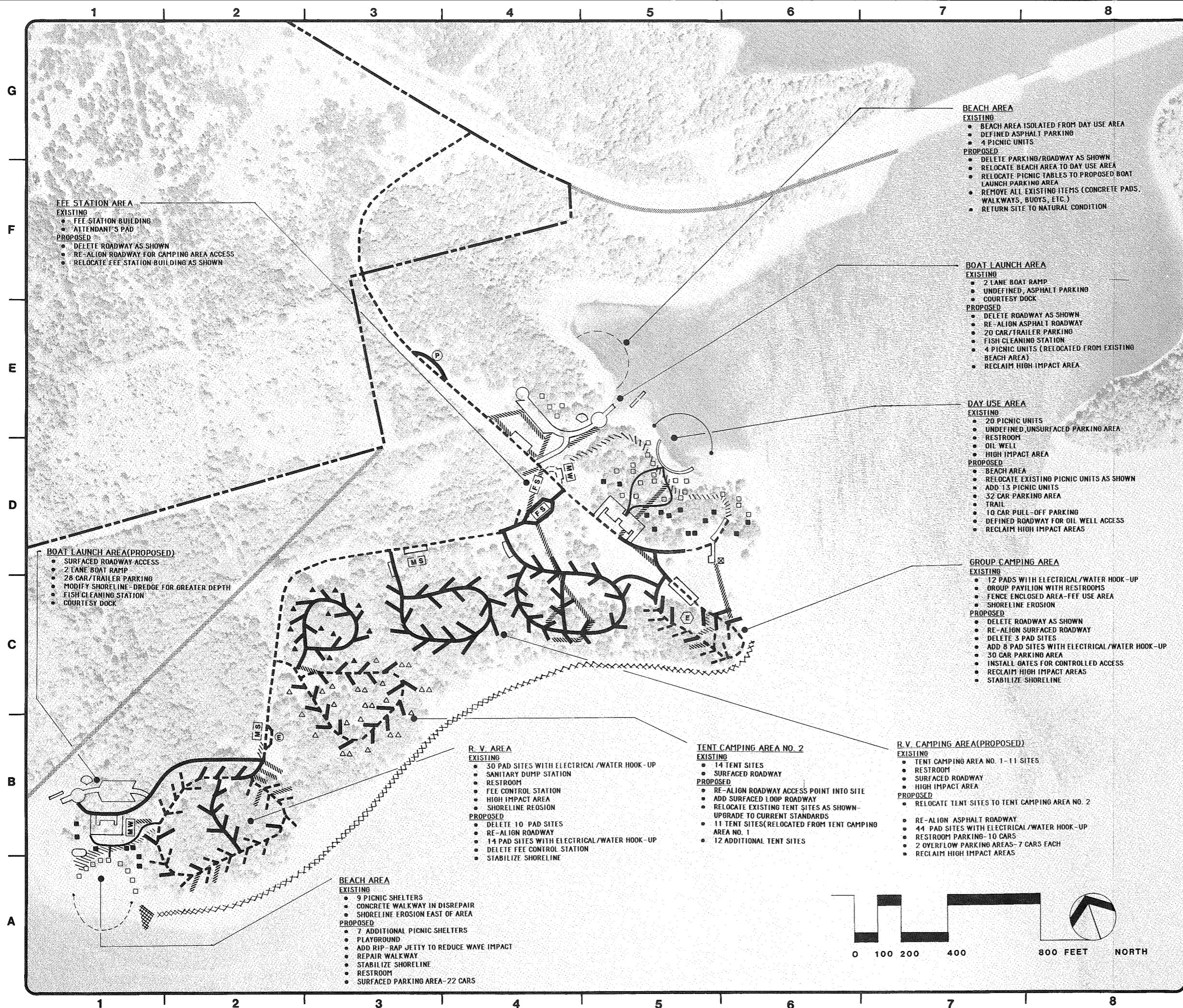
**E. RV CAMPING AREAS:** In the existing RV camping areas, delete camp sites to decrease density. Add cross-connection road to enhance circulation and provide additional camp sites. Provide defined overflow parking for additional vehicles. Develop additional RV group camping areas with electrical/water hook-ups. Level and lengthen pads as necessary.

**F. FEE USE BEACH AREA:** Repair the concrete walkway or remove if necessary. Create a rip-rap jetty on the east side of the beach area to protect from wave action and reduce beach erosion. Provide a playground area and add 7 additional picnic shelters.

**G. FEE USE BOAT LAUNCH AREA:** Modify the existing shoreline, dredge inlet for greater depth, and develop a boat launch area with a 2 lane boat ramp and a 28 car/trailer parking area with turn-around. Provide a courtesy dock and a fish cleaning station. Provide a surfaced 22 car parking area and a restroom with access to both the boat ramp and the beach area.

**H. OTHER SITE IMPROVEMENTS:** Stabilize the shoreline with rip-rap to prevent additional erosion. Reclaim all areas of high compaction and erosion. Use post and cable along roadways to prevent random parking.





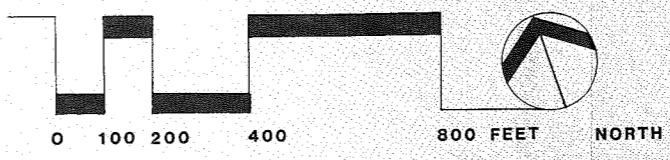
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 CORPS OF ENGINEERS  
 FORT WORTH, TEXAS

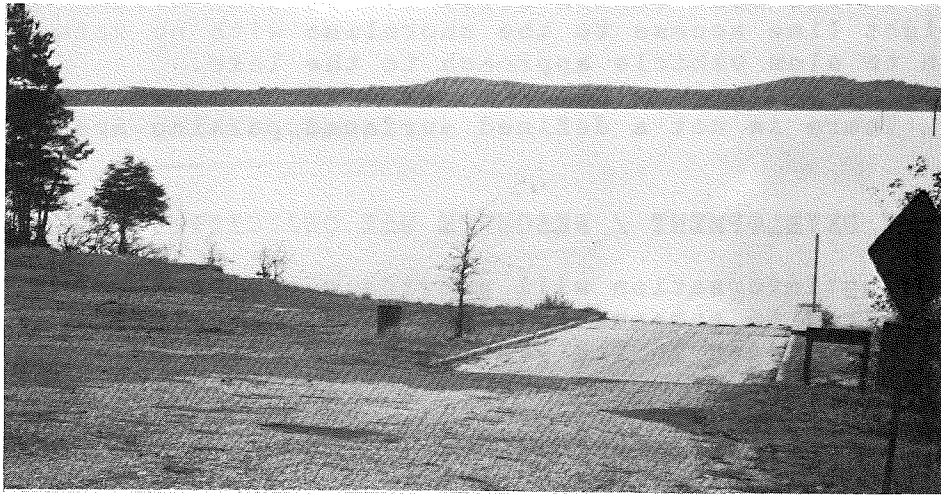
DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 REVIEWED BY: \_\_\_\_\_

**LAKE O' THE PINES**  
 CYPRESS RIVER, TEXAS

**ALLEY CREEK PARK**

INVITATION NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_ SHEET NO. \_\_\_\_\_ SEQUENCE NO. \_\_\_\_\_  
 DRAWING NUMBER 1 OF 1 6-08





**MIMS CHAPEL RAMP**

**6-15 MIMS CHAPEL RAMP**

**I. GENERAL DESCRIPTION**

**A. SIZE:** 15 acres.

**B. LOCATION / ACCESS:** Mims Chapel Ramp is located on the east central portion of the lake, approximately 1 1/4 miles from Highway 729 and 3 miles east of the intersection of Highways 729 and 155.

**C. OPERATION:** The area is currently operated and maintained by the Corps of Engineers.

**D. PARK USE:** The area is operated as a free 24 hour access 2 lane boat launch facility.

**II. SITE ANALYSIS**

**A. TERRAIN:** The area slopes at 5-10 percent.

**B. VEGETATION:** The area predominant tree cover is pine with hardwood stands scattered throughout the site. Understory vegetation is moderate to dense.

**C. SITE USE / IMPACT CONCERNS:**

1. In the boat launch area, the roadway alignment allows for straight line access to the shoreline with no safeguard provision to slow vehicle approach to the lake.

2. There is not a defined surfaced parking area at the site.

**III. FUTURE DEVELOPMENT / RESOURCE USE OBJECTIVES**

The following information will provide guidelines about the action required to enhance the current site features and meet the estimated user needs in the year 2005. A description of these features follows:

**A. ROADWAY CIRCULATION:** Realign the existing roadway to avoid straight line vehicle access to the lake.

**B. BOAT LAUNCH AREA:** Provide a turn-around to the existing 2 lane ramp for greater vehicle maneuverability. Add a surfaced 20 car/trailer parking area and provide a fish cleaning station. Reclaim all compacted and eroded areas.