

**DRAFT**  
**RECREATION RESOURCE MANAGEMENT PLAN**

**Klamath Hydroelectric Project**  
**FERC Project No. 2082**

*Prepared for:*  
PacifiCorp  
Portland, Oregon

*Prepared by:*  
EDAW, Inc.  
Seattle, Washington

September 2004

**Intentionally Left Blank**

## TABLE OF CONTENTS

	<u>Page</u>
<b>1.0 INTRODUCTION.....</b>	<b>1</b>
1.1 USER’S GUIDE .....	2
1.2 PURPOSE AND INTENT.....	2
1.3 PLAN VISION.....	3
1.4 IMPLEMENTATION PROGRAMS.....	4
1.5. TERMS AND DEFINITIONS.....	31
<b>2.0 GOALS AND OBJECTIVES.....</b>	<b>32</b>
<b>3.0 ROLES, PLANNING AND COORDINATION.....</b>	<b>36</b>
3.1 PACIFICORP AND AGENCY ROLES AND RESPONSIBILITIES.....	36
3.2 ROLLING 5-YEAR RECREATION ACTION PLAN.....	38
3.3 PERIODIC REVIEW.....	39
3.4 ENVIRONMENTAL COMPLIANCE AND PERMITTING.....	40
3.5 PERIODIC REPORTING.....	41
<b>4.0 IMPLEMENTATION PROGRAMS .....</b>	<b>42</b>
4.1 RECREATION FACILITY DEVELOPMENT/CAPITAL IMPROVEMENT PROGRAM.....	42
4.1.1 Recreation Facility Development and Upgrades .....	42
4.1.2 Recreation Development Locations.....	43
4.1.3 Recreation Facility Design Guidelines .....	43
4.1.4 Americans with Disabilities Act (ADA) Compliance and Facility Upgrades .....	44
4.1.5 Environmental Project Review .....	44
4.1.6 Agency and Public Review .....	44
4.1.7 Facility Construction Coordination, Scheduling, and Phasing.....	44
4.2. RECREATION OPERATIONS AND MAINTENANCE (O&M) PROGRAM .....	45
4.2.1 Recreation Facility Operations Schedule.....	45
4.2.2 Recreation Facility Maintenance Standards and Frequency.....	46
4.2.3 Dispersed Shoreline Site Maintenance Responsibilities.....	47

4.2.4	Law Enforcement and Public Services at Recreation Facilities .....	47
4.3	WHITEWATER BOATING AND RIVER-BASED FISHING PROGRAM.....	47
4.3.1	Whitewater Boating .....	48
4.3.1.1	Facility Development/Capital Improvements .....	48
4.3.1.2	Operations and Maintenance.....	48
4.3.2	River-Based Fishing.....	49
4.3.2.1	Facility Development/Capital Improvements .....	50
4.3.2.2	Operations and Maintenance.....	50
4.4	RECREATION MONITORING PROGRAM.....	51
4.4.1	Monitoring Indicators and Standards.....	52
4.4.2	Monitoring Requirements .....	57
4.4.3	Reporting Requirements .....	59
4.4.4	Use of Monitoring Data in Decision Making .....	59
4.5	RESOURCE INTEGRATION AND COORDINATION PROGRAM .....	60
4.6	PLAN REVIEW AND UPDATE PROGRAM .....	61
4.7	INTERPRETATION AND EDUCATION PROGRAM.....	62
4.7.1	Recreation Resources.....	63
4.7.2	Other Resources .....	64
4.8	AESTHETIC/VISUAL RESOURCE ENHANCEMENT PROGRAM.....	64
4.8.1	Repainting or Recoating of Industrial Project Facilities Near Public Viewpoints .....	64
4.8.2	Vegetative Screening Surrounding Industrial Project Facilities Near Public Viewpoints.....	65
4.8.3	Implementation of Other Proposed Recreation Facility and Dispersed Site Enhancement Measures .....	66
<b>5.0</b>	<b>REFERENCES AND LITERATURE CITED .....</b>	<b>68</b>

**Figures**

Figure 1.3-1. Project Recreation Sites ..... 6  
Figure 1.3-2. Recreation Settings and Management Units ..... 26

**Tables**

Table 4.2-1. Seasons and hours of operation of Project recreation facilities..... 46  
Table 4.4-1. Recreation monitoring indicators and standards for developed Project recreation facilities, dispersed shoreline sites, and recreation settings. .... 53  
Table 4.4-2. Recreation monitoring indicators, method of measurement, and management options for developed and dispersed Project recreation sites..... 54  
Table 4.4-3. Monitoring locations by management unit within the Project area..... 57

**Exhibits**

- A Law Enforcement and Emergency Services Agreements
- B FERC License Terms and Conditions
- C Rolling 5-Year Recreation Action Plan Framework
- D Proposed Recreation Measures, Schedule, and Estimated Costs
- E Conceptual Site Plans
- F Recreation Developed Facility and Dispersed Site Maintenance Standards/Frequency

## ACRONYMS AND ABBREVIATIONS

ADA	Americans with Disabilities Act
ADAAG	Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities
BLM	Bureau of Land Management
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
cfs	cubic feet per second
EIS	Environmental Impact Statement
ESA	Endangered Species Act
FERC	Federal Energy Regulatory Commission
FLA	Final License Application
FTR	Final Technical Report
GIS	geographic information system
HPMP	Historic Properties Management Plan
I&E	interpretation and education
KOP	key observation point
LAC	Limits of Acceptable Change
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NPS	National Park Service
ODFW	Oregon Department of Fish and Wildlife
O&M	operations and maintenance
OPRD	Oregon Parks and Recreation Department
ORV	outstandingly remarkable value
OSSW	Oregon State Scenic Waterway
PET	protected, endangered, or threatened
PM&E	protection, mitigation, and enhancement measures
Project	Klamath Hydroelectric Project
PF	Project facilities
R	rural
RN	roaded natural
ROS	Recreation Opportunity Spectrum

RRMP	Recreation Resource Management Plan
RWG	Recreation Work Group
SMP	semi-primitive motorized
USDA-FS	USDA Forest Service
USGS	U.S. Geological Service
VMC	Visual Management Classes (BLM)
W&SR	Wild and Scenic River

**Intentionally Left Blank**



## 1.0 INTRODUCTION

PacifiCorp (Licensee) operates the Klamath Hydroelectric Project (Project) (FERC Project No. 2082) under a license granted by the Federal Energy Regulatory Commission (FERC). The new FERC license will be for a period of 30 to 50 years beginning when the new license is issued by FERC and accepted by PacifiCorp. PacifiCorp has prepared this draft Recreation Resource Management Plan (RRMP) as part of the FERC relicensing process to guide recreation resource management on Project lands during the term of the new license (for purposes of this draft, the term draft is not repeated with each instance of RRMP). Within one year of the new license becoming final, this draft RRMP will be finalized and then implemented by PacifiCorp.

During the relicensing study phase, PacifiCorp worked with a broad group of recreation stakeholders (Recreation Work Group or RWG) to design and implement recreation studies for the Project and to consider a series of potential actions that evolved into proposed protection, mitigation, and enhancement measures (PM&Es). These proposed PM&Es were then compiled into a series of programs in this RRMP.

The RRMP was prepared under the authority of 18 Code of Federal Regulations (CFR) 4.51 (f) (5), which identifies the need to define the responsibilities of parties when public recreation facilities are to be provided at a hydroelectric project, and to prepare a recreation plan or RRMP. Taken as a whole, the RRMP represents a single “umbrella” PM&E measure for recreation resources for the Project. The RRMP is specific to PacifiCorp’s role and does not make management or resource commitments for other agencies, tribes, or organizations.

The draft RRMP was originally submitted to FERC on February 25, 2004, as an appendix to the Final License Application (FLA). Since submission of the FLA, a draft Historic Properties Management Plan (HPMP) has been developed. Several potential recreation development conflicts were identified during the development of the draft HPMP. These potential conflicts have been resolved and are reflected in this revised draft RRMP.

This introductory section describes key concepts or elements of the RRMP including:

- User’s Guide to help the reader
- Purpose and intent of the RRMP
- Long-term vision of the RRMP
- Overview of the eight RRMP implementation programs:
  - Recreation facility development/capital improvement program
  - Recreation operations and maintenance (O&M) program
  - Whitewater boating and river-based fishing program
  - Recreation monitoring program

- Resource integration and coordination program
  - Plan review and update program
  - Interpretation and education (I&E) program
  - Aesthetic/visual resource enhancement program
- Explanation of terms and conditions used in the RRMP

## 1.1 USER'S GUIDE

This section is a user's guide to help clarify potential conflicts or ambiguity in implementing the RRMP during the term of the new license. If the authority or action is unclear or contradictory, the following prioritized list of agreements, plans, or documents will guide decision-makers. The priority plan hierarchy is as follows (first to last):

- FERC license terms and conditions.
- Project Resource Management Plans, including the final RRMP and associated detailed sections and exhibits.
- Project Resource Management Plans, including the final RRMP and associated broader goals, objectives and vision statements.

Potential conflicts or ambiguity in implementing the final RRMP may be discussed and addressed during annual recreation coordination meetings and during RRMP review. Potential revisions to the RRMP may occur at least every 12 years to coincide with reporting associated with the Recreation Monitoring Program (Section 4.4).

## 1.2 PURPOSE AND INTENT

The purpose of the RRMP is to specify PacifiCorp's involvement, role and responsibilities in implementing the recreation resource components of the proposed Project. At a later time, the RRMP will be updated and finalized to reflect the subsequent FERC license terms and conditions. These directives would be presented in Exhibit B—FERC License Terms and Conditions.

PacifiCorp's role includes managing and operating existing and future recreation facilities and use areas associated with the Project including site-specific and programmatic measures. The RRMP identifies measures for existing and proposed recreation resources and describes programs designed to implement those measures. More specifically, the RRMP is an implementation tool to be used to plan, design, construct, renovate, monitor, fund, operate, and maintain existing and future public recreation facilities and programs in the Project area for the term of the new license.

Eight programs are presented in the RRMP that are intended to implement site-specific and programmatic measures. These proposed measures were developed by PacifiCorp with input from agencies, tribes, and other stakeholders. Recreation resource technical

studies conducted by EDAW, Inc. for PacifiCorp were also used as a basis for decision-making and development of the RRMP.

### 1.3 PLAN VISION

The long-term vision for recreation resources in the Project area has been defined by PacifiCorp with input from stakeholders during the relicensing process. This vision includes how Project-related recreation resources, including existing and potential recreation facilities (Figure 1.3-1), should be managed for the term of the new license and includes:

- Balancing power and non-power values that also maintains or enhances the region's recreational resources (southern Oregon and northern California);
- Recognizing that not all recreation needs can be accommodated within the Project area because of the need to balance several competing natural and/or cultural resource protection needs and power generation;
- Recognizing that different Project reservoirs and river reaches represent different types of recreational settings along a spectrum from semi-primitive motorized to rural, including Project facilities. It is the desire of the stakeholders and PacifiCorp to preserve this existing range of settings and experiences into the future;
- Upgrading the quality of Project recreation facilities to enhance visitor experiences, protect natural and cultural resources, provide for improved accessibility, and improve facility maintenance and visitor management;
- Making enhancements to or expanding existing developed Project recreation facilities before creating new facilities;
- Acknowledging that conditions may change over time and that monitoring change through adaptive management techniques is an appropriate strategy to manage recreation resources in the future;
- Increasing the monitoring and management of Project recreation resources including recreation facility capacity, shoreline dispersed recreation use, and others (see Section 4.4 - Recreation Monitoring Program); and
- Recognize that some areas outside of the proposed Project boundary (including Link River, Keno reservoir, and Frain Ranch) are of continuing interest to members of the RWG or other stakeholders.

Although this RRMP includes the development of new recreation opportunities and expansion of existing ones through the term of the new license, it is the intent of the RRMP to retain the different existing recreation settings found in the Project area to the greatest extent possible. These different settings are defined as four recreation land

classifications, including semi-primitive motorized, roaded natural, rural and project facilities (Figure 1.3-2) modeled after the USDA Forest Service's (USDA-FS) Recreation Opportunity Spectrum (ROS) planning framework (Clark and Stankey 1979).

Existing recreation management as well as future recreation development as defined in the RRMP will be consistent with these four recreation land classifications as defined below.

- Semi-Primitive Motorized (SPM) – Occasional evidence of human activity, including some minor structures. Predominantly natural environment.
- Roaded Natural (RN) – Moderate evidence of human activity, including occasional docks and other minor structures; occasional single-family homes or cabins. The setting is predominantly natural in appearance, but may include regularly maintained, light duty roads.
- Rural (R) – Human activity/presence is highly evident. Man-made structures are frequent and may be dominant features of the landscape. Natural environment is substantially modified but is still rural in nature.
- Project Facilities (PF) – Human activity/presence and man-made structures are a dominant feature of the landscape. This highly modified environment includes Project facilities such as dams, powerhouses, switching stations, and transmission lines.

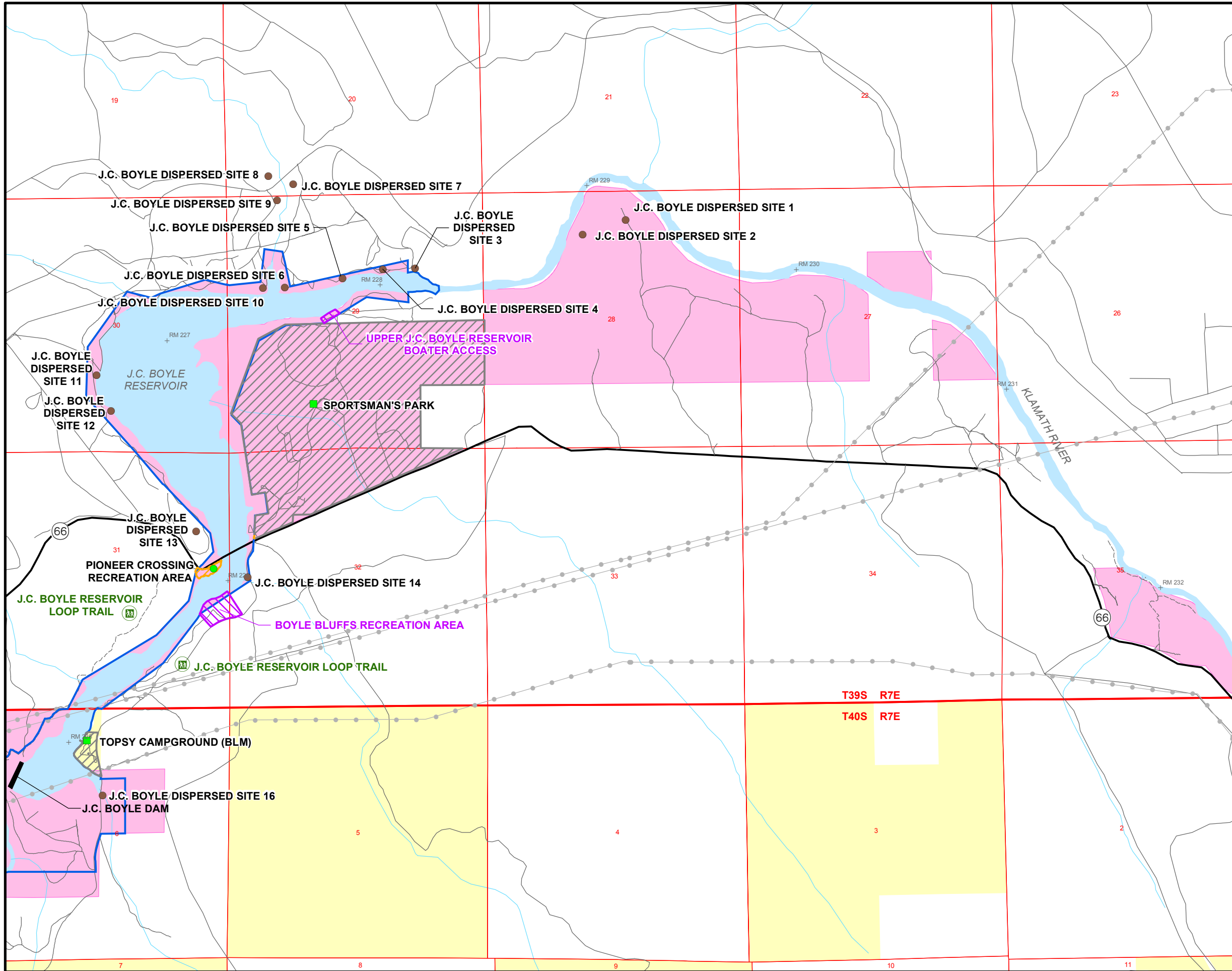
In addition, six geographic recreation management units (A—J.C. Boyle Reservoir, B—J.C. Boyle Bypass Reach, C—Upper River Reach, D—Lower River Reach, E—Copco Reservoir, and F—Iron Gate Reservoir) have been defined (Figure 1.3-2). These management units are referred to and used in the Recreation Monitoring Program (Section 4.4) for future data collection and analysis purposes and will be used to help guide future RRMP decision-making.

#### 1.4 IMPLEMENTATION PROGRAMS

This section provides an overview of the RRMP's eight programs. These programs include PacifiCorp's responsibilities for implementing proposed recreation resource actions to address existing and future Project-related needs in the Project area. These responsibilities may be amended by future FERC license terms and conditions (Exhibit B—FERC License Terms and Conditions).

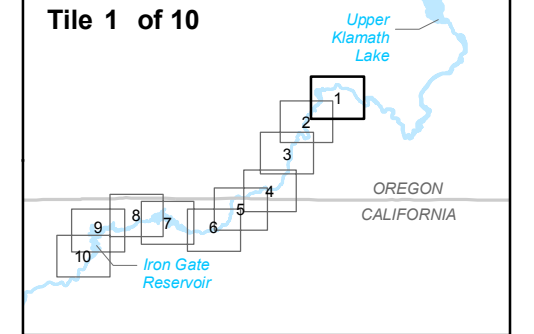
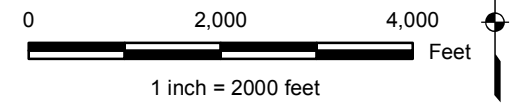
The eight RRMP programs include:

- **Recreation Facility Development/Capital Improvement Program** (Section 4.1)— defines PacifiCorp's construction-related responsibilities, identifies proposed recreation development projects, provides estimated costs for recreation measures, identifies locations and conceptual layouts of the development measures, and discusses general facility development standards and criteria to be used. In a few



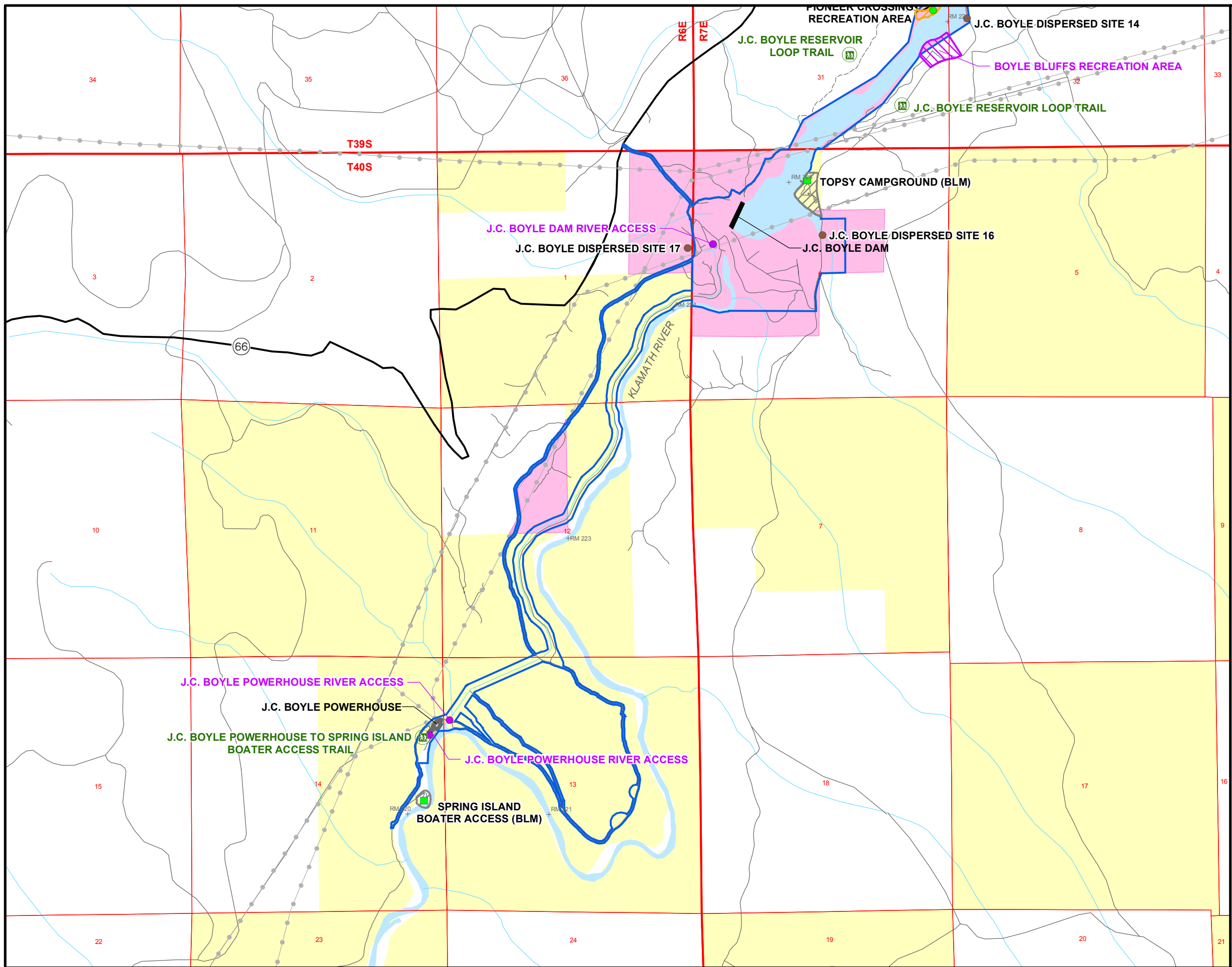
**LEGEND**

- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- DISPERSED RECREATION SITE
- TRAILHEAD
- POTENTIAL TRAIL
- CITY
- PROPOSED FERC BOUNDARY
- HIGHWAY
- ROAD
- TRAIL
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- SECTION
- STREAM
- LAKE, RESERVOIR, OR RIVER
- PACIFICORP PROPERTY
- BLM
- USFS



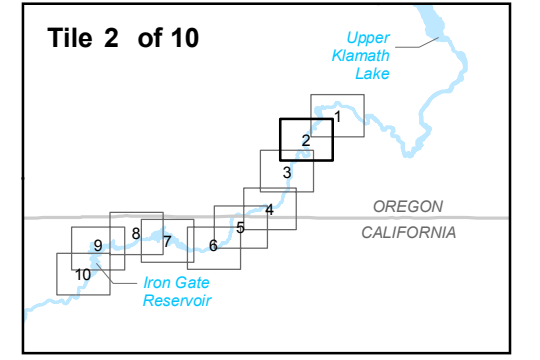
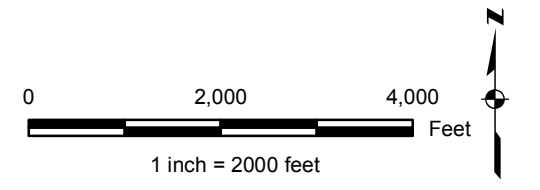
**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 1 of 10)**  
Project Recreation Sites



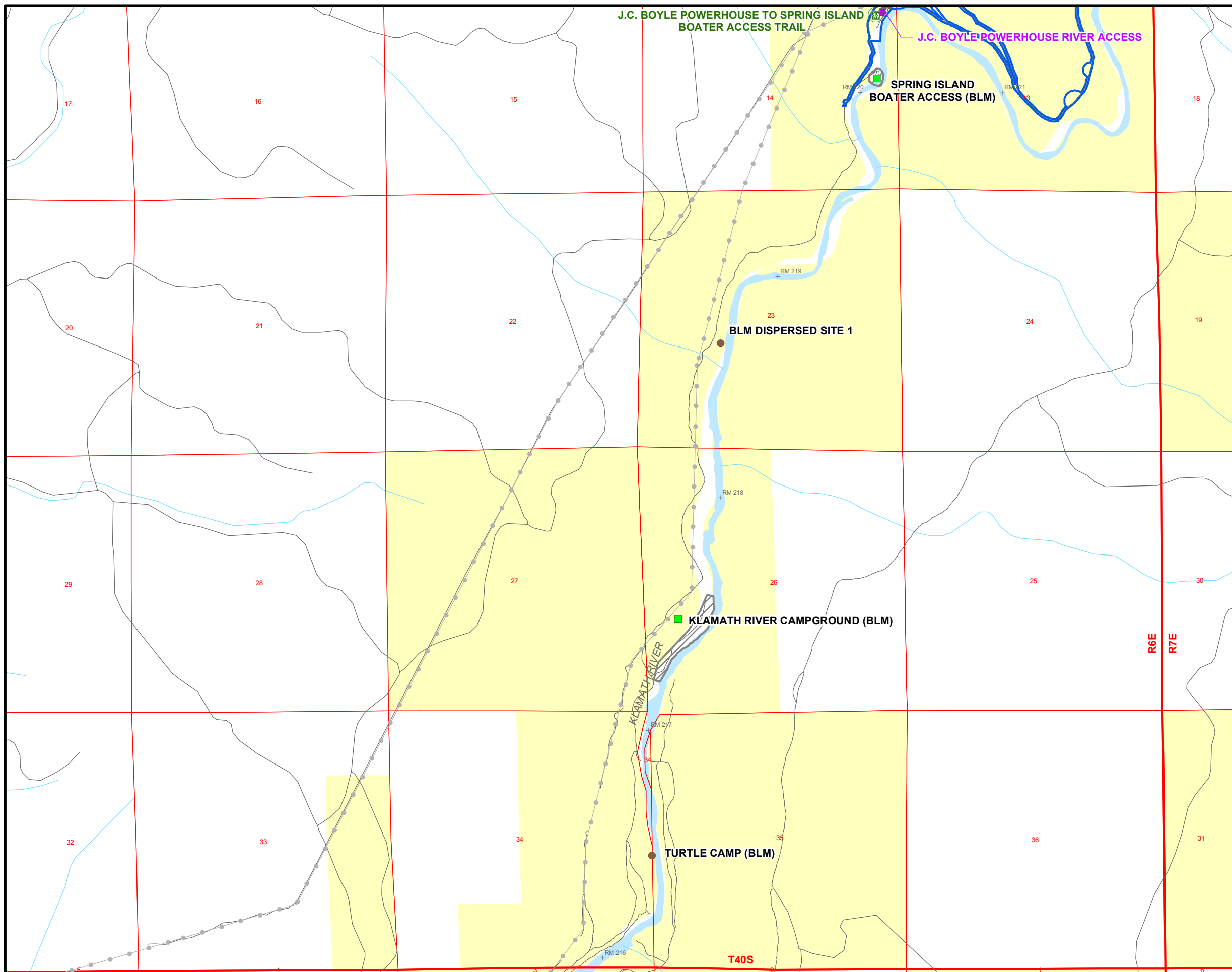
**LEGEND**

- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- DISPERSED RECREATION SITE
- TRAILHEAD
- POTENTIAL TRAIL
- CITY
- PROPOSED FERC BOUNDARY
- HIGHWAY
- ROAD
- TRAIL
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- SECTION
- STREAM
- LAKE, RESERVOIR, OR RIVER
- PACIFICORP PROPERTY
- BLM
- USFS

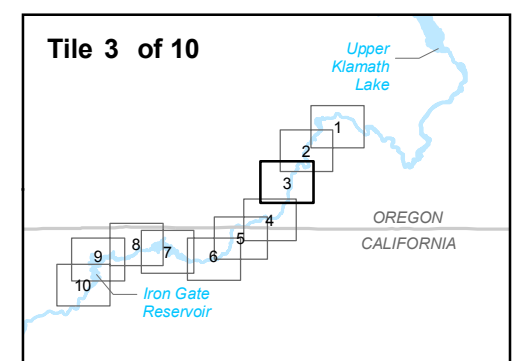
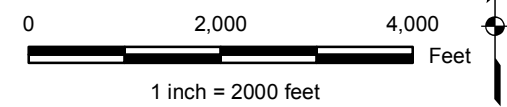


**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 2 of 10)**  
Project Recreation Sites

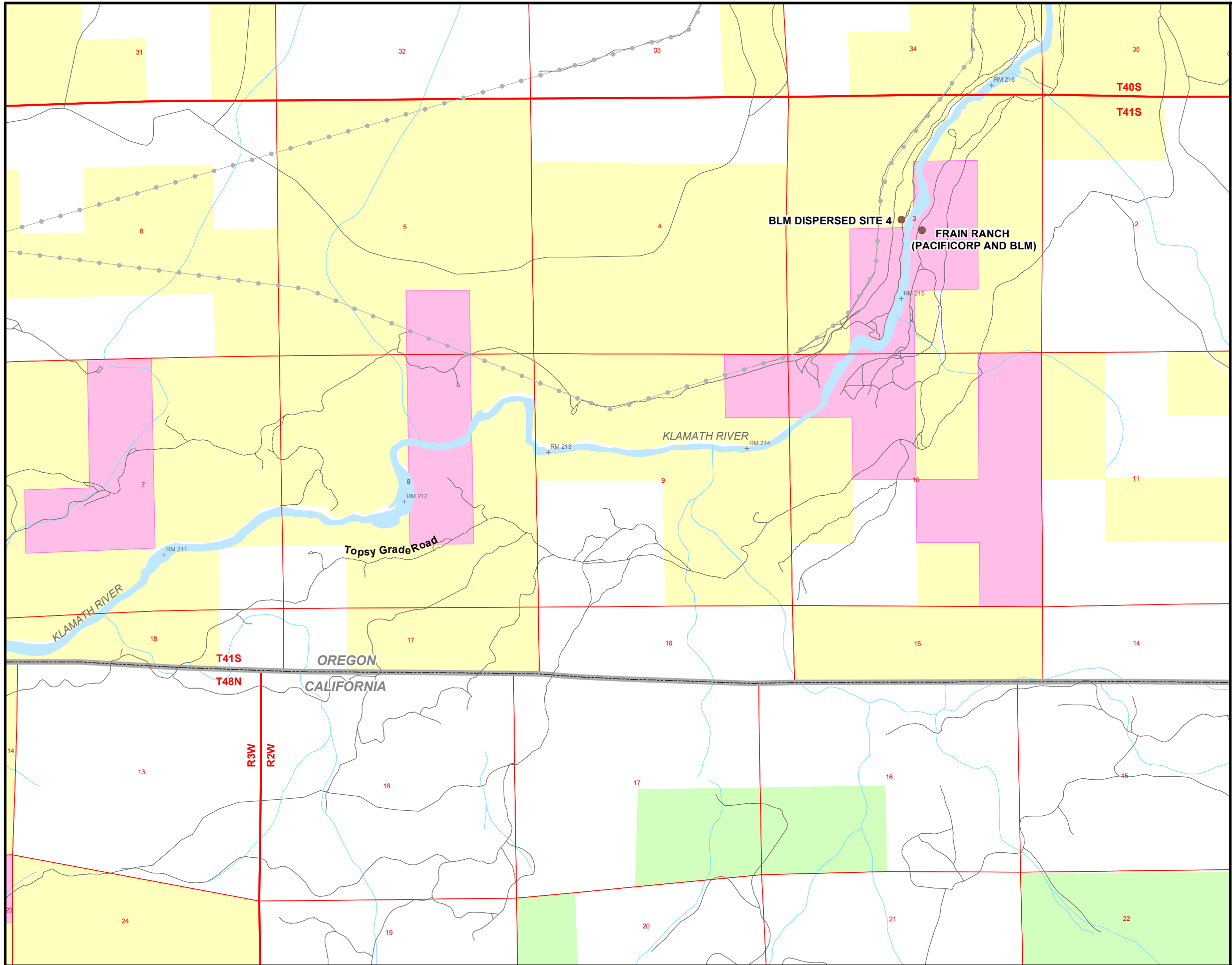


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS



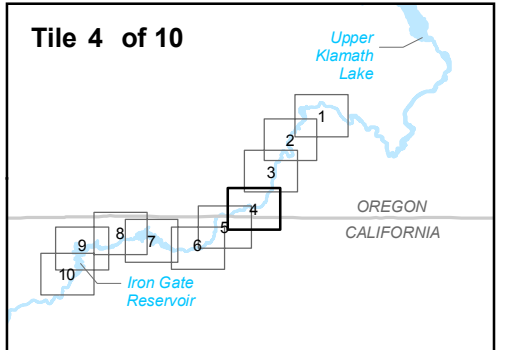
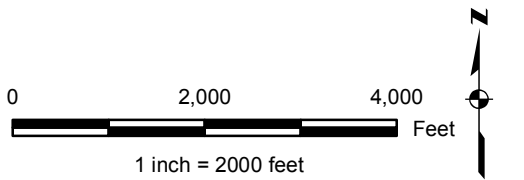
**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 3 of 10 )**  
Project Recreation Sites



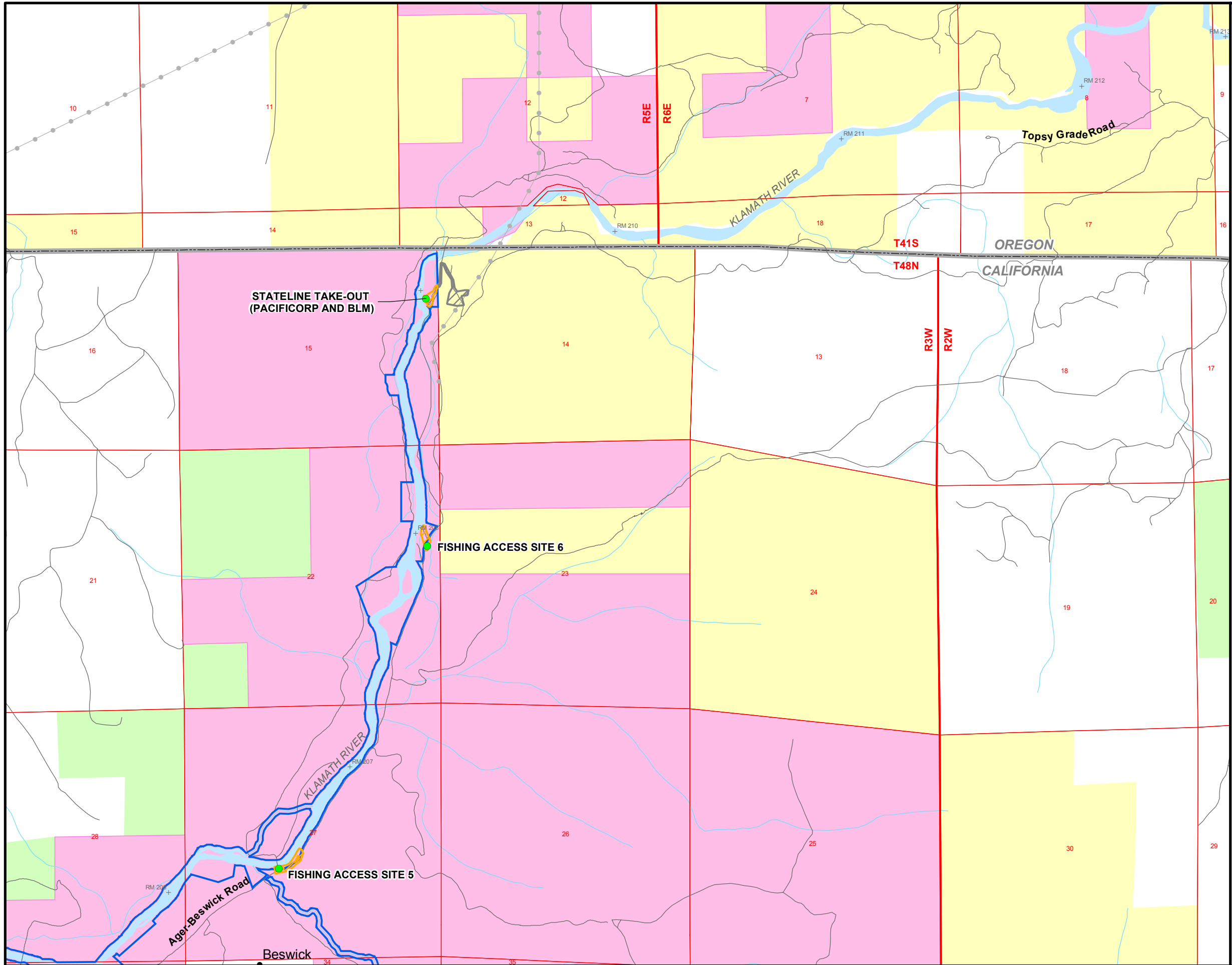
**LEGEND**

- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- DISPERSED RECREATION SITE
- TRAILHEAD
- POTENTIAL TRAIL
- CITY
- PROPOSED FERC BOUNDARY
- HIGHWAY
- ROAD
- TRAIL
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- SECTION
- STREAM
- LAKE, RESERVOIR, OR RIVER
- PACIFICORP PROPERTY
- BLM
- USFS

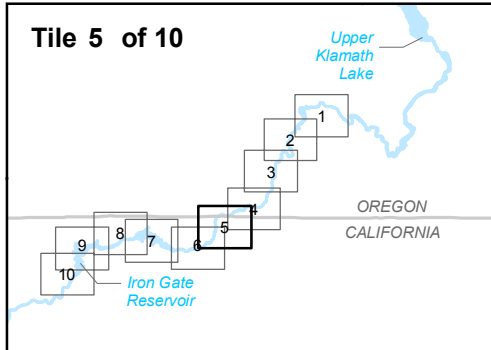
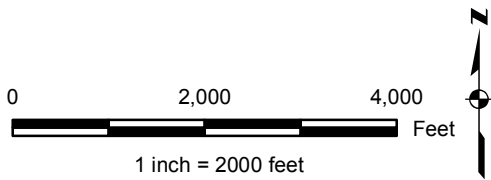


**Klamath Hydroelectric Project**  
**Figure 1.3-1 ( 4 of 10 )**  
Project Recreation Sites



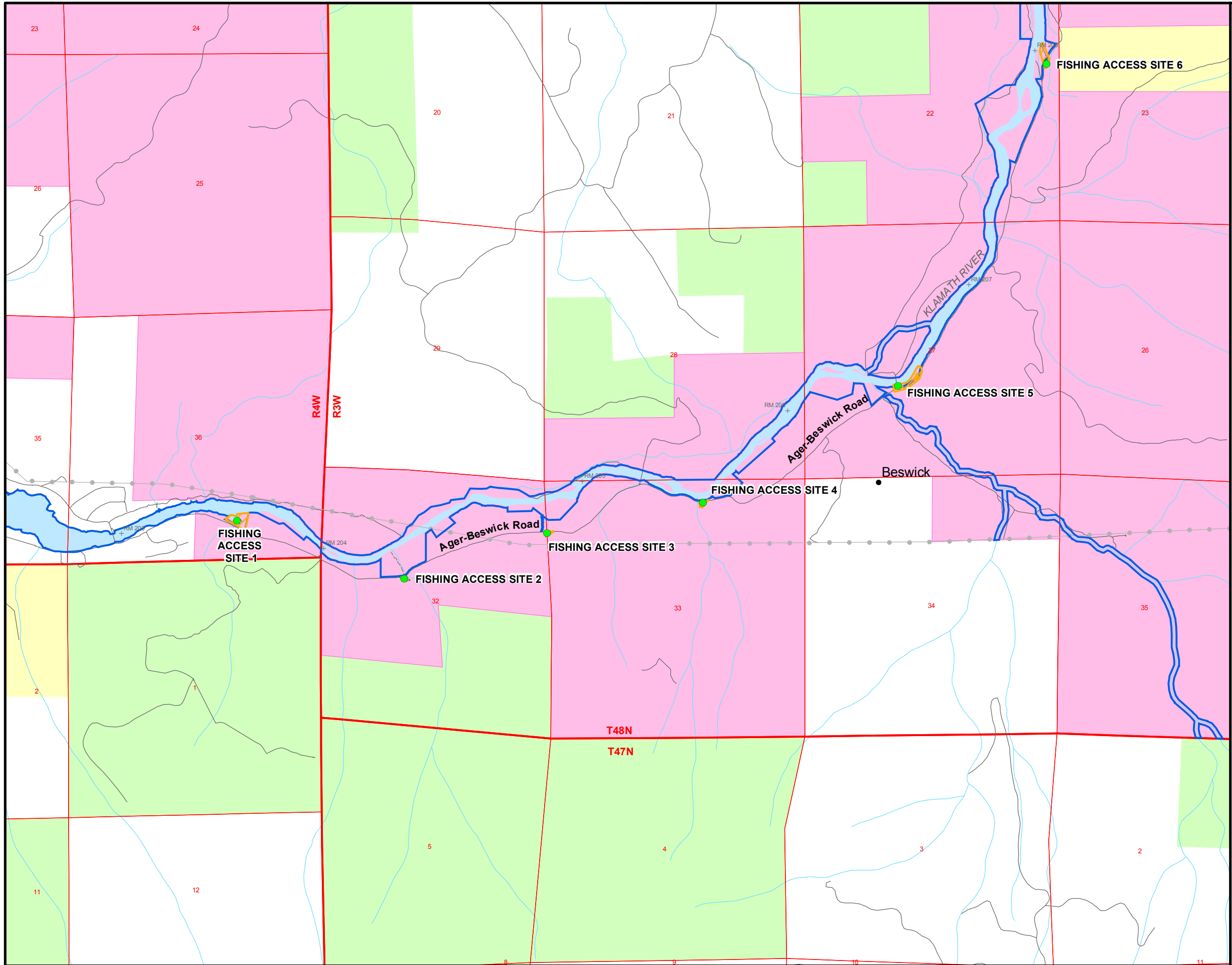


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICCORP PROPERTY
  - BLM
  - USFS

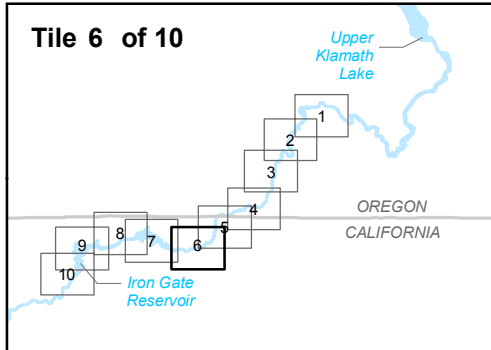
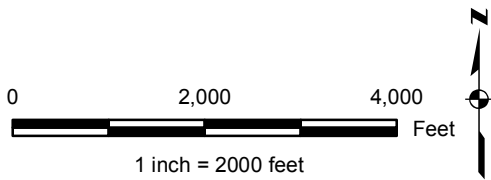


**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 5 of 10 )**  
Project Recreation Sites

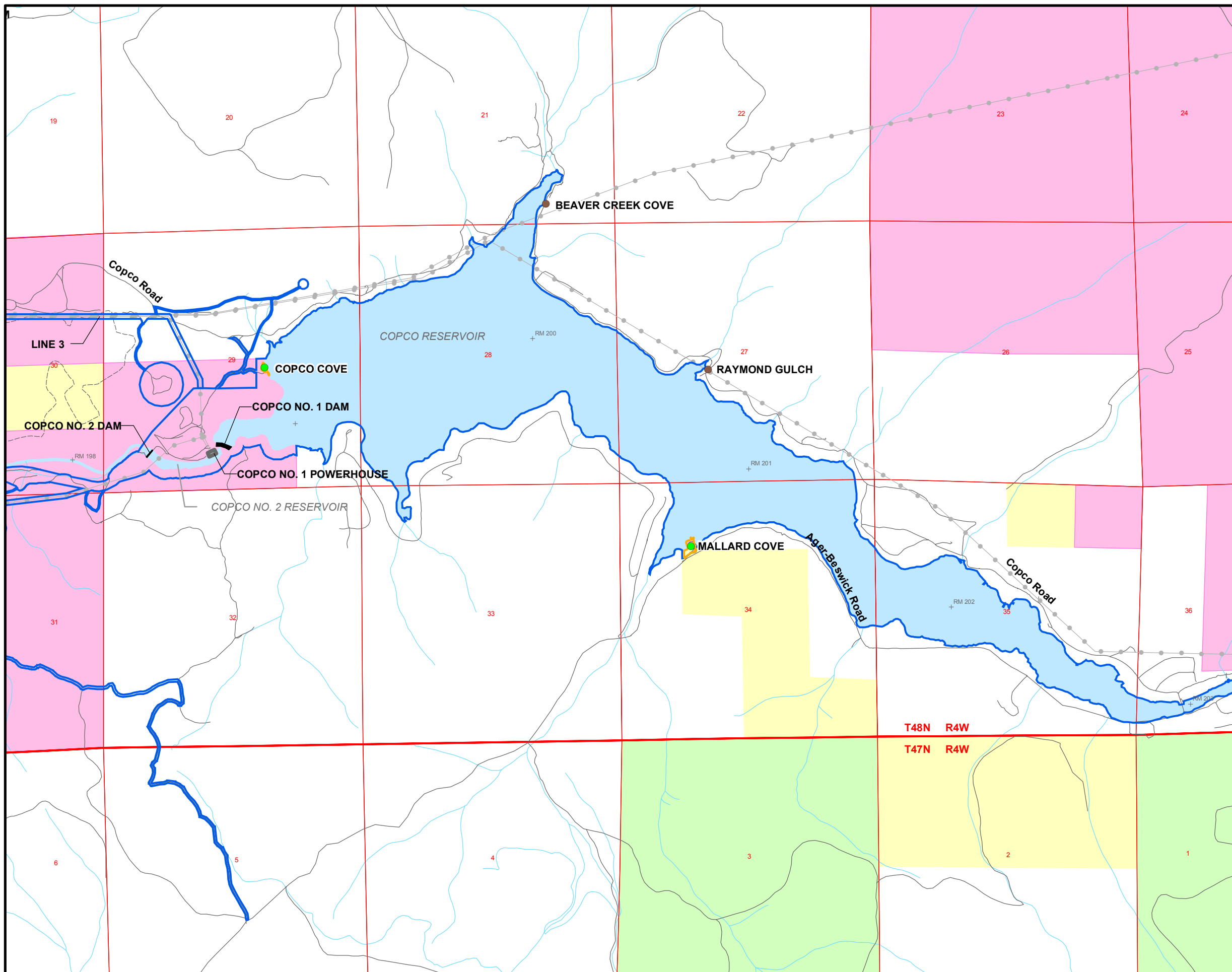


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS










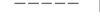




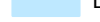





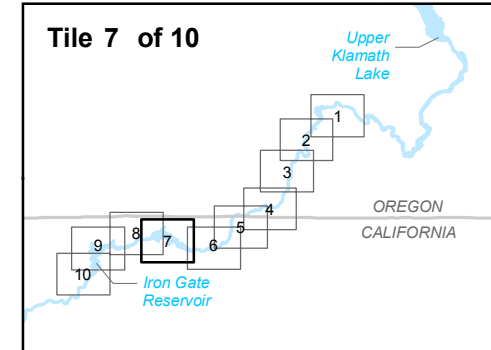
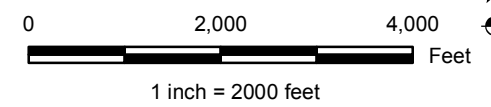
**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 6 of 10 )  
Project Recreation Sites**



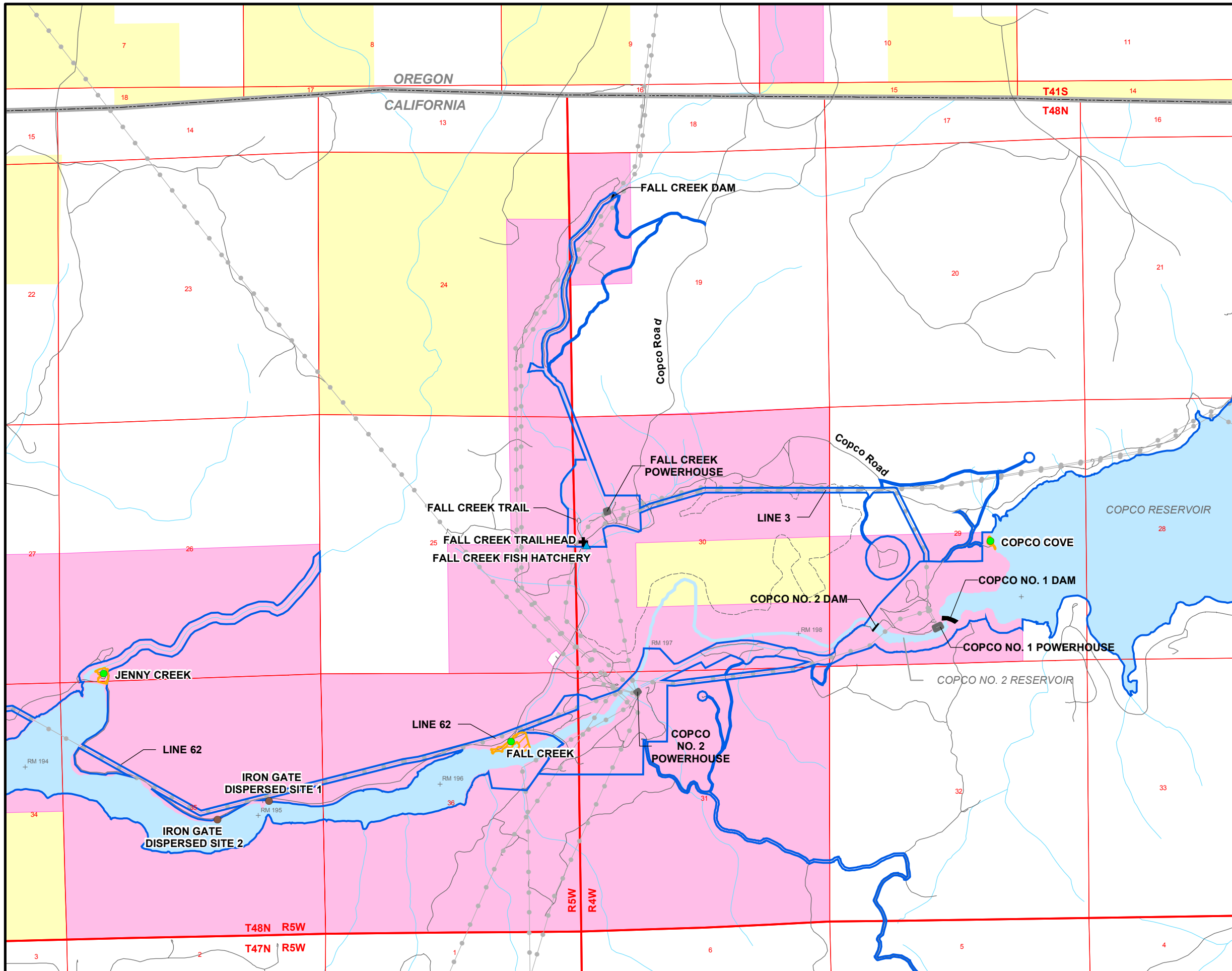
**LEGEND**

-  FISH HATCHERY
-  DEVELOPED RECREATION SITE
-  DEVELOPED NON-PROJECT RECREATION SITE
-  PROPOSED PROJECT RECREATION SITE
-  DISPERSED RECREATION SITE
-  TRAILHEAD
-  POTENTIAL TRAIL
-  CITY
-  PROPOSED FERC BOUNDARY
-  HIGHWAY
-  ROAD
-  TRAIL
-  TRANSMISSION LINE
-  TOWNSHIP/RANGE
-  SECTION
-  STREAM
-  LAKE, RESERVOIR, OR RIVER
-  PACIFICORP PROPERTY
-  BLM
-  USFS










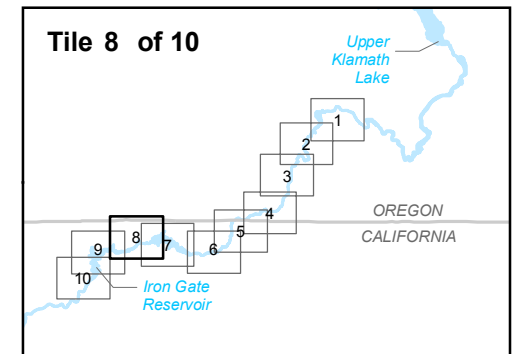
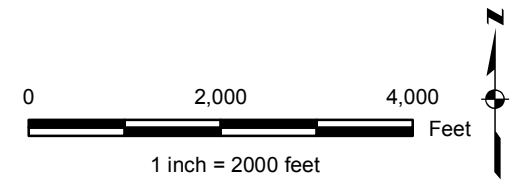
**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 7 of 10)**  
Project Recreation Sites



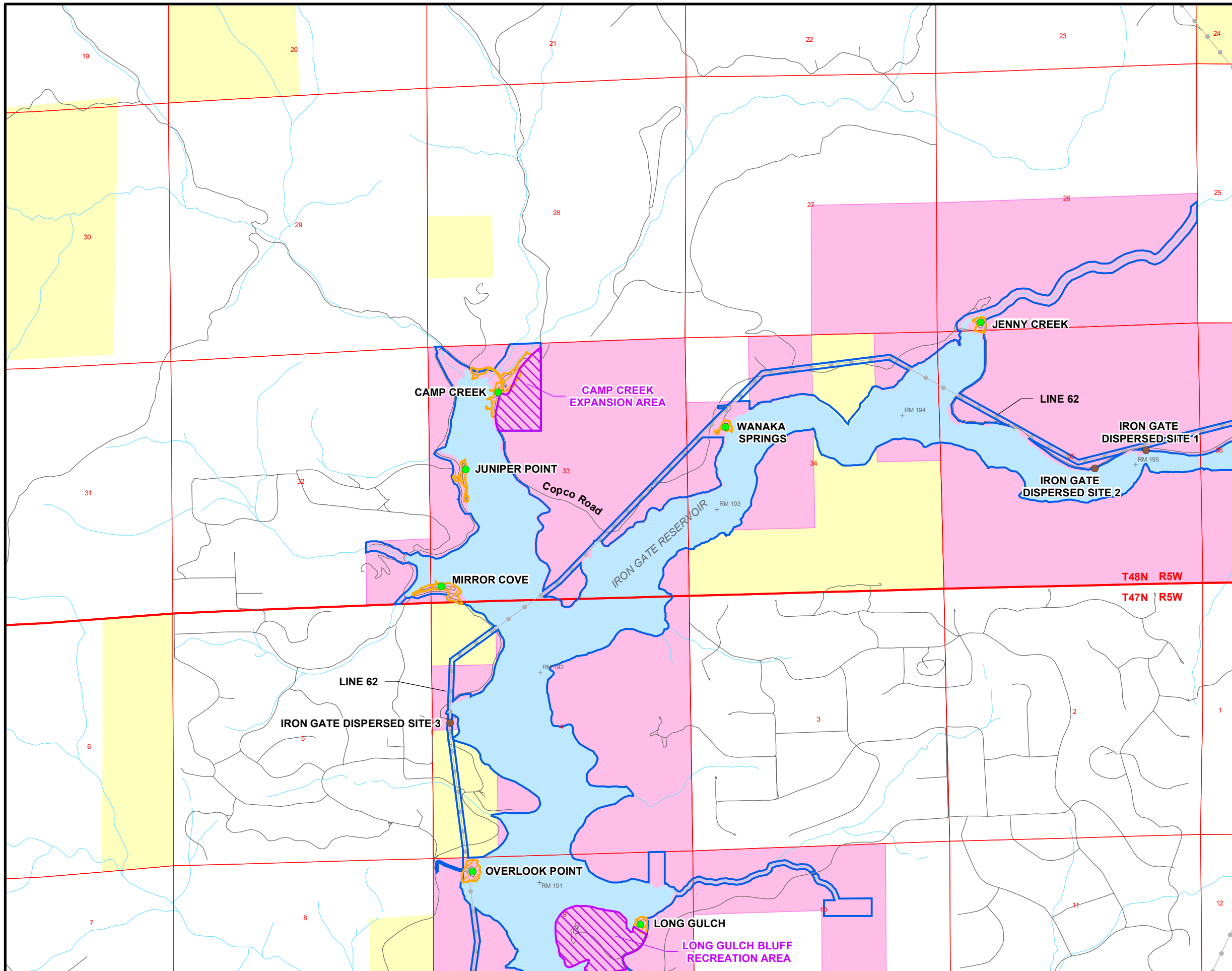
**LEGEND**

-  FISH HATCHERY
-  DEVELOPED RECREATION SITE
-  DEVELOPED NON-PROJECT RECREATION SITE
-  PROPOSED PROJECT RECREATION SITE
-  DISPERSED RECREATION SITE
-  TRAILHEAD
-  POTENTIAL TRAIL
-  CITY
-  PROPOSED FERC BOUNDARY
-  HIGHWAY
-  ROAD
-  TRAIL
-  TRANSMISSION LINE
-  TOWNSHIP/RANGE
-  SECTION
-  STREAM
-  LAKE, RESERVOIR, OR RIVER
-  PACIFICORP PROPERTY
-  BLM
-  USFS

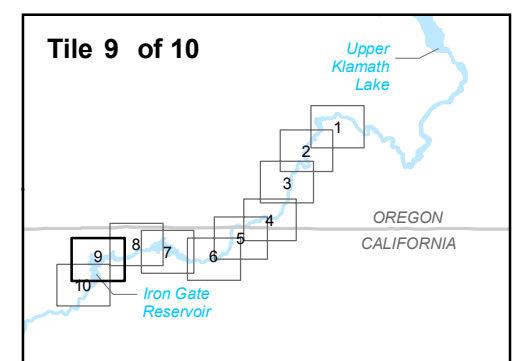
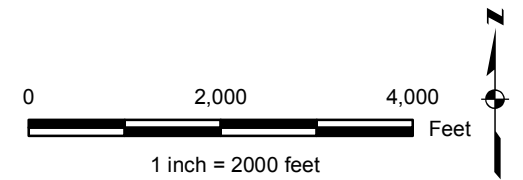


**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 8 of 10 )  
Project Recreation Sites**

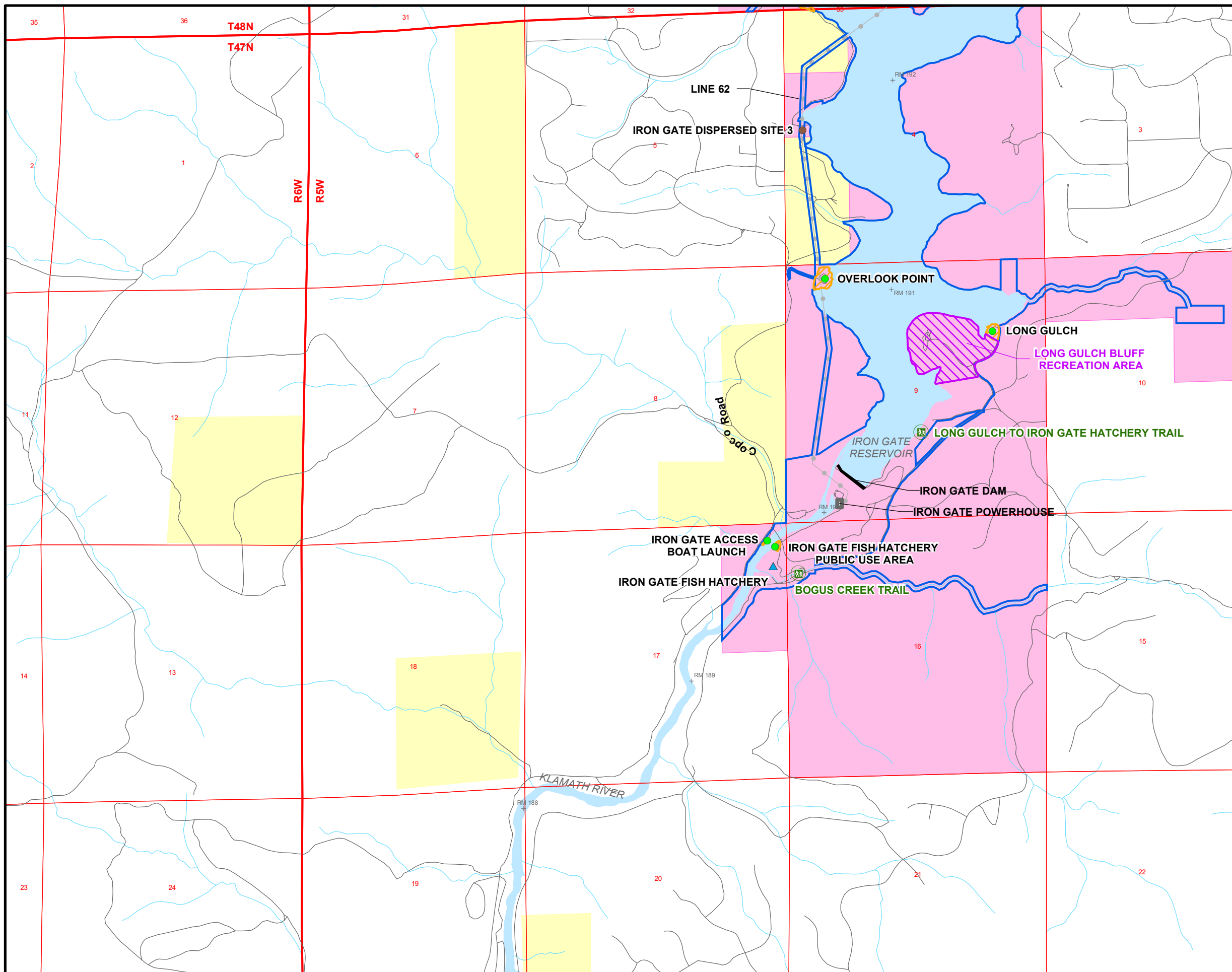


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS























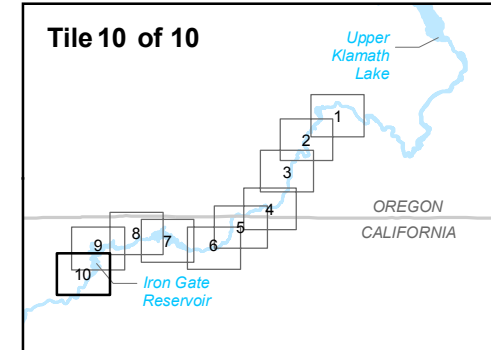
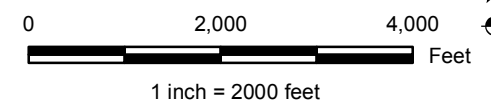
**Klamath Hydroelectric Project**

**Figure 1.3-1 ( 9 of 10 )**  
Project Recreation Sites



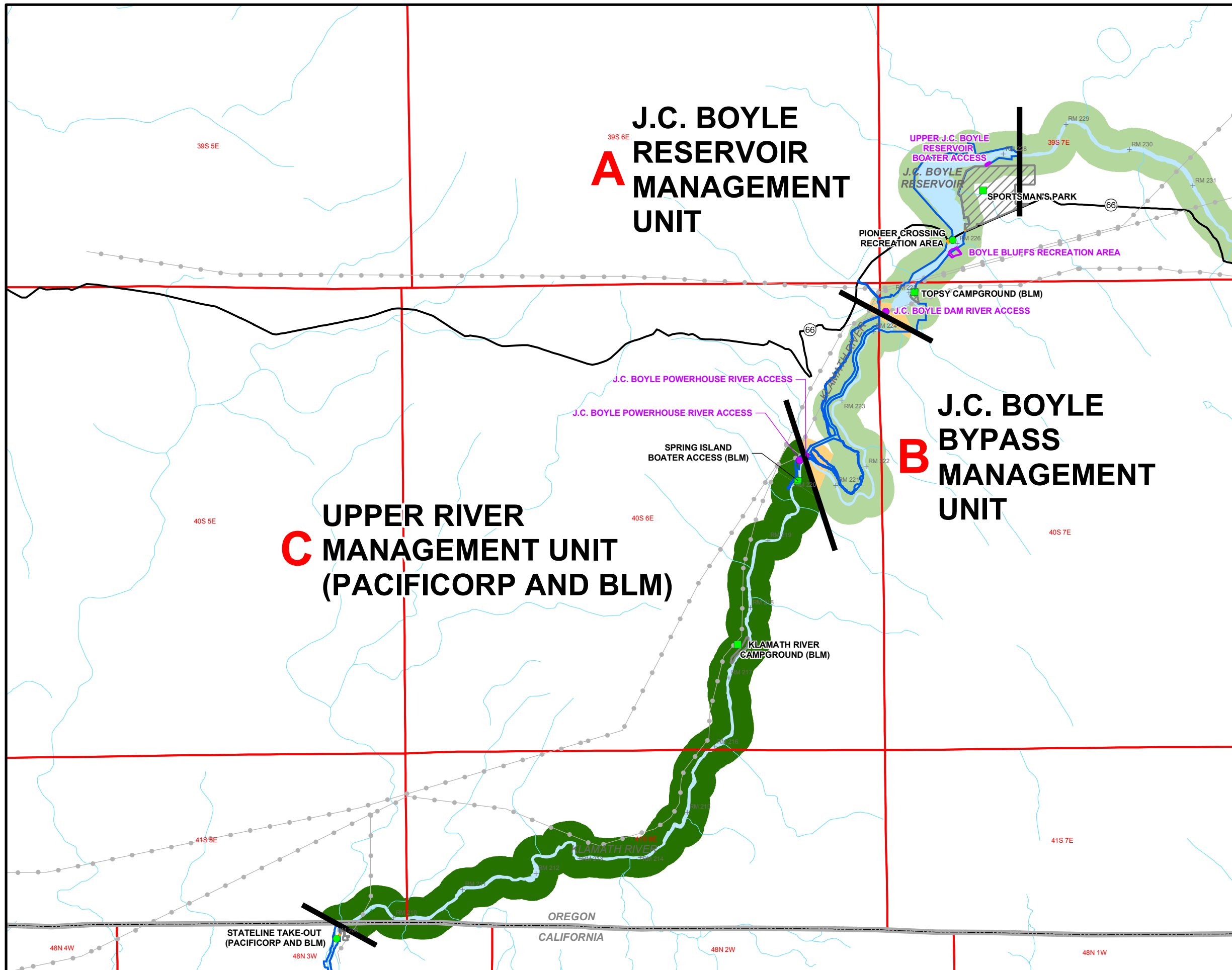
**LEGEND**

-  FISH HATCHERY
-  DEVELOPED RECREATION SITE
-  DEVELOPED NON-PROJECT RECREATION SITE
-  PROPOSED PROJECT RECREATION SITE
-  DISPERSED RECREATION SITE
-  TRAILHEAD
-  POTENTIAL TRAIL
-  CITY
-  PROPOSED FERC BOUNDARY
-  HIGHWAY
-  ROAD
-  TRAIL
-  TRANSMISSION LINE
-  TOWNSHIP/RANGE
-  SECTION
-  STREAM
-  LAKE, RESERVOIR, OR RIVER
-  PACIFICORP PROPERTY
-  BLM
-  USFS



**Klamath Hydroelectric Project**

**Figure 1.3-1 (10 of 10)**  
Project Recreation Sites



**LEGEND**

**RECREATION SETTINGS**

- SEMI-PRIMITIVE MOTORIZED
- ROUTED NATURAL
- RURAL
- PROJECT FACILITIES
- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- PROPOSED FERC BOUNDARY
- HIGHWAY
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- STREAM
- LAKE, RESERVOIR, OR RIVER

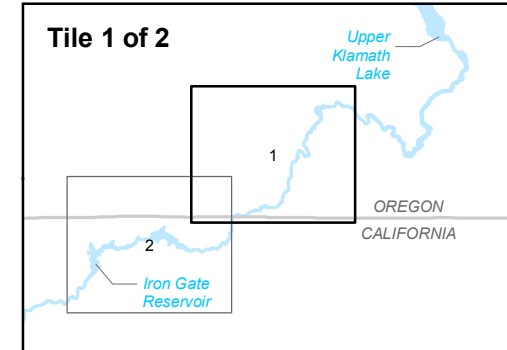
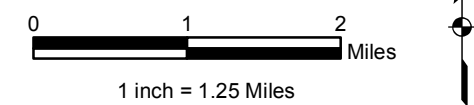
**RECREATION SETTINGS**

**Semi-Primitive Motorized**  
Occasional evidence of human activity, including some minor structures. Predominantly natural environment.

**Routed Natural**  
Moderate evidence of human activity, including occasional docks and other minor structures; occasional single-family homes or cabins. The setting is predominantly natural in appearance, but may include regularly maintained, light duty roads.

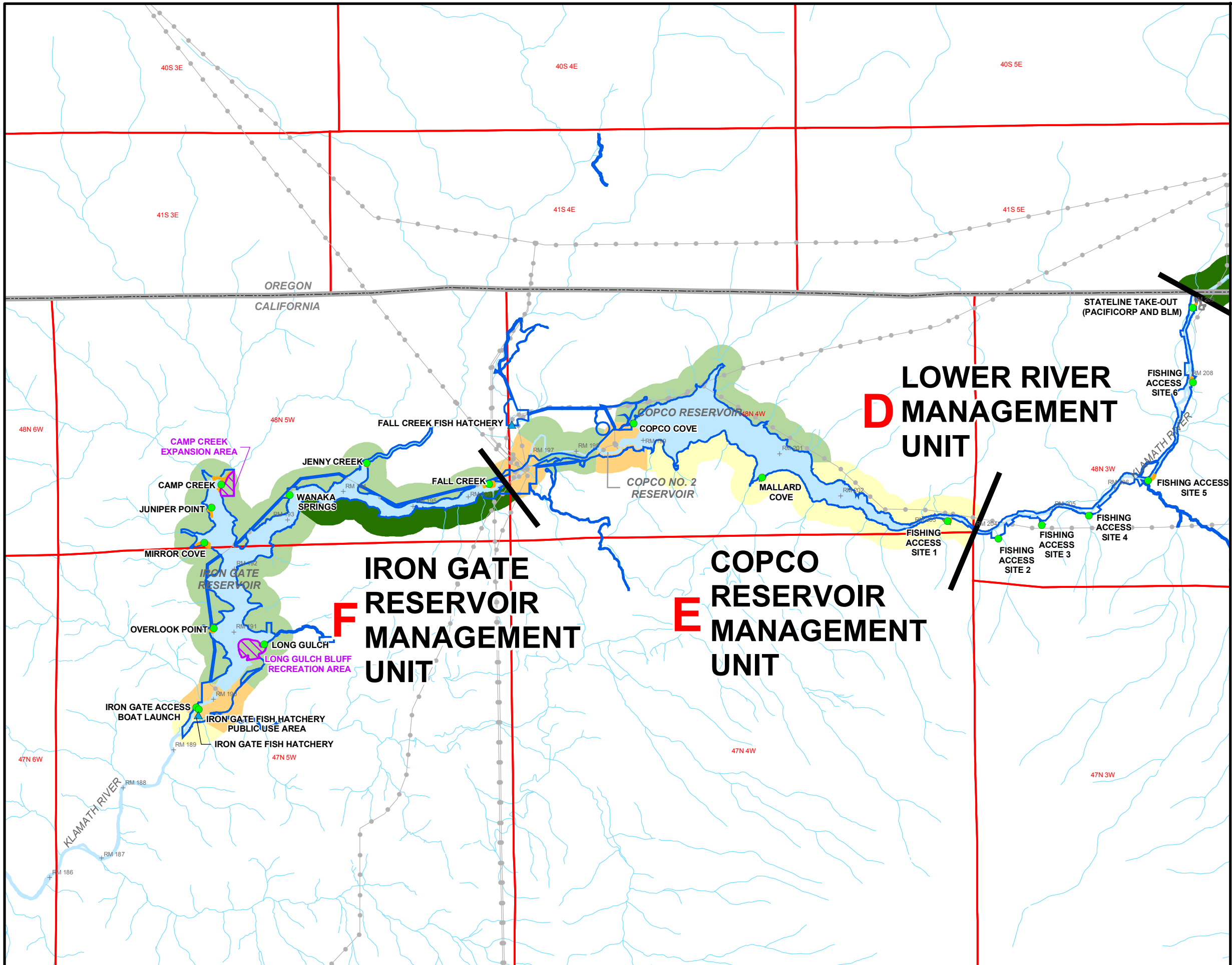
**Rural**  
Human activity/presence is highly evident. Man-made structures are frequent and may be dominant features of the landscape. Natural environment is substantially modified but is still rural in nature.

**Project Facilities**  
Human activity/presence and man-made structures are a dominant feature of the landscape. This highly modified environment includes project facilities such as dams, powerhouses, switching stations, and transmission lines.



**Klamath Hydroelectric Project**

**Figure 1.3-2 (1 of 2)**  
Recreation Settings and Management Units



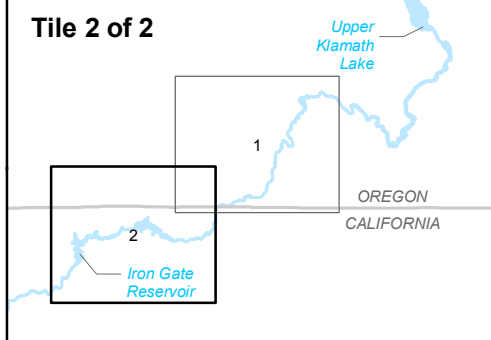
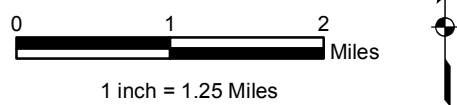
**LEGEND**

**RECREATION SETTINGS**

- SEMI-PRIMITIVE MOTORIZED
- ROUTED NATURAL
- RURAL
- PROJECT FACILITIES
- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- PROPOSED FERC BOUNDARY
- HIGHWAY
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- STREAM
- LAKE, RESERVOIR, OR RIVER

**RECREATION SETTINGS**

- Semi-Primitive Motorized**  
Occasional evidence of human activity, including some minor structures. Predominantly natural environment.
- Routed Natural**  
Moderate evidence of human activity, including occasional docks and other minor structures; occasional single-family homes or cabins. The setting is predominantly natural in appearance, but may include regularly maintained, light duty roads.
- Rural**  
Human activity/presence is highly evident. Man-made structures are frequent and may be dominant features of the landscape. Natural environment is substantially modified but is still rural in nature.
- Project Facilities**  
Human activity/presence and man-made structures are a dominant feature of the landscape. This highly modified environment includes project facilities such as dams, powerhouses, switching stations, and transmission lines.



**Klamath Hydroelectric Project**

**Figure 1.3-2 (2 of 2)**  
Recreation Settings and Management Units



cases, proposed partnerships with Bureau of Land Management (BLM) are identified pending future agreements.

- **Recreation Operations and Maintenance (O&M) Program** (Section 4.2)—defines PacifiCorp’s O&M responsibilities, provides estimated costs for O&M, and discusses general facility and use area maintenance standards to be followed. In a few cases, proposed partnerships with BLM are identified pending future agreements. Land and on-water law enforcement are also discussed.
- **Whitewater Boating and River-Based Fishing Program** (Section 4.3)—defines PacifiCorp’s proposed flows and discusses proposed facility development/capital improvement and O&M enhancements in the Project area related to whitewater boating and river-based fishing opportunities.
- **Recreation Monitoring Program** (Section 4.4)—defines PacifiCorp responsibilities related to periodic recreation resource monitoring in the Project area. This program includes a Limits of Acceptable Change (LAC)-type framework with indicators and standards used in monitoring. Other features include definitions of basic annual monitoring needs including use levels and resource conditions, additional periodic monitoring and reporting responsibilities, and a decision-making framework related to when new facility construction would be triggered.
- **Resource Integration and Coordination Program** (Section 4.5)—defines how recreation resource issues and needs identified in the RRMP will be coordinated and integrated with other resource areas over the term of the new license, such as wildlife, cultural and aquatic resources. Periodic coordination meetings are anticipated over the term of the new license to address these multi-resource coordination needs.
- **Plan Review and Update Program** (Section 4.6)—defines how and when the RRMP will be updated or revised over the term of the new license.
- **Interpretation and Education (I&E) Program** (Section 4.7)—identifies I&E needs in the study area and describes how the program will be cooperatively developed with other recreation providers in the Project vicinity. A more detailed plan for the I&E Program will be developed after the new license is issued by FERC. This plan will be developed in cooperation with BLM and other agencies and tribes in the Project vicinity. PacifiCorp will have a shared role, but not the sole responsibility, for implementing actions in the plan. The I&E Program will specify actions to be implemented over the anticipated term of the new license.
- **Aesthetic/Visual Resource Enhancement Program** (Section 4.8)—identifies actions and measures to enhance visual resources associated with the Project. The program identifies specific actions to be taken by PacifiCorp, such as the vegetative screening of industrial Project facilities and the repainting or recoating of Project penstocks, surge tank, and other Project facilities within the viewshed of nearby, sensitive public viewpoints.

## 1.5. TERMS AND DEFINITIONS

Key terms and concepts used throughout the RRMP that are relevant to recreation planning for the Project include:

- PacifiCorp - a U.S. Division of Scottish Power.
- Project - The Klamath Hydroelectric Project, FERC Project No. 2082.
- Project boundary - The FERC Project boundary as amended in the new license, including Project reservoir and river reach recreation sites (see Exhibit A of the new FERC license application for amended Project boundaries [not attached]).
- Project-related recreation need - The existing and future public recreation facilities, use areas, and programs that have been developed or are needed as a direct result of the development and operation of the Project and are assigned to PacifiCorp.
- Project water bodies - The bodies of water that have been created by the Project including the three reservoirs (J.C. Boyle reservoir, Copco reservoir, and Iron Gate reservoir).
- Project vicinity - The area of potential affect of the Project that is principally located within, and adjacent to, the FERC Project boundary surrounding J.C. Boyle, Copco, and Iron Gate reservoirs, as well as the Upper Klamath River/Hell's Corner reach.
- License - The FERC license for the Klamath Hydroelectric Project, FERC Project No. 2082.

## 2.0 GOALS AND OBJECTIVES

To meet the purpose and intent of the RRMP, PacifiCorp developed goals and objectives that will help guide existing and future recreation planning and design activities in the Project area and overall decision-making during the term of the new license. Ten RRMP goals and their respective objectives for Project-related recreation resources are listed below.

### **Goal 1: Protect, maintain, and/or enhance public recreation resources in the Project area.**

Objective 1a: Provide and operate identified public recreation facilities and use areas that respond to visitor preferences and help accommodate recreation needs in the Project area.

### **Goal 2: Provide for existing public recreation needs in the Project area.**

Objective 2a: Enhance and improve the condition of existing recreation facilities, consider use patterns and visitor survey preferences when meeting public recreation needs, and provide adequate resource protection.

Objective 2b: Provide for Americans with Disabilities Act (ADA)-related and health and safety needs of recreation visitors.

### **Goal 3: Provide for future public recreation needs in the Project area.**

Objective 3a: Provide for future changes in recreation demand and resulting needs including the potential emergence of new recreation technologies and preferences.

Objective 3b: Provide additional new or upgraded public recreation facilities upon validation of future needs based upon monitoring of existing Project recreation facility use and demand.

Objective 3c: Provide future ADA-related improvements and upgrades at recreation facilities in the Project area to comply with changing accessibility regulations and guidelines over time.

### **Goal 4: Provide safe public access to, and use of, Project water bodies and their shorelines.**

Objective 4a: Provide enhanced public recreation access to Project water bodies as identified in Project relicensing studies, including shoreline hiking and fishing trails, shoreline campgrounds and group campsites, boat launches, shoreline day use areas, and boater and angler access sites.

Objective 4b: Provide informational signs or other methods to alert boaters, anglers, and other users about potential operational or natural hazards in and around Project water bodies and river reaches.

**Goal 5: Avoid, minimize, or mitigate adverse effects to recreation resources in the Project area.**

Objective 5a: Provide adequate peaking flows of sufficient duration and timing below the J.C. Boyle powerhouse to support continued recreational opportunities for whitewater boating and river-based fishing.

Objective 5b: Schedule Project maintenance in the J.C. Boyle bypass reach and below the J. C. Boyle powerhouse to minimize adverse Project effects on whitewater boating and river-based fishing in these areas.

Objective 5c: Minimize or avoid impacts to recreation resources from Project modifications, if any.

**Goal 6: Manage and enhance recreation resources in the Project area to comply with federal and state resource management plans, as amended.**

Objective 6a: To the extent feasible, Project river flows and ramping rates shall be managed to help protect the Outstandingly Remarkable Values (ORV) that have been identified in the Wild and Scenic River (W&SR) reach of the Upper Klamath River below the J.C. Boyle powerhouse and upstream of the California-Oregon state line, as well as the Middle Klamath River W&SR reach below the Iron Gate hatchery.

Objective 6b: Help provide recreation opportunities that are consistent with existing and future adopted agreements, plans, and policies, including the Draft Upper Klamath River Management Plan (when adopted) (BLM, 2003).

Objective 6c: Provide public recreation facilities and activities in the Project area that are compatible with Project operations and maintenance requirements, as well as resource management objectives of the BLM, USDA-FS, National Park Service (NPS), Oregon Department of Fish and Wildlife (ODFW), Oregon Parks and Recreation Department (OPRD), and California Department of Fish and Game (CDFG).

**Goal 7: Provide cost-effective recreation facilities and activities.**

Objective 7a: Provide public recreation facilities that will help minimize long-term Project maintenance and operational costs and allow for reasonable fees to be charged when and where appropriate.

Objective 7b: Provide public recreation facilities that help accommodate visitor facility preferences and allow for some future modification as visitor

preferences may change over time.

Objective 7c: Provide a range of fee and non-fee based recreation opportunities and developed and undeveloped dispersed recreation sites that allow for a diversity of visitor choices, experiences, and ability to pay.

**Goal 8: Provide recreation resources that are compatible with other natural and/or cultural resources in the Project area.**

Objective 8a: Provide public recreation facilities and activities that meet current environmental regulations, such as the W&SR Act, Endangered Species Act (ESA), and the National Environmental Policy Act (NEPA), as amended.

Objective 8b: Provide public recreation facilities and activities that are compatible with other proposed Project measures including cultural, terrestrial, fisheries, aesthetic, and aquatic resource management action and plans.

Objective 8c: Provide environmental interpretation and education opportunities such as viewpoints, interpretive signs, and trails that interpret the area's natural resources as part of the I&E Program.

**Goal 9: Enhance visitor management activities and law enforcement in the Project area.**

Objective 9a: Coordinate with the Siskiyou County Sheriff's Office for seasonal marine patrols and land-based patrols in the Project area from the Iron Gate Hatchery upstream to Stateline Take-out.

Objective 9b: Coordinate with the BLM and Klamath County Sheriff's Office for seasonal land-based patrols in the Project area from J.C. Boyle reservoir downstream to the Spring Island Boater Access.

Objective 9c: Provide increased seasonal visitor management controls and presence at Project recreation facilities and dispersed sites in the Project area.

**Goal 10: Protect, maintain, and enhance aesthetic/visual resources in the Project area.**

Objective 10a: Repaint or recoat selected Project industrial facilities, such as penstocks, surge tanks, and other facilities, to minimize adverse Project effects on surrounding sensitive public viewpoints.

Objective 10b: Develop and implement landscape buffer plans using native vegetation to help buffer and reduce the visual contrast of selected Project industrial facilities near sensitive public viewpoints.

Objective 10c: Implement the full range of proposed recreation enhancements at Project recreation facilities and dispersed sites that will enhance the aesthetics of the Project area for visitors and area residents.

Objective 10d: Conserve the natural appearance of the Project area and minimize Project disturbances to this appearance.

Objective 10e: Provide consistency, to the extent feasible, with the BLM's Visual Management Classes (VMC).

### 3.0 ROLES, PLANNING AND COORDINATION

An important part of the RRMP over the term of the new license is planning and coordination and the roles various entities will perform relative to recreation resources in the Project area. This section describes the roles and responsibilities of PacifiCorp and others, annual and periodic coordination activities, and development of annual plans that are integrated into a Rolling 5-Year Recreation Action Plan (Exhibit C). These elements are discussed below.

#### 3.1 PACIFICORP AND AGENCY ROLES AND RESPONSIBILITIES

Implementation of the RRMP is the role of PacifiCorp. PacifiCorp's expectations of the basic roles of the primary recreation resource entities involved in RRMP implementation are listed below. These entities include PacifiCorp, BLM, USDA-USDA-FS, NPS, Oregon Department of Parks and Recreation (OPRD), CDFG, and the Siskiyou (Calif.) and/or Klamath (Oregon) County Sheriff's Offices. It is acknowledged that PacifiCorp, through the RRMP, cannot assign funding, staffing, or other resource allocation responsibilities to other entities, such as the BLM, unless specified in an adopted memorandum of agreement or understanding, or other legal document. Implementation of the RRMP will involve the following anticipated roles:

PacifiCorp: Roles include:

- Implementation of the RRMP.
- Coordination and preparation of annual recreation plans as part of the Rolling 5-Year Recreation Action Plan process (Exhibit C).
- Coordination of proposed actions with other Project-related resource management plans.
- Preparation of periodic reporting to FERC (augmented FERC Form 80).
- Preparing periodic updates of the RRMP and tracking changes over time.
- Participating in annual or periodic recreation resource meetings, multiple resource groups, or other planning and coordination frameworks (yet to be determined).
- Supporting continued partnerships between PacifiCorp and tribal, federal, state and local governments and other recreation interest groups in the Project vicinity.

BLM: Roles include:

- In an advisory role, provide input on annual recreation plans as part of PacifiCorp's Rolling 5-Year Recreation Action Plan process (Exhibit C).



- Participation in annual or periodic recreation meetings, multiple resource groups, or other frameworks (yet to be determined).
- Co-lead agency for implementing actions related to the Draft Upper Klamath River Management Plan (when adopted) (BLM, 2003).
- Lead agency for NEPA compliance within BLM-managed lands.
- Continue to share and provide BLM recreation site visitor use data and whitewater boater use data on an annual basis to be used in the Recreation Monitoring Program.

USDA-FS: Roles include:

- In an advisory role, provide input on annual recreation plans as part of PacifiCorp's Rolling 5-Year Recreation Action Plan process (Exhibit C).
- Participation in annual or periodic recreation meetings, multiple resource groups, or other frameworks (yet to be determined).
- Co-lead agency for administering W&SR provisions of the Klamath National Forest Land and Resource Management Plan (USDA-FS, 2001) and Six Rivers National Forest Land and Resource Management Plan (USDA-FS, 1995) for the river reach below the Iron Gate dam.

NPS: Roles include:

- In an advisory role, provide input on annual recreation plans as part of PacifiCorp's Rolling 5-Year Recreation Action Plan process (Exhibit C).
- Participation in annual or periodic recreation meetings, multiple resource groups, or other frameworks (yet to be determined).
- Co-lead agency for administering the W&SR reaches on the Klamath River including specific W&SR-related provisions of the Draft Upper Klamath River Management Plan (when adopted) (BLM, 2003), the Klamath National Forest Land and Resource Management Plan (USDA-FS, 2001), and the Six Rivers National Forest Land and Resource Management Plan (USDA-FS, 1995).

OPRD: Roles include:

- In an advisory role, provide input on annual recreation plans as part of PacifiCorp's Rolling 5-Year Recreation Action Plan process (Exhibit C).
- Participation in annual or periodic recreation meetings, multiple resource groups, or other frameworks (yet to be determined).

- Administration of the designated Oregon State Scenic Waterway (OSSW) within the Hell's Corner reach.
- Coordinate implementation of adopted actions in the Draft Upper Klamath River Management Plan (when adopted) with the BLM (BLM, 2003).

CDFG: Roles include:

- In an advisory role, provide input on annual recreation plans as part of PacifiCorp's Rolling 5-Year Recreation Action Plan process (Exhibit C).
- Participation in annual or periodic recreation meetings, multiple resource groups, or other frameworks (yet to be determined).
- In cooperation with PacifiCorp, participate in proposed actions at the Iron Gate Hatchery and Fall Creek Hatchery facilities, as appropriate.
- When available, share CDFG-related visitor use data on an annual basis to be used in the Recreation Monitoring Program.

Siskiyou and/or Klamath County Sheriff's Offices: Roles include:

- In an advisory role, provide, input on annual recreation plans as part of PacifiCorp's Rolling 5-Year Recreation Action Plan process (Exhibit C).
- Participation in annual or periodic recreation meetings, multiple resource groups, or other frameworks (yet to be determined).
- Potentially provide seasonal law enforcement services per separate agreements with PacifiCorp, as needed (Exhibit A—Law Enforcement and Emergency Services Agreements).
- When available, share Marine Patrol and/or land-based law enforcement-related visitor use data on an annual basis to be used in the Recreation Monitoring Program.

### 3.2 ROLLING 5-YEAR RECREATION ACTION PLAN

Prior to each annual recreation meeting with other recreation providers and agencies in the Project vicinity, PacifiCorp will prepare a plan to document and coordinate upcoming recreation projects and operations. Planned recreation-related activities will be documented in a Rolling 5-Year Recreation Action Plan. A framework for this annual plan is presented in Exhibit C—Rolling 5-Year Recreation Action Plan Framework. This framework plan will be tested in the initial years of implementation and will be adapted as necessary. PacifiCorp and the agencies will each designate a Contact Person (voluntary) who will participate in planned RRMP-related activities.

At an annual recreation meeting, the Rolling 5-Year Recreation Action Plan will be

presented by PacifiCorp. The Action Plan will document progress in implementing the RRMP, the prior year's activities, the current upcoming year's activities, and the next three year's planned activities and estimated costs, and monitoring activities (Section 4.4). These plans and estimated costs will be detailed for the following RRMP programs:

- Section 4.1—Recreation Facility Development/Capital Improvement Program
- Section 4.2—Recreation Operations and Maintenance (O&M) Program
- Section 4.3—Whitewater Boating and River-Based Fishing Program
- Section 4.4—Recreation Monitoring Program
- Section 4.5—Resource Integration and Coordination Program
- Section 4.6—Plan Review and Update Program
- Section 4.7—Interpretation and Education (I&E) Program
- Section 4.8—Aesthetic/Visual Resource Enhancement Program

### 3.3 PERIODIC REVIEW

Implementation of the proposed recreation measures in the RRMP is expected to occur as detailed in the various programs through the term of the new license. However, some flexibility is built into the RRMP to address unanticipated changes in conditions over time.

At annual recreation meetings where the Rolling 5-Year Recreation Action Plan (Exhibit C) is discussed, the parties may consider potential adjustments in some specific actions or schedules if needed and appropriate. PacifiCorp will consider these scheduled changes of specific actions at this time as allowed by FERC in the new license.

The RRMP will be reviewed and potentially updated by PacifiCorp every 6 and/or 12 years (to coincide with FERC Form 80 reporting requirements) following the new license becoming final, or as agreed upon by PacifiCorp and the agencies. A 6-year review of the RRMP will not include a reprinting of the entire document. However, if any changes are needed and agreed to during a 6-year review, an "amendment" to the plan will be prepared and distributed to the parties. At a 12-year RRMP review, the document will be reprinted if changes are made during that review or the previous 6-year review. This review will occur in conjunction with the annual recreation meetings. Recommendations for changes to the RRMP may be submitted by any party and will be considered by PacifiCorp. Agreed-upon changes to the RRMP will be incorporated into a revised document. The revised RRMP will be submitted to FERC for final review and approval. Any disagreement on revisions to the RRMP may be resolved using a dispute resolution process.

Factors that may trigger 6- and/or 12-year revisions of the RRMP include:

- Revisions and updates to agency adopted land and resource management plans;
- Catastrophic natural events, such as major forest fires or natural disasters, and significant effects of social disorder;
- New federal or state policies, regulations, and laws that significantly affect recreation resources in the Project area for the new license term; and
- Documentation of significant changes in demographic use patterns, visitor needs, etc.

If an action in the RRMP is modified during the review and update process, the modified action will be cost-capped at the original budget amount in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. For the modified action, these amounts will not exceed the original cost limits for design, engineering, permitting, and construction, except to comply with changing legal mandates. PacifiCorp project management and administrative time will not be charged against these amounts except as provided for in the RRMP. RRMP updates or revisions will not increase the overall financial obligation to PacifiCorp as shown in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs.

### 3.4 ENVIRONMENTAL COMPLIANCE AND PERMITTING

PacifiCorp will be responsible for funding and/or conducting mandatory cultural resource and environmental analyses, compliance, and permitting for Project recreation-related construction projects identified in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs, and Exhibit E—Conceptual Site Plans.

During annual recreation meetings, PacifiCorp will consider the upcoming needs for cultural resources and environmental analyses, compliance, and permitting for all upcoming Project recreation projects. Because of the lead-time needed for some compliance activities – surveys for protected, endangered, or threatened (PET) species, coordination of NEPA or California Environmental Quality Act (CEQA) compliance, public involvement, conducting cultural resource inventories, or conducting ESA and/or W&SR Act Section 7 consultation - advance scheduling of such activities is essential for timely implementation of the proposed recreation projects. Such activities should be scheduled two or more years in advance, to the extent possible. PacifiCorp and the agencies will consult as necessary to determine appropriate scheduling needs.

Environmental analysis, compliance, and permitting activities may include, but are not limited to, the following:

- Federal NEPA and California CEQA compliance
- U.S. Army Corps of Engineers administered Clean Water Act—Section 404 wetland

permitting

- National Historic Preservation Act (NHPA) Section 106 compliance for cultural and historical resources
- ESA compliance
- County zoning and permitting requirements
- Shoreline permits
- Others as needed

To the extent possible, planned recreation projects will be grouped together to minimize environmental compliance and permitting needs and to foster review of cumulative effects. Such groupings may be geographical (by reservoir), temporal (in a block of years), or topical (similar recreation facilities). NEPA and/or CEQA compliance will also be tiered, to the extent possible. NEPA compliance actions may be tiered under the FERC Project relicensing Environmental Impact Statement (EIS).

If a planned recreation project is found to have potentially significant impacts that cannot be adequately mitigated or avoided, alternative recreation projects or sites will be considered to help satisfy the intended need of the original project. Alternative sites outside of the FERC Project boundary will not be considered as alternatives unless agreed to by PacifiCorp. These variables will be discussed during annual recreation meetings.

### 3.5 PERIODIC REPORTING

PacifiCorp will periodically document progress made in the implementation of the RRMP. Monitoring reports will be prepared and reviewed during annual recreation meetings and filed with FERC every 6 years when a FERC Form 80 is also required. These monitoring reports will summarize:

- FERC Form 80, as required every 6 years;
- Progress made on implementation of planned actions per the RRMP and FERC license terms and conditions;
- Any changes made to the RRMP programs including recreation projects being implemented and their schedule; and
- Recreation facility capacity levels, user counts, and other relevant monitoring efforts.

## 4.0 IMPLEMENTATION PROGRAMS

This section describes the eight programs that are intended to meet the RRMP's vision, goals, and objectives including:

- Recreation Facility Development/Capital Improvement Program
- Recreation Operations and Maintenance Program
- Whitewater Boating and River-Based Fishing Program
- Recreation Monitoring Program
- Resource Integration and Coordination Program
- Plan Review and Update Program
- Interpretation and Education Program
- Aesthetic/Visual Resource Enhancement Program

### 4.1 RECREATION FACILITY DEVELOPMENT/CAPITAL IMPROVEMENT PROGRAM

PacifiCorp will implement identified recreation facility development/capital improvements that are intended to help meet many but not all of the existing and future recreation needs identified in the Project area by upgrading existing facilities and/or constructing new facilities where appropriate as defined in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs. The program identifies funding and construction responsibilities, construction schedules, facility development standards, and ADA compliance. Preliminary conceptual recreation development site plans are also provided in Exhibit E – Conceptual Site Plans. Seven capital improvement program elements are discussed below.

#### 4.1.1 Recreation Facility Development and Upgrades

PacifiCorp will be responsible for funding and construction implementation of the Recreation Facility Development/Capital Improvement Program presented in these two RRMP exhibits:

- Exhibit D – Proposed Recreation Measures, Schedule, and Estimated Costs
- Exhibit E – Conceptual Site Plans

PacifiCorp funding for this program is estimated and presented in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs. Some of the items in Exhibit D are

cost capped (these items are noted as such). For cost capped items, the budgets represent not-to-exceed limits for design, engineering, permitting and construction, or as noted in Exhibit D. PacifiCorp project management and administrative time is not charged against the cost capped amount. For items that are not cost capped, the budget amounts are estimates of the funds needed to complete the project. These non-cost capped items will be implemented even if the actual dollar amount exceeds the estimate in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs.

PacifiCorp will be responsible for designing, permitting, and constructing the recreation facility projects identified as “capital improvements” in these exhibits. PacifiCorp will manage and perform most of the construction-related capital improvement projects. Detailed construction documents will be prepared by PacifiCorp and then submitted to the appropriate agencies for review and approval prior to construction. These construction documents will incorporate the results of available and required resource, engineering, topographic, geo-technical/soils, cultural resource and vegetative studies. These activities will be discussed at annual recreation meetings as appropriate.

#### 4.1.2 Recreation Development Locations

Recreation facility development and upgrades are identified to help satisfy existing and future Project-related recreation needs in the Project area. This includes new and expanded public recreation facilities that will be implemented during the new license term. The location of new and enhanced developed recreation sites are displayed in Figure 1.3-1 – Project Recreation Sites. Recreation development concept site plans for many of these improvements are included in Exhibit E - Conceptual Site Plans. These plans provide conceptual design guidance only for proposed recreation projects contained in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs. Additional detailed design and development of construction drawings will be needed to construct each project prior to implementation. Further refined concept plans will be required at the time that these individual projects are initiated.

#### 4.1.3 Recreation Facility Design Guidelines

The following facility design and setting guidelines will be used by PacifiCorp to site, construct, and upgrade recreation facilities identified in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs, and Exhibit E - Conceptual Site Plans. Facility design and new facility siting will:

- Comply with ADA and its implementing Accessibility Guidelines for Buildings and Facilities (ADAAG), as amended;
- Comply with all appropriate public health and safety codes and regulations;
- Provide design continuity and a visitor experience consist with the recreation setting and management unit where the facility is located (see Section 1.3—Plan Vision);

- Provide the opportunity for a high quality visitor experience and/or enhance visitor convenience;
- Minimize facility and site deterioration and operations and maintenance costs; and
- Protect the natural and cultural resources.

Recreation facilities constructed on PacifiCorp-owned or managed lands will be designed and constructed to be consistent with the appropriate recreation setting and management unit (see Section 1.3) as depicted in Figure 1.3-2 - Recreation Settings and Management Units.

#### 4.1.4 Americans with Disabilities Act (ADA) Compliance and Facility Upgrades

Many ADA-related facility improvements are identified in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs, and Exhibit E - Conceptual Site Plans. These proposed improvements are based on existing ADA guidelines (as defined in ADAAG, as amended), such as parking, toilets, and boat docks; as well as proposed new ADAAG guidelines currently under review by the U.S. Access Board for other facilities, such as campsites, picnic sites, and trails. ADA compliance needs also include accessible pathways to each of these primary site design elements. Any newly constructed or significantly expanded, modified or renovated facility will conform to the current ADAAG, as amended, that is in effect at the time of design, permitting and construction.

#### 4.1.5 Environmental Project Review

New recreation facility development/capital improvement projects will be coordinated and permitted, as needed, with the appropriate approving jurisdiction. PacifiCorp will acquire all necessary permits, certifications, and approvals as defined in Section 3.4 – Environmental Compliance and Permitting (additional requirements may exist at the time of project implementation that need to be complied with) to construct the recreation facility development/capital improvement projects identified in Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs, and Exhibit E - Conceptual Site Plans.

#### 4.1.6 Agency and Public Review

Proposed recreation facility development/capital improvement projects will be reviewed at annual recreation meetings and will be included in the Rolling 5-Year Recreation Action Plan (Exhibit C).

#### 4.1.7 Facility Construction Coordination, Scheduling, and Phasing

Recreation facility development/capital improvement projects are categorized within three priorities (High – first 10 years of the new license, Medium – second 10-years of the new license, and Low – last 10-year period of the new license), with priority also



being given to operations and maintenance once facilities are constructed. This overall guidance for prioritization was used in developing the implementation schedule (Exhibit D - Proposed Recreation Measures, Schedule, and Estimated Costs) and will be used during annual recreation meetings to discuss and prioritize future projects as needed.

#### 4.2. RECREATION OPERATIONS AND MAINTENANCE (O&M) PROGRAM

This program defines PacifiCorp's developed recreation facility operations and maintenance (O&M) responsibilities, as well as O&M standards and frequencies to be used by PacifiCorp at Project recreation facilities. Periodic O&M of existing and future recreation facilities is a required element of any recreation plan.

As defined in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs, PacifiCorp will perform annual O&M of identified recreation facilities using the standards and frequencies defined in Exhibit F—Recreation Facility and Site Maintenance Standards/Frequency. O&M will be performed through the use of a private concessionaire, through PacifiCorp or other staff, or through BLM or other agency upon development of a future memorandum of agreement. For its recreation facilities and use areas, PacifiCorp will schedule and/or perform necessary O&M by providing necessary personnel, equipment, materials, and management, as appropriate.

PacifiCorp and other agencies, such as BLM, may engage in annual O&M cost sharing and fund leveraging if this will provide added efficiency and cost reduction to the Project and/or enhance the experience of Project area visitors. Such activity will be identified during the annual recreation meetings and in the Rolling 5-Year Recreation Action Plan (Exhibit C) prior to implementation. The accounting for annual cost sharing and fund leveraging will occur at the annual recreation meetings.

##### 4.2.1 Recreation Facility Operations Schedule

Recreation facilities operated by PacifiCorp will be open and available for public use within the Project area according to Table 4.2-1 below. This schedule was developed to accommodate recreation visitors within the Project area, consistent with Project operations and other resource restrictions. Changes to Table 4.2-1 may be made after consultation at annual recreation meetings, if needed.

**Table 4.2-1. Seasons and hours of operation of Project recreation facilities.**

<b>Recreation Site</b>	<b>Season/Hours of Operation<sup>1</sup></b>
Upper J.C. Boyle Reservoir Boater Access	Future—all year
Pioneer Crossing Recreation Area	All year
J.C. Boyle Reservoir Loop Trail	Future—all year
Boyle Bluffs Recreation Area	Future—all year (day use area), May through September (campground)
J.C. Boyle Dam River Access	Future—all year
J.C. Boyle Powerhouse River Access	Future—all year
Stateline Take-out	Future—all year
Fishing Access Sites 1-6	All year
Mallard Cove Recreation Area	All year
Copco Cove Recreation Area	All year
Fall Creek Trail	All year
Fall Creek	Closed to public use, except for occasional supervised events.
Jenny Creek Recreation Area	All year
Wanaka Springs Recreation Area	May through October
Camp Creek Recreation Area	All year
Juniper Point Recreation Area	May through October
Mirror Cove Recreation Area	May through October
Overlook Point Recreation Area	May through October
Long Gulch Boat Launch	All year
Long Gulch Bluff Recreation Area	Future—May through October
Long Gulch Bluff Recreation Area to Iron Gate Hatchery Trail	Future—all year
Iron Gate Hatchery Public Use Area	All year
Bogus Creek Trail	Future—all year

<sup>1</sup>PacifiCorp existing seasons of operation. The season/hours of operation for new and improved/enhanced existing recreation sites will be determined by PacifiCorp in the future, including those converting to a single use such as day use, group reservation campground, or RV/tent camping only.

#### 4.2.2 Recreation Facility Maintenance Standards and Frequency

Adequate maintenance of Project recreation facilities, both fee and non-fee sites, will be performed in accordance with facility maintenance standards and frequencies defined in Exhibit F—Recreation Developed Facility and Dispersed Site Maintenance

Standards/Frequency. These recreation facility maintenance standards and frequencies may be revised, if needed, as conditions change over time. Any changes will be reviewed as appropriate at annual recreation meetings.

#### 4.2.3 Dispersed Shoreline Site Maintenance Responsibilities

Accumulated trash and debris at undeveloped dispersed shoreline sites at the Project reservoirs will be periodically collected and properly disposed of by PacifiCorp.

PacifiCorp will remove all user-built site amenities at Project dispersed shoreline campsites and day use sites. This activity includes the removal, for example, of user built rock fire rings, docks, rafted logs, spikes in trees, signs, tables, chairs, ropes, and tarps. Items that users have brought and left at day use sites and campsites will be included in this category.

PacifiCorp will correct significant Project shoreline site erosion problems if ongoing erosion is being exacerbated by visitor use at day use sites and campsites along the Project reservoir shorelines.

The frequency for maintaining dispersed shoreline sites is presented in Exhibit F—Recreation Developed Facility and Dispersed Site Maintenance Standards/Frequency.

#### 4.2.4 Law Enforcement and Public Services at Recreation Facilities

PacifiCorp will help fund adequate land-based and/or water-based law enforcement for visitor management and control. This funding will be used to provide for the health and safety of Project recreation visitors, area residents who use the Project's recreation facilities and water bodies, and PacifiCorp staff and contractors. This funding may also be used to help protect Project-related fish, wildlife, and cultural resources within recreational use areas. PacifiCorp staff and/or contracted private security company patrols may also be used as appropriate.

On a day-to-day basis, PacifiCorp will continue to provide for on-site recreation facility security and visitor management and control through the use of company personnel, contracted personnel, camp hosts, and concessionaire personnel, as well as through appropriate facility design and traffic control devices.

PacifiCorp may contract with local law enforcement agencies for supplemental land-based patrols and water-based patrols, as needed. Memorandums of understanding or agreement may be developed and implemented over time to address changing conditions in the Project area. Future agreements with local law enforcement agencies are presented in Exhibit A—Law Enforcement and Emergency Services Agreement.

### 4.3 WHITEWATER BOATING AND RIVER-BASED FISHING PROGRAM

This program defines PacifiCorp's responsibilities for providing and/or enhancing whitewater boating and river-based fishing in the Project area, principally in the Upper

Klamath River/Hell's Corner reach. These enhancements are further defined below.

#### 4.3.1 Whitewater Boating

PacifiCorp will enhance whitewater boating opportunities in the Project area by providing for and/or enhancing identified Project recreation facilities used by whitewater boaters, operating and maintaining these Project facilities and access sites, and providing for Project flow releases that will allow for continued whitewater boating in the Project area, consistent with proposed flows and other operational restrictions defined by PacifiCorp in the final license application (PacifiCorp, 2004).

##### 4.3.1.1 Facility Development/Capital Improvements

PacifiCorp will enhance eight existing whitewater boater access sites and/or develop new ones included in the Recreation Facility Development/Capital Improvement Program. These eight boater facilities are defined in detail in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs, and Exhibit E—Conceptual Site Plans and include:

- Upper J. C. Boyle Reservoir Boater Access (new proposed facility)
- J. C. Boyle Dam River Access (new proposed facility)
- J. C. Boyle Powerhouse River Access (new proposed facility – drop-off/day use site and trail access)
- Spring Island Boater Access (PacifiCorp/BLM shared road maintenance to the site's turnaround, and new proposed trail access from the J. C. Boyle powerhouse area to this downstream BLM facility)
- Stateline Take-out (enhance PacifiCorp's lower portion of this shared site with BLM)
- Fishing Access Site 6 (enhance boater take-out site - by permit)
- Fishing Access Site 1 (enhance boater take-out site)
- Iron Gate Hatchery Public Use Area (enhance boater put-in site next to the hatchery)

Proposed actions at each site are defined in detail in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. Conceptual designs of proposed improvements at each site are included in Exhibit E—Conceptual Site Plans.

##### 4.3.1.2 Operations and Maintenance

PacifiCorp will provide for adequate operations and maintenance (O&M) of each Project site, or portions thereof, as defined in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. Some Project sites have shared O&M. O&M standards

and frequencies for each site are defined in Exhibit F—Recreation Developed Facility and Dispersed Site Maintenance Standards/Frequency.

PacifiCorp has proposed periodic boatable Project flows in the Upper Klamath River below J. C. Boyle powerhouse, and in the Middle Klamath River below Iron Gate dam, in its final license application (PacifiCorp, 2004) and per flow requirements as imposed by the U. S. Bureau of Reclamation below Iron Gate dam. PacifiCorp's proposed flows seek to balance power and non-power values such as whitewater boating opportunities, river-based fishing, fishery and related habitat enhancements, and power operations. Based on the results of relicensing studies (Final Technical Report [FTR] for Recreation Resources), PacifiCorp's proposed Project flows will continue to support whitewater boating opportunities by private outfitters as well as individuals. Specific details of proposed Project flows are defined in Table E4.6-3 (Proposed instream flow and ramp rate measures for river reaches affected by the Klamath Hydroelectric Project). This table is included in the final license application (PacifiCorp, 2004). PacifiCorp will continue to provide flow information via the Project toll-free "flow phone," as well as the Project website. Actual Project powerhouse operations and flows and related whitewater boating timeframes will continue to be determined by incoming flows that are driven by U. S. Bureau of Reclamation releases at Iron Gate dam, and by changing annual and seasonal climatic conditions.

Unless there is a Project "Generation Alert Status," the general intent is to have the J. C. Boyle powerhouse ramp up to boatable whitewater flows (minimum of 1,500 cubic feet per second [cfs] at the USGS gage No. 11510700 below the powerhouse) by 12:00 Noon on Sunday, Monday, Tuesday, Thursday, and Friday, and at 10:00 AM on Saturday. Wednesday will have no set schedule due to PacifiCorp operational requirements. The proposed timing of peaking operations will be similar to current or 2003 Project operations that provide for boatable flows throughout the summer season (June through August). However, 2-unit operations will likely occur less often in the future and the magnitude of daily flow variation will be less, not exceeding 1,400 cfs from the J. C. Boyle powerhouse in a 24-hour period.

Whitewater boating use data in the Upper Klamath River/Hell's Corner reach will continue to be collected by the BLM and will be integrated into the Recreation Monitoring Program (Section 4.4). PacifiCorp will collect and analyze other whitewater boating information as defined in this RRMP program.

#### 4.3.2 River-Based Fishing

PacifiCorp will enhance river-based fishing opportunities in the Project area by providing for and/or enhancing identified recreation facilities used by anglers who are fishing in the river reaches, operating and maintaining these facilities and fishing access sites, and providing for continued Project flow releases that will allow for continued river-related (bank and boat) fishing in the Project area.

#### 4.3.2.1 Facility Development/Capital Improvements

PacifiCorp will enhance existing river fishing access sites and/or develop new ones included in the Recreation Facility Development/Capital Improvement Program. These fishing access sites are defined in detail in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs, and Exhibit E—Conceptual Site Plans and include:

- Upper J. C. Boyle Reservoir Boater Access (new proposed facility, used by boaters and anglers)
- J. C. Boyle Dam River Access (new proposed day use facility with enhanced fishing access trail in the upper bypass area)
- J. C. Boyle Powerhouse River Access (new proposed day use facility and enhanced fishing access trail in the lower bypass area, plus ADA-accessible fishing access platform)
- Fishing Access Sites 1-6 (Enhancements to existing sites and related trails, plus ADA-accessible fishing access platform at Fishing Access Site 1)
- Iron Gate Hatchery Public Use Area (Enhancements to trail access and the boater put-in site next to the hatchery used by boat anglers and other recreationists)

Proposed actions at each site are defined in detail in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. Conceptual designs of proposed improvements at each site are included in Exhibit E—Conceptual Site Plans.

#### 4.3.2.2 Operations and Maintenance

PacifiCorp will provide for adequate operations and maintenance (O&M) of each Project site, or portions thereof, as defined in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. O&M standards and frequencies for each Project site are defined in Exhibit F—Recreation Developed Facility and Dispersed Site Maintenance Standards/Frequency.

PacifiCorp has proposed periodic Project flows that are suitable for river-based fishing in the Upper Klamath River/Hell's Corner reach below J. C. Boyle powerhouse, and in the Middle Klamath River below Iron Gate dam. These proposed Project flows are defined in the final license application (PacifiCorp, 2004) and are also affected by flow requirements that are imposed by the U. S. Bureau of Reclamation below Iron Gate dam. PacifiCorp's proposed Project flows seek to balance power and non-power values such as river-based fishing opportunities (boat and bank), whitewater boating, fishery and related habitat enhancements, and power operations. Based on the results of relicensing studies (FTR for Recreation Resources), proposed Project flows will continue to support river-based fishing opportunities, as well as enhance aquatic and terrestrial resource habitats that may also benefit fishing success over time. Specific details of proposed Project flows are defined in Table E4.6-3 (Proposed instream flow and ramp rate measures for river

reaches affected by the Klamath Hydroelectric Project). This table is included in the final license application (PacifiCorp, 2004).

Proposed Project flows are intended to preserve and/or enhance river-based fishing opportunities in the Project's river reaches. In the Upper Klamath River/Hell's Corner reach, a minimum release of 200 cfs plus J. C. Boyle bypass accretion is proposed, providing approximately 420 cfs in the J. C. Boyle peaking reach. This minimum flow is proposed to be met through an additional release of 100 cfs from the J. C. Boyle dam or powerhouse. In addition, it is proposed that up-ramping and down-ramping will not exceed 9 inches per hour (4 inches per hour for down-ramping if flows are less than 1,000 cfs). Daily flow variation is proposed to not exceed 1,400 cfs at the USGS gage No. 11510700). Periods of optimal river-based fishing will continue to be provided, as well as larger time "windows" for bank or boat fishing. PacifiCorp will continue to provide flow information via the Project toll-free "flow phone," as well as the Project website.

Proposed Project flows in the J. C. Boyle bypass reach will also enhance river-based fishing opportunities within this reach. Releases from the J.C. Boyle dam will have a minimum of 100 cfs at all times. This proposed release will result in a minimum of 320 cfs at the lower end of the bypass reach due to approximately 220 cfs of spring flow within the reach. As a result, this proposed flow will maintain usable fish habitat while retaining the high water quality in this reach. The proposed down ramping rate (150 cfs per hour below the dam) will further reduce potential fish stranding associated with occasional river spill events (spills are also dependent upon other factors not controlled by PacifiCorp).

River-based fishing user data will be collected by PacifiCorp and/or BLM (depending upon the site) and will be integrated into the Recreation Monitoring Program (Section 4.4).

Other flat-water/reservoir-based fishing enhancements are described in Section 4.1 and 4.2 of the RRMP.

#### 4.4 RECREATION MONITORING PROGRAM

Recreation monitoring is an integral part of the RRMP and is a tool used to address changes over time and to identify when future recreation facilities or changes in management tools may be needed. The recreation monitoring program is based on an adapted Limits-of-Acceptable Change (LAC)-type methodology (Stankey et al., 1985) in conjunction with the Recreation Settings and Management Units discussed in Section 1.3—Plan Vision (Figure 1.3-2). This approach defines the desired type of visitor experience to be provided in each recreation setting, as well as monitoring indicators and standards that are used over time to assess whether acceptable conditions are being maintained to preserve or enhance the desired condition for each recreation setting type in each management unit.

#### 4.4.1 Monitoring Indicators and Standards

Two key elements in the monitoring process are indicators and standards that help define the desired experience and provide a framework for monitoring changing conditions over time. Monitoring indicators identify the key issues or variables to monitor over time and are specifically used to define the desired experience. Key considerations related to monitoring indicators and standards include the following:

##### Monitoring Indicators

- Reflect important key issues that should be monitored to make decisions about the management of the resource;
- Specific variables are indicative and realistic of field conditions;
- Allow one to define desired conditions and assess effectiveness of management practices; and
- Should be measurable and responsive to possible management actions.

##### Monitoring Standards

Monitoring standards define criteria for acceptability and help define the minimum acceptable condition for each indicator. These standards are also referred to as “triggers” in that once they are reached and a sustained trend is identified, further actions are warranted that may include new construction or a range of lesser actions. Key considerations related to monitoring standards include the following:

- Should be refined based on field conditions prior to full implementation;
- May use a judgmental process;
- Should not be idealistic goals, but conditions that can be achieved over time;
- May be a statement of existing conditions or status quo; and
- May be expressed in terms of probabilities (allows for some variability).

Table 4.4-1 lists the monitoring indicators and standards for the Project area. In developing the monitoring indicators and standards, how each indicator would actually be monitored in the field needs to be carefully considered. This helps establish a program that could be effectively implemented. In practice, decisions regarding future management may be made at the time that threshold standards are reached based on the field conditions at that time. In all cases, the entire suite of indicators should be reviewed and examined before management actions are taken. Decisions should never be made based on one indicator alone in isolation.



**Table 4.4-1. Recreation monitoring indicators and standards for developed Project recreation facilities, dispersed shoreline sites, and recreation settings.**

Monitoring Indicators	Monitoring Standards
<b>Developed Recreation Facilities (see Figure 1.3-1) and RN, R, and PF Recreation Settings (see Figure 1.3-2)</b>	
<b>RESOURCE:</b>	
<b>Recreation Use Impacts</b>	Based on monitoring, minor observed site impacts (erosion, vegetation damage, litter, etc.) would be acceptable at developed recreation sites and areas classified as RN, R, and PF. However, moderate to high impacts to sensitive resources (e.g., biological, cultural, etc.) would be remedied. Future monitoring of recreation use impacts will occur annually, as a component of regular O&M. Additionally, annual coordination with HPMP monitoring activities will also track potential recreation-related impacts to cultural resources.
<b>SOCIAL:</b>	
<b>Perceived Crowding</b>	Based on future survey results (approximately every 12 years after the new license becomes final), average crowding score of 4.5 (scale of 1 to 9) will not be exceeded at developed recreation sites or in areas classified as RN, R, or PF. If exceeded, actions would be taken to remedy crowding.
<b>MANAGERIAL:</b>	
<b>Boating Use Levels – Reservoir Surface Water</b>	Based on future Project reservoir boater counts (approximately every 6 years after the new license becomes final), average daily seasonal watercraft counts will not exceed 20 acres/boat for Iron Gate reservoir and 50 acres/boat for J.C. Boyle and Copco reservoirs over the peak recreation season (Memorial Day to Labor Day).
<b>Project Day Use Site and Campground Capacity Utilization</b>	<p>Based on future user counts at Project day use sites and campgrounds (counts conducted approximately every 6 years, in conjunction with FERC Form 80 data collection, after the new license becomes final), the average weekly peak season (Memorial Day through Labor Day) capacity utilization will not exceed 60 percent occupancy and the average peak season weekend capacity utilization will not exceed 80 percent (peak season is Memorial Day to Labor Day).</p> <p>Both standards are to be reviewed concurrently, and only 1 standard needs to be triggered.</p> <p>When day use site or campground use levels reach either of the above standards, monitoring will be conducted annually and facility planning, permitting, and design will be initiated. Capacity will be assumed if use levels reach or exceed the standard for 3 out of 5 consecutive years.</p>
<b>Dispersed Use and Shoreline Sites (see Figure 1.3-1) and SPM Recreation Setting (see Figure 1.3-2)</b>	
<b>RESOURCE:</b>	
<b>Site Creep (Expansion)</b>	Dispersed shoreline sites and areas classified as SP will be evaluated every 6 years. A maximum of 10 percent expansion of the area of impact will be allowed without remediation (this percentage may vary and may be dependent upon the size of the site—to be assessed during the initial testing of the monitoring standards and indicators).
<b>Site Pioneering (New Sites)</b>	Dispersed shoreline sites will be evaluated every year. If new sites are located, they will be closed as they are identified.
<b>SOCIAL:</b>	
<b>Perceived Crowding</b>	Based on future survey results (approximately every 12 years after the new license becomes final), average crowding score of 3.5 (scale of 1 to 9) will not be exceeded at dispersed shoreline sites or areas classified as SP.

**Table 4.4-1. Recreation monitoring indicators and standards for developed Project recreation facilities, dispersed shoreline sites, and recreation settings.**

Monitoring Indicators	Monitoring Standards
<b>MANAGERIAL:</b>	
<b>Dispersed Site Utilization</b>	<p>Based on future user counts at Project dispersed shoreline sites (counts conducted approximately every 6 years, in conjunction with FERC Form 80 data collection, after the new license becomes final), the average peak season capacity utilization of dispersed sites will not exceed 40 percent and the average peak season weekend capacity utilization will not exceed 60 percent.</p> <p>As with developed recreation sites, both standards are to be reviewed concurrently, and only 1 standard needs to be triggered.</p> <p>When dispersed site use levels reach either of the above standards, monitoring will be conducted annually and the creation of a formalized dispersed site management plan will be initiated. Capacity will be assumed if use levels reach or exceed the standard for 3 out of 5 consecutive years.</p>
<b>River Boating Use Levels</b>	<p>Based on annual review of BLM boater counts, watercraft counts will not exceed established use levels, as directed in the Draft Upper Klamath River Management Plan (when adopted) (BLM, 2003).</p>

Table 4.4-2 lists the monitoring indicators for the Project area, describes how each indicator will be measured and monitored, and lists potential management options of what might be considered if standards are exceeded for a given indicator. Management options are provided as examples of what might be considered if standards are exceeded for a given indicator. Decisions regarding future management will be made at the time that standards are exceeded based on field conditions and input from affected parties at that time.

**Table 4.4-2. Recreation monitoring indicators, method of measurement, and management options for developed and dispersed Project recreation sites.**

Monitoring Indicators and Frequency	Method of Measurement	Management Options to Consider When Capacity is Reached
<b>Developed Recreation Facilities</b>		
<p><b>Recreation Use Impacts</b></p> <p>Frequency = Annual</p>	<p>Periodically monitor developed recreation sites for commonly observed recreation use impacts including amount of bare ground, excessive litter, sanitation issues, and vegetation damage. Assessment of impacts will be qualitative. Additional recreation-related use impact monitoring will also be conducted in coordination with HPMP cultural resource monitoring activities.</p>	<ul style="list-style-type: none"> <li>• Provide additional informational signs.</li> <li>• Provide increased O&amp;M at site.</li> <li>• Provide additional sanitation facilities.</li> <li>• Harden additional site facilities.</li> <li>• Erect barriers to limit pedestrian access and prohibit vehicular access.</li> <li>• Provide new developed sites in the area.</li> <li>• Implement site closures and rehabilitation.</li> </ul>

**Table 4.4-2. Recreation monitoring indicators, method of measurement, and management options for developed and dispersed Project recreation sites.**

<b>Monitoring Indicators and Frequency</b>	<b>Method of Measurement</b>	<b>Management Options to Consider When Capacity is Reached</b>
<p><b>Visitor Use Levels at Project Day Use Sites and Campgrounds</b></p> <p>Frequency = 6 years (to coincide with FERC Form 80 reporting requirements).</p> <p>If a standard is reached, begin to track annually.</p>	<p>Monitor facility use levels during the peak season (Memorial Day to Labor Day) based on user counts, vehicle counts, and campground counts conducted at selected sample sites. Track data for each sample site, but also aggregate across sites (day use and campgrounds separately) in each Management Unit to develop an overall average/indicator.</p>	<ul style="list-style-type: none"> <li>• Redistribute use by providing visitors with information about alternative sites.</li> <li>• Increase site capacity (provide additional day use parking/picnic tables or additional campsites).</li> <li>• Expand the open season.</li> <li>• Institute a limited entry system (fee sites).</li> <li>• Implement a reservation system at Project campgrounds.</li> <li>• Enhance under utilized sites to make them more attractive.</li> </ul>
<p><b>Perceived Crowding</b></p> <p>Frequency = 12 years (conduct sooner if use levels increase significantly)</p>	<p>Monitor visitor perceptions using the results of a visitor survey and an established 9-point crowding scale to identify the percentage of users that feel crowded. Focus on selected sample sites during the peak season (Memorial Day to Labor Day). Indicators to be tracked for each sample site and aggregated for each Management Unit.</p>	<ul style="list-style-type: none"> <li>• Provide adequate buffer between user groups and sites.</li> <li>• Expand the open season.</li> <li>• Address identified user conflicts.</li> <li>• Provide additional enforcement.</li> </ul>
<p><b>Boating Use Levels</b></p> <p>Frequency = 6 years</p>	<p>Monitor boating use on-water at Project reservoirs during the peak season (count watercraft on-water and boat trailers in parking areas). Monitor trends in watercraft types.</p>	<ul style="list-style-type: none"> <li>• Provide visitors with information about alternative boat launches.</li> <li>• Provide visitors with information about alternative regional reservoirs and lakes.</li> </ul>
<b>Dispersed Shoreline Sites</b>		
<p><b>Site Creep (Expansion)</b></p> <p>Frequency = 6 years</p>	<p>Monitor designated dispersed sites for expansion of the area of impact. Initially, document the baseline conditions and then monitor for creep at sample sites in each Management Unit, where appropriate. Calculate the expansion of area of impact over initial measurement as a percentage. Monitoring of dispersed sites will also be coordinated with HPMP monitoring activities.</p>	<ul style="list-style-type: none"> <li>• Erect natural barriers to better define site boundaries.</li> <li>• Harden sites including fire rings, picnic tables, and/or tent pads on a site by site basis.</li> <li>• Implement site closures and rehabilitation.</li> <li>• Provide additional enforcement.</li> <li>• Provide education (Leave No Trace information).</li> </ul>

**Table 4.4-2. Recreation monitoring indicators, method of measurement, and management options for developed and dispersed Project recreation sites.**

<b>Monitoring Indicators and Frequency</b>	<b>Method of Measurement</b>	<b>Management Options to Consider When Capacity is Reached</b>
<p><b>Site Pioneering (New Sites)</b></p> <p>Frequency = 1 year</p>	<p>Annually survey the reservoir shoreline and record the number and type of dispersed sites. Compare this information with baseline conditions. Evidence of new dispersed sites may include new bare ground, accumulated litter, site erosion, new structures, sanitation problems, and/or vegetation damage. Identified new sites will be reviewed and potential actions coordinated with the HPMP.</p>	<ul style="list-style-type: none"> <li>• Block vehicular access.</li> <li>• Provide visitors with information about where use is allowed.</li> <li>• Provide additional enforcement.</li> <li>• Obliterate new sites and restore area.</li> </ul>
<p><b>Perceived Crowding</b></p> <p>Frequency = 12 years (conduct sooner if use levels increase significantly)</p>	<p>Monitor dispersed site visitor perceptions using the results of a visitor survey and the established 9-point crowding scale (see previous survey questions asked during relicensing) to identify users that feel crowded. Focus on selected sample sites during the peak season (Memorial Day to Labor Day). Indicators to be tracked for each sample site and aggregating across sites in each Management Unit.</p>	<ul style="list-style-type: none"> <li>• Redistribute use by providing visitors with information about alternatives.</li> <li>• Provide additional buffer between sites.</li> <li>• Address user conflicts as needed.</li> <li>• Provide enforcement.</li> </ul>
<p><b>Dispersed Site Occupancy</b></p> <p>Frequency = 6 years (to coincide with FERC Form 80 reporting requirements).</p> <p>If a standard is reached, begin to track annually.</p>	<p>Monitor the average number of dispersed sites that are occupied during the peak season, both individually and aggregated for each Management Unit.</p>	<ul style="list-style-type: none"> <li>• Provide visitors with information about alternative sites.</li> <li>• Develop primitive camping opportunities.</li> </ul>
<p><b>River Boating Use Levels</b></p>	<p>Monitor the number of whitewater boaters on Hell's Corner reach during the peak whitewater recreation boating season. BLM to provide annual boater count data.</p>	<ul style="list-style-type: none"> <li>• Provide visitors with information about alternative rivers with whitewater flows.</li> <li>• Increase or decrease the number of permitted outfitters.</li> </ul>

Table 4.4-3 provides a list of monitoring area sites and locations. These sites were chosen because they are representative of all Project sites with varying levels of recreational use within each management unit. Annual and/or periodic monitoring will be scheduled at these sites.

<b>Table 4.4-3. Monitoring locations by management unit within the Project area.</b>	
<b>Management Unit</b>	<b>Monitoring Sites/Areas</b>
A—J.C. Boyle Reservoir	<ul style="list-style-type: none"> <li>• Pioneer Crossing Recreation Area</li> <li>• Topsy Campground<sup>1</sup></li> <li>• Dispersed shoreline sites (Spencer Creek sites)</li> <li>• Reservoir surface (boat counts)</li> </ul>
B—J.C. Boyle Bypass Reach	<ul style="list-style-type: none"> <li>• J.C. Boyle Dam River Access</li> <li>• J.C. Boyle Powerhouse River Access</li> </ul>
C—Upper River Reach	<ul style="list-style-type: none"> <li>• J.C. Boyle Powerhouse River Access</li> <li>• Spring Island Boater Access<sup>1</sup></li> <li>• River surface (boat counts)<sup>1</sup></li> </ul>
D—Lower River Reach	<ul style="list-style-type: none"> <li>• Stateline Take-out<sup>1</sup></li> <li>• Fishing Access 6</li> <li>• Fishing Access 1</li> <li>• River surface (boat counts)<sup>1</sup></li> </ul>
E—Copco Reservoir	<ul style="list-style-type: none"> <li>• Mallard Cove</li> <li>• Copco Cove</li> <li>• Reservoir surface (boat counts)</li> </ul>
F—Iron Gate Reservoir	<ul style="list-style-type: none"> <li>• Wanaka Springs</li> <li>• Camp Creek</li> <li>• Mirror Cove</li> <li>• Long Gulch</li> <li>• Iron Gate Hatchery Public Use Area</li> <li>• Reservoir surface (boat counts)</li> </ul>

<sup>1</sup> Monitoring data to be provided by BLM.

#### 4.4.2 Monitoring Requirements

The Recreation Monitoring Program will help define the changing resource conditions and recreation needs of the Project area over the term of the new license. To implement the Recreation Monitoring Program, PacifiCorp will collect recreation data in the Project area per established monitoring indicators and standards (Tables 4.4-1 and 4.4-2). PacifiCorp already collects some of these data on an annual or periodic basis and some data will be provided by the BLM at BLM-managed sites or areas. Other data that are not currently being collected will be identified and a process for data collection will be further refined, such as criteria for measuring and monitoring shoreline campsite creep.

Results of the monitoring effort will be used to help make informed decisions about how best to manage recreation resources in the Project area. In some cases, new facility development is contingent upon reaching monitoring threshold levels and identifying a sustained trend (reaching and/or exceeding threshold levels for 3 out of 5 consecutive years) before new facility construction will begin (Long Gulch Bluff Recreation Area). Therefore, the Recreation Monitoring Program is integral to implementation of the overall RRMP, as well as maintaining and enhancing the desired recreation experience and resources.

The Recreation Monitoring Program includes two levels of monitoring. First, there is ongoing regular monitoring of recreation sites using readily available monitoring data

collected during normal routine management of recreation resources, such as paid fee receipts, camp host counts, observations made when trash is collected, vehicle traffic counts, etc. Second, some of the monitoring indicators and standards require additional or other monitoring activities that are not currently performed by PacifiCorp. These additional activities include new dispersed shoreline site pioneering monitoring (annually) and site creep expansion monitoring (every 6 years) so that management actions can be taken before standards are significantly exceeded.

Specific components of the Recreation Monitoring Program to be implemented by PacifiCorp include:

- Start-up activities to test monitoring indicators and standards: One of the initial tasks during the first two years of implementing the RRMP (following the license becoming final) will be field-testing the monitoring indicators and standards so that a definitive baseline can be established. Monitoring personnel will be qualified through education, experience, or training to conduct the initial and future monitoring efforts in order to complete the analyses in a consistent manner. Standardized monitoring and reporting forms will also be developed at this time to promote consistent data collection. It is anticipated that some modifications to the monitoring indicators and standards will be needed during the initial monitoring effort. Once Project area baseline recreation conditions are established, follow-on monitoring analyses will be used to track changes over time.
- Frequency of monitoring activities: In collecting monitoring data, PacifiCorp will schedule both annual and periodic data gathering and analyses, as appropriate. The use of camp hosts and/or road counters to perform more detailed counts is one example of a method that will be employed to provide daily counts at selected sites at a low cost. Scheduling recreation site condition monitoring during routine O&M is another technique that will be employed to provide monitoring at selected sites at a low cost.

The Recreation Monitoring Program includes three levels or frequencies of monitoring:

- Ongoing regular monitoring of Project area recreation sites and use areas using readily available monitoring data collected during normal routine management of Project area recreation facilities. This type of monitoring will occur on an annual basis;
- Periodic monitoring of Project area recreational use levels and site conditions. This type of monitoring will occur every 6 years to coincide with FERC Form 80 reporting requirements; and
- More in-depth Project area recreation surveys, potentially including visitor and area resident questionnaire surveys. The survey format and questions will be consistent to facilitate comparisons and should be based on previous survey

efforts (such as those conducted in 2001 and 2002). This type of monitoring will occur every 12 years.

#### 4.4.3 Reporting Requirements

Every 6 years, a brief report will be prepared by PacifiCorp summarizing each level of monitoring and will document:

- FERC Form 80, as required every 6 years;
- Successes of developed and dispersed recreation visitor management efforts;
- Recreation facility use levels and counts;
- Trends observed in recreation use and activities; and
- Projected needs and actions based on monitoring indicators, standards, and thresholds.

The FERC Form 80 reporting process (currently required by FERC every 6 years) will be used as an opportunity to also analyze and report on visitor trends, whether monitoring thresholds have been exceeded, success of visitor control measures, decisions reached based on monitoring results, and plans for the next monitoring timeframe. At annual recreation meetings, it is expected that recreation resource management decisions for the Project area will be reviewed and discussed. Attendees will have the opportunity to review and comment on the draft Form 80 submittal prior to filing with FERC.

#### 4.4.4 Use of Monitoring Data in Decision Making

Available data gathered during annual and periodic monitoring, will be used to assess the need for implementing management actions. PacifiCorp will conduct annual recreation planning and coordination meetings with other recreation providers and agencies in the Project area, as appropriate, to share the monitoring results. At these annual recreation meetings, it is expected that recreation resource management options and decisions for the Project area will be discussed, made, and/or reaffirmed. Management actions may include those listed in Table 4.4-2, as well as:

- Adjust the management of whitewater boating and fishing within the Project area due to changing conditions or needs;
- Plan, design, expand, renovate, and/or construct facilities in one or more phases;
- Increase monitoring efforts as needed, such as collecting more detailed visitor counts at facilities in question;
- Begin planning and designing new facilities or renovations;

- Pursue or wait on new construction;
- Modify monitoring indicators if conditions warrant;
- Increase visitor information in order to redistribute use patterns; and
- Consider a full or partial reservation system.

Other management actions may also be considered as appropriate in consultation with other recreation providers in the Project area.

No new facility construction at the proposed Long Gulch Bluff Recreation Area will be considered until monitoring thresholds have been reached or exceeded for 3 out of 5 consecutive years. Establishing a consistent trend will account for the short-term influences of flows, weather, wind, fires, and economy.

#### 4.5 RESOURCE INTEGRATION AND COORDINATION PROGRAM

An important part of the RRMP over the term of the new license will be ongoing planning, coordination, and updates related to recreation and aesthetics resources in the Project area. The Resource Integration and Coordination Program is a formalized process whereby PacifiCorp will make coordinated, timely, and informed decisions related to the implementation of the RRMP and other Project-related resource management plans. Simultaneous activities occurring by different resource groups, PacifiCorp, and other agencies and entities will dictate the need for both formal and informal communication over the term of the new license. An important goal of this communication is to achieve a balanced integration of sometimes competing and complementary resource goals for Project lands and waters. This goal may be achieved when interests and concerns have been addressed or met to the fullest extent possible. As a result, resource coordination will include:

- Conducting ongoing and regular consultation and coordination among appropriate parties and Project-specific license implementation resource groups;
- Sharing information and criteria used to make resource decisions, potentially including geographic information system (GIS) data, on-the-ground knowledge, general facility and use area data, facility operations and maintenance standards, or other data;
- Clarifying multiple resource goals, objectives, and priorities as necessary; and
- Coordinating and conducting, as necessary, an assessment or consultation that will help solve a particular problem or resolve key issues.

Annual recreation meetings with other recreation providers, agencies, and other stakeholders in the Project area will be held and coordinated by PacifiCorp. As



implementation of the RRMP is the primary role of the Licensee, PacifiCorp will facilitate the annual recreation meetings. Participants in the annual recreation meetings will be responsible for providing advisory recommendations and input on the Rolling 5-Year Recreation Action Plan (Exhibit C), reviewing and commenting on recreation monitoring results, providing input on upcoming grant or other cost-sharing opportunities, and providing overall suggestions on the ongoing implementation of the RRMP.

It is anticipated that the following agencies, recreation providers, and other stakeholders will be notified of annual recreation meetings and invited to participate in advisory roles if desired:

- Bureau of Land Management (BLM)
- USDA-Forest Service (USDA-FS)
- Oregon Parks and Recreation Department (OPRD)
- National Park Service (NPS)
- Klamath County
- Siskiyou County
- Oregon Department of Fish and Wildlife (ODFW)
- California Department of Fish and Game (CDFG)
- Whitewater outfitters and other private groups, as needed

Advisory input from these recreation providers will be solicited as appropriate to formulate plans for the next 3 years (a framework of the Rolling 5-Year Recreation Action Plan Framework is provided as Exhibit C). These 5-year plans will address the RRMP programs including recreation facility development/capital improvement, recreation facility O&M, whitewater boating and river-based fishing, recreation monitoring, resource integration and coordination, plan review and update, I&E, and aesthetic/visual resource enhancement. The Rolling 5-Year Recreation Action Plan (Exhibit C) for the Project area will also be made available for public review once finished.

#### 4.6 PLAN REVIEW AND UPDATE PROGRAM

Implementation of the recreation measures in the RRMP is expected to occur as detailed in the various programs through the term of the new license. However, some flexibility is built into the RRMP to address unanticipated changes in conditions over time.

At annual recreation resource meetings where the Rolling 5-Year Recreation Action Plan

(Exhibit C) is discussed, the parties may consider potential adjustments in some specific actions or schedules if needed and appropriate. PacifiCorp will consider these scheduled changes of specific actions at that time.

The RRMP will be reviewed and updated by PacifiCorp every 6 and/or 12 years following the new license becoming final, or as agreed upon by PacifiCorp and agencies. The 6-year review will not include a reprinting of the document. If changes are needed and agreed to, an “amendment” to the RRMP will be prepared. However, all year-to-year changes will be tracked and documented. At the 12-year review, the document will be reprinted if changes are made during that review or the previous 6-year review. This review will occur in conjunction with the annual recreation resource meetings. Recommendations for changes to the RRMP may be submitted by participants and will be considered by PacifiCorp. Agreed-upon changes to the RRMP will be incorporated into a revised RRMP document. The revised RRMP will be submitted to FERC for final review and approval. Any disagreements on revisions to the RRMP may be resolved using a dispute resolution process.

Factors that may trigger 6- and/or 12-year revisions of the RRMP include:

- Revisions and updates to agency land and resource management plans;
- Catastrophic natural events, such as major forest fires or natural disasters, and significant effects of social disorder;
- New federal and state policies, regulations, and laws that significantly affect recreation resources in the Project area for the new license terms; and
- Documented changes in demographics use patterns, visitor needs, etc.

If an action in the RRMP is modified during the review and update process, the modified action will be cost-capped at the original budget amount in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. For the modified action, these amounts will not exceed the original cost limits for design, engineering, permitting and construction, except to comply with changing legal mandates. PacifiCorp project management and administrative time will not be charged against these amounts unless defined in this RRMP. Plan updates or revisions will not increase the overall financial obligation shown in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs.

#### 4.7 INTERPRETATION AND EDUCATION PROGRAM

Following the new license becoming final, PacifiCorp will develop a detailed plan for the I&E Program for the Project area. PacifiCorp will invite identified stakeholders to form a working group to develop the plan including the following members if desired: PacifiCorp, BLM, USDA-FS, NPS, OPRD, ODFW, CDFG, Klamath County, Siskiyou County, whitewater outfitters, and tribal representatives.

#### 4.7.1 Recreation Resources

The purpose of the I&E Program is to provide enhanced experiences for visitors and residents, encourage participation in resource protection measures by Project area visitors, and promote cooperative, safe behaviors to benefit all Project area resources and visitors. PacifiCorp will provide funding for the initial development of a detailed plan for the I&E Program, as well as initial implementation and follow-on maintenance funding for continued partial support of the I&E Program as defined in Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs.

Led by PacifiCorp, other recreation providers and resource managers in the Project vicinity will be invited to provide input into the development of a plan for the I&E Program following the new license becoming final. The I&E Program will be updated over the term of the new license as appropriate. The I&E Program will only address Project lands and waters and will involve the review and selection of:

- Appropriate themes;
- Appropriate interpretive media;
- Consistent signs and their design;
- Prioritized sites where the media will be located;
- Services to be provided; and
- Program elements to support the needs of other resource areas including aesthetics/visual, fisheries, water quality, terrestrial, and cultural/historic.

For example, the I&E Program may provide interpretive kiosks describing the history of the river canyon including the hydroelectric project, federal W&SR designation, OSSW designation, and cultural and natural resource protection.

PacifiCorp will provide annual funding (cost-capped) for continued maintenance of the I&E Program per Exhibit D—Proposed Recreation Measures, Schedule, and Estimated Costs. This funding will be used to update messages, replace vandalized facilities, provide continued informational services, and other ongoing expenses. Ongoing I&E Program funding decisions will be reviewed at annual recreation meetings.

Potential I&E Program actions related to other resource areas (e.g., fisheries, terrestrial, cultural) will be funded separately outside of the RRMP as part of the actions that describe those measures.

While the I&E Program will focus on Project lands and waters, a component of the program may also address user education regarding W&SR values along the Upper Klamath W&SR, as well as the Middle Klamath W&SR below Iron Gate dam.

#### 4.7.2 Other Resources

During the development of the detailed plan for the I&E Program following the new license becoming final, PacifiCorp will involve other natural and cultural/historic resource representatives as appropriate. After the plan for the I&E Program is developed, ongoing communications with other resource areas will continue and specific requests related to the annual maintenance of the I&E Program will be considered by PacifiCorp and discussed at the annual recreation meeting.

#### 4.8 AESTHETIC/VISUAL RESOURCE ENHANCEMENT PROGRAM

The Aesthetic/Visual Resource Enhancement Program seeks to avoid, reduce, or mitigate adverse effects to aesthetic/visual resources from existing Project facilities, as well as proposed Project modifications, if any, over the term of the new license. To the extent feasible, proposed protection and/or enhancement measures will help reduce the overall visibility and visual contrast of industrial Project facilities located near public viewpoints, in compliance with BLM VMC policies and standards. The Aesthetic/Visual Resources Enhancement Program includes three proposed actions to help preserve or enhance the visual resources in the Project area including:

- Repainting or recoating of specific industrial Project facilities near public viewpoints;
- Vegetative screening surrounding specific industrial Project facilities near public viewpoints; and
- Implementation of other proposed recreation facility and dispersed site enhancement measures in this RRMP that will enhance the aesthetics of the Project area for visitors and area residents.

##### 4.8.1 Repainting or Recoating of Industrial Project Facilities Near Public Viewpoints

Based on an analysis of the visual appearance and contrast of some existing industrial Project facilities documented in the final license application, certain Project facilities are incompatible with the surrounding natural landscape and BLM VMC. To the extent feasible, PacifiCorp will help minimize the adverse effect of selected industrial Project facilities by repainting or recoating them to minimize the visual contrast, to help perpetuate the natural character of the canyon, and to help them blend in with the surrounding natural landscape.

Responsibilities. PacifiCorp will repaint or recoat the following existing industrial Project facilities during the term of the new license:

- Red Barn operations headquarters at the J. C. Boyle dam;
- J. C. Boyle powerhouse, penstock and surge tank in the J.C. Boyle bypass reach; and
- Iron Gate dam penstock.

Prior to repainting or recoating these facilities, PacifiCorp will conduct a photo-simulation of potential color schemes that may be used at each of these Project structures. Using Key Observation Points (KOPs) and the results of this analysis for the J. C. Boyle reservoir and bypass reach, PacifiCorp will consult with BLM and then make final color selections. Paint or coating color(s) will be selected by PacifiCorp based on the results of photo-simulations that minimize the visual contrast of the Project facilities with the surrounding natural landscape. In addition, the availability and cost of potential colored industrial paint or coatings will be used by PacifiCorp as additional selection criteria. The results of this analysis will be presented at the annual recreation meeting. PacifiCorp will document all actions and decisions related to this action in Exhibit C—Rolling 5-Year Recreation Action Plan.

Schedule. The photo-simulation and repainting or recoating of these industrial Project facilities will occur per the following schedule:

- Photo-simulations will be completed by the first anniversary of the new license.
- Repainting or recoating of these Project facilities will occur at the next repainting/recoating interval for that facility, as determined by PacifiCorp operations, but no longer than 15 years after the new license becomes final. The scheduling of repainting/recoating will be based on a determination that deterioration of the outside colored coating has occurred to an extent that it might begin to compromise the integrity of the underlying material. PacifiCorp will, in consultation with BLM, evaluate the status of the existing painted coatings on the penstocks every 3 years or until repainting/recoating has been accomplished.

#### 4.8.2 Vegetative Screening Surrounding Industrial Project Facilities Near Public Viewpoints

Based on an analysis of the visual appearance of existing industrial Project facilities in the final license application, certain industrial Project facilities are incompatible with the surrounding natural landscape and BLM VMC. To the extent feasible, PacifiCorp will help minimize the adverse effect on aesthetic/visual resources associated with specific Project facilities by developing and implementing vegetative screening surrounding these facilities. KOPs where sensitive views will need to be screened will be reviewed with BLM prior to developing landscape plans for visual screening.

Responsibilities. To the extent feasible, PacifiCorp will develop and implement landscape plans that incorporate the use of native vegetation (including tall shrubs and trees) to help buffer and reduce the visual contrast of selected Project facilities. Project facilities where new or improved vegetative screening may improve existing adverse visual contrast include:

- J.C. Boyle powerhouse, penstock, surge tank, and switching station; and
- Red Barn at J.C. Boyle dam.

Landscape plans will be prepared by PacifiCorp in consultation with BLM. Plant selections will include native species that are appropriate for landscape screening purposes and will not cause a significant fire hazard, security concern, or O&M problem. The new landscaping will be temporarily maintained by PacifiCorp to ensure continued health and vigorous growth of the new plantings. PacifiCorp will document all actions and decisions related to this action in Exhibit C—Rolling 5-Year Recreation Action Plan.

Schedule. PacifiCorp will develop landscape plans for each site and will implement these plans by the second anniversary of the new license becoming final.

#### 4.8.3 Implementation of Other Proposed Recreation Facility and Dispersed Site Enhancement Measures

Many of the proposed actions in the RRMP, including proposed flows, will significantly enhance aesthetic/visual resources within and surrounding Project lands and waters. These proposed actions will include the renovation of all Project recreation facilities including new landscaping and structures, implementation of an I&E Program, improved recreation facility maintenance and groundskeeping, and increased management of undeveloped dispersed sites, among others. Details, responsibilities, and scheduling of these proposed actions in the RRMP are presented in Exhibit D – Proposed Recreation Measures, Schedule, and Estimated Costs. Almost every action will enhance the visual appearance of Project recreation sites.

**Intentionally Left Blank**

## **5.0 REFERENCES AND LITERATURE CITED**

- Clark, R.N. and G.H. Stankey. 1979. The Recreation Opportunity Spectrum: A Framework for Planning, Management, and Research. USDA-Forest Service. Pacific Northwest Forest and Range Experiment Station, Seattle, WA. General Technical Report PNW-98. December 1979.
- PacifiCorp. 2004. Final License Application for the Klamath Hydroelectric Project. Portland, Oregon. February 2004.
- Stankey, G.H., D.N. Cole, R.C. Lucas, M.E. Petersen, and S.S. Frissell. 1985. The Limits of Acceptable Change (LAC) System for Wilderness Planning. USDA-Forest Service. Intermountain Forest and Range Experiment Station, Ogden, UT. General Technical Report INT-176. January 1985.
- U.S. Bureau of Land Management (BLM). 2003. Draft Upper Klamath River Management Plan/Environmental Impact Statement and Resource Management Plan Amendments. Lakeview, OR.
- U.S. Forest Service (USDA-FS) Six Rivers National Forest. 1995. Six Rivers National Forest Land and Resource Management Plan. Eureka, CA.
- U.S. Forest Service (USDA-FS) Klamath National Forest. 1995; Amended 2001. Klamath National Forest Land and Resource Management Plan. Yreka, CA.



**EXHIBITS**

**EXHIBIT A. Law Enforcement and Emergency Services Agreements**

Placeholder—to be included in the future.

**EXHIBIT B. FERC License Terms and Conditions**

Placeholder—to be included in the future.

**EXHIBIT C. Rolling 5-Year Recreation Action Plan Framework**

**ROLLING 5-YEAR RECREATION ACTION PLAN  
CALENDAR YEAR \_\_\_\_\_**

**Klamath Hydroelectric Project  
FERC Project No. 2082**

**SUMMARY OF PLANNED ACTIVITIES FOR THIS CY \_\_\_\_\_**

1 Recreation Facility Development/Capital Improvement Program

- 
- 

2 Recreation Facility Operations and Maintenance Program

- 
- 

3 Whitewater Boating and River-Based Fishing Program

- 
- 

4 Recreation Monitoring Program

- 
- 

5 Resource Integration and Coordination Program

- 
-

6 Plan Review and Update Program

- 
- 

7 Interpretation and Education Program

- 
- 

8 Aesthetic/Visual Resource Enhancement Program

- 
-

Program/Activities	PRIOR YEAR CY _____		CURRENT YEAR CY _____		OUT YEAR #1 CY _____		OUT YEAR #2 CY _____		OUT YEAR #3 CY _____	
	Dates	\$	Dates	\$	Dates	\$	Dates	\$	Dates	\$
<b>RECREATION FACILITY DEVELOPMENT/ CAPITAL IMPROVEMENT PROGRAM</b>										
•										
•										
<b>RECREATION FACILITY OPERATIONS AND MAINTENANCE PROGRAM</b>										
•										
•										
<b>WHITEWATER BOATING AND RIVER-BASED FISHING PROGRAM</b>										
•										
•										

Program/Activities	PRIOR YEAR CY _____		CURRENT YEAR CY _____		OUT YEAR #1 CY _____		OUT YEAR #2 CY _____		OUT YEAR #3 CY _____	
	Dates	\$	Dates	\$	Dates	\$	Dates	\$	Dates	\$
<b>RECREATION MONITORING PROGRAM</b>										
•										
•										
<b>RESOURCE INTEGRATION AND COORDINATION PROGRAM</b>										
•										
•										
<b>PLAN REVIEW AND UPDATE PROGRAM</b>										
•										
•										
<b>INTERPRETATION AND EDUCATION PROGRAM</b>										
•										
•										

Program/Activities	PRIOR YEAR		CURRENT YEAR		OUT YEAR #1		OUT YEAR #2		OUT YEAR #3	
	CY _____		CY _____		CY _____		CY _____		CY _____	
	Dates	\$	Dates	\$	Dates	\$	Dates	\$	Dates	\$
AESTHETIC/VISUAL RESOURCE ENHANCEMENT PROGRAM										
•										
•										



**SUMMARY OF RESULTS FROM THE PREVIOUS RRMP CALENDAR YEAR ACTION PLAN**

*(Insert bullet summaries below)*

**Projects Completed Last Calendar Year**

- 
- 
- 

**Projects Not Completed and Carried Forward to the Current Year**

- 
- 
- 

**Unanticipated Events**

- 
- 
- 

**Annual Calendar Year Balance Sheet (in Excel)**

Item	Budget Planned \$	Budget Spent \$	Budget Variance \$	Comments

**SUMMARY OF PLANNED ACTIVITIES FOR THE NEXT THREE FOLLOWING CALENDAR YEARS**

*(Insert bullet summaries below)*

**Recreation Facility Development/Capital Improvement Program**

- 
- 

**Recreation Facility Operations and Maintenance Program**

- 
- 

**Whitewater Boating and River-Based Fishing Program**

- 
- 

**Recreation Monitoring Program**

- 
- 

**Resource Integration and Coordination Program**

- 
- 

**Plan Review and Update Program**

- 
- 

**Interpretation and Education Program**

- 
-

**Aesthetic/Visual Resource Enhancement Program**

- 
-

**EXHIBIT D. Proposed Recreation Measures, Schedule and Estimated Costs**

**RRMP RECREATION FACILITY CAPITAL IMPROVEMENT AND O&M MEASURES**

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>J.C. BOYLE RESERVOIR AREA</b>				
<b>Existing Sites/Trails</b>				
<b>Pioneer Crossing Recreation Area</b>  (Former Pioneer Park East to be vacated due to new SR66 bridge realignment by ODOT; Former Pioneer Park West to be redesigned)	PacifiCorp to operate this site  May consider new agreement with BLM to potentially operate this site in the future (requires a future memorandum of agreement).	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp to coordinate and conduct site redesign and permitting with ODOT.</li> <li>PacifiCorp to construct new boat launch and parking area.</li> <li>PacifiCorp to provide improved and expanded day use facilities including picnic, and sunbathing areas.</li> <li>PacifiCorp to provide new ADA-accessible double vault toilet building.</li> <li>PacifiCorp to renovate the parking area, regravell, and provide vehicle barriers.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to explore potential management agreement with BLM to operate Pioneer Park in the future if both parties agree.</li> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	H H H H H - H M L	\$150,000 \$350,000 \$60,000 \$50,000 \$100,000 - \$5,000 annually = \$150,000
<b>J.C. Boyle Reservoir Dispersed Sites and Use Areas</b>	PacifiCorp to manage dispersed sites on company-owned Project lands	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp to erect natural vehicular barriers to limit some dispersed use in sensitive areas.</li> <li>PacifiCorp to close, rehabilitate and/or harden dispersed sites in sensitive areas, relocate sites away from sensitive resources if necessary, and minimize potential fire hazards as appropriate.</li> <li>PacifiCorp to provide additional fencing, boulders, and other types of barricades to limit impacts in the Spencer Creek area, as appropriate.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to coordinate dispersed use policies and actions with other area land managers.</li> <li>PacifiCorp to provide periodic site cleanup, enforce use policies on company-owned Project lands, minimize fire hazards as appropriate, and protect sensitive resources.</li> </ul>	H H H H M L H M L	\$20,000 \$25,000 \$25,000 - \$2,000 annually = \$60,000

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30- year Costs <sup>2,3</sup>
<b>Potential New Sites/Trails</b>				
<b>New Trail — J.C. Boyle Reservoir Loop Trail</b>	PacifiCorp to build and operate this trail	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp to provide 2 new trailheads and a new non-motorized loop trail connecting Pioneer Park, Topsy Campground, and Boyle Bluffs (approx. 5 mile loop); Trail contingent upon further assessment of cultural resources and future access easements with other land owners.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to provide annual trail O&amp;M.</li> </ul>	H       H M L	\$100,000       \$500 annually = \$15,000
<b>New Day Use Area — Upper J. C. Boyle Reservoir Boater Access</b>	PacifiCorp to build and operate this site	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp to provide improved gravel road access, including barriers to delineate road access, and parking for 10-12 vehicles.</li> <li>PacifiCorp to provide a single ADA-accessible vault toilet building.</li> <li>PacifiCorp to modify the shoreline to accommodate small watercraft access.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	H  H  H  H M L	\$100,000  \$25,000  \$15,000  \$500 annually = \$15,000
<b>New Day Use Area and Campground — Boyle Bluffs Recreation Area</b>	PacifiCorp to build and operate this site.  May also be used as a group reservation campground.	<b>Capital Improvements:</b> If land can be acquired: <ul style="list-style-type: none"> <li>PacifiCorp to rehabilitate disturbed areas in and around this site.</li> <li>PacifiCorp to provide a new gravel access road and gravel parking area.</li> <li>PacifiCorp to provide new vehicular barriers to limit access to roads only.</li> <li>PacifiCorp to provide new day use site at the bluffs area with 10 picnic sites.</li> <li>PacifiCorp to provide 10 new RV and tent campsites (when needed); may also function as a group camp if needed.</li> <li>PacifiCorp to provide an ADA-accessible double-vault toilet building.</li> <li>PacifiCorp to provide a new hand-pump water well with spigots.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	H  H  H  H  H  M  M  H M L	\$25,000  \$65,000  \$20,000  \$75,000  \$800,000  \$54,000  \$50,000  \$1,000 annually = \$30,000
<b>Subtotal J. C. Boyle Reservoir Area Capital Facility Costs — New Construction</b>				<b>\$2,009,000</b>
<b>Subtotal J. C. Boyle Reservoir Area Facility Operations Costs — O&amp;M (30 years)</b>				<b>\$270,000</b>

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>UPPER KLAMATH RIVER/HELL'S CORNER REACH AREA</b>				
<b>Existing Sites/Trails</b>				
<b>Stateline Take-out</b>	BLM and PacifiCorp both have ownership / management at this site; Lower site to be included in the Project.  PacifiCorp to develop a joint management agreement with the BLM.	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp and/or BLM to retain the boater take-out at the lower use area, but harden it (protective matting and gravel to protect area resources (do not enlarge the area of impact); provide natural vehicular barriers to protect sensitive natural and/or cultural resources.</li> <li>PacifiCorp to relocate portable toilets and provide above grade changing rooms at boater take-out area.</li> <li>PacifiCorp to correct the irrigation ditch seepage problem.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp and BLM to cost share on annual O&amp;M of this site.</li> </ul>	H  H  H  H M L	\$65,000  \$15,000  \$3,000  \$2,000 annually = \$60,000
<b>Fishing Access Sites (FAS) 1 – 6</b>	PacifiCorp to operate the 6 river access sites and include them in the Project	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp to enhance the boater take-out at FAS 1 with a regraded road and parking area, interpretive sign, and new ADA-accessible double-vault toilet building (may also be used for changing rooms).</li> <li>PacifiCorp to construct an ADA-accessible fishing platform and short trail at FAS 1, including additional fencing.</li> <li>PacifiCorp to provide hardened sites (protective matting and gravel) and vehicular barriers to protect sensitive natural and/or cultural resources, particularly FAS 1, 5, and 6.</li> <li>PacifiCorp to provide formalized and hardened fishing access trails at FAS 2, 3, 4, and 5.</li> <li>PacifiCorp to repair and replace site facilities over time, including single-vault toilet buildings (3).</li> <li>PacifiCorp to retain a permit-only boater take-out at FAS 6 and provide an ADA-accessible single-vault toilet building (do not enlarge area of impact).</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to limit number of whitewater boating take-out permits to 5 outfitters at FAS 6, when needed.</li> </ul>	H  H  H  H  H M L  H  -	\$75,000  \$30,000  \$60,000  \$20,000  \$110,000  \$50,000  -

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
		<ul style="list-style-type: none"> <li>PacifiCorp to continue O&amp;M.</li> </ul>	H M L	\$2,000 annually = \$60,000
<b>Dispersed Sites and Use Areas</b>	PacifiCorp to manage dispersed sites on company-owned Project lands	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>None.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp to provide periodic maintenance and patrols of dispersed sites on Company-owned lands; Implement resource protection actions consistent with the Upper Klamath River Management Plan, when adopted; Provide periodic site cleanup, enforce use policies, minimize fire hazards as appropriate, and protect sensitive resources on company-owned lands.</li> </ul>	-  H M L	-  \$500 annually = \$15,000
<b>Potential New Sites/Trails</b>				
<b>Enhanced Trail and Boater Access — J. C. Boyle Dam River Access and J. C. Boyle Powerhouse River Access</b>	BLM and PacifiCorp ownership	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp and/or BLM to develop 2 formal hardened fishing access trails, trailheads, signs, and pullouts below the J. C. Boyle dam and near the J. C. Boyle powerhouse.</li> <li>PacifiCorp to develop a new boater put-in site below J.C. Boyle dam; provide sign and graded gravel access road and parking area.</li> <li>PacifiCorp to develop an ADA-accessible fishing access platform near the J. C. Boyle powerhouse area at an existing fishing access trail.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp to fund annual O&amp;M.</li> </ul>	H	\$40,000
	PacifiCorp to develop a joint management agreement with BLM		H	\$20,000
			H	\$20,000
			H M L	\$500 annually = \$15,000
<b>New Day Use Area and Trail — J. C. Boyle Powerhouse River Access — “Old Foundations Area” with a New Trail to Spring Island Boater Access</b>	BLM ownership	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp and/or BLM to provide a pedestrian trailhead and trail to Spring Island from the old foundations area.</li> <li>PacifiCorp and/or BLM to provide gravel parking and large vehicle turnaround area.</li> <li>PacifiCorp and/or BLM to provide a new ADA-accessible double-vault toilet building.</li> <li>PacifiCorp to remove existing building foundations.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>BLM to provide O&amp;M.</li> </ul>	M	\$20,000
	BLM to maintain trail and day use area		M	\$30,000
			M	\$57,000
			M	\$20,000
			-	-
<b>Subtotal River Reach Facility Capital Costs — New Construction</b>				<b>\$635,000</b>
<b>Subtotal River Reach Facility Operations Costs — O&amp;M (30 years)</b>				<b>\$150,000</b>

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>COPCO</b>				
<b>RESERVOIR AREA</b>				
<b>Existing Sites/Trails</b>				
<b>Mallard Cove Recreation Area</b>	PacifiCorp and BLM (access road/hillside only) ownership  PacifiCorp to operate this site	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to improve 10 RV / tent campsites; replace older site amenities.</li> <li>• PacifiCorp to provide 2 new ADA-accessible double-vault toilet buildings; remove the existing toilet building.</li> <li>• PacifiCorp to provide new separate day use area at the point (north of existing parking area) with 5 picnic sites, shade trees and/or shelters.</li> <li>• PacifiCorp to construct an ADA-accessible fishing access pier adjacent to the boat launch and riprap shore protection.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	H H H H  H M L	\$20,000 \$120,000 \$40,000 \$60,000  \$6,000 annually = \$180,000
<b>Copco Cove Recreation Area</b>	PacifiCorp to operate this site	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to redesign boat ramp access and parking area, regravell the parking area.</li> <li>• PacifiCorp to repair and replace 3 picnic sites, regrade the sites.</li> <li>• PacifiCorp to provide an ADA-accessible single-vault toilet building.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to close this site to overnight use and provide enforcement.</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	H H H  -  H M L	\$25,000 \$5,000 \$24,000  -  \$2,000 annually = \$60,000
<b>Copco Reservoir Dispersed Sites and Use Areas</b>	Private and PacifiCorp ownership; PacifiCorp to manage dispersed sites on company-owned Project lands	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>• None.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to close all dispersed sites to overnight use and provide enforcement.</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	-  -  H M L	-  -  \$200 annually = \$6,000
<b>Subtotal Copco Reservoir Facility Capital Costs — New Construction</b>				<b>\$294,000</b>
<b>Subtotal Copco Reservoir Facility Operations Costs — O&amp;M (30 years)</b>				<b>\$246,000</b>



Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>IRON GATE</b>				
<b>RESERVOIR AREA</b>				
<b>Existing Sites/Trails</b>				
<b>Fall Creek Trail</b>	PacifiCorp ownership  CDFG and/or PacifiCorp to maintain trail to the falls	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp and/or CDFG to harden the trail to the falls and its extension (loop trail); Conduct cultural site clearance of trail route.</li> <li>PacifiCorp and/or CDFG to provide a new graveled trailhead and sign along Copco Road outside gate and hatchery area or near the existing parking lot (including 4 parking spaces).</li> <li>PacifiCorp and/or CDFG to provide increased, secure separation between the two uses, such as fencing.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to take over the site if CDFG vacates the property.</li> <li>PacifiCorp and/or CDFG to re-open the trail to the falls to public use.</li> <li>CDFG and/or PacifiCorp to provide annual trail O&amp;M.</li> </ul>	H  H  H  -  H M L  H M L	\$20,000  \$10,000  \$5,000  -  -  -
<b>Fall Creek</b>	PacifiCorp to operate this site	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>PacifiCorp to close and decommission the existing site, including removal of all existing site facilities except the boat ramp. Use of this site would be permitted with on-site supervision only for approved and scheduled events such as a potential Copco II whitewater boating event (1 weekend pre year) or an Audubon Society-sponsored bird count.</li> <li>PacifiCorp to gate access and barricade eastern portion of site and revegetate areas to help protect sensitive natural and/or cultural resources.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	H  H  H	\$20,000  \$18,000  \$250 annually = \$7,500

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>Jenny Creek Recreation Area</b>	PacifiCorp to operate this site  Conversion to a day use walk-in site only	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to close and decommission the existing site; Revegetate the site with native plants.</li> <li>• PacifiCorp to provide a roadside gravel parking pull-out area across Copco Road from the existing site (an existing popular shoreline fishing site).</li> <li>• PacifiCorp to provide a pedestrian trail from the roadside parking pull-out area to the existing toilet building and Jenny Creek.</li> <li>• PacifiCorp to barricade (limit access to) and rehabilitate other nearby creek-side areas to protect sensitive resources.</li> <li>• PacifiCorp to remove the old vault toilet building and provide a new ADA-accessible single-vault toilet building.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	 H  H  H  H  H  H M L	 \$30,000  \$3,000  \$2,000  \$2,000  \$30,000  \$1,000 annually = \$30,000
<b>Wanaka Spring Recreation Area</b>	PacifiCorp to operate this site  Conversion to a group reservation camp	<b>Capital Improvements:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to repair and replace existing site facilities and redesign the site to be a group reservation camp (with 10 to 12 RV/tent campsites) with shade trees and/or shelters.</li> <li>• PacifiCorp to replace the existing vault toilet buildings with ADA-accessible double-vault toilet buildings.</li> <li>• PacifiCorp to regrade and regravell the access road and parking areas; Provide vehicle barriers.</li> <li>• PacifiCorp to provide a central group shelter.</li> <li>• PacifiCorp to provide a hand pump water well with spigots.</li> </ul> <b>Programmatic and O&amp;M:</b> <ul style="list-style-type: none"> <li>• PacifiCorp to implement fee-only reservation camping system when improvements completed.</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	 H  H  H  M  H  H  H M L	 \$50,000  \$65,000  \$50,000  \$10,000  \$30,000  -  \$5,000 annually = \$150,000

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
Camp Creek Recreation Area	PacifiCorp to operate this facility	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to create a new RV/ tent camping area (approximately 40 campsites) on the upper bench area behind the existing toilet building.</li> <li>• PacifiCorp to provide 4 new ADA-accessible double-vault toilet buildings.</li> <li>• PacifiCorp to remove the existing campsites along reservoir shoreline and convert the area to 12 day use picnic sites.</li> <li>• PacifiCorp to provide additional shade trees (including irrigation) and/or covered picnic tables in day use picnic area.</li> <li>• PacifiCorp to formalize the overflow parking area and circulation and provide vehicle barriers.</li> <li>• PacifiCorp to develop formal gravel access roads to both the adjacent private properties and the new campground on the bench.</li> <li>• PacifiCorp to improve and enhance the existing partially ADA-accessible hand boat launch area; Convert this area to a day use site and provide enforcement.</li> <li>• PacifiCorp to provide 5-10 mooring balls for temporary boat moorage near the boat launch.</li> <li>• PacifiCorp to repair and replace existing site facilities at the boat launch including docks and ramp.</li> <li>• PacifiCorp to develop water infrastructure extension to the bench.</li> <li>• PacifiCorp to provide 5-10 overnight boat moorage slips near the boat launch.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to implement fee-only camping system when improvements completed.</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	<p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>M</p> <p>H</p> <p>H</p> <p>M</p> <p>-</p> <p>H M L</p>	<p>\$2,800,000</p> <p>\$200,000</p> <p>\$80,000</p> <p>\$30,000</p> <p>\$30,000</p> <p>\$150,000</p> <p>\$25,000</p> <p>\$5,000</p> <p>\$180,000</p> <p>\$100,000</p> <p>\$50,000</p> <p>-</p> <p>\$15,000 annually = \$450,000</p>

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>Juniper Point Recreation Area</b>	PacifiCorp to operate this site  Conversion to a day use site only	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to relocate the existing toilet buildings to the reservoir side of Copco Road (if possible per County permit); Replace with ADA-accessible double-vault toilet buildings.</li> <li>• PacifiCorp to provide shade trees and/or shelters at picnic sites.</li> <li>• PacifiCorp to redesign the site for day use picnicking only including the access road into the site.</li> <li>• PacifiCorp to provide 9 improved picnic sites.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to gradually phase out overnight use at this site as the Camp Creek Campground expansion is completed (to become day use only); Provide enforcement; Redirect overnight visitors to Camp Creek Rec. Area and/or Long Gulch Bluff Rec. Area (when completed).</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	<p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H M L</p>	<p>\$65,000</p> <p>\$25,000</p> <p>\$60,000</p> <p>\$18,000</p> <p>-</p> <p>\$5,000 annually = \$150,000</p>

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>Mirror Cove Recreation Area</b>	<p>PacifiCorp to operate this site</p> <p>Conversion to a group reservation camp with a separate public boat launch / day use area</p>	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to redesign this site and convert the non-boat launch area to a group reservation camp (10 RV/tent campsites by reservation only); The boat launch area would remain day use only (open to all).</li> <li>• PacifiCorp to relocate the toilet buildings to the reservoir side of Copco Road (if permitted by the County); Provide 2 new ADA-accessible double-vault toilet buildings.</li> <li>• PacifiCorp to provide 5-10 mooring balls for temporary boat moorage.</li> <li>• PacifiCorp to renovate the boat launch to make it ADA-accessible; Provide new boarding floats/docks.</li> <li>• PacifiCorp to relocate the boat ramp to a deeper water area adjacent to the existing ramp, or dredge the existing ramp area and extend the ramp lane.</li> <li>• PacifiCorp to provide 5 new day use picnic sites next to the boat launch.</li> <li>• PacifiCorp to provide shade trees and/or shelters at all camping and day use picnic sites.</li> <li>• PacifiCorp to provide a hand-pump water well and spigots.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to provide enforcement; Redirect non-group overnight visitors to Camp Creek Rec. Area or Long Gulch Bluff Rec. Area (when completed).</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	<p>H</p> <p>H</p> <p>M</p> <p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H</p> <p>H M L</p> <p>H M L</p>	<p>\$75,000</p> <p>\$65,000</p> <p>\$5,000</p> <p>\$25,000</p> <p>\$100,000</p> <p>\$8,000</p> <p>\$30,000</p> <p>\$30,000</p> <p>-</p> <p>\$10,000 annually = \$300,000</p>
<b>Overlook Point Recreation Area</b>	<p>PacifiCorp to operate this site</p> <p>Convert the site to a boat-in day use site only</p>	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to redesign this site to be a boat-in day use only site (3 boat-in sites); Provide additional shade trees (including irrigation) and/or covered picnic tables at each site.</li> <li>• PacifiCorp to provide an ADA-accessible single-vault toilet building and remove the existing toilet buildings.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>• PacifiCorp to close this site to overnight use and prohibit vehicular access; Provide for enforcement.</li> <li>• PacifiCorp to provide annual O&amp;M.</li> </ul>	<p>M</p> <p>M</p> <p>-</p> <p>H M L</p>	<p>\$60,000</p> <p>\$30,000</p> <p>-</p> <p>\$2,000 annually = \$60,000</p>

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>Long Gulch Boat Launch</b>	<p>PacifiCorp to operate this facility</p> <p>Upgrade the boat launch, link this site by trail and road with the proposed new campground in the future</p>	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp to construct a trailhead for the Long Gulch to Iron Gate Hatchery Trail.</li> <li>PacifiCorp to redesign this site; Provide 5 new picnic sites with additional shade trees (including irrigation) and/or covered picnic shelters for each site.</li> <li>PacifiCorp to renovate the boat launch for ADA-accessibility; Provide a boarding float.</li> <li>PacifiCorp to enlarge the boat launch capacity to 2 ramp lanes (when future capacity is needed).</li> <li>PacifiCorp to provide 5-10 mooring balls for temporary boat moorage.</li> <li>PacifiCorp to formalize the gravel parking area, including overflow parking area; provide vehicle barriers.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp to close this site to overnight use sooner (to become day use only); Provide enforcement; Redirect overnight visitors to the new Long Gulch Bluff and renovated Camp Creek Campgrounds (when completed).</li> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	<p>M</p> <p>H</p> <p>H</p> <p>M</p> <p>M</p> <p>H</p> <p>H</p> <p>H M L</p>	<p>\$8,000</p> <p>\$75,000</p> <p>\$35,000</p> <p>\$100,000</p> <p>\$5,000</p> <p>\$30,000</p> <p>-</p> <p>\$4,000 annually = \$120,000</p>
<b>Iron Gate Hatchery Public Use Area</b>	<p>CDFG/PacifiCorp ownership</p> <p>CDFG to continue to operate this facility</p> <p>PacifiCorp to make some visitor improvements</p>	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp to redesign this day use area as the southern visitor interpretive gateway to the Klamath Project (see I&amp;E Program).</li> <li>PacifiCorp to provide additional shade trees (including irrigation) and/or covered picnic tables at picnic sites.</li> <li>PacifiCorp to construct a trailhead for the Bogus Creek Trail and the Long Gulch to Iron Gate Hatchery Trail; Provide signs.</li> <li>PacifiCorp to improve the adjacent river boat launch by hardening the access road.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>CDFG to provide annual O&amp;M.</li> </ul>	<p>H</p> <p>H</p> <p>M</p> <p>H</p> <p>-</p>	<p>See I&amp;E Program</p> <p>\$20,000</p> <p>\$5,000</p> <p>\$10,000</p> <p>-</p>
<b>Iron Gate Reservoir Dispersed Sites and Use Areas</b>	<p>PacifiCorp to manage these sites on company-owned Project land</p>	<p><b>Capital Improvements:</b></p> <ul style="list-style-type: none"> <li>None.</li> </ul> <p><b>Programmatic and O&amp;M:</b></p> <ul style="list-style-type: none"> <li>PacifiCorp to prohibit all overnight camping at dispersed sites/areas; Provide for enforcement.</li> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	<p>-</p> <p>-</p> <p>H M L</p>	<p>-</p> <p>-</p> <p>\$200 annually = \$6,000</p>

Resource Area/Sites	Ownership and Operation	Capital Improvements and Programmatic and O&M Proposals	Phasing <sup>1</sup> (H M L)	Estimated 30-year Costs <sup>2,3</sup>
<b>Potential New Sites/Trails</b>				
<b>New Campground and Day Use Area — Long Gulch Bluff Recreation Area</b>	PacifiCorp to build and operate this facility	<b>Capital Improvements:</b>		
		<ul style="list-style-type: none"> <li>PacifiCorp to develop a new campground (approx. 40 RV/tent sites) on the bluff adjacent to the existing boat launch — to be phased after documented use levels at Camp Creek Rec. Area reaches capacity per the Monitoring Program; Provide gravel roads and centralized drinking water.</li> </ul>	M L (trigger action)	\$3,500,000
		<ul style="list-style-type: none"> <li>PacifiCorp to provide 3 new ADA-accessible double-vault toilet buildings.</li> </ul>	M L (trigger action)	\$180,000
		<ul style="list-style-type: none"> <li>PacifiCorp to develop a non-motorized trail between the campground, and boat launch with overlook areas.</li> </ul>	M L	\$8,000
		<ul style="list-style-type: none"> <li>PacifiCorp to develop a shoreline day use picnic area at a nearby cove with parking and double-vault toilet building.</li> </ul>	M (trigger action)	\$35,000
		<b>Programmatic and O&amp;M:</b>		
<ul style="list-style-type: none"> <li>PacifiCorp to implement a fee-only camping system when improvements are completed.</li> </ul>	M L	-		
<ul style="list-style-type: none"> <li>PacifiCorp to provide adequate road and bridge maintenance for public access to the site (see future Roads Program, in process).</li> </ul>	H M L	-		
<ul style="list-style-type: none"> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	M L	\$15,000 annually = \$300,000		
<b>New Trail — Long Gulch to Iron Gate Hatchery Trail</b>	PacifiCorp to develop and maintain trail	<b>Capital Improvements:</b>		
		<ul style="list-style-type: none"> <li>PacifiCorp to provide a multi-use dirt trail from Long Gulch to the Iron Gate Hatchery along an old roadbed (approx. 1 mile).</li> </ul>	M	\$10,000
		<b>Programmatic and O&amp;M:</b>		
		<ul style="list-style-type: none"> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	M L	\$500 annually = \$10,000
<b>New Trail — Bogus Creek Trail</b>	PacifiCorp to improve and maintain trail	<b>Capital Improvements:</b>		
		<ul style="list-style-type: none"> <li>PacifiCorp to improve an existing short spur trail along Bogus Creek and provide signage (approx. 0.5 miles).</li> </ul>	M	\$5,000
		<b>Programmatic and O&amp;M:</b>		
		<ul style="list-style-type: none"> <li>PacifiCorp to provide annual O&amp;M.</li> </ul>	M L	-
<b>Subtotal Iron Gate Reservoir Facility Capital Costs — New Construction</b>				<b>\$8,617,000</b>
<b>Subtotal Iron Gate Reservoir Facility Operations Costs — O&amp;M (30 years)</b>				<b>\$1,583,500</b>
<b>Total Capital Facility Costs For All Recreation Areas — New Construction</b>				<b>\$11,555,000</b>
<b>Total Facility Operations Costs For All Recreation Areas — O&amp;M (30 years)</b>				<b>\$2,249,500</b>

**RRMP AESTHETIC/VISUAL RESOURCE ENHANCEMENT MEASURES**

<b>Programmatic Measure</b>	<b>Measure Details</b>	<b>Phasing<sup>1</sup></b>	<b>Estimated Costs<sup>2</sup></b>
<p>PacifiCorp to minimize existing adverse aesthetic effects of certain Project industrial facilities on surrounding public viewpoints by repainting or recoating them so they may blend in better with the surrounding natural landscape to the extent feasible, in compliance with BLM Visual Management Classes (VMC) and Siskiyou County aesthetic policies..</p>	<ul style="list-style-type: none"> <li>PacifiCorp will repaint or reapply colored industrial coatings using naturally appearing colors to certain of the company’s existing Project industrial facilities during the term of the new license, including: Red Barn operations headquarters at the J. C. Boyle dam area, the J.C. Boyle powerhouse, penstock and surge tank in the J. C. Boyle bypass reach, and the Iron Gate dam penstock; Photo-simulations will be completed by the first anniversary of the new license; Repainting or recoating of these Project industrial facilities will occur at the next painting interval for that facility, as determined by PacifiCorp operations, but no later than year 15 of the new license term.</li> </ul>	<p>During normal maintenance, but no later than year 15 of the new license</p>	<p>\$150,000</p>
<p>PacifiCorp to minimize existing adverse aesthetic effects of certain Project industrial facilities on surrounding public viewpoints by implementing and maintaining native vegetative screening surrounding these facilities so they may blend in better with the surrounding natural landscape to the extent feasible, in compliance with BLM VMC and Siskiyou County aesthetic policies.</p>	<ul style="list-style-type: none"> <li>PacifiCorp will develop and implement landscape plans that incorporate the use of native vegetation where practicable to help buffer, screen, and reduce the visual contrast of selected Project industrial facilities from nearby sensitive public viewpoints; Project facilities include: J.C. Boyle powerhouse, penstock, surge tank, and switching station, and the Red Barn at J.C. Boyle dam; Landscape plans will be prepared by PacifiCorp, in consultation with BLM where appropriate; Plantings will be designed to occur in naturally appearing patterns; Plant selections will include native species that will not create fire, security, or operational problems, where practicable; The land-scaping will be temporarily maintained by PacifiCorp until the plantings are established to ensure continued health.</li> </ul>	<p>H</p>	<p>\$300,000</p>
<p>PacifiCorp to implement all of the proposed recreation facility capital improvement and O&amp;M measures that collectively will significantly enhance the aesthetic/visual appearance of the Project area.</p>	<ul style="list-style-type: none"> <li>PacifiCorp will implement the proposed measures in this RRMP that include renovation of all Project recreation facilities; These actions will include new or renovated landscaping and structures, implementation of an I&amp;E Program, improved recreation facility maintenance, and increased management of undeveloped dispersed sites, among others.</li> </ul>	<p>H M L</p>	<p>Costs included previously</p>



<b>Programmatic Measure</b>	<b>Measure Details</b>	<b>Phasing<sup>1</sup></b>	<b>Estimated Costs<sup>2</sup></b>
<b>Subtotal Aesthetic/Visual Resource Costs for the Project</b>			<b>\$450,000</b>

**RRMP PROGRAMMATIC ACTIONS**

<b>Programmatic Measure</b>	<b>Measure Details</b>	<b>Phasing<sup>1</sup></b>	<b>Estimated Costs<sup>2</sup></b>
PacifiCorp to implement the programs and actions contained in the Recreation Resource Management Plan (RRMP) over the term of the new license (min. of 30 years, up to 50 years).	<ul style="list-style-type: none"> <li>PacifiCorp to develop and implement agreements with other entities as required including joint management agreements and easements with the BLM, CDFG and/or private landowners (as needed).</li> </ul>	H M L	\$20,000
	<ul style="list-style-type: none"> <li>PacifiCorp to provide adequate company staff or contractor time and resources for recreation resource management-related activities and implementation of proposed RRMP measures, monitoring requirements, and periodic reporting (30 years minimum, up to 50 years).</li> </ul>	H M L	Average of \$30,000 annually = \$900,000
	<ul style="list-style-type: none"> <li>PacifiCorp to provide periodic recreation visitor surveys and visitor counts every 12 years and reporting every 6 years (schedule concurrent with the FERC Form 80 requirement).</li> </ul>	H M L	\$180,000 <sup>3</sup>
PacifiCorp to provide increased resource protection and visitor management control on Project lands over the term of the new license.	<ul style="list-style-type: none"> <li>PacifiCorp to provide additional seasonal resource protection and visitor management control by providing a PacifiCorp Park Ranger to patrol by vehicle all Project recreation sites and reservoir shorelines during the busiest 6 months of the year (1/2 FTE, May through October) (30 years minimum).</li> </ul>	H M L	\$30,000 annually = \$900,000

<b>Programmatic Measure</b>	<b>Measure Details</b>	<b>Phasing<sup>1</sup></b>	<b>Estimated Costs<sup>2</sup></b>
PacifiCorp to increase seasonal land-based law enforcement presence on Project lands and waters over the term of the new license.	<ul style="list-style-type: none"> <li>PacifiCorp to seek a contract with the Siskiyou County Sheriff’s Office (or other appropriate entity) for land-based law enforcement patrols of Project lands from Iron Gate Hatchery upstream to Stateline Take-out; Patrols to occur from May through October (1/2 FTE, May through October) (30 years minimum); and Siskiyou County Sheriff’s Office will continue to provide CDBW-funded Marine Patrols.</li> </ul>	H M L	\$40,000 annually= \$1,200,000 <sup>3</sup>
	<ul style="list-style-type: none"> <li>PacifiCorp to coordinate its company-provided resource protection/visitor management patrols with other ongoing BLM and Klamath County Sheriff’s Office law enforcement patrols in the J. C. Boyle reservoir and J. C. Boyle bypass reach areas to maximize management presence and coverage, address changing visitor management needs, provide backup coverage when needed, and better enforce new dispersed site use restrictions.</li> </ul>	H M L	-
PacifiCorp to develop and implement an Interpretation and Education (I&E) Program on Project lands and waters over the term of the new license.	<ul style="list-style-type: none"> <li>PacifiCorp to develop a detailed plan for the I&amp;E Program within 1 year of the license becoming final.</li> </ul>	H	\$95,000 <sup>3</sup>
	<ul style="list-style-type: none"> <li>PacifiCorp to implement the I&amp;E Program that is estimated to include designing and placing approximately 25 signs/small kiosks within the Project area, developing visitor brochures, providing campfire talks, etc.</li> </ul>	H	\$200,000
	<ul style="list-style-type: none"> <li>PacifiCorp to provide annual funding (up to a cap) for the maintenance, repair and replacement of I&amp;E Program signs once they are installed and updating brochures over time.</li> </ul>	H M L	\$2,500 annually = \$75,000 <sup>3</sup>

Programmatic Measure	Measure Details	Phasing <sup>1</sup>	Estimated Costs <sup>2</sup>
PacifiCorp to entertain continued discussions and agency requests regarding non-Project company-owned lands outside of the Project proceedings.	<ul style="list-style-type: none"> <li>PacifiCorp will address future management actions on adjacent company-owned, non-Project lands separately from the Project proceedings, including Sportsman’s Park and Frain Ranch company properties that are not within the FERC Project boundary; Potential management agreements with Klamath County and/or the BLM, respectively, may be pursued by PacifiCorp outside of the Project proceedings.</li> </ul>	H	-
	<ul style="list-style-type: none"> <li>PacifiCorp to define future ownership, management responsibilities, and transfer of rights of the Link River Trail and corridor lands within a future Decommissioning Plan for the Eastside and Westside Developments to be developed by PacifiCorp.</li> </ul>	H	-
	<ul style="list-style-type: none"> <li>PacifiCorp to define future ownership, management responsibilities, and transfer of rights of the Keno Recreation Area within a future FERC jurisdictional proceeding.</li> </ul>	H	-
PacifiCorp to continue to support whitewater boating and river-based fishing in compatible Project river reaches by providing adequate flow releases and timeframes below the J. C. Boyle powerhouse to support both river recreation activities, providing adequate boater and angler river access sites within the Project area, and providing adequate flow information for Project area visitors.	<ul style="list-style-type: none"> <li>PacifiCorp to continue to provide flow information via a toll-free flow phone and a website for Hell’s Corner Reach and below Iron Gate dam.</li> </ul>	H M L	Costs are part of operations
	<ul style="list-style-type: none"> <li>PacifiCorp to provide and enhance several boater and angler river access sites defined in the RRMP, Section 4.3.</li> </ul>	H M L	Costs included previously
	<ul style="list-style-type: none"> <li>PacifiCorp to provide proposed flows below the J. C. powerhouse as defined in the final license application (PacifiCorp, 2004) that adequately supports continued whitewater boating and river-based fishing opportunities in the Project area.</li> </ul>	H M L	Costs are part of operations
<b>Subtotal Overall RRMP Programmatic Costs (30 years)</b>			<b>\$3,570,000</b>
<b>TOTAL RRMP COST — Capital Facility, Facility O&amp;M, Aesthetics/Visual, and RRMP Programmatic</b>			<b>\$17,824,500</b>

<sup>1</sup> **Phasing:** High (H) – First 10 years of the new license after license issuance and acceptance.

Moderate (M) – Second 10 years of the new license after license issuance and acceptance.

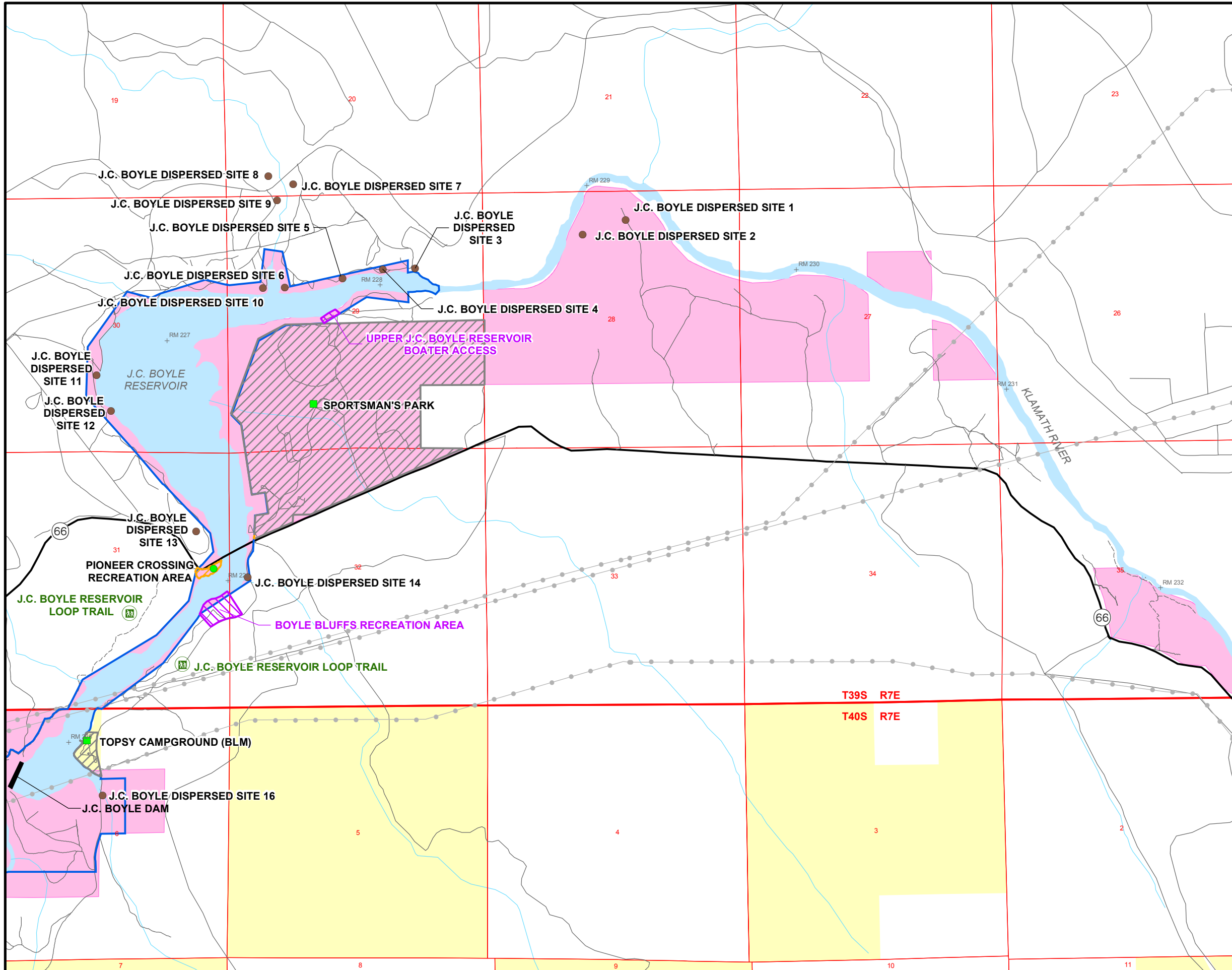
Low (L) – Third 10 years of the new license after license issuance and acceptance, or to term of the new license.

<sup>2</sup> License term could be 30-50 years; only 30 years are costed.

<sup>3</sup> Action is cost-capped at this funding level. Other actions are estimated and may vary during implementation.

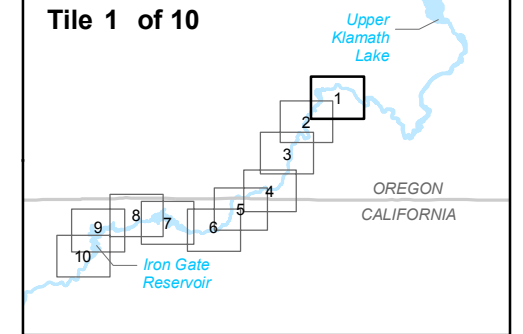
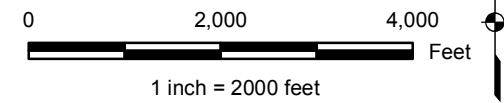
**EXHIBIT E. Conceptual Site Plans**





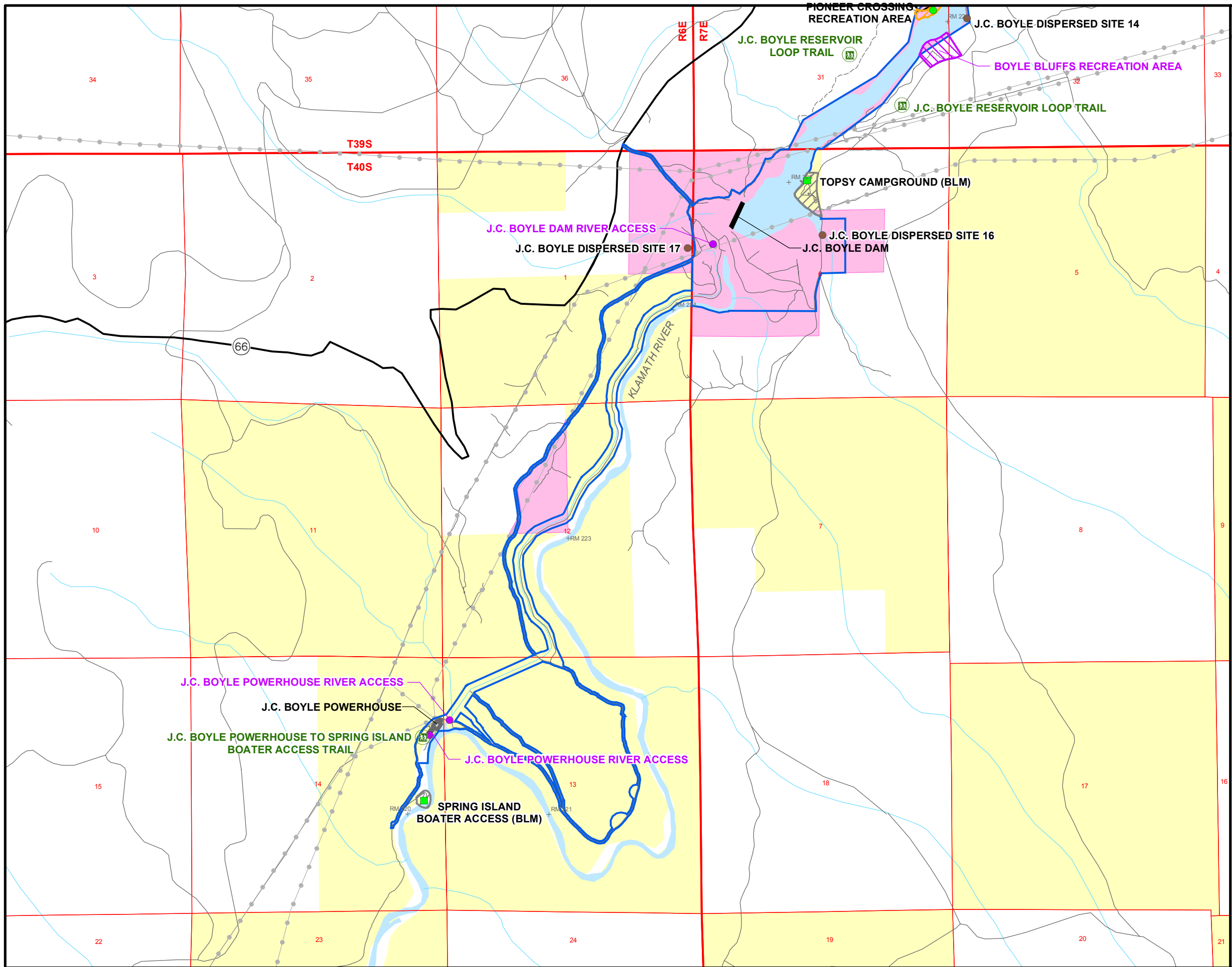
**LEGEND**

- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- DISPERSED RECREATION SITE
- TRAILHEAD
- POTENTIAL TRAIL
- CITY
- PROPOSED FERC BOUNDARY
- HIGHWAY
- ROAD
- TRAIL
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- SECTION
- STREAM
- LAKE, RESERVOIR, OR RIVER
- PACIFICORP PROPERTY
- BLM
- USFS

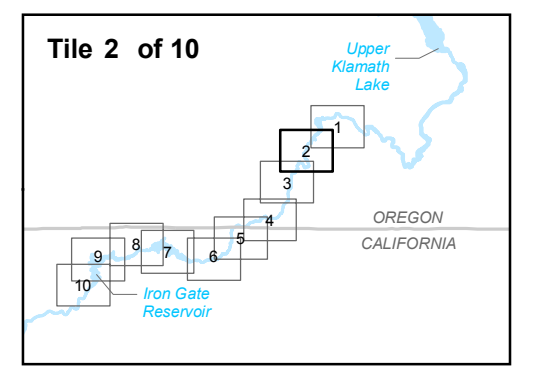
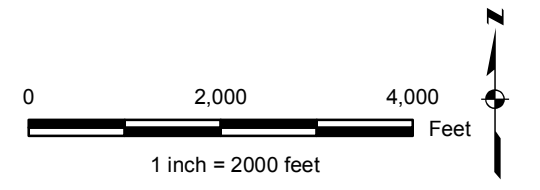


**Klamath Hydroelectric Project**

**Exhibit E ( 1 of 10 )**  
Project Recreation Sites

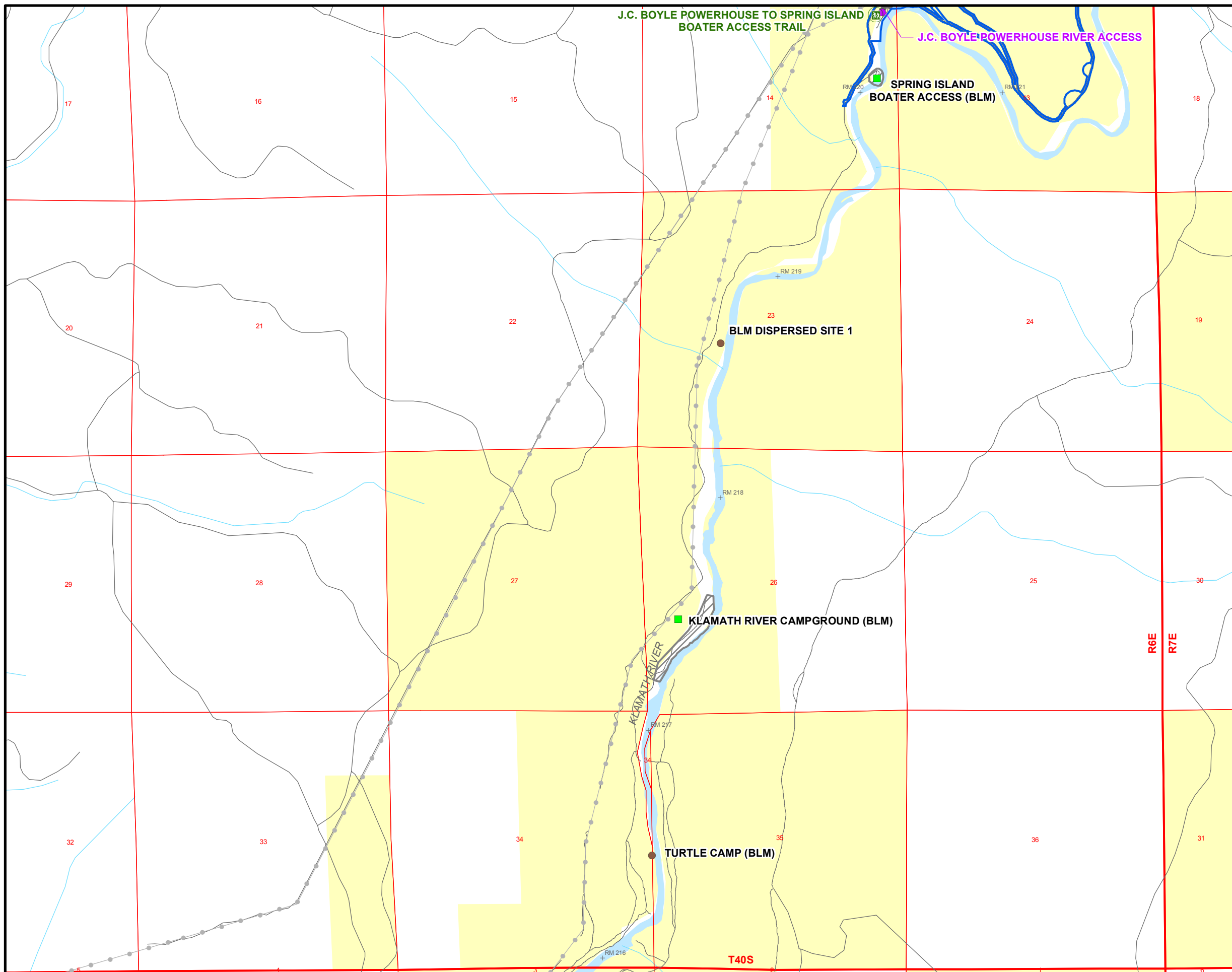


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

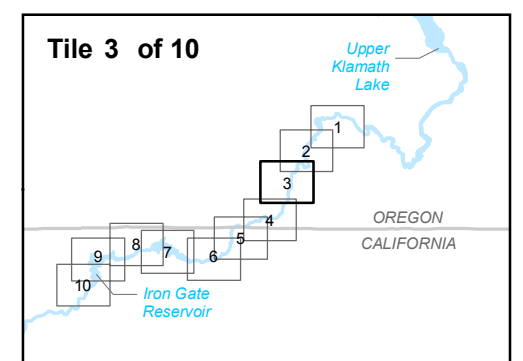
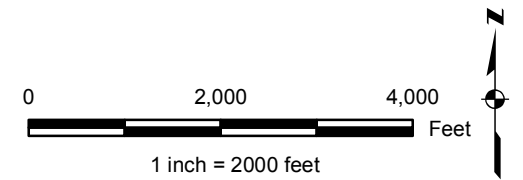


**Klamath Hydroelectric Project**

**Exhibit E (2 of 10)**  
Project Recreation Sites



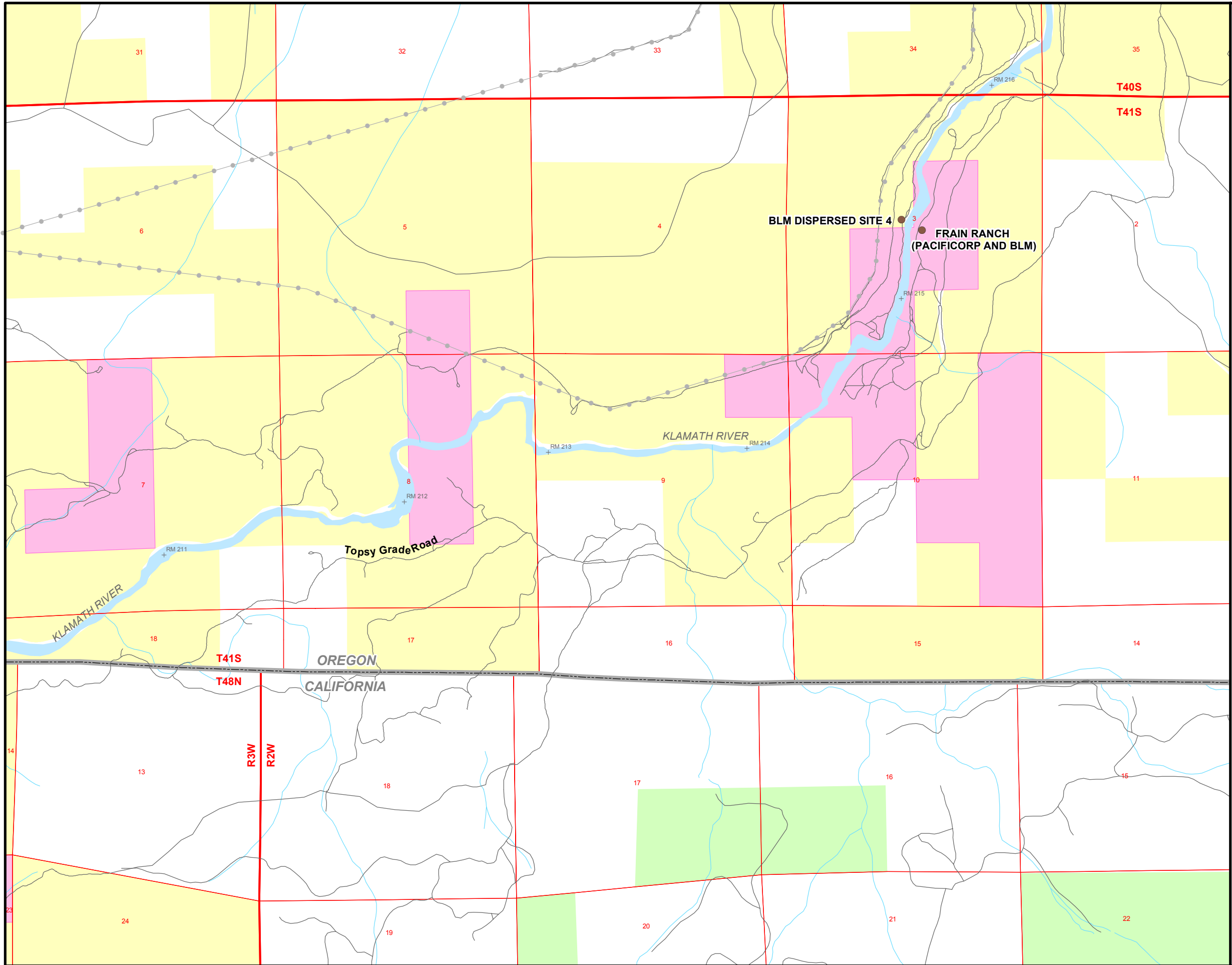
- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS



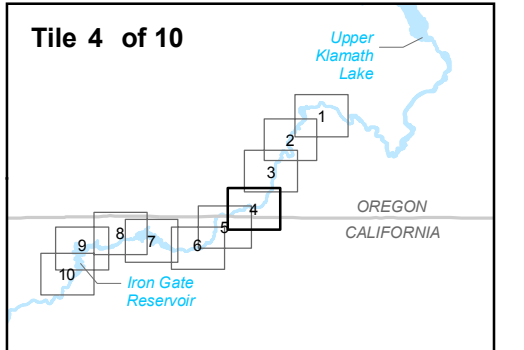
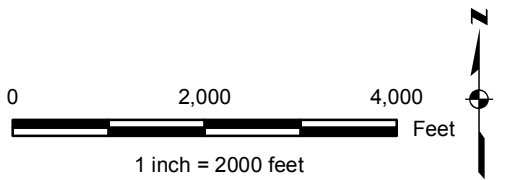
**Klamath Hydroelectric Project**

**Exhibit E ( 3 of 10 )**  
Project Recreation Sites



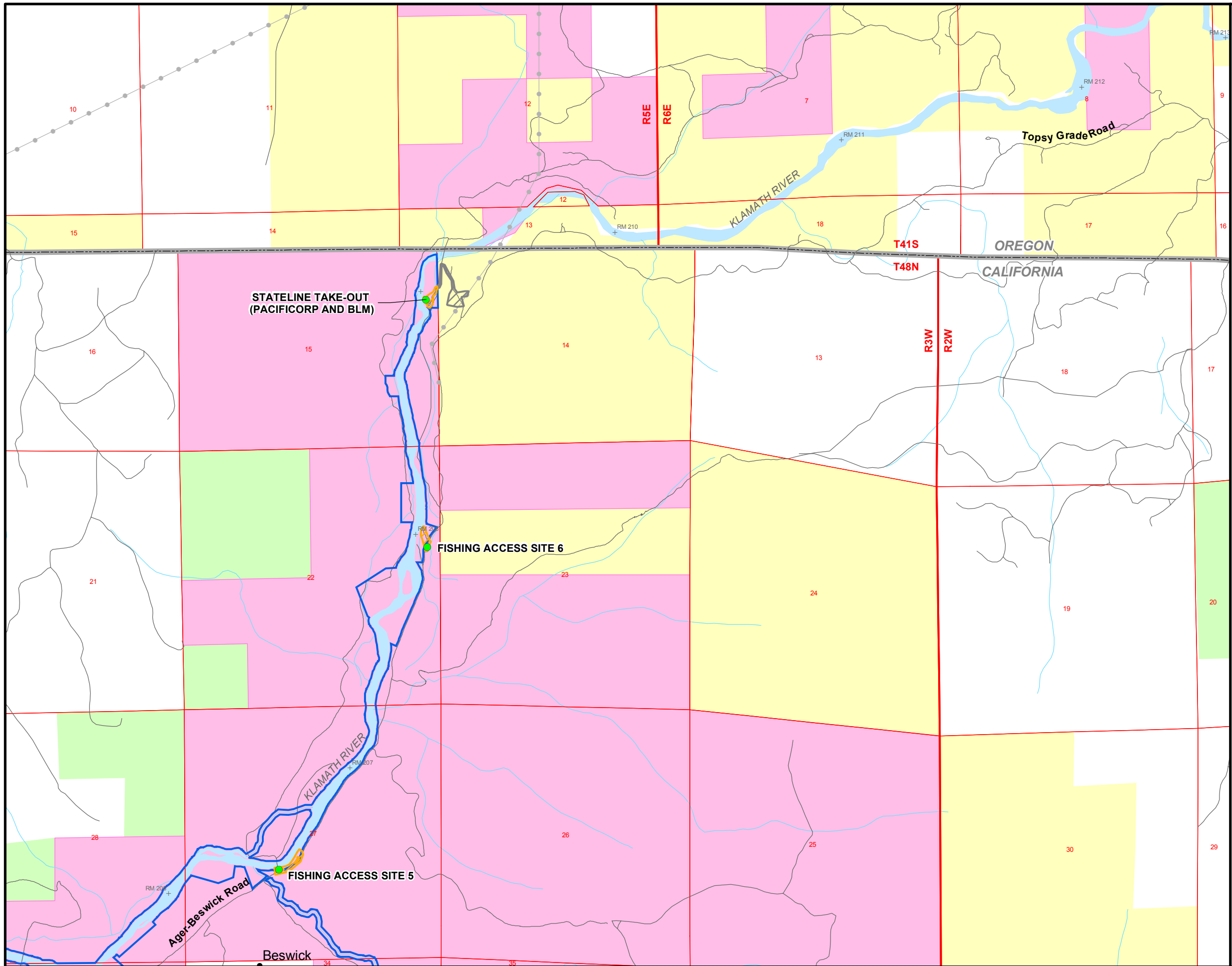


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

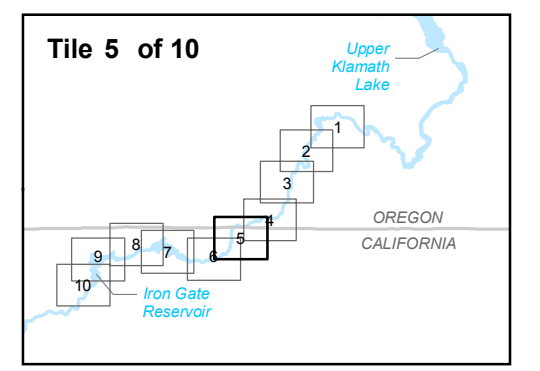
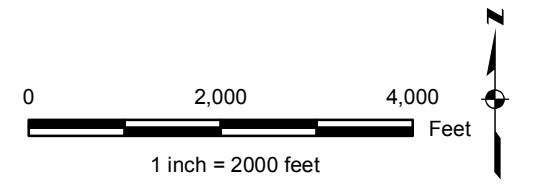


**Klamath Hydroelectric Project**

**Exhibit E ( 4 of 10)**  
Project Recreation Sites

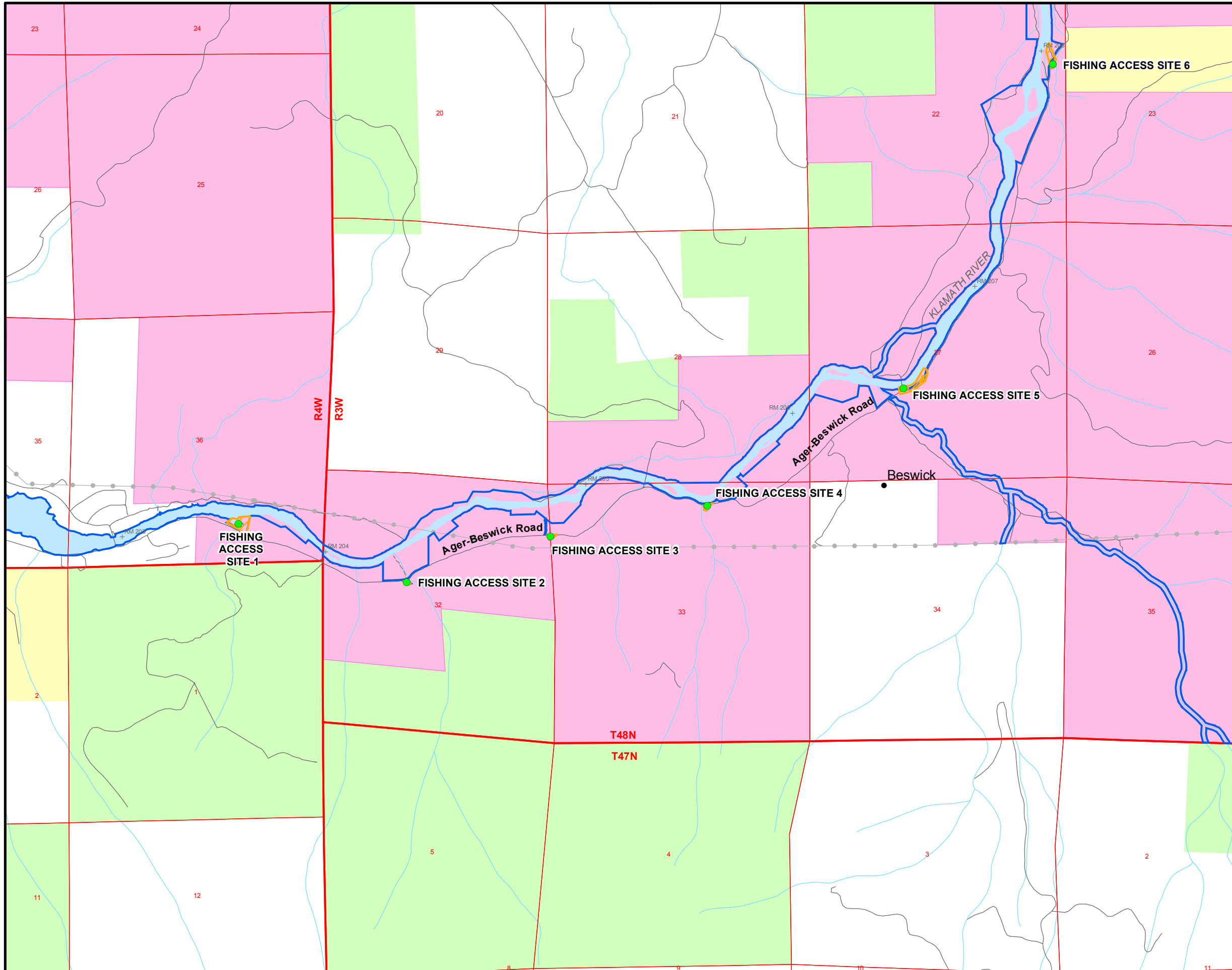


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

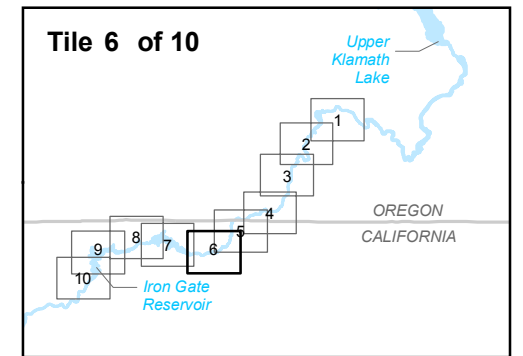
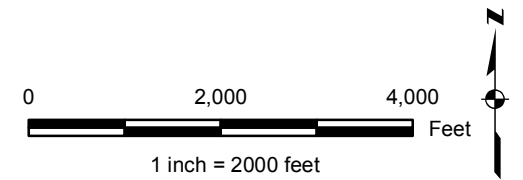


**Klamath Hydroelectric Project**

**Exhibit E ( 5 of 10 )**  
Project Recreation Sites

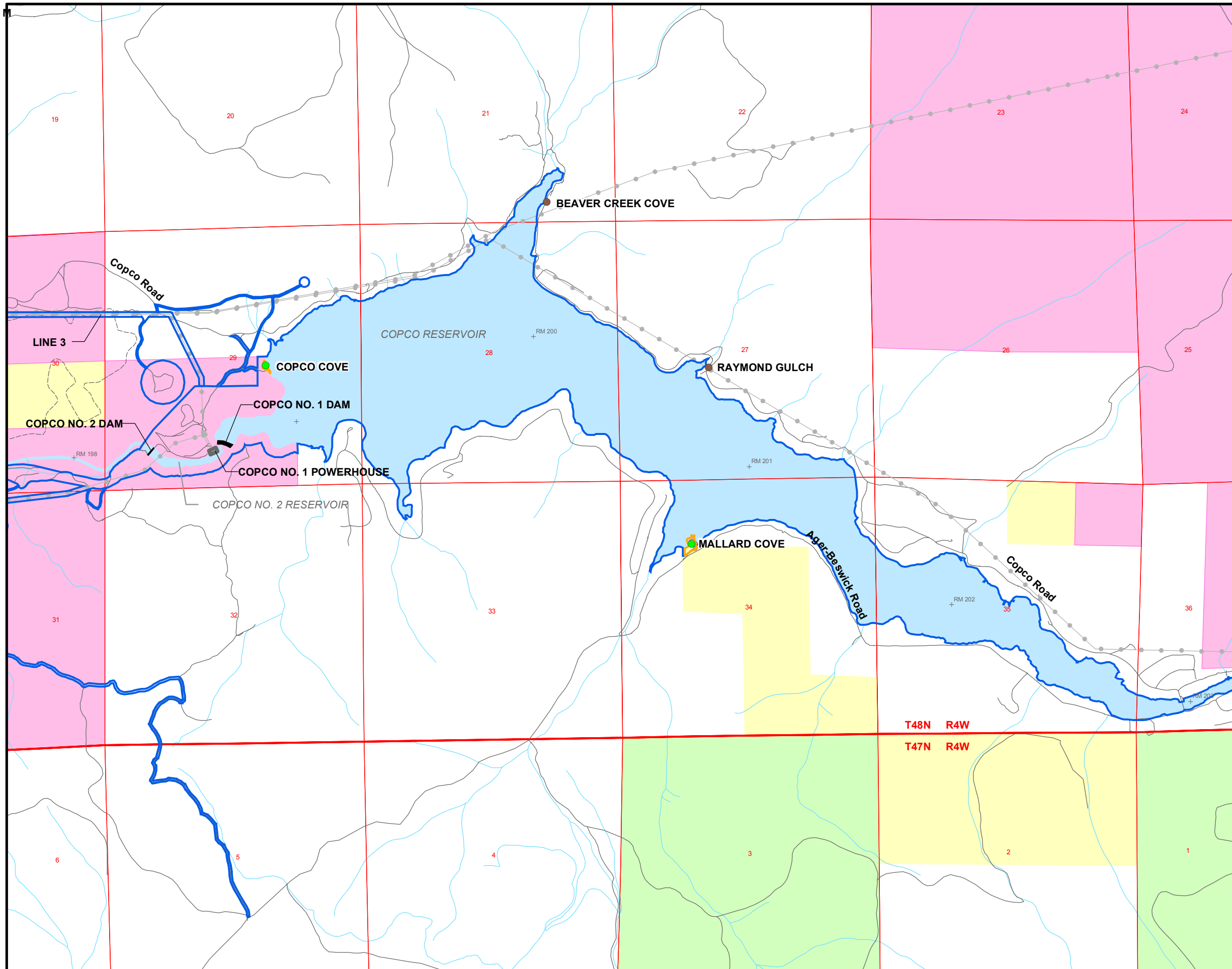


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

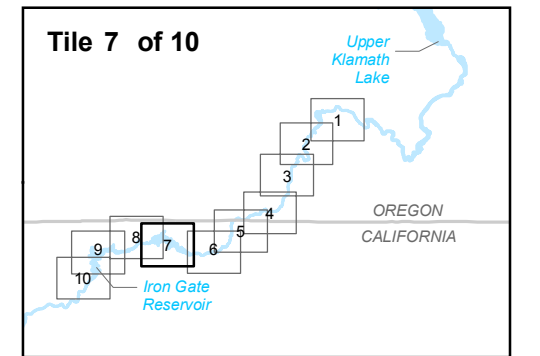
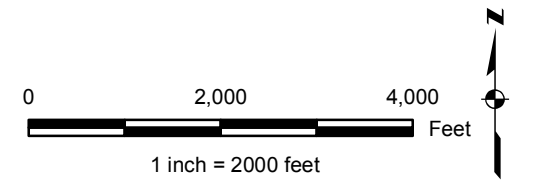


**Klamath Hydroelectric Project**

**Exhibit E ( 6 of 10 )**  
Project Recreation Sites

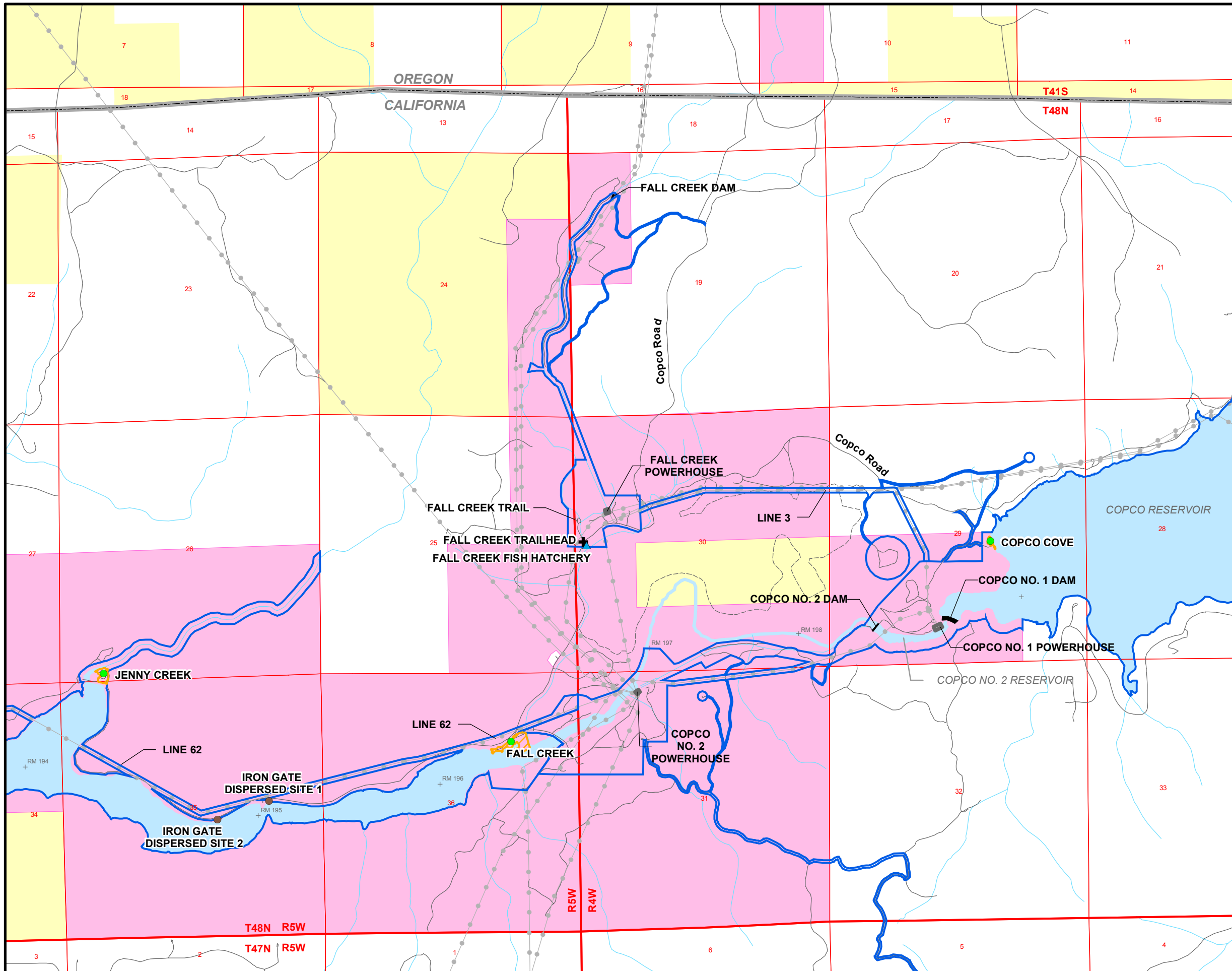


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

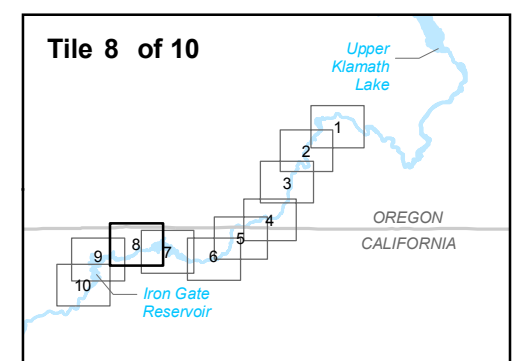
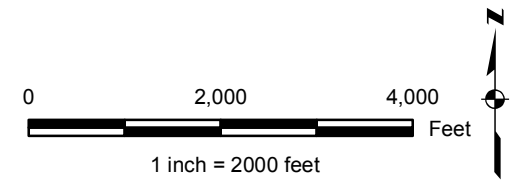


**Klamath Hydroelectric Project**

**Exhibit E ( 7 of 10 )**  
Project Recreation Sites

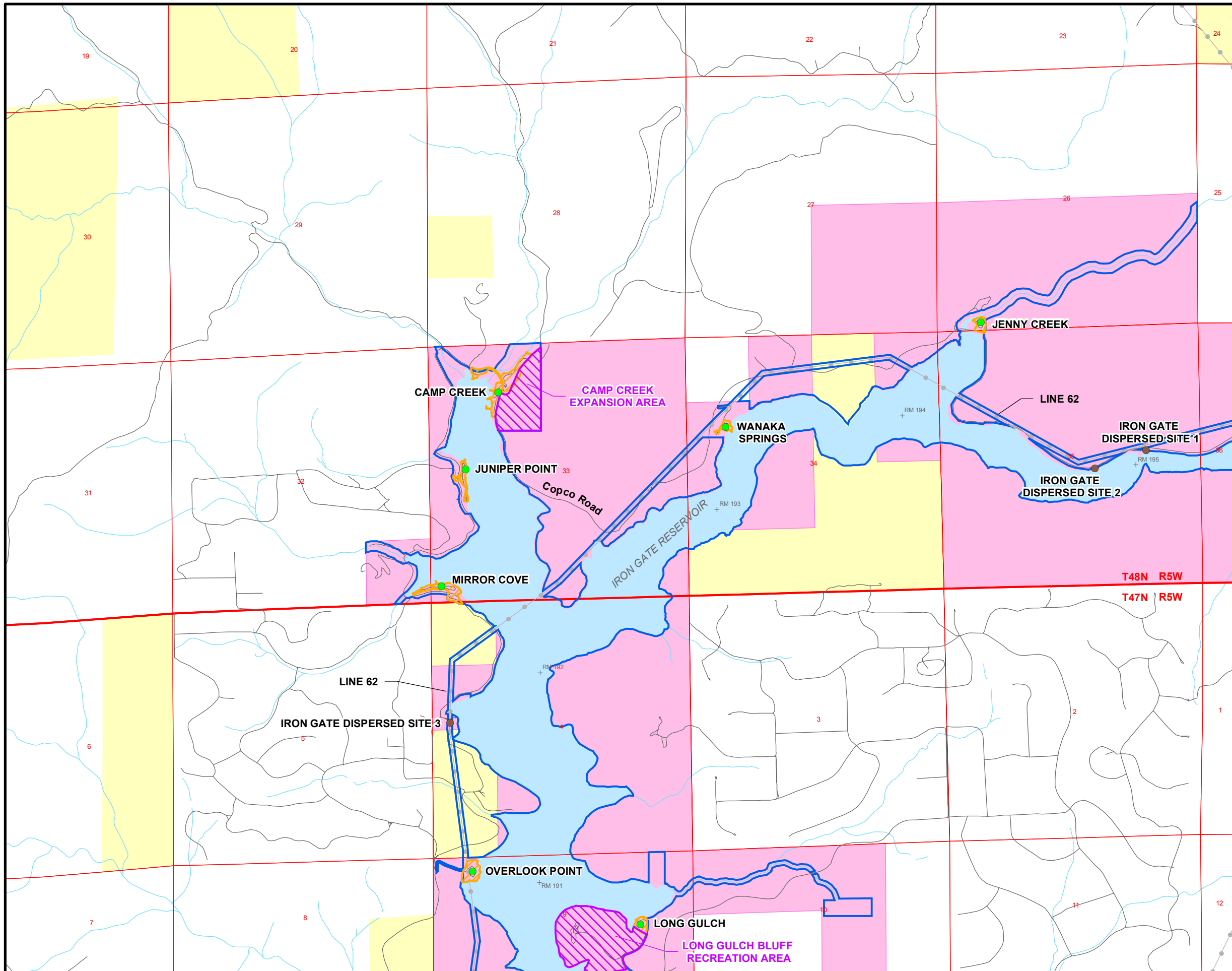


- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

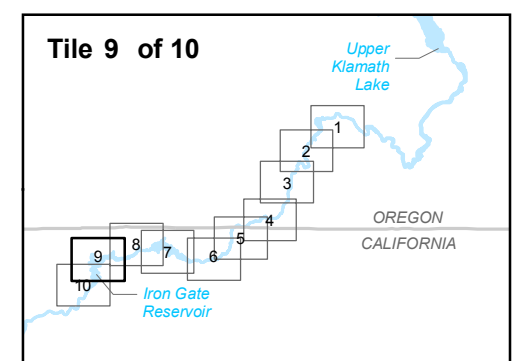
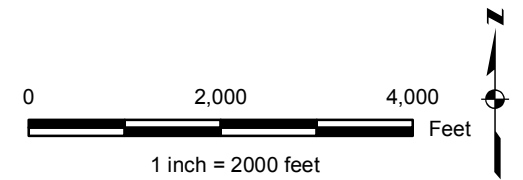


**Klamath Hydroelectric Project**

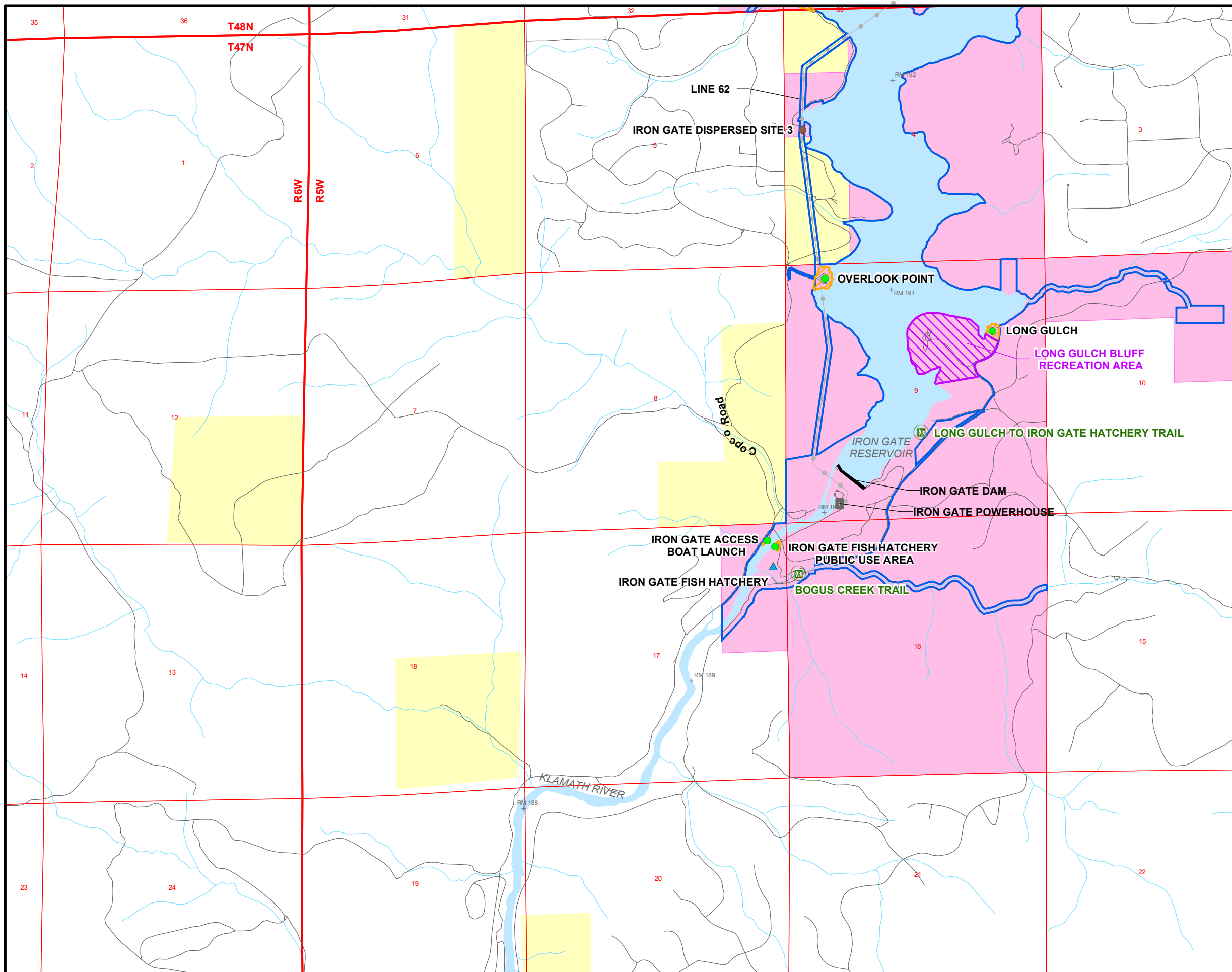
**Exhibit E ( 8 of 10 )**  
Project Recreation Sites



- LEGEND**
- FISH HATCHERY
  - DEVELOPED RECREATION SITE
  - DEVELOPED NON-PROJECT RECREATION SITE
  - PROPOSED PROJECT RECREATION SITE
  - DISPERSED RECREATION SITE
  - TRAILHEAD
  - POTENTIAL TRAIL
  - CITY
  - PROPOSED FERC BOUNDARY
  - HIGHWAY
  - ROAD
  - TRAIL
  - TRANSMISSION LINE
  - TOWNSHIP/RANGE
  - SECTION
  - STREAM
  - LAKE, RESERVOIR, OR RIVER
  - PACIFICORP PROPERTY
  - BLM
  - USFS

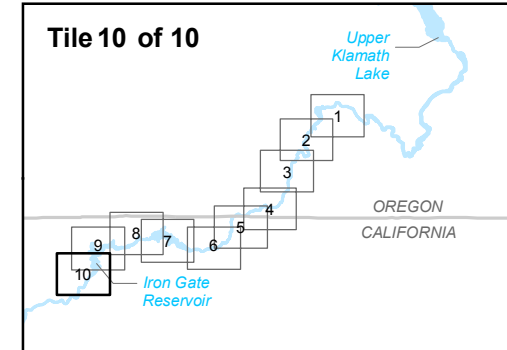
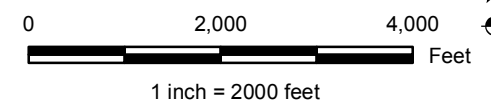


**Klamath Hydroelectric Project**  
**Exhibit E ( 9 of 10 )**  
 Project Recreation Sites



**LEGEND**

- FISH HATCHERY
- DEVELOPED RECREATION SITE
- DEVELOPED NON-PROJECT RECREATION SITE
- PROPOSED PROJECT RECREATION SITE
- DISPERSED RECREATION SITE
- TRAILHEAD
- POTENTIAL TRAIL
- CITY
- PROPOSED FERC BOUNDARY
- HIGHWAY
- ROAD
- TRAIL
- TRANSMISSION LINE
- TOWNSHIP/RANGE
- SECTION
- STREAM
- LAKE, RESERVOIR, OR RIVER
- PACIFICORP PROPERTY
- BLM
- USFS



**Klamath Hydroelectric Project**

**Exhibit E (10 of 10)**  
Project Recreation Sites

JC Boyle Reservoir

PACIFIC POWER

JELD WEN INC.

PACIFIC POWER

Hand-launch Boat Access

Proposed Boater Access Site

Parking Area

Gate

















Proposed Access through Sportsman's Park

# UPPER J.C. BOYLE RESERVOIR BOATER ACCESS

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Recreation Area GPS Boundary
-  Ownership Boundaries
-  Lease Area Boundary
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Signs
-  Trash Receptacles



50 0 50 100 Feet

Scale: 1:2400 1" = 200'



September 2004  
Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:

- Provide gravel road access and parking for 10-12 vehicles.
- Provide 3 picnic tables and a single-vault toilet building.
- Modify shoreline to provide small watercraft access.


















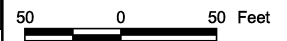
# PIONEER CROSSING RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

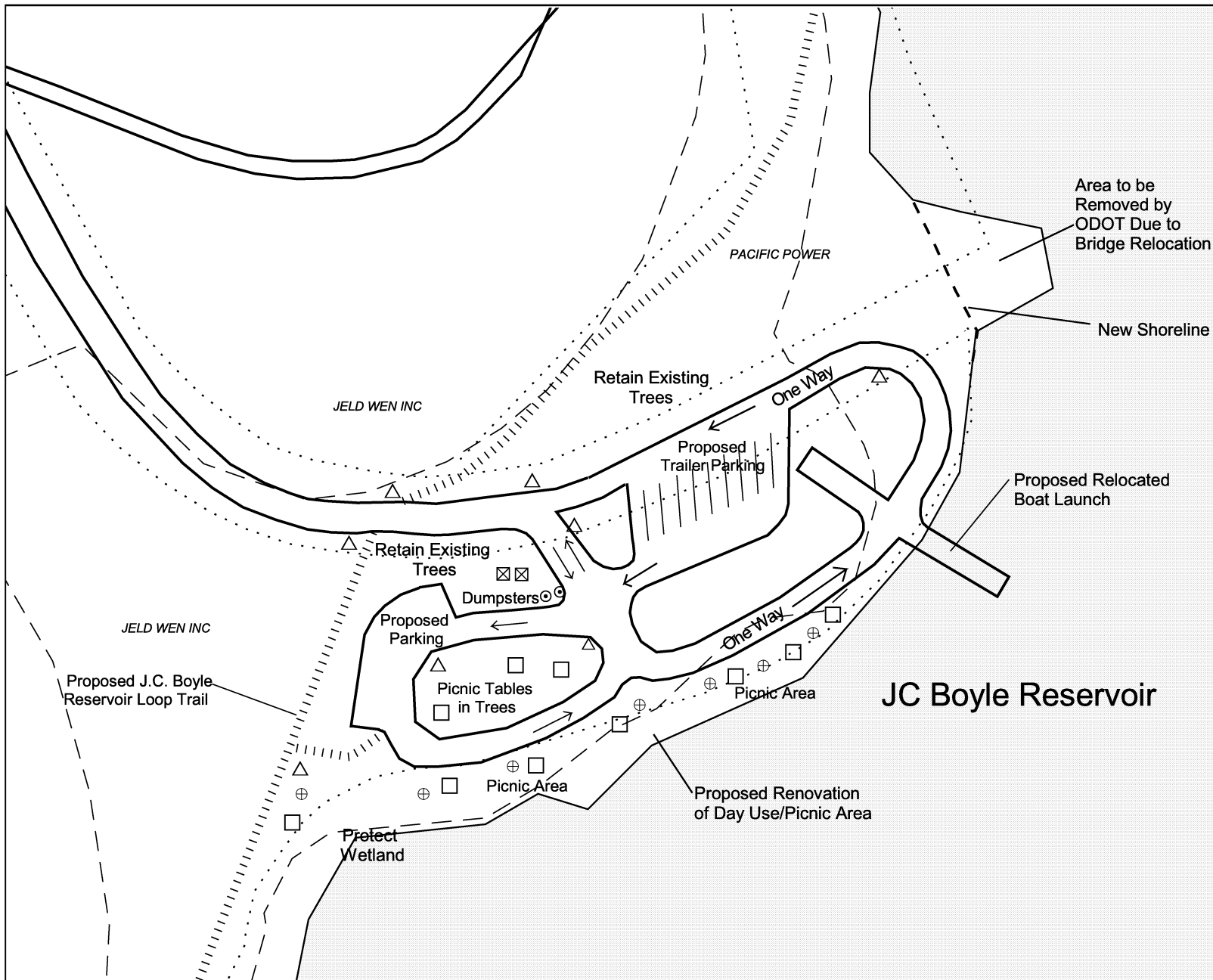
-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to coordinate site redesign with ODOT.
- ODOT to provide temporary boat launch during site construction.
- PacifiCorp to construct new ADA-accessible boat launch.
- ODOT to fund realignment of access road and obliteration of vacated portions of SR 66, including removal of bridge abutment and restoration of shoreline.
















- PacifiCorp to provide improved and expanded day use facilities including picnic and sunbathing areas.
- PacifiCorp to provide new double-vault toilet building.
- PacifiCorp to renovate the parking area, regravell, and provide vehicle barriers.
- Existing trees to be retained where possible.

# JC BOYLE RESERVOIR LOOP TRAIL

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

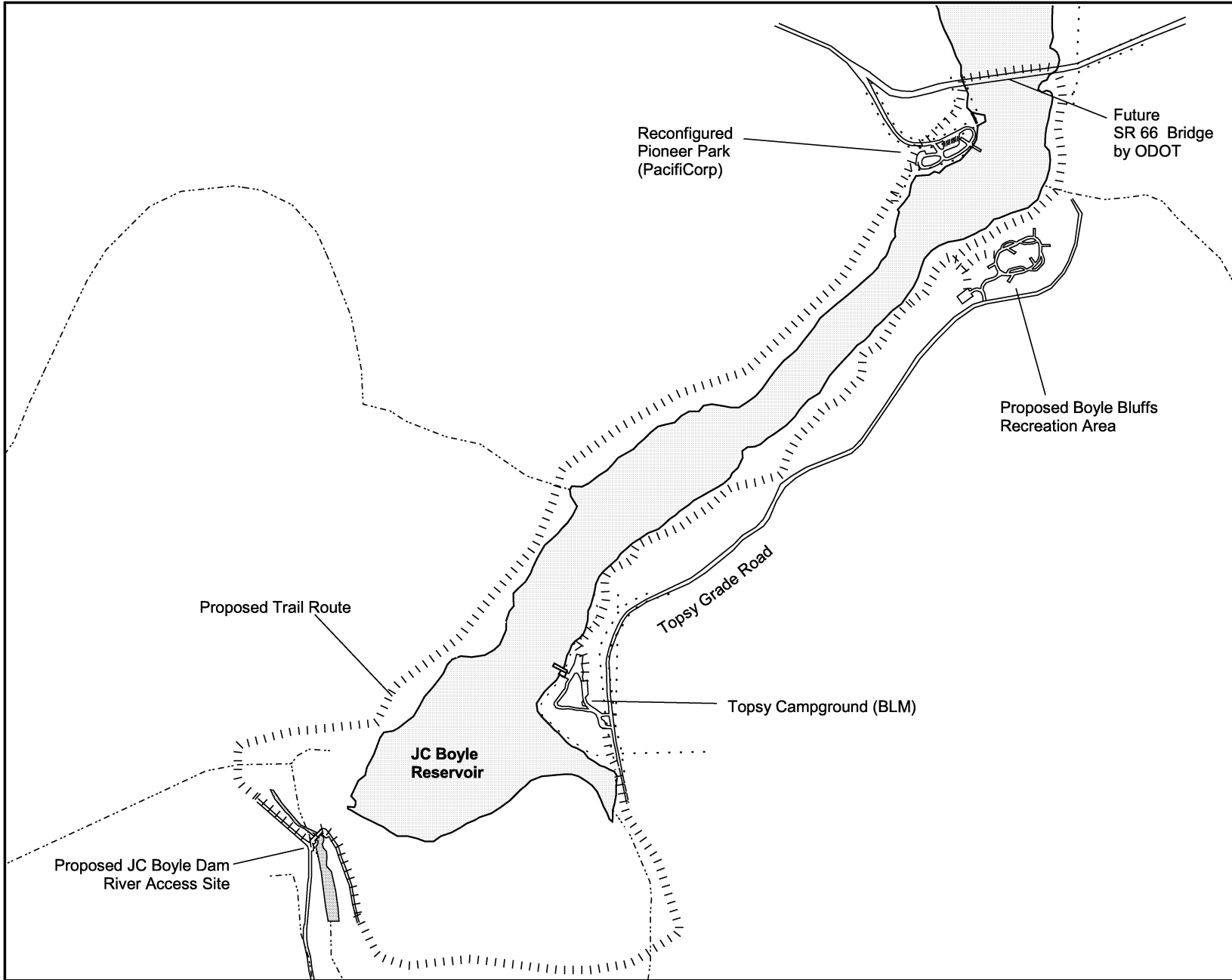


300 0 300 600 Feet

Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001

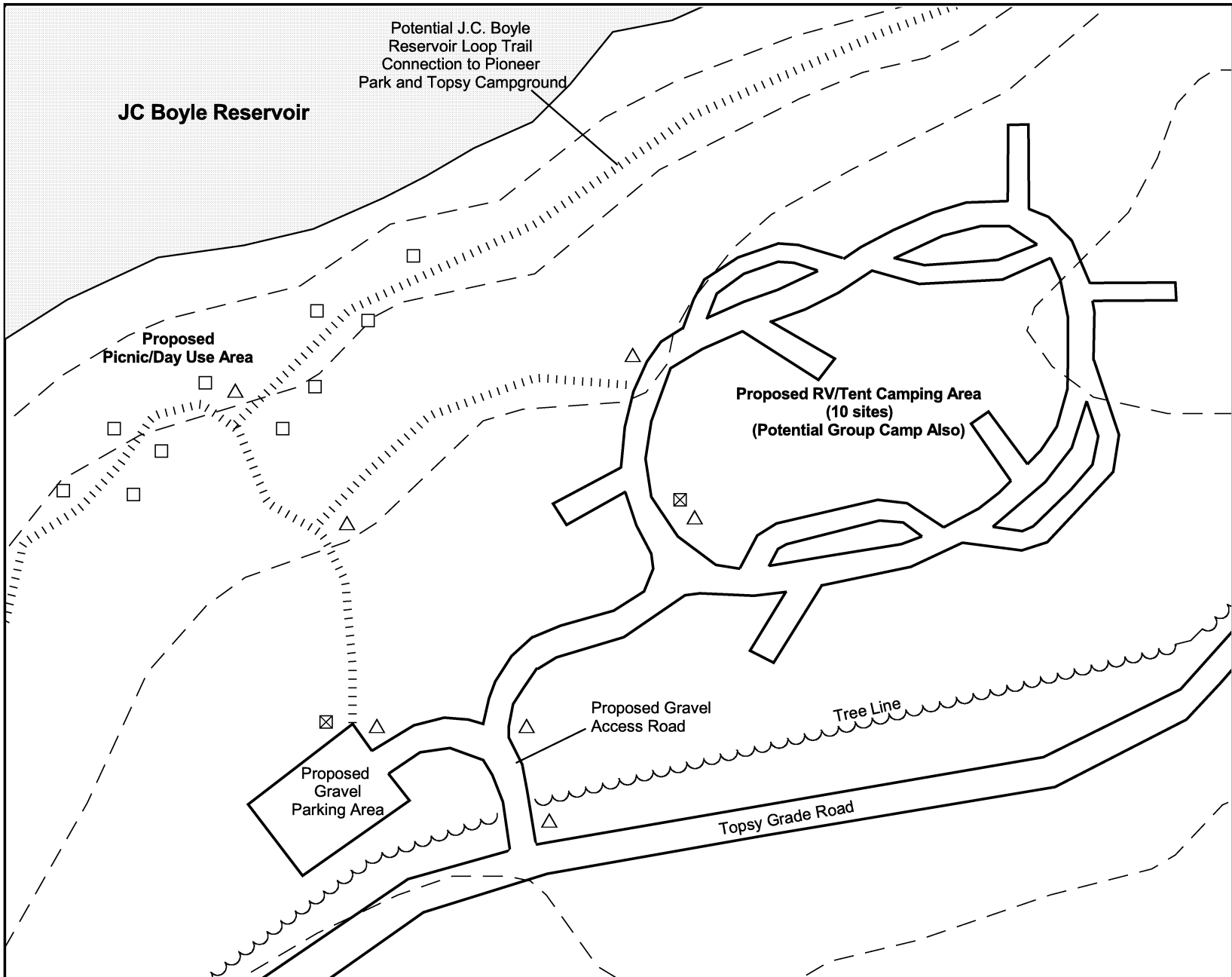


#### Proposed Capital Improvements:

*If land can be acquired:*

- PacifiCorp to rehabilitate disturbed areas in and around this site.
- PacifiCorp to provide a new gravel access road and parking area.
- PacifiCorp to provide new vehicular barriers to limit access to roads only.
- PacifiCorp to provide new day use site at the bluffs area with 10 picnic sites.

- PacifiCorp to provide 10 new RV and tent campsites (when needed) (potential group camp also).
- PacifiCorp to provide a double-vault toilet building.
- PacifiCorp to provide a new hand-pump water well with spigots.
- PacifiCorp to provide potential trail connection to Pioneer Park and Topsy Campground (proposed J.C. Boyle Reservoir Loop Trail).



# BOYLE BLUFFS RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

- Legend**
- Open Water
  - Streams
  - 2' Elevation Contours
  - Ownership Boundaries
  - Roads/Parking
  - Trails
  - Transmission Lines
  - Fence
  - Structures
  - Picnic Tables
  - Toilets
  - Grills
  - Fire Rings/Pits
  - Trash Receptacles
  - Signs



50 0 50 Feet

Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001

**Proposed Capital Improvements:**

*If land can be acquired:*

- PacifiCorp to rehabilitate disturbed areas in and around this site.
- PacifiCorp to provide a new gravel access road and parking area.
- PacifiCorp to provide new vehicular barriers to limit access to roads only.
- PacifiCorp to provide new day use site at the bluffs area with 10 picnic sites.
















- PacifiCorp to provide 10 new RV and tent campsites (when needed) (potential group camp also).
- PacifiCorp to provide a double-vault toilet building.
- PacifiCorp to provide a new hand-pump water well with spigots.
- PacifiCorp to provide potential trail connection to Pioneer Park and Topsy Campground (proposed J.C. Boyle Reservoir Loop Trail).

# TOPSY CAMPGROUND (BLM)

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

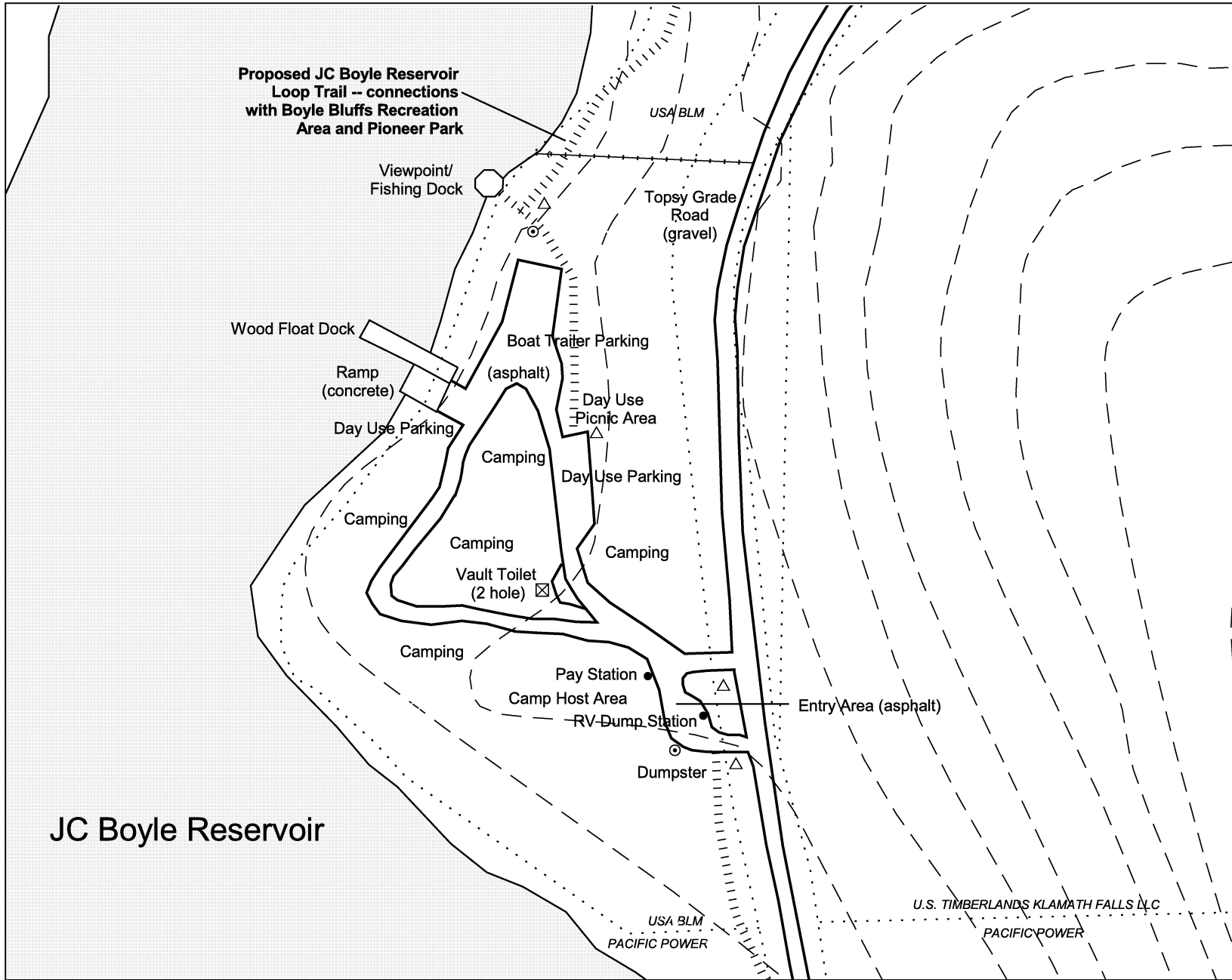


50 0 50 100 Feet

Scale: 1:1800 1" = 150'



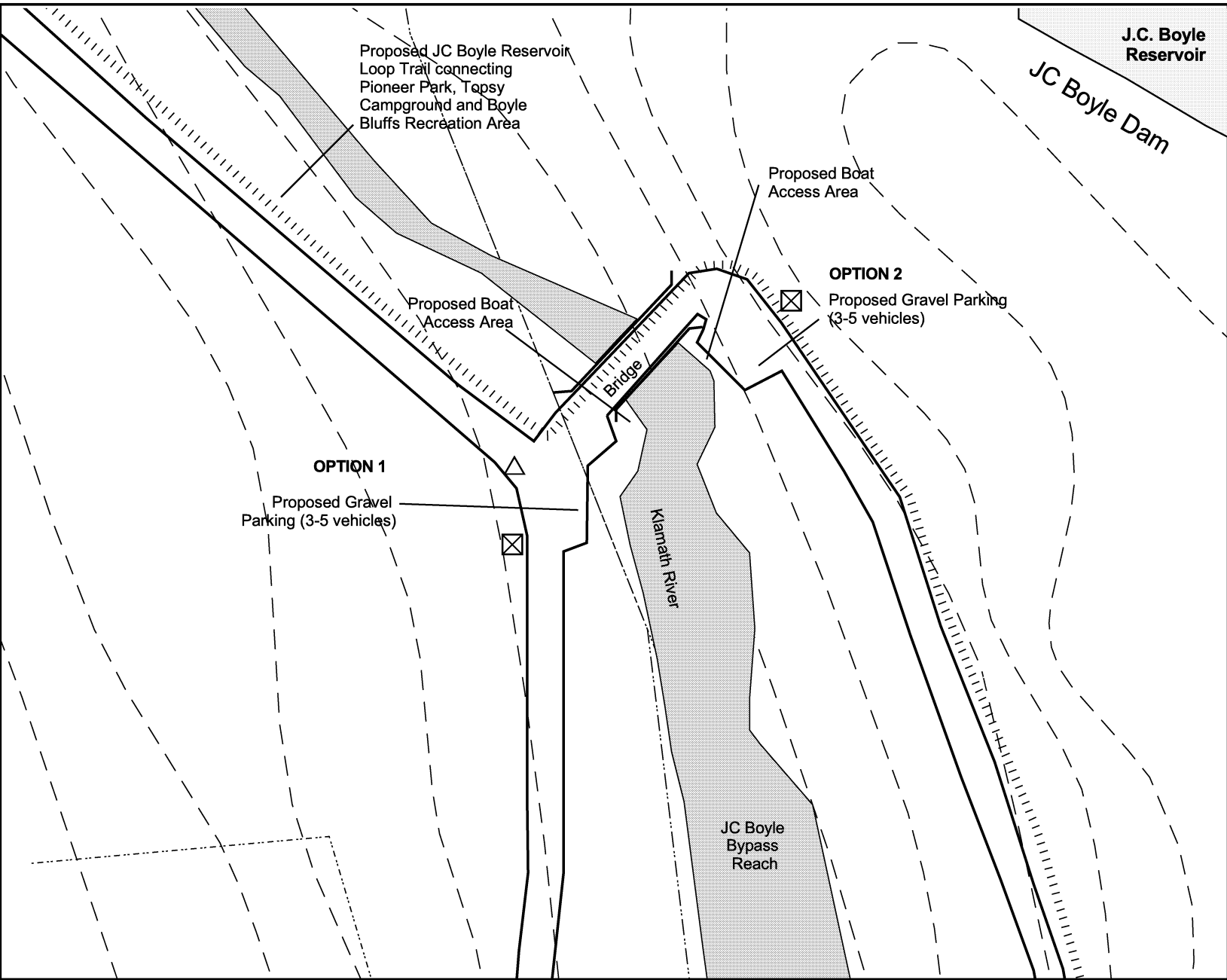
September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- BLM to provide all capital improvements and O&M at this site.
- PacifiCorp to construct JC Boyle Reservoir Loop Trail.

Note: Drawing reflects current development at Topsy Campground.


















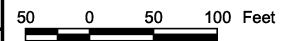
# J.C. BOYLE DAM RIVER ACCESS

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



Scale: 1:1800 1" = 150'



September 2004  
Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:

- Provide new river access site on either river right (Option 1) or river left (Option 2).
- Provide parking, sign and single-vault toilet building.
- Modify shoreline to provide improved access for small watercraft.

# J.C. BOYLE POWERHOUSE RIVER ACCESS

## Klamath Hydroelectric Project

## Proposed Capital Improvements

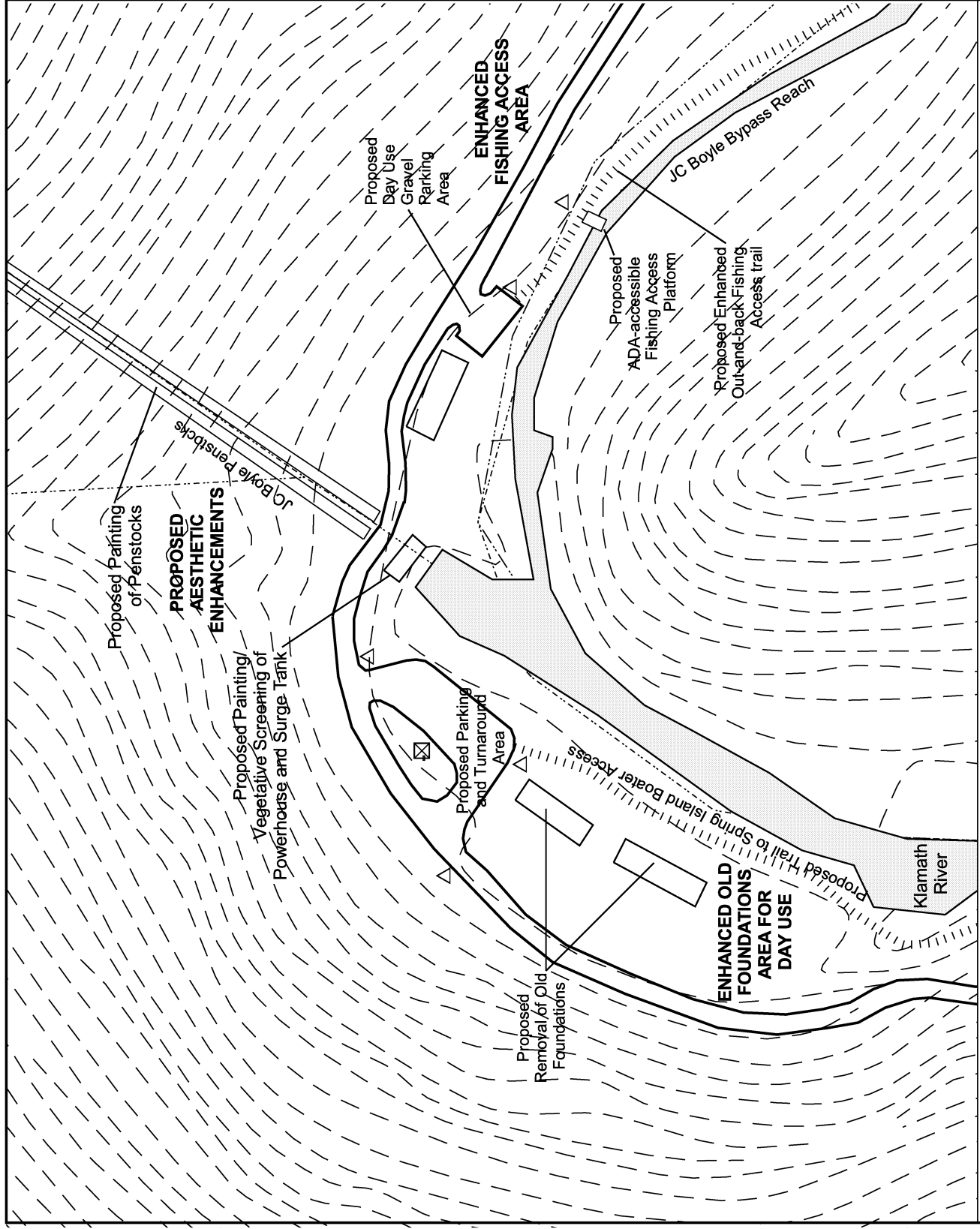
- Legend**
- Open Water
  - Streams
  - 2' Elevation Contours
  - Ownership Boundaries
  - Roads/Parking
  - Trails
  - Transmission Lines
  - Fence
  - Structures
  - Picnic Tables
  - Toilets
  - Grills
  - Fire Rings/Pits
  - Trash Receptacles
  - Signs



Scale: 1:2400 1" = 200'



September 2004  
Source: PacifiCorp GIS Data, September 2001


















- Proposed Capital Improvements:**
- Provide formal, hardened fishing access trails, trailheads, signs, pullout, and ADA-accessible fishing access platform.
  - Provide gravel parking and bus turnaround area.
  - Provide a new double-vault toilet.
  - Provide vegetative screening at Powerhouse.
- Remove existing building foundations.**
- Provide trail connection to Spring Island Boater Access.
  - Provide re-painting of the penstock and surge tank.
  - Proposed parking/turnaround area to preserve sufficient area for PacifiCorp operations.

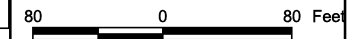
# SPRING ISLAND BOATER ACCESS (BLM)

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

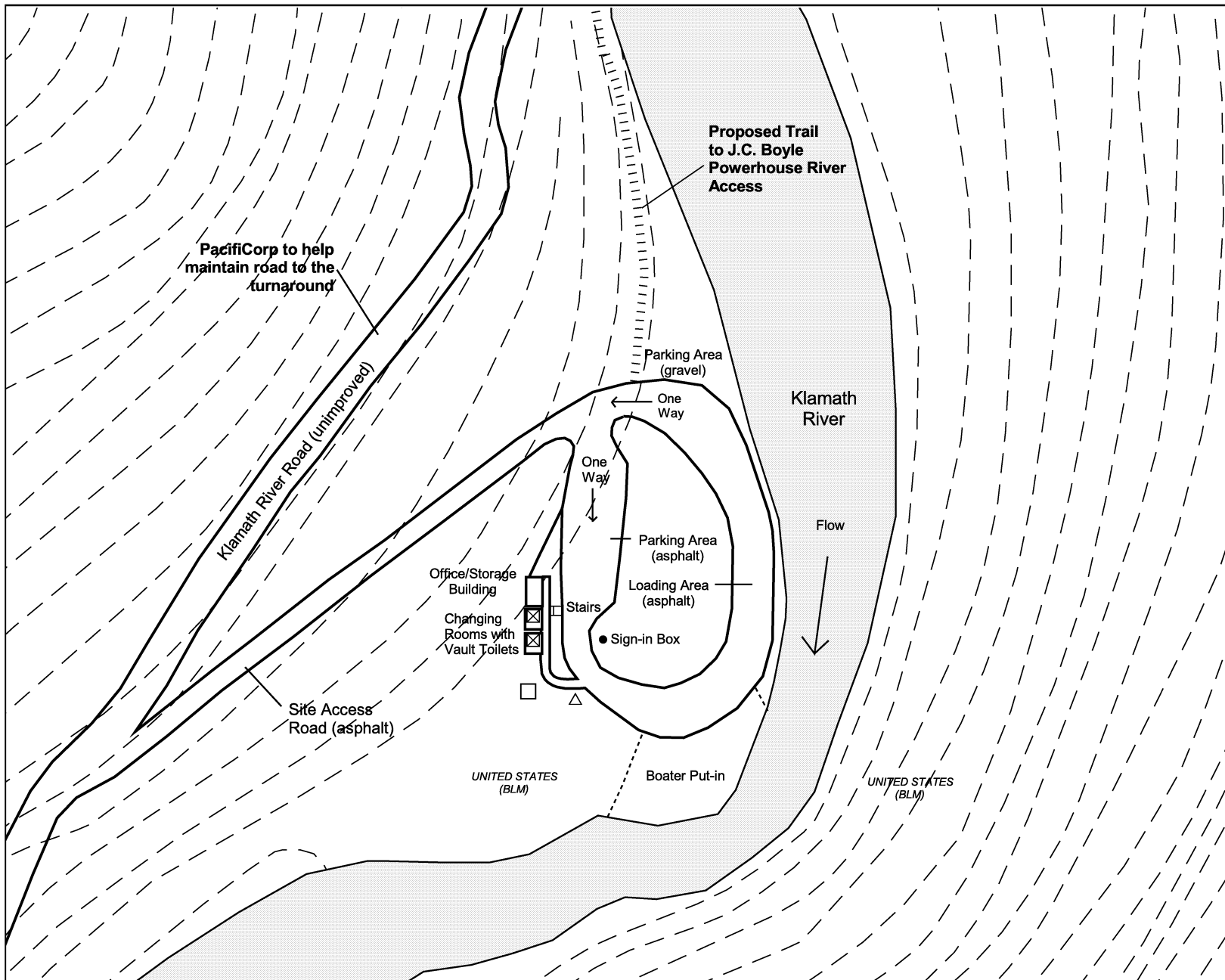
-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:
















- BLM to provide all needed capital improvements and O&M.
- PacifiCorp to help maintain Klamath River Road to the turnaround point.

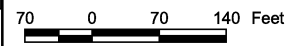
# STATELINE TAKE-OUT (PACIFICORP & BLM)

## Klamath Hydroelectric Project

### Proposed Site Enhancements

#### Legend

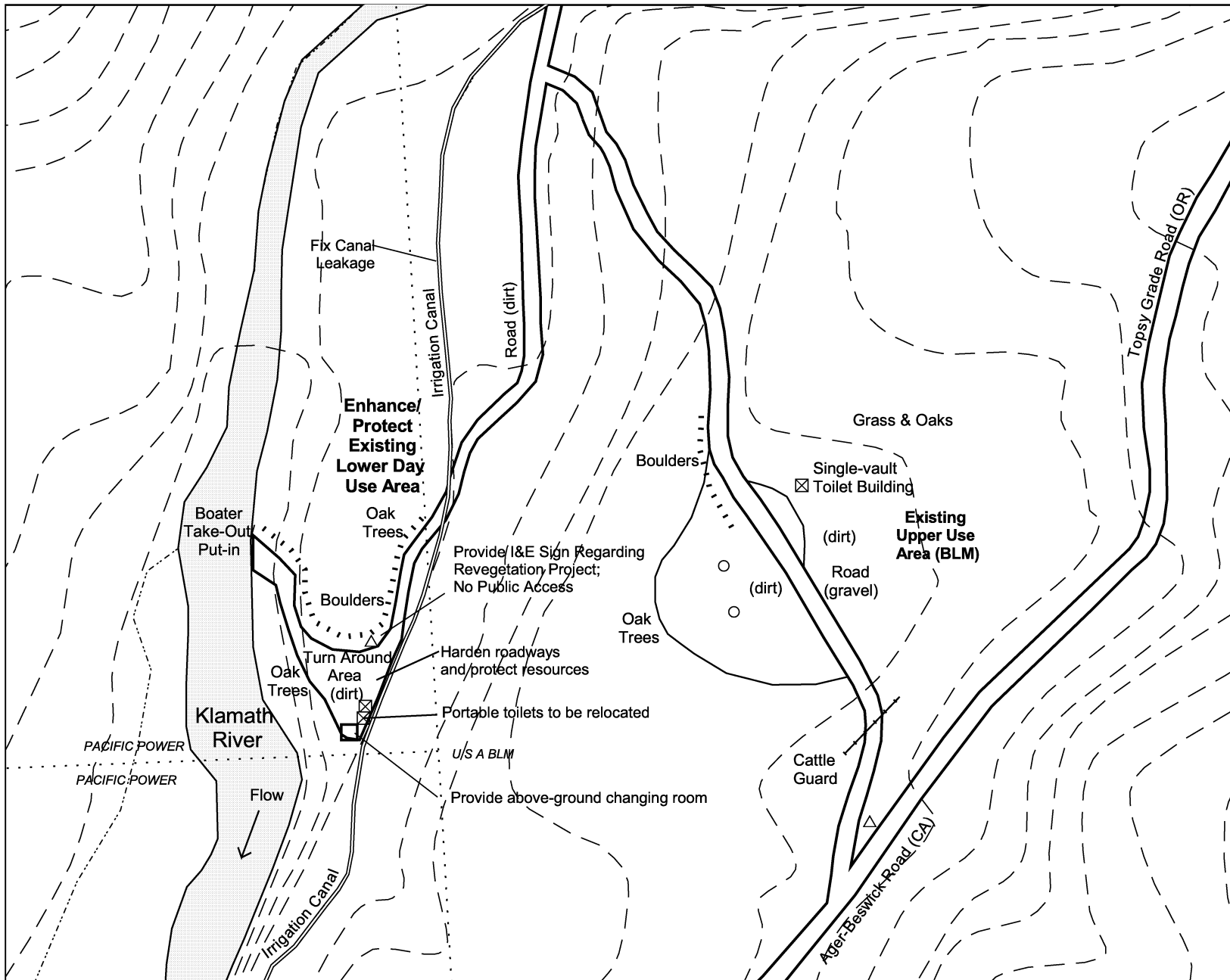
-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



Scale: 1:1800 1" = 150'



September 2004  
Source: PacifiCorp GIS Data, September 2001

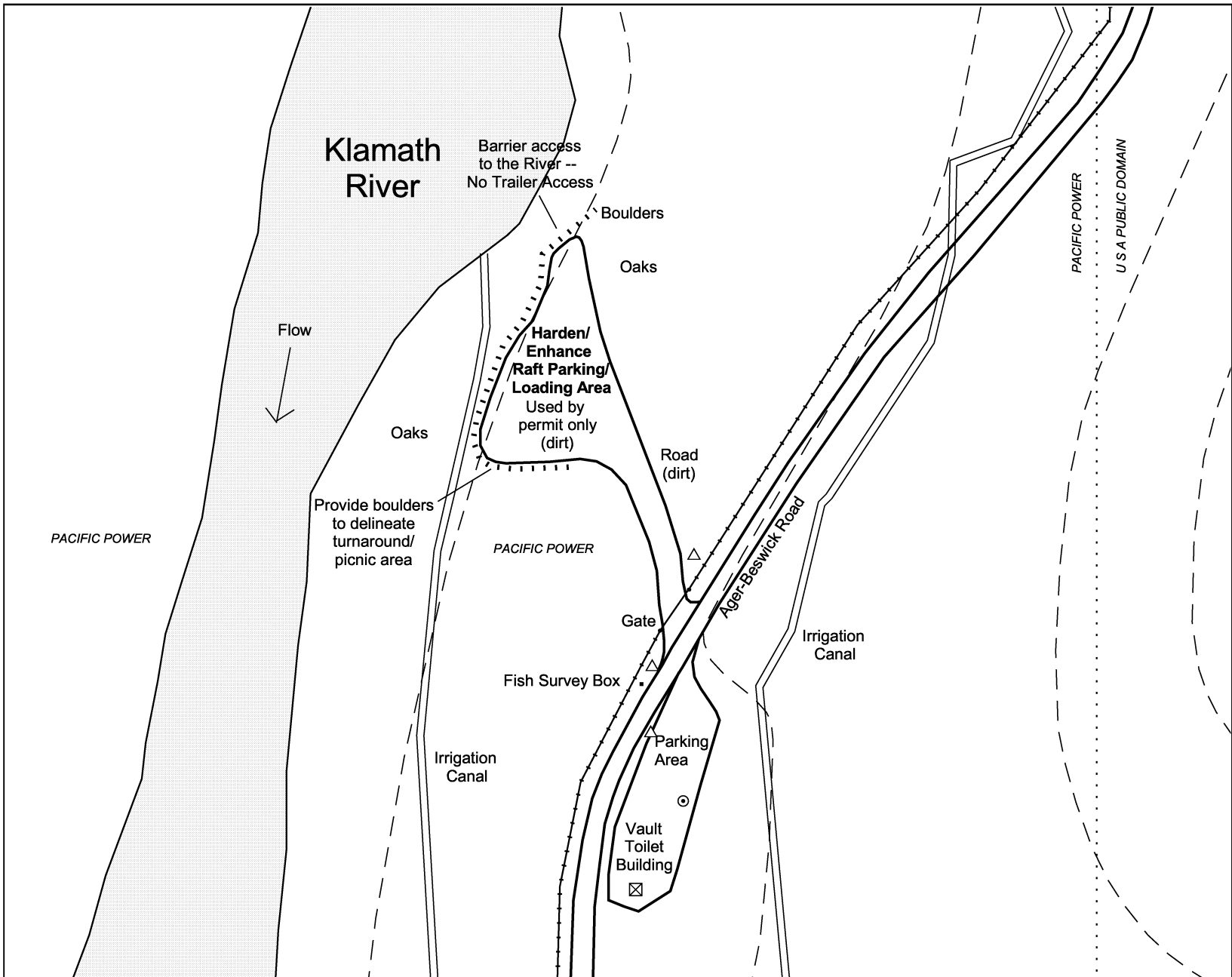


#### Proposed Capital Improvements:

- PacifiCorp and/or BLM to retain the boater take-out at the lower use area, but provide fiber mat and 2+ inches of gravel to protect resources (do not enlarge area of impact); provide natural vehicular barriers to protect sensitive natural and/or cultural resources.
- PacifiCorp and/or BLM to relocate portable toilets and provide an above-ground changing room.

- PacifiCorp to correct the irrigation ditch seepage problem.
- PacifiCorp to provide I&E sign regarding revegetation project and restricted public access at site.





# FISHING ACCESS SITE 6

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

- Open Water
- Streams
- 2' Elevation Contours
- Ownership Boundaries
- Roads/Parking
- Trails
- Transmission Lines
- Fence
- Structures
  - Picnic Tables
  - Toilets
  - Grills
  - Fire Rings/Pits
  - Trash Receptacles
  - Signs



50 0 50 Feet

Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:

-- PacifiCorp to retain permit-only boater take-out.  
 -- PacifiCorp to provide 2+ inches of gravel and fiber mat to harden the site (not enlarge) and provide vehicular barriers to protect sensitive natural and/or cultural resources.
















-- PacifiCorp to barricade trailer access to river.  
 -- PacifiCorp to repair and replace site facilities over time, including single-vault toilet building.

# FISHING ACCESS SITE 5

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

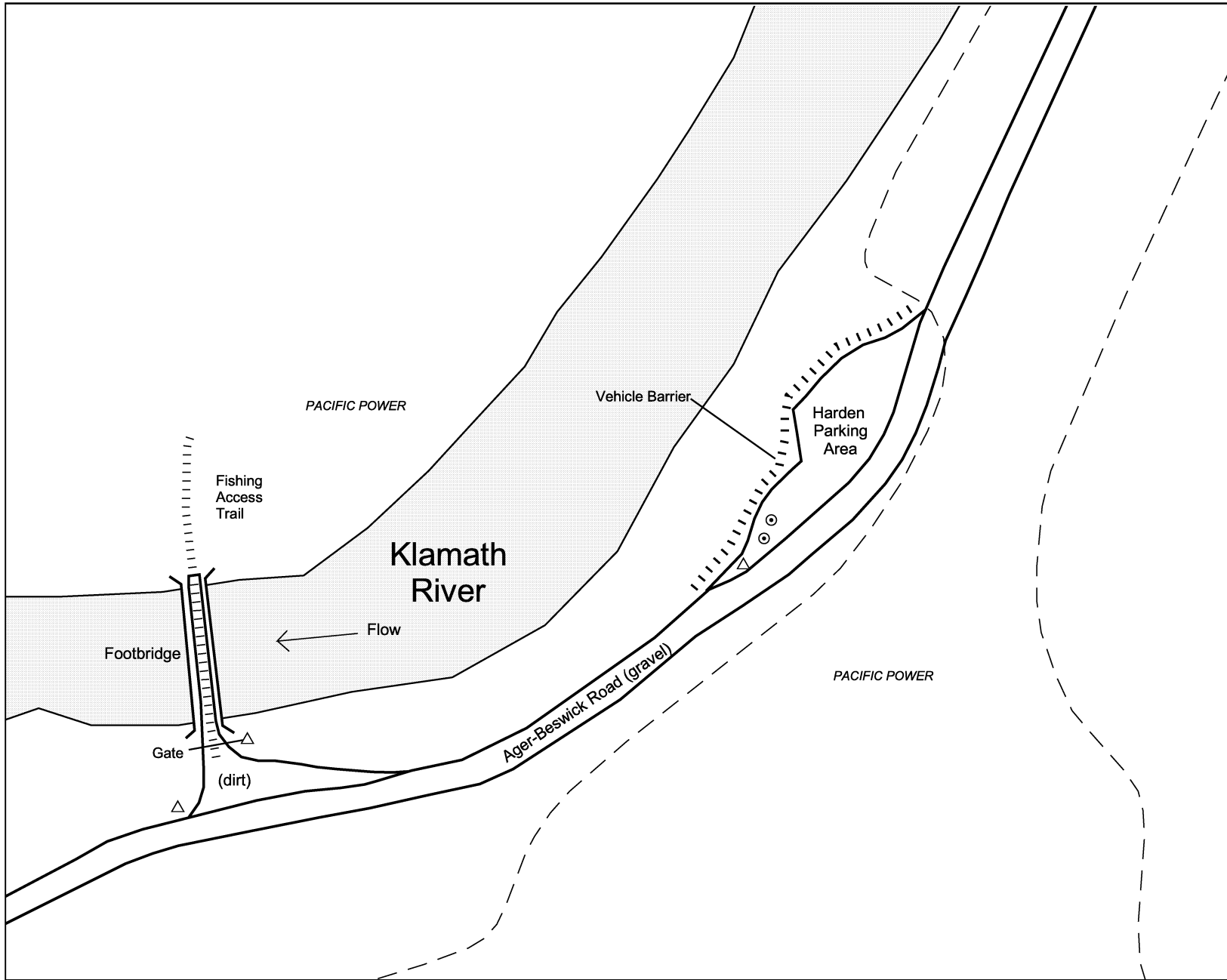


50 0 50 Feet

Scale: 1:1200 1" = 100'

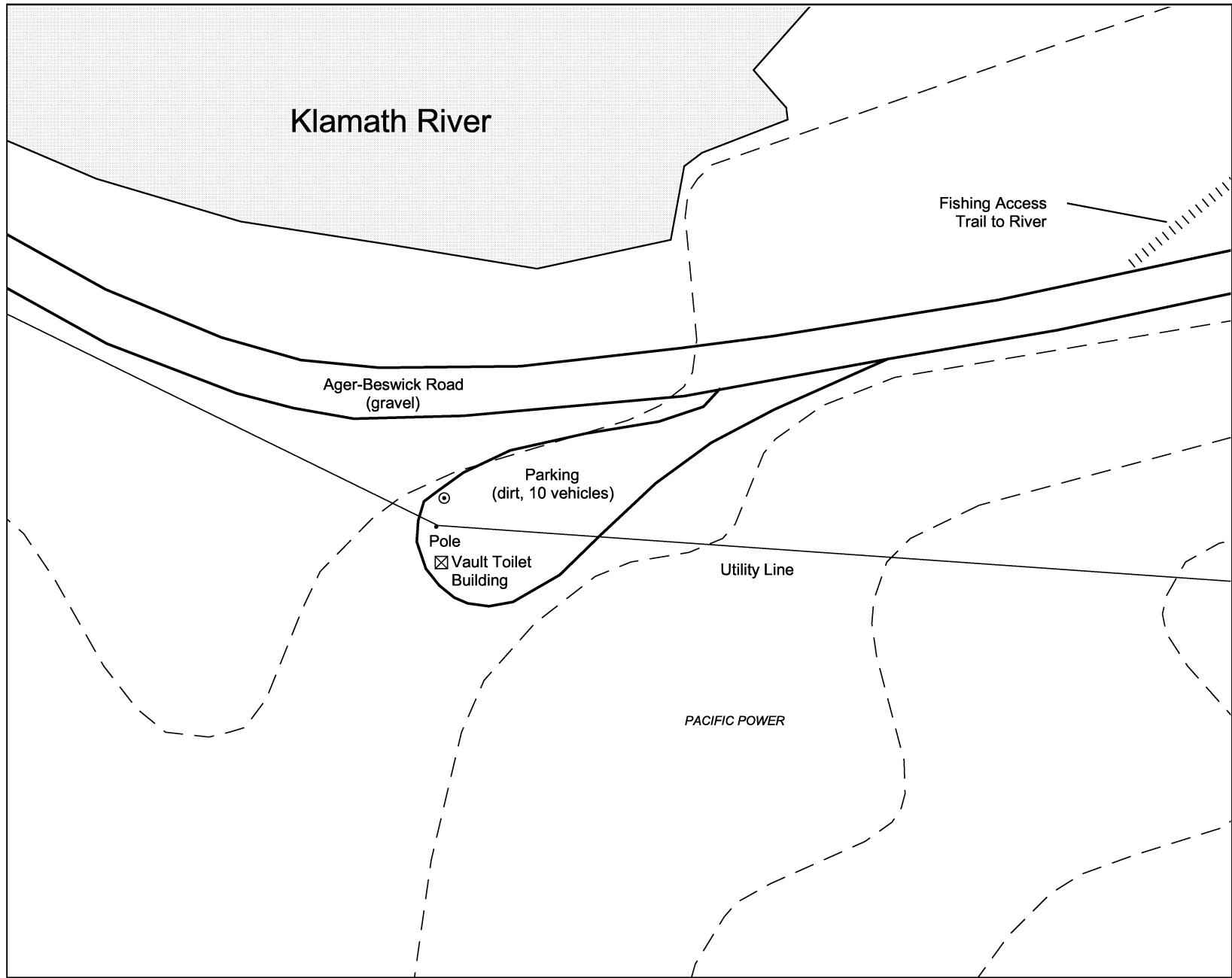


September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to provide formalized hardened fishing access trails.
- PacifiCorp to provide fiber mat and 2+ inches of gravel to cap parking area.
- PacifiCorp to provide vehicle barriers to protect natural and/or cultural resources.
- PacifiCorp to repair site facilities over time, including single-vault toilet building.



# FISHING ACCESS SITE 4

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

- Open Water
- Streams
- 2' Elevation Contours
- Ownership Boundaries
- Roads/Parking
- Trails
- Transmission Lines
- Fence
- Structures
- Picnic Tables
- Toilets
- Grills
- Fire Rings/Pits
- Trash Receptacles
- Signs



Scale: 1:600 1" = 50'



September 2004  
Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:
















- PacifiCorp to provide formalized hardened fishing access trails.
- PacifiCorp to repair and replace site facilities over time, including single vault-toilet building.
- PacifiCorp to provide vehicle barriers to protect natural and/or cultural resources.

# FISHING ACCESS SITE 3

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

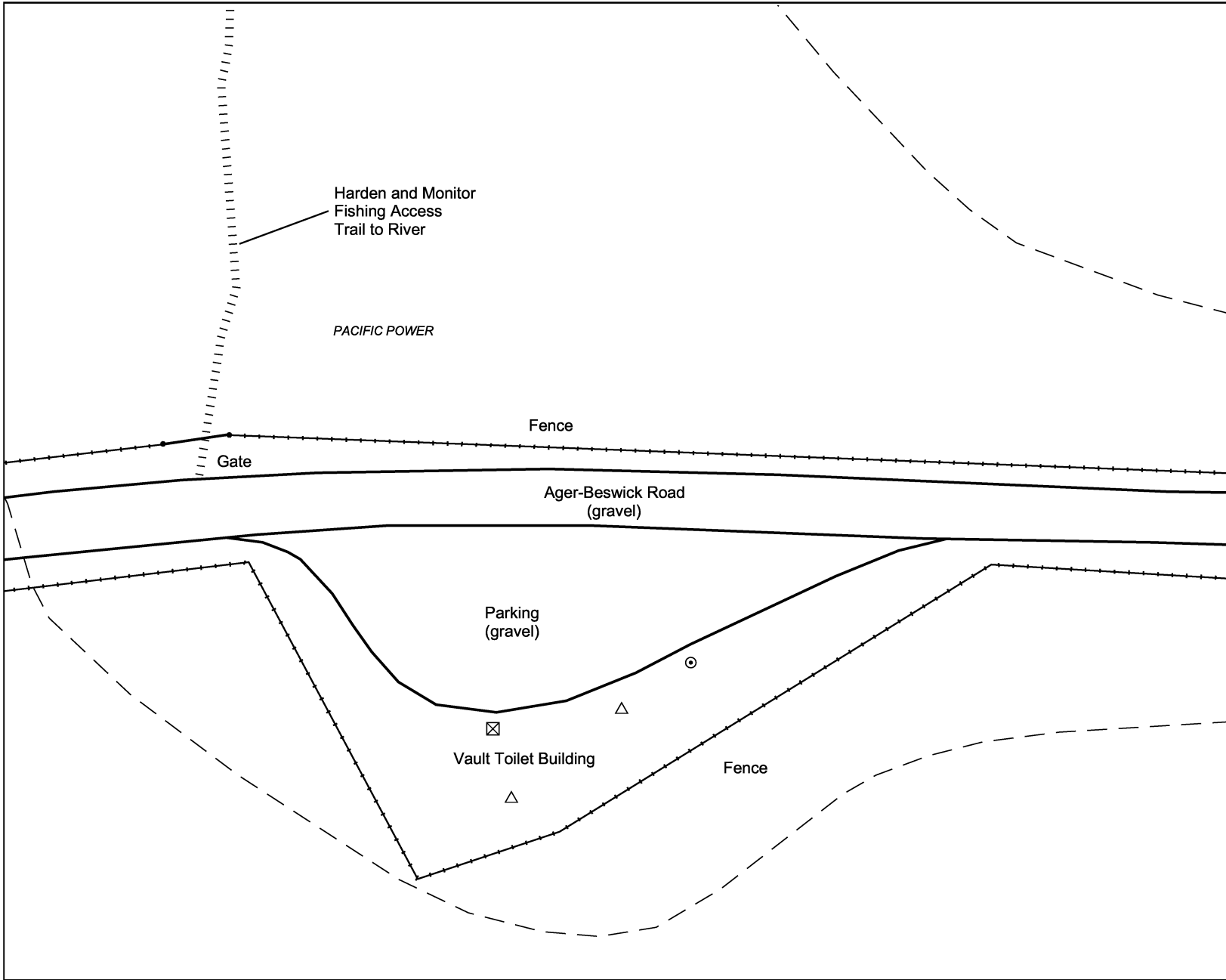
-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



Scale: 1:600 1" = 50'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:
















- PacifiCorp to repair and replace site facilities over time, including single vault-toilet building.
- PacifiCorp to provide vehicle barriers to protect natural and/or cultural resources.
- PacifiCorp to harden and monitor fishing access trail to river.

# FISHING ACCESS SITE 2

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

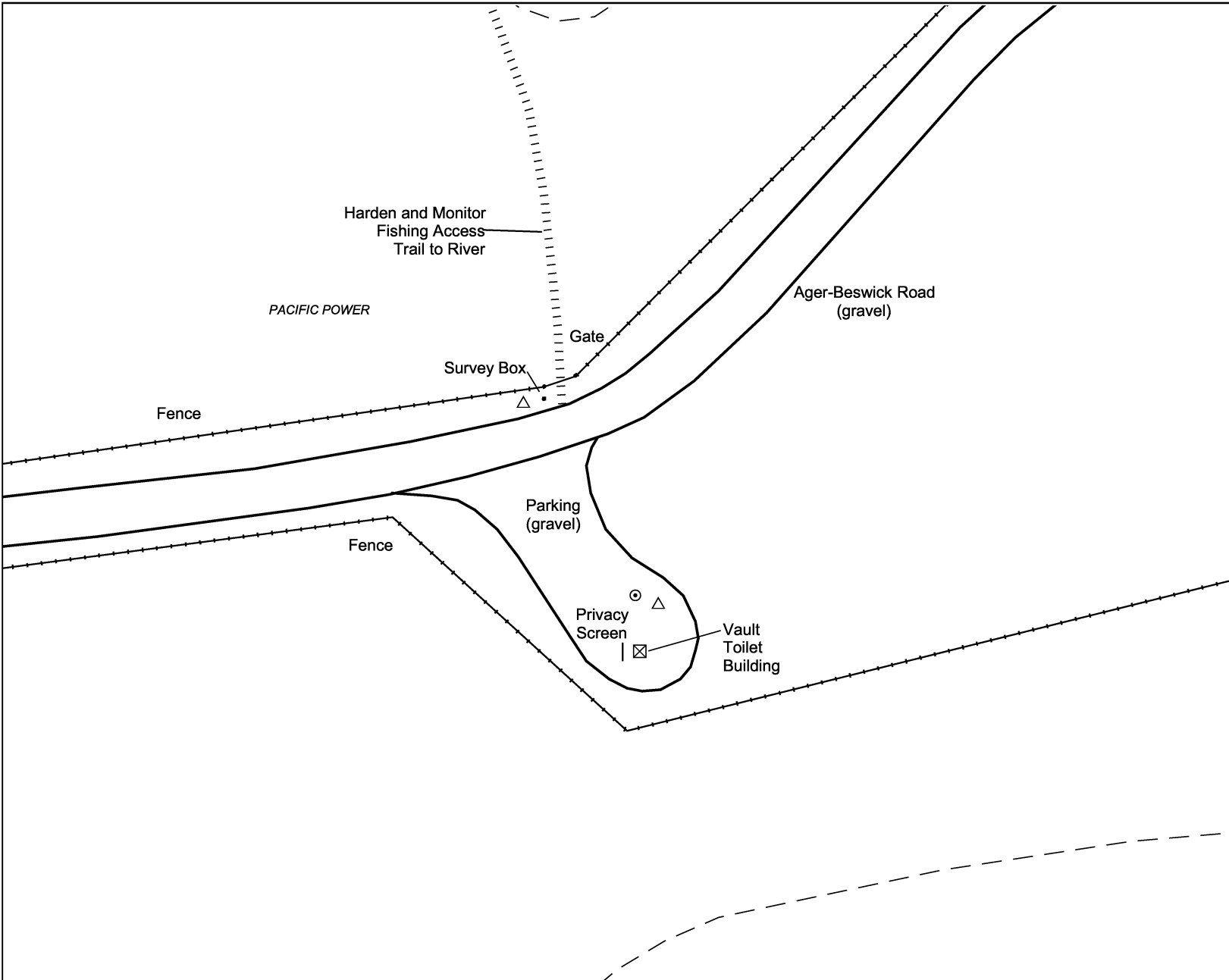
-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



Scale: 1:600 1" = 50'

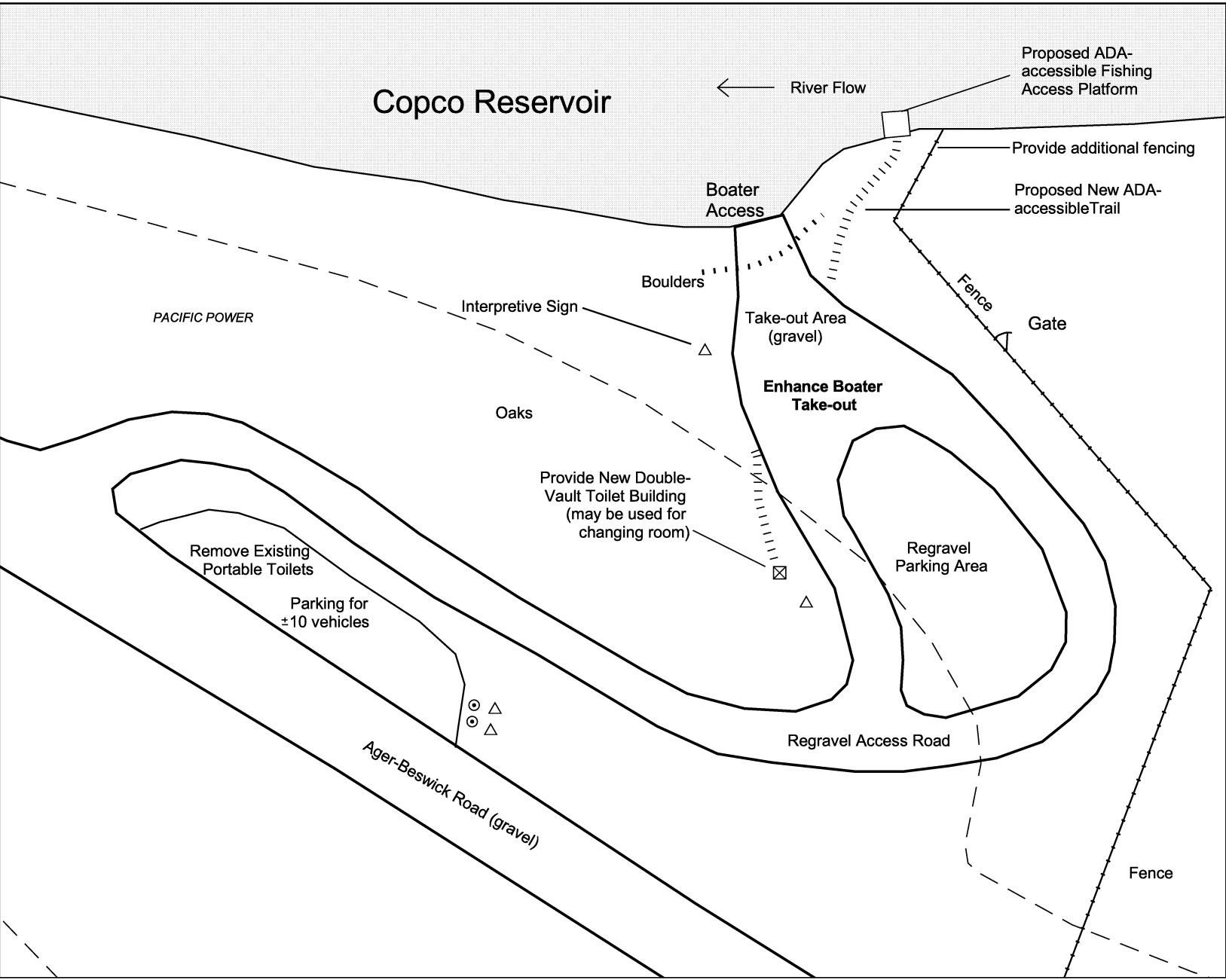


September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to provide formalized hardened fishing access trail.
- PacifiCorp to repair and replace site facilities over time, including single-vault toilet building.
- PacifiCorp to monitor impacts as needed.
- PacifiCorp to provide vehicle barriers to protect natural and/or cultural resources.



# FISHING ACCESS SITE 1

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

- Open Water
- Streams
- 2' Elevation Contours
- Ownership Boundaries
- Roads/Parking
- Trails
- Transmission Lines
- Fence
- Structures
  - Picnic Tables
  - Toilets
  - Grills
  - Fire Rings/Pits
  - Trash Receptacles
  - Signs



30 0 30 Feet

Scale: 1:600 1" = 50'

#### Proposed Capital Improvements:

- PacifiCorp to enhance the boater take-out with a regaveled access road and parking area, interpretive sign, and new ADA-accessible double-vault toilet building, including accessible trail (may be used for changing rooms also).
- PacifiCorp to construct an ADA-accessible fishing access platform and trail with added fencing.

- PacifiCorp to provide vehicular barriers or other measures to protect sensitive natural and/or cultural resources.
- PacifiCorp to repair and replace site facilities over time.
- PacifiCorp to conduct cultural resource investigation prior to construction.

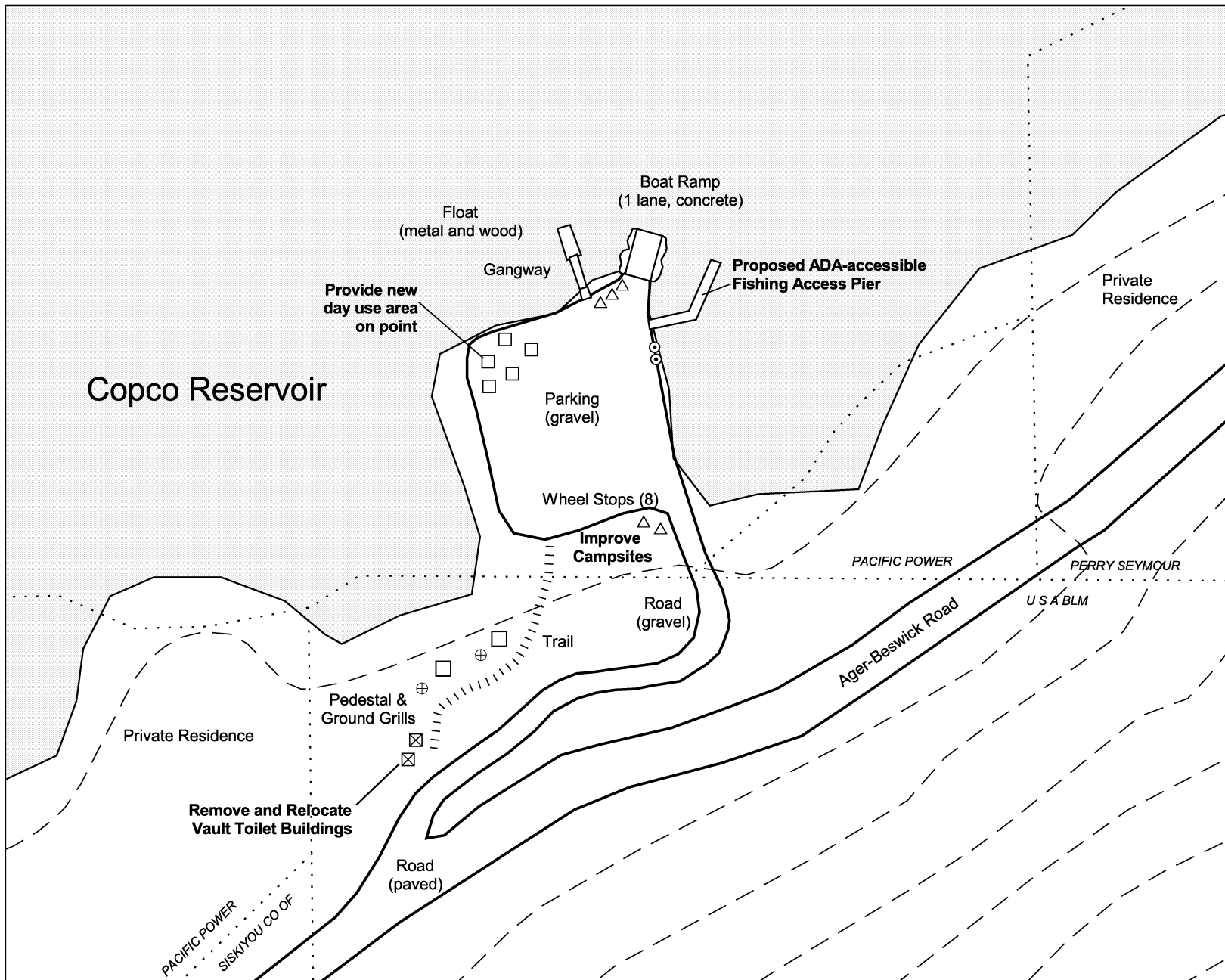


September 2004  
Source: PacifiCorp GIS Data, September 2001

# MALLARD COVE RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements



#### Legend

- Open Water
- Streams
- 2' Elevation Contours
- Ownership Boundaries
- Roads/Parking
- Trails
- Transmission Lines
- Fence
- Structures
  - Picnic Tables
  - Toilets
  - Grills
  - Fire Rings/Pits
  - Trash Receptacles
  - Signs



50 0 50 Feet

Scale: 1:1200 1" = 100'

**EDAW**

September 2004  
Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:

- PacifiCorp to improve 10 RV and tent campsites; replace older site amenities.
- PacifiCorp to provide 2 new double-vault toilet buildings. Remove the existing toilet building.
- PacifiCorp to provide new separate day use area at the point (north of existing parking area) with 5 picnic sites, shade trees and/or shelters.
















- PacifiCorp to construct an ADA-accessible fishing pier adjacent to the boat launch.

# COPCO COVE RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

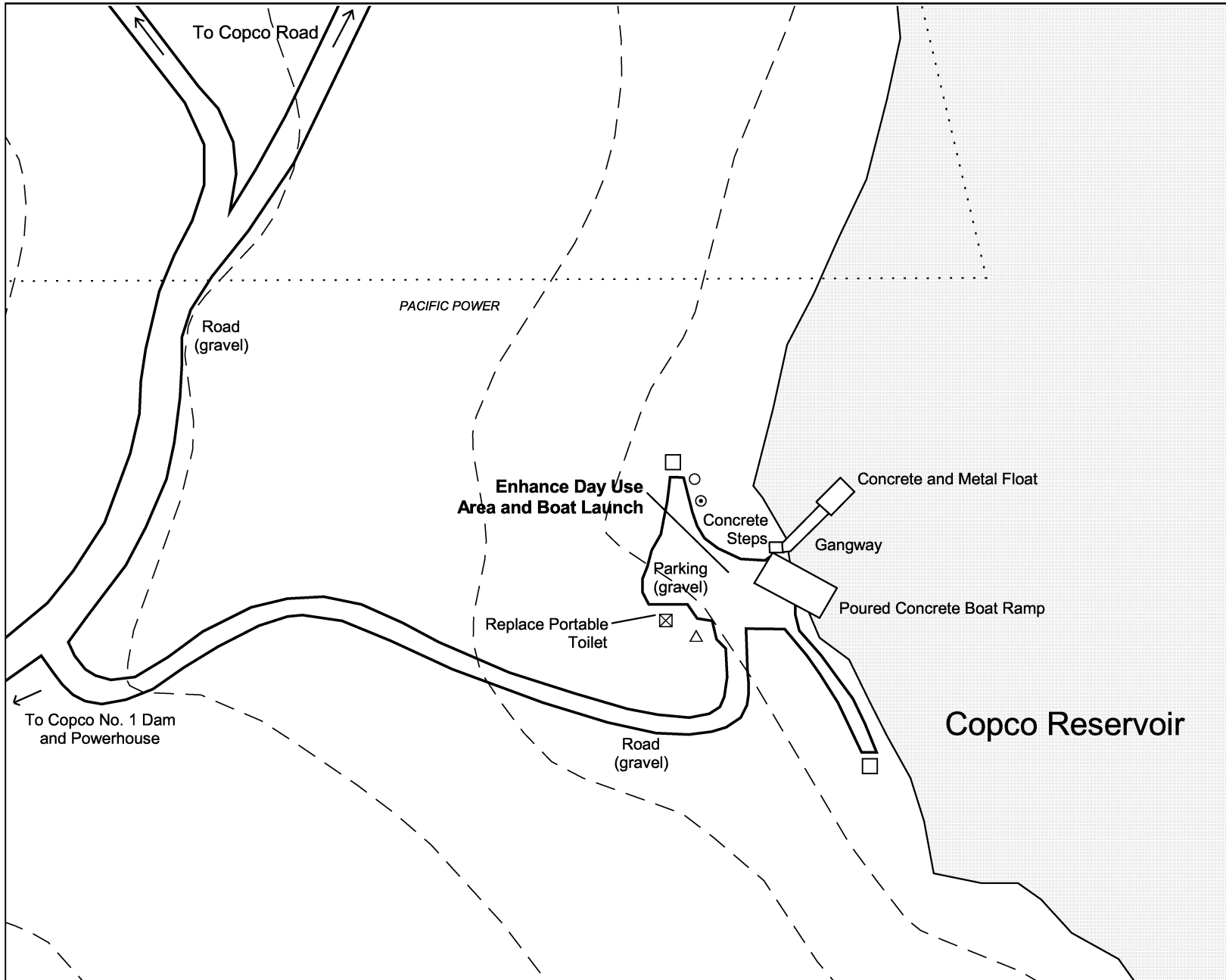


50 0 50 Feet

Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to redesign boat ramp access and parking area, regrade.
- PacifiCorp to repair and replace 3 picnic sites, regrade.
- PacifiCorp to provide an ADA-accessible single-vault toilet building.


















# FALL CREEK TRAIL

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

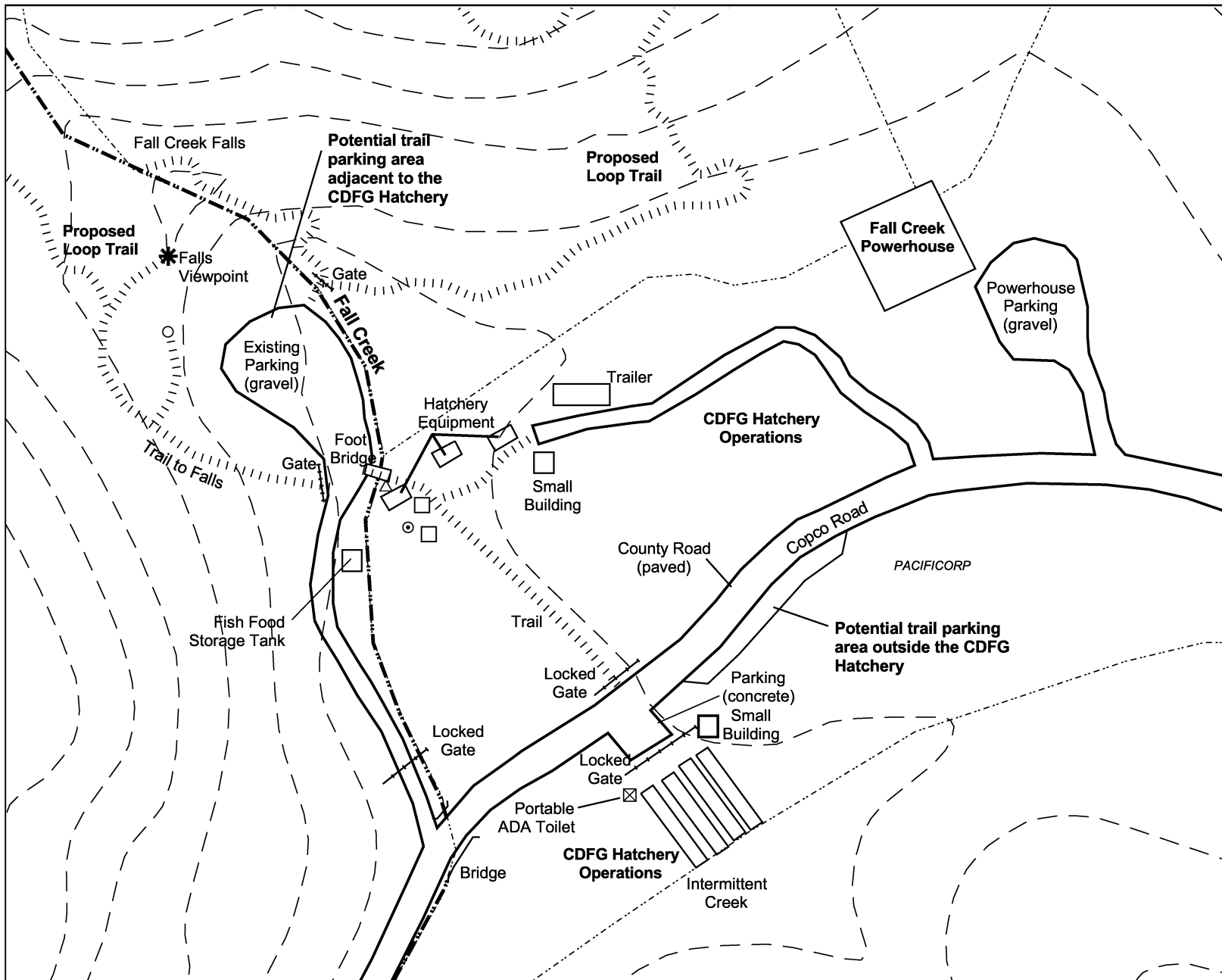


50 0 50 100 Feet

Scale: 1:1800 1" = 150'

**EDAW**

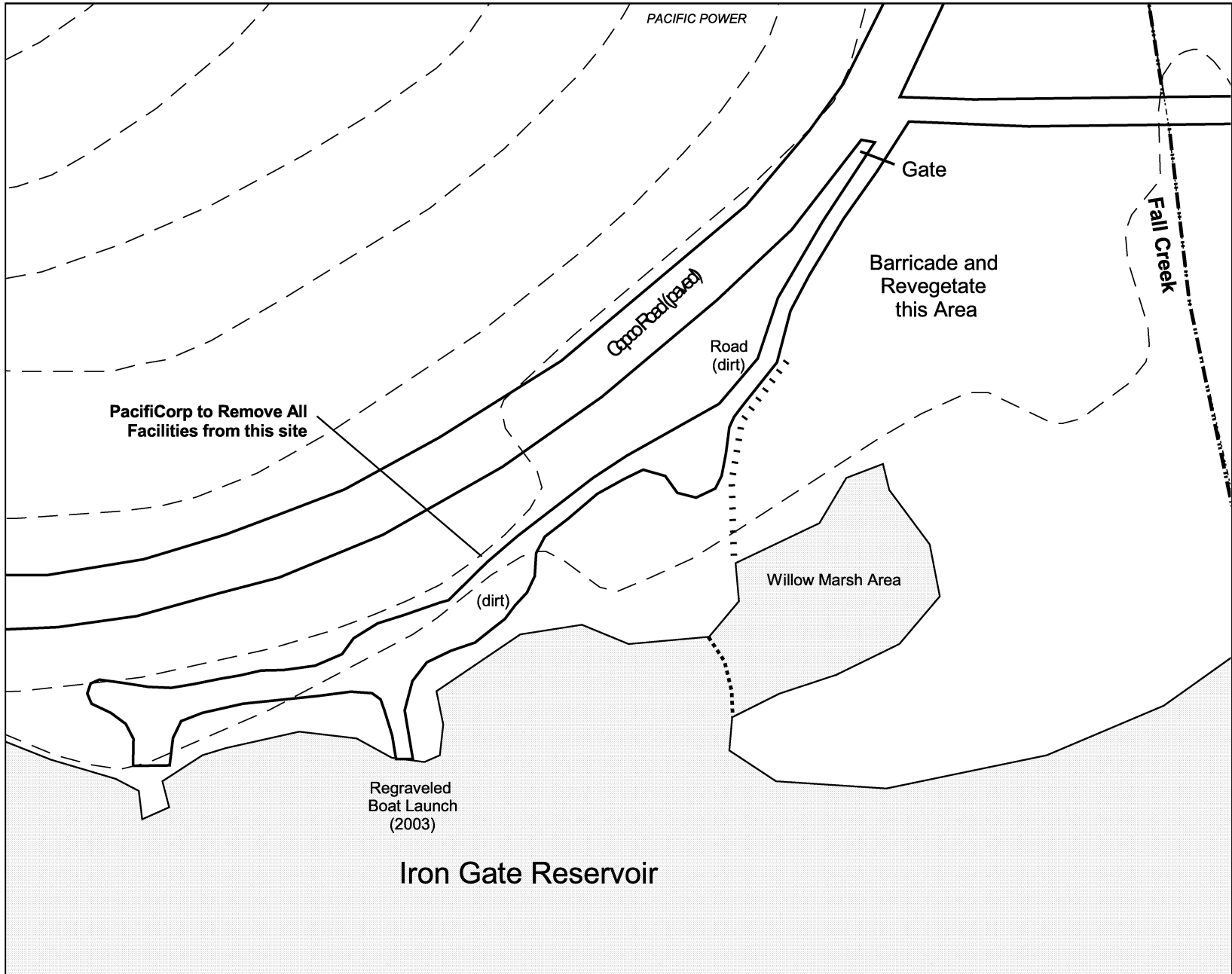
September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp and/or CDFG to harden the trail and its extension (proposed loop trail).
- PacifiCorp and/or CDFG to provide a new graveled trailhead and sign along Copco Road outside gate and hatchery area or near existing parking lot (including 4 parking spaces).

- PacifiCorp and/or CDFG to provide increased, secure separation between the two uses, such as fencing.
- PacifiCorp to provide a detailed trail siting for loop trail.
- PacifiCorp to conduct cultural resource investigation prior to trail siting to avoid potential impacts.


















# FALL CREEK

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs



50 0 50 Feet

Scale: 1:1200 1" = 100'



September 2004

Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:
















- PacifiCorp to remove existing toilets and picnic facilities.
- PacifiCorp to barricade and revegetate portions of site.
- PacifiCorp to gate access to the facility.

# JENNY CREEK RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

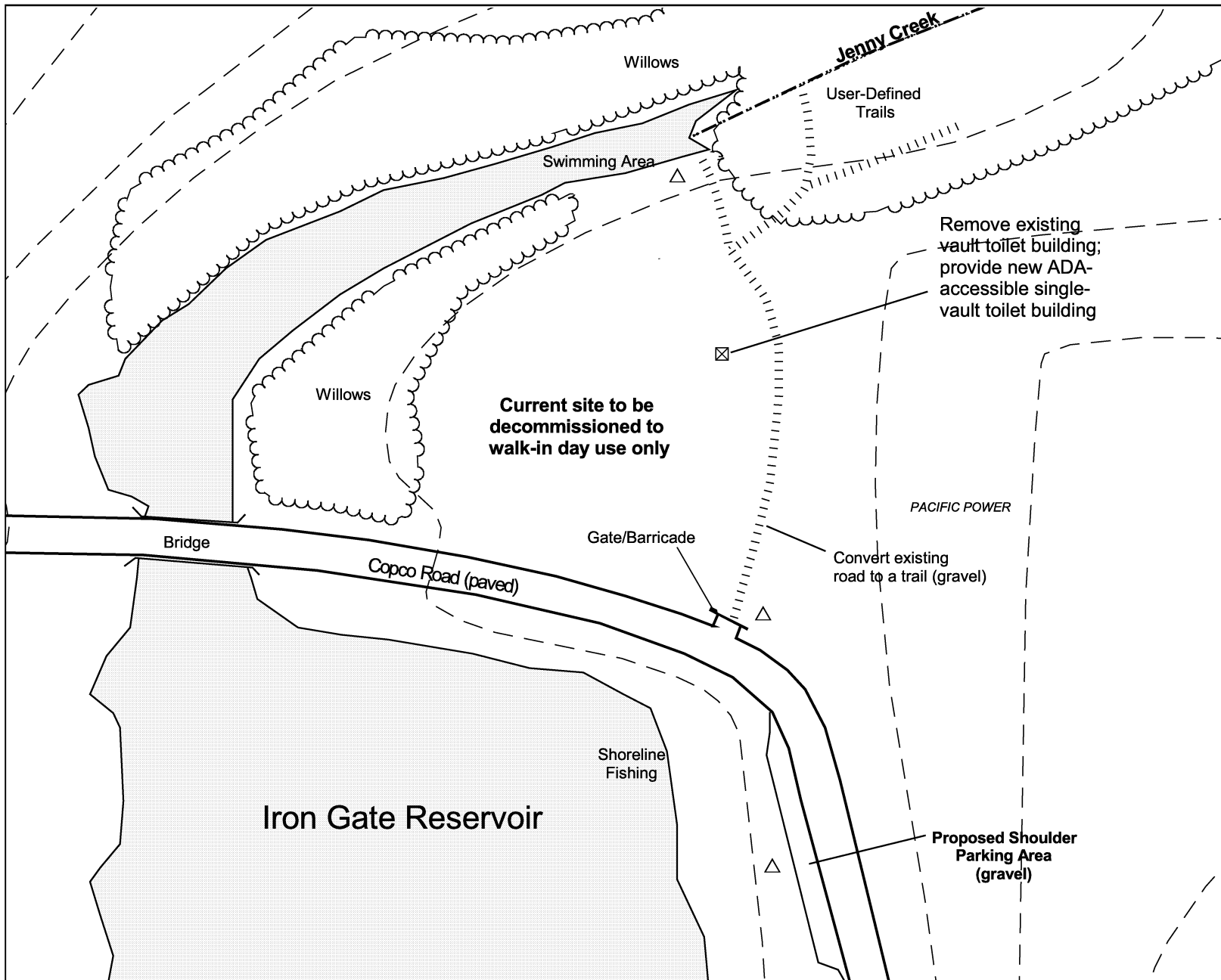


50 0 50 Feet

Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to close and decommission the existing site; revegetate the site.
- PacifiCorp to provide roadside gravel parking across Copco Road from existing site (popular shoreline fishing site).
- PacifiCorp to provide a pedestrian trail across road from roadside parking area to the existing vault toilet building and Jenny Creek.
















- PacifiCorp to harden the creek-side swimming area.
- PacifiCorp to barricade (limit access to) and rehabilitate other creek-side areas to protect sensitive resources.
- PacifiCorp to remove the old vault toilet building and provide a new ADA-accessible single-vault toilet building.

# WANAKA SPRINGS RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

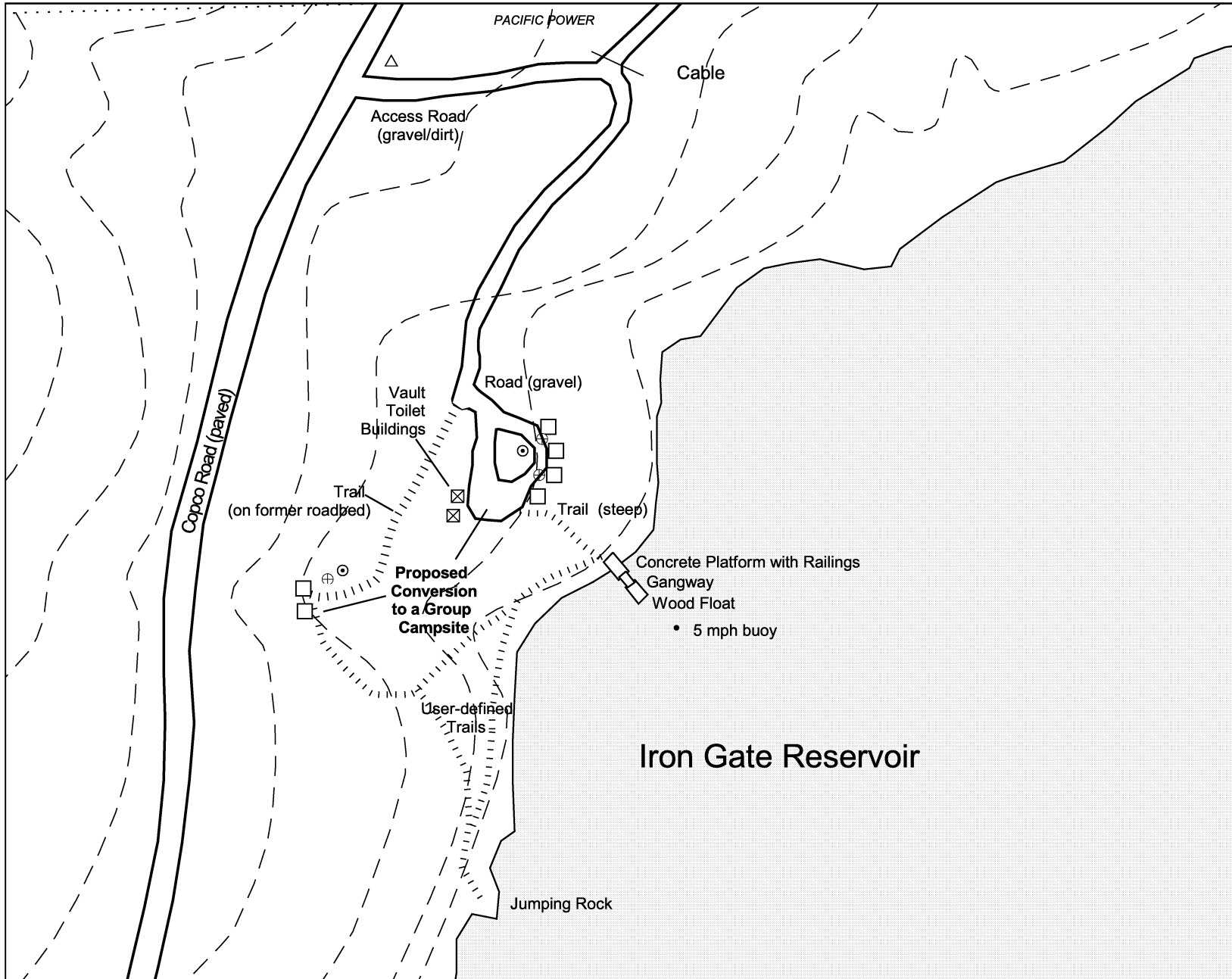


50 0 50 100 Feet

Scale: 1:1800 1" = 150'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to repair and replace existing site facilities and redesign the site as a group reservation campsite (10 to 12 RV/tent campsites) with shade trees and/or shelters.
- PacifiCorp to replace 2 existing vault toilet buildings with a new ADA-accessible double-vault toilet building.
















- PacifiCorp to regrade and regravels the access road and parking areas; provide vehicle barriers.
- PacifiCorp to provide a central group shelter.
- PacifiCorp to provide a hand-pump water well and spigots.

# CAMP CREEK RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

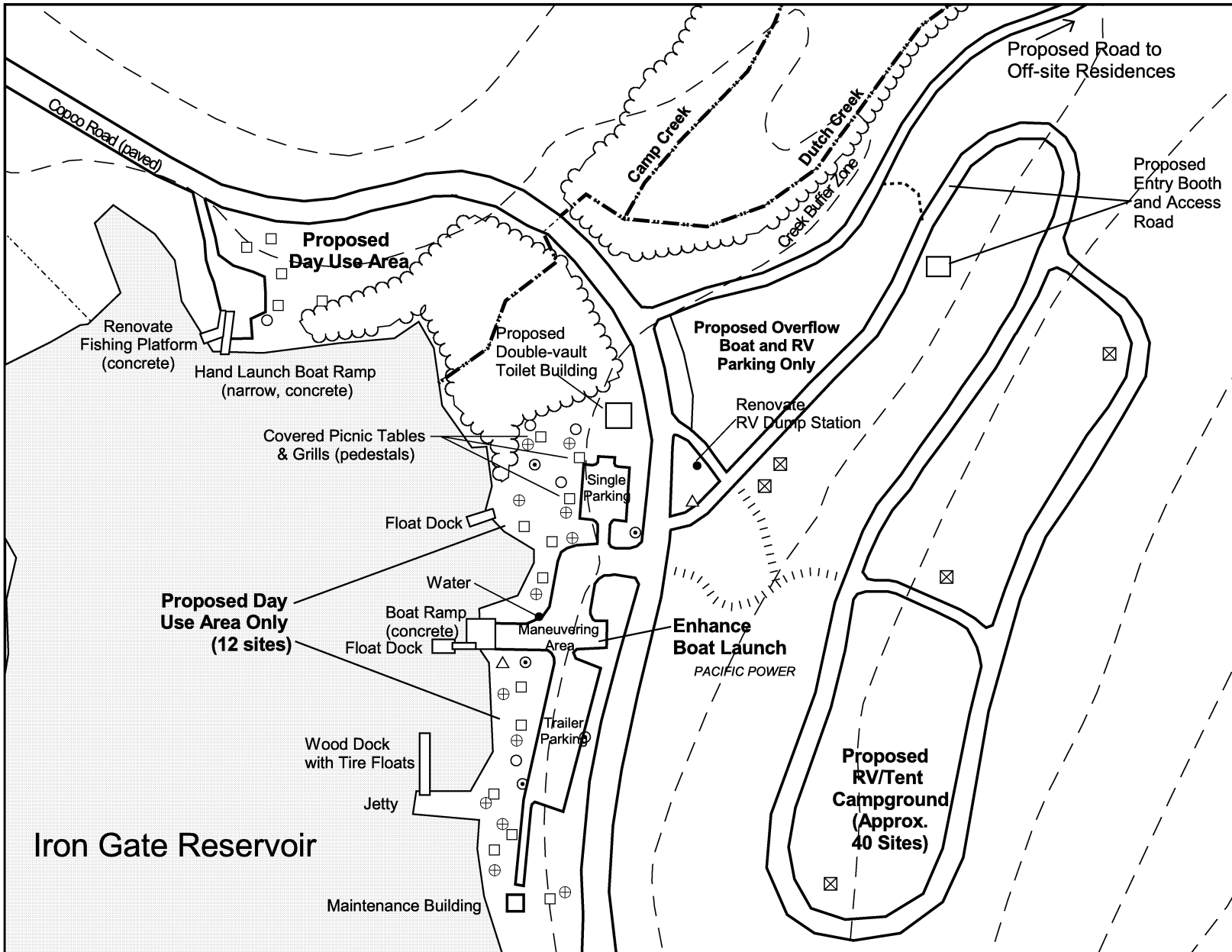


100 0 100 Feet

Scale: 1:2400 1" = 200'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to create a new RV and tent camping area (approximately 40 campsites) on the upper bench area behind existing toilets; provide 4 ADA-accessible double-vault toilet buildings.
- PacifiCorp to remove the existing campsites along reservoir shoreline and convert to 12 day use picnic sites.
- PacifiCorp to provide additional shade trees (including irrigation) and/or covered picnic tables in day use area.
- PacifiCorp to formalize overflow parking area and circulation and provide vehicle barriers.
- PacifiCorp to provide water infrastructure to bench area.
















- PacifiCorp to develop access roads to both the adjacent private residences and the new campground area.
- PacifiCorp to improve and enhance existing ADA-accessible hand boat launch area (convert to day use and enforce use restriction).
- PacifiCorp to provide 5-10 mooring balls for temporary boat moorage.
- PacifiCorp to repair and replace existing site facilities at the boat launch including docks and ramp.
- PacifiCorp to provide 5-10 overnight boat moorage slips.

# JUNIPER POINT RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
  -  Picnic Tables
  -  Toilets
  -  Grills
  -  Fire Rings/Pits
  -  Trash Receptacles
  -  Signs

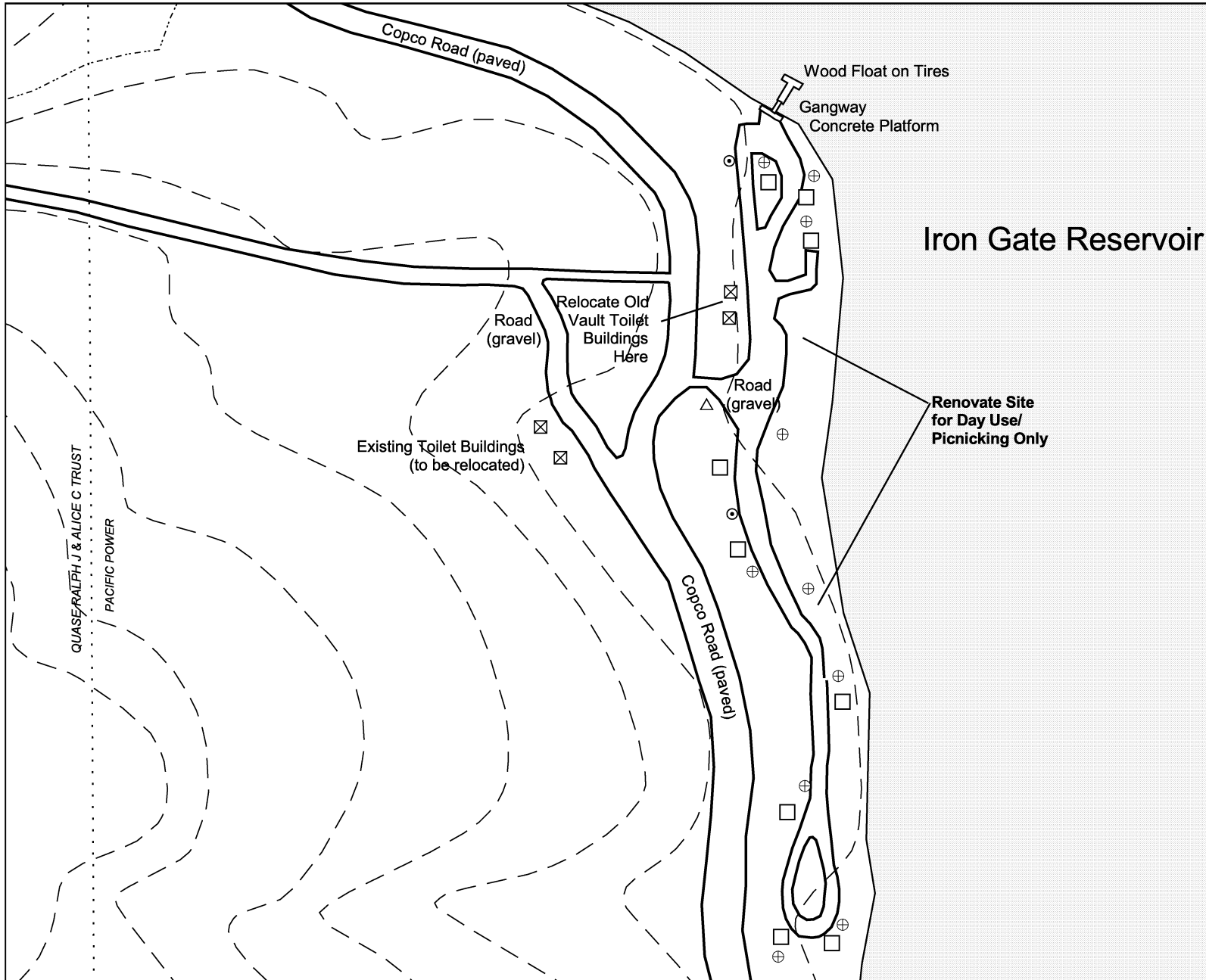


50 0 50 100 Feet

Scale: 1:1800 1" = 150'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to remove existing toilet buildings and replace with new ADA-accessible double-vault toilets on the reservoir side of Copco Road (if possible per County permit).
- PacifiCorp to provide shade trees and/or shelters at picnic sites.
- PacifiCorp to redesign the site for day use only, including the access road into the site.
















-- PacifiCorp to provide 9 improved picnic sites.

# OVERLOOK POINT RECREATION AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

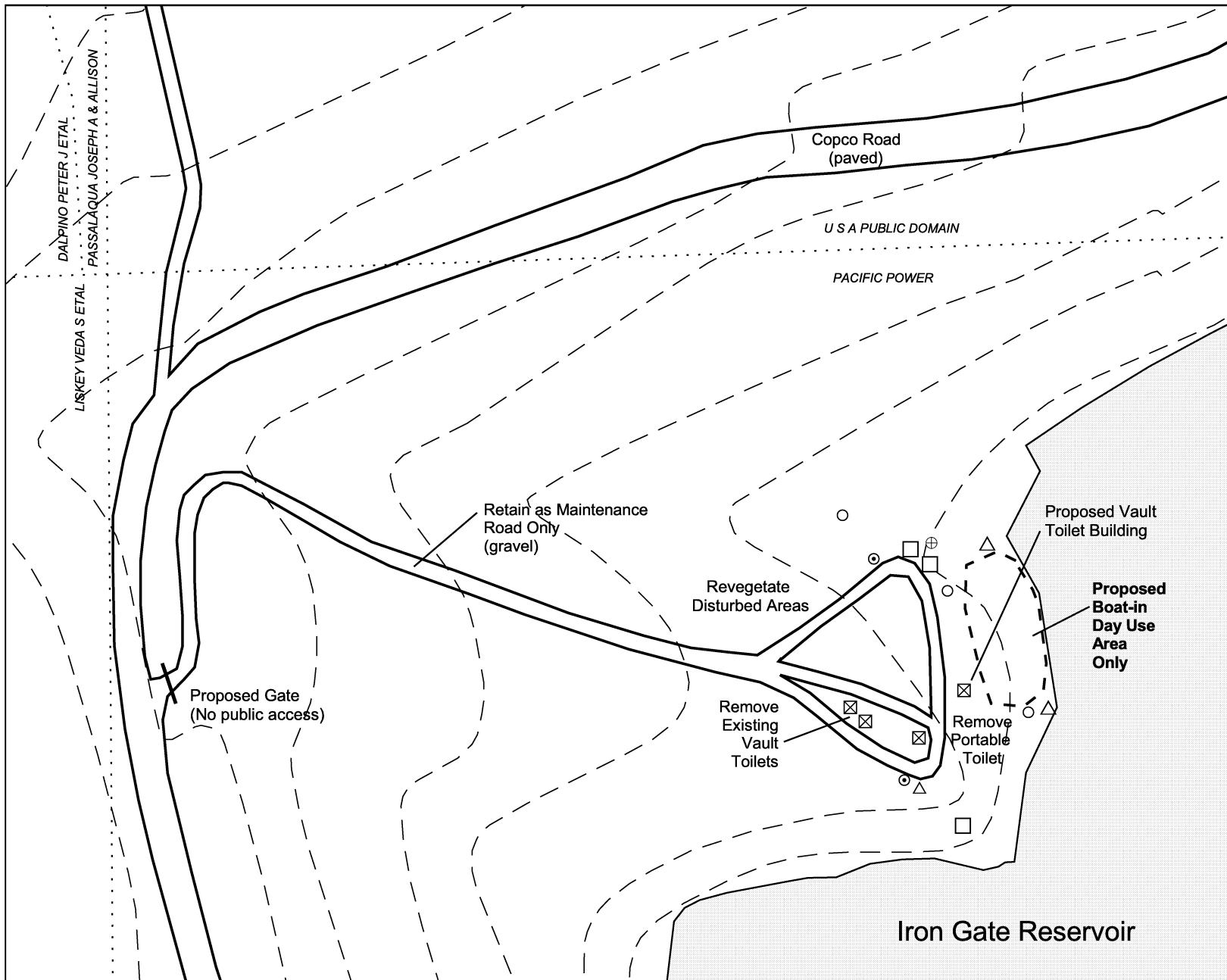


50 0 50 100 Feet

Scale: 1:1800 1" = 150'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:
















- PacifiCorp to redesign this site to be a boat-in day use only site (3 sites); provide additional shade trees (including irrigation) and/or covered picnic tables. at each site.
- PacifiCorp to provide a new ADA-accessible single-vault toilet building and remove the existing vault toilet buildings.

# LONG GULCH BOAT LAUNCH

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

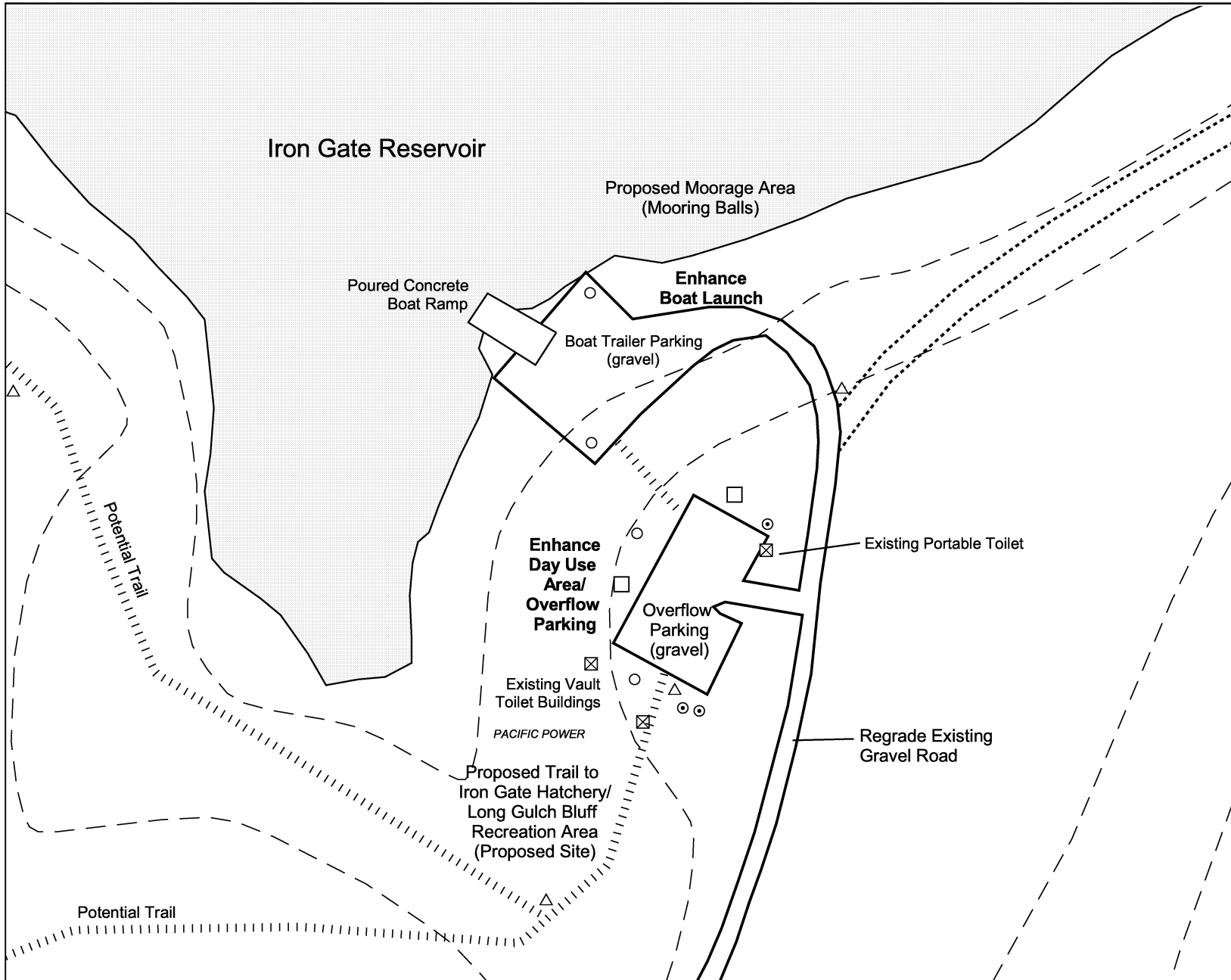


50 0 50 Feet

Scale: 1:1200 1" = 100'



September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to construct a trailhead for the Long Gulch to Iron Gate Hatchery Trail.
- PacifiCorp to redesign this site; provide 5 new picnic sites with additional shade trees (including irrigation) and/or covered picnic shelters.
- PacifiCorp to renovate the boat launch for ADA-accessibility; provide boarding float.

- PacifiCorp to enlarge the boat launch capacity to 2 ramp lanes (when future capacity is needed).
- PacifiCorp to formalize the parking area, including overflow area; provide vehicle barriers.
- PacifiCorp to provide 5-10 mooring balls for temporary boat moorage.


















# LONG GULCH BLUFF REC. AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

-  Open Water
-  Streams
-  2' Elevation Contours
-  Ownership Boundaries
-  Roads/Parking
-  Trails
-  Transmission Lines
-  Fence
-  Structures
-  Picnic Tables
-  Toilets
-  Grills
-  Fire Rings/Pits
-  Trash Receptacles
-  Signs

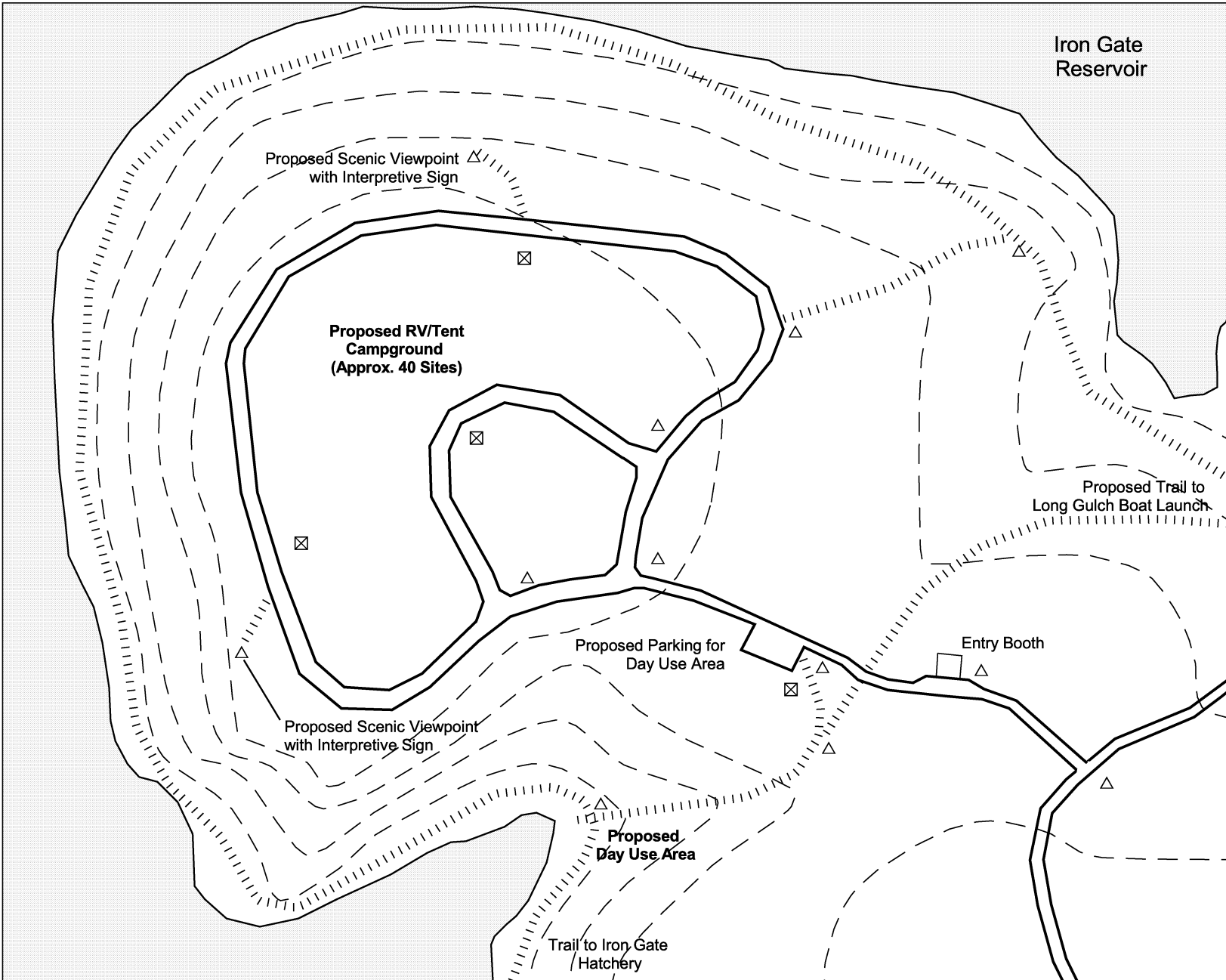


100 0 100 Feet

Scale: 1:2400 1" = 200'



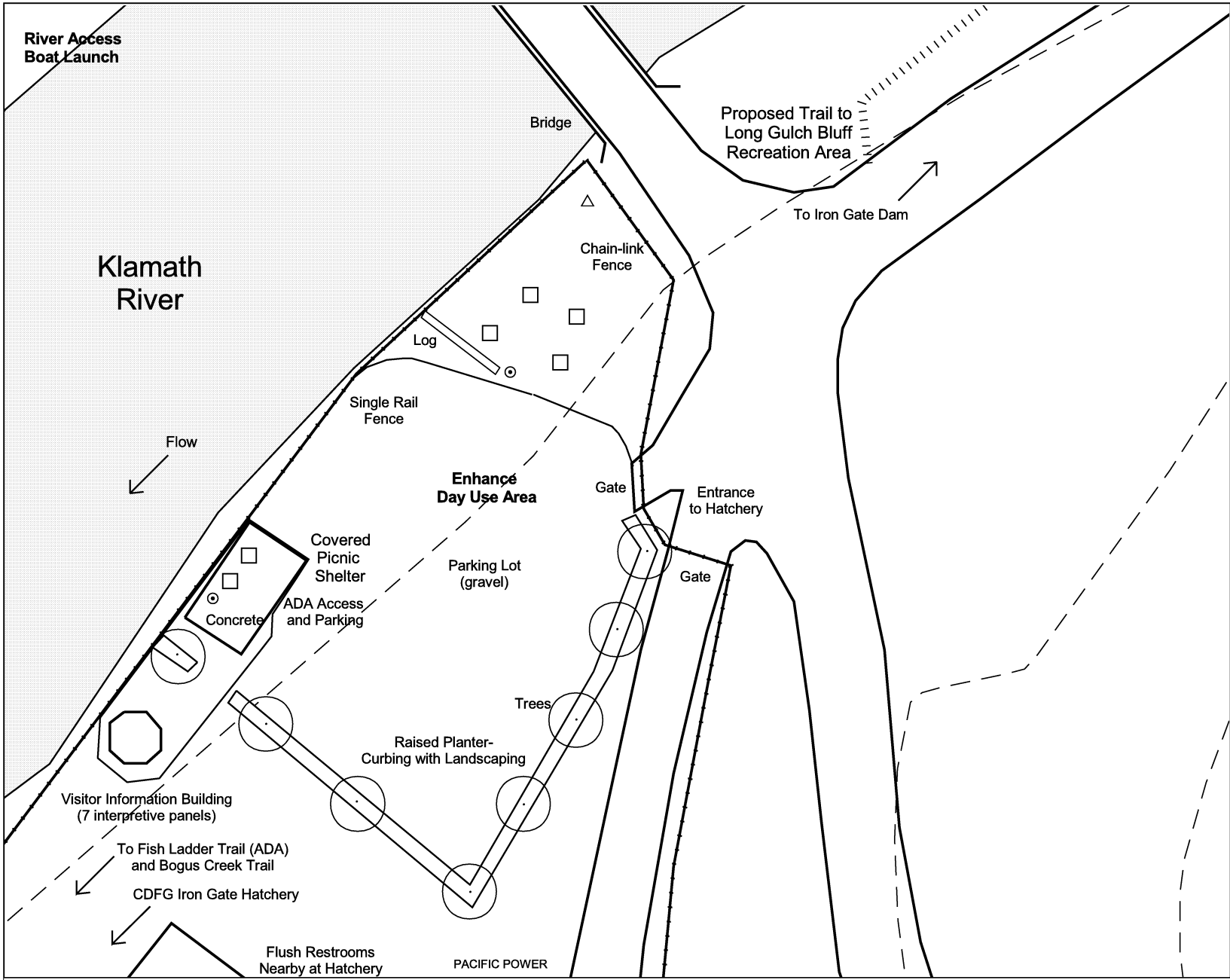
September 2004  
Source: PacifiCorp GIS Data, September 2001



#### Proposed Capital Improvements:

- PacifiCorp to create a new campground (approx. 40 RV/tent sites) on the bluff adjacent to existing boat launch--phased after use at Camp Creek Recreation Area reaches capacity.
- Provide 3 ADA-accessible double-vault toilet buildings, gravel roads and spurs, and centralized drinking water.

- PacifiCorp to create a day use area at a nearby cove with parking and a double-vault toilet building.
- PacifiCorp to develop a non-motorized trail between the campground and boat launch with overlook points.



# IRON GATE HATCHERY PUBLIC USE AREA

## Klamath Hydroelectric Project

### Proposed Capital Improvements

#### Legend

- Open Water
- Streams
- 2' Elevation Contours
- Ownership Boundaries
- Roads/Parking
- Trails
- Transmission Lines
- Fence
- Structures
- Picnic Tables
- Toilets
- Grills
- Fire Rings/Pits
- Trash Receptacles
- Signs



30 0 30 Feet

Scale: 1:600 1" = 50'



September 2004  
Source: PacifiCorp GIS Data, September 2001

#### Proposed Capital Improvements:

- PacifiCorp to redesign this public day use area as the southern interpretive gateway to the Klamath Project (See I&E Program).
- PacifiCorp to provide additional shade trees (including irrigation) and/or covered picnic tables.
- PacifiCorp to construct a trailhead for the Bogus Creek Trail and the Long Gulch Bluff Recreation Area to Iron Gate Hatchery Trail; provide signs.
- PacifiCorp to improve the adjacent river boat launch by hardening the access road.



**EXHIBIT F. Recreation Developed Facility and Dispersed Site Maintenance Standards/Frequency Recreation Development Classifications**

<b>Recreation Facility Name</b>	<b>Intensive Development</b>	<b>Moderate Development</b>	<b>Minimal Development</b>
Pioneer Crossing Recreation Area	X		
J.C. Boyle Reservoir Loop Trail			X
Upper J.C. Boyle Boater Access			X
Boyle Bluffs Recreation Area	X		
J.C. Boyle Dam River Access			X
J.C. Boyle Powerhouse River Access		X	
Stateline Take-out		X	
Fishing Access Sites 1-6			X
Mallard Cove	X		
Copco Cove		X	
Fall Creek Trail			X
Fall Creek			X
Jenny Creek		X	
Wanaka Springs		X	
Camp Creek	X		
Juniper Point		X	
Mirror Cove	X		
Overlook Point			X
Long Gulch Boat Launch	X		
Long Gulch Bluff Recreation Area	X		
Long Gulch to Iron Gate Fish Hatchery Trail			X
Iron Gate Hatchery Public Use Area		X	
Bogus Creek Trail			X
Dispersed Reservoir Shoreline Sites			X

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.

<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<b>Boat Launch Ramps:</b> Surface may be A-C, concrete or gravel. Surfaces are to be in good condition without potholes, cracks or heaves. Ramps are to be kept free of debris. Areas are to be free of overhanging brush; adequate sight distance is to be maintained.	<b>Daily (in season):</b> Inspect boat launches and remove debris. Immediately correct or report all deficiencies and hazards. <b>Weekly (off-season):</b> Inspect boat launches and remove debris.	<b>Bi-Weekly (in season):</b> Inspect boat launches and remove debris. Immediately correct or report all deficiencies and hazards. <b>Weekly (off-season):</b> Inspect boat launches and remove debris.	<b>Bi-Weekly (in season):</b> Inspect boat launches and remove debris. Immediately correct or report all deficiencies and hazards. <b>Weekly (off-season):</b> Inspect boat launches and remove debris.
<b>Buildings:</b> Including restrooms, interpretive displays, picnic shelters, RV dump stations, etc. Structures and associated fixtures are maintained in good repair, in safe, clean and sanitary condition at all times. All buildings receive an annual structural maintenance inspection. Items needing repair are corrected immediately or reported for scheduling.	<b>Daily:</b> Inspect buildings and fixtures for repair needs; sweep or vacuum floors; clean sinks, windows, counters, seats and displays with appropriate methods; empty waste containers. <b>Weekly:</b> Mop floors if appropriate. <b>As required:</b> Replace light bulbs; remove spider webs and mud swallow nests; inspect and clean eave troughs.	<b>Daily:</b> Inspect buildings and fixtures for repair needs; sweep or vacuum floors; clean sinks, windows, counters, seats and displays with appropriate methods; empty waste containers. <b>Weekly:</b> Mop floors if appropriate. <b>As required:</b> Replace light bulbs; remove spider webs and mud swallow nests; inspect and clean eave troughs.	Not Applicable
<b>Camp/Picnic Site Fireplaces:</b> Inspect for cleanliness and safety, vandalism, and natural resource conditions. Fireplaces should be free of unburned litter; grates should be intact, hinges working properly.	<b>Daily (minimum in season):</b> Remove litter form fireplaces. Remove cold ashes when fireplace is over ½ full.	<b>Weekly (minimum in season):</b> Remove litter form fireplaces. Remove cold ashes when fireplace is over ½ full.	<b>Weekly (minimum in season):</b> Remove litter form fireplaces. Remove cold ashes when fireplace is over ½ full.
<b>Camp/Picnic Site Tables:</b> Inspect for cleanliness and safety, vandalism, and natural resource conditions. Tables should be sturdy, clean, free from splinters, food debris and graffiti.	<b>Weekly (minimum in season) or when dirty:</b> Wash picnic tables. Sand rough spots, tighten loose bolts and replace damaged boards immediately.	<b>Monthly (minimum in season) or when dirty:</b> Wash picnic tables. Sand rough spots, tighten loose bolts and replace damaged boards immediately.	<b>Bi-Monthly (minimum in season) or when dirty:</b> Wash picnic tables. Sand rough spots, tighten loose bolts and replace damaged boards immediately.

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.

<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<p><b>Culverts and Ditches:</b> Associated with park roads, parking lots, camploops and trails. Culverts and ditches will be kept open and repaired so they function as intended.</p>	<p><b>Yearly Pre-Winter (September/October):</b> Perform inspections of culverts and ditches. After severe weather events additional inspections may be warranted. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Yearly Pre-Winter (September/October):</b> Perform inspections of culverts and ditches. After severe weather events additional inspections may be warranted. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Yearly Pre-Winter (September/October):</b> Perform inspections of culverts and ditches. After severe weather events additional inspections may be warranted. Items needing repair are corrected immediately or reported for scheduling.</p>
<p><b>Dispersed Shoreline Use Sites:</b> Includes shoreline day-use and camping sites. Areas are to be relatively free of litter and user built site "improvements." Monitor site for natural resource conditions and vandalism.</p>	<p><b>Not Applicable</b></p>	<p><b>Not Applicable</b></p>	<p><b>Annually:</b> Inspect day-use, camping and closed sites; remove user built site improvements including rock fire rings, docks, rafted logs, spikes in trees, signs, tables, chairs, ropes and tarps. Collect litter. Report significant erosion or other natural resource damage or problems caused by visitor use.</p>
<p><b>Garbage/Litter Collection:</b> All park areas are litter-free. Garbage cans are routinely emptied kept in good condition and free from odors.</p>	<p>Litter is removed from open spaces, camp and picnic sites, trails, footpaths and parking areas as soon as it is seen. Garbage can liners are removed as soon as they are full, and are replaced with new liners.</p>	<p>Litter is removed from open spaces, camp and picnic sites, trails, footpaths and parking areas as soon as it is seen. Garbage can liners are removed as soon as they are full, and are replaced with new liners.</p>	<p>Litter is removed from open spaces, camp and picnic sites, trails, footpaths and parking areas as soon as it is seen. Garbage can liners are removed as soon as they are full, and are replaced with new liners.</p>

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.

<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<p><b>Gravel Surfaced Areas:</b> Including roads, parking areas, and campsites. Surfaces are to be in good condition without potholes and mudholes. Areas are to be free of overhanging brush; adequate sight distance is to be maintained.</p>	<p><b>Quarterly:</b> Inspect all areas; remove overhanging vegetation; correct minor surface deficiencies; schedule major repair needs such as grading or resurfacing. Inspect immediately after severe weather events. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Semi Annually:</b> Inspect all areas; remove overhanging vegetation; correct minor surface deficiencies; schedule major repair needs such as grading or resurfacing. Inspect immediately after severe weather events. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Semi Annually:</b> Inspect all areas; remove overhanging vegetation; correct minor surface deficiencies; schedule major repair needs such as grading or resurfacing. Inspect immediately after severe weather events. Items needing repair are corrected immediately or reported for scheduling.</p>
<p><b>Boat Docks and Fishing Piers:</b> Decking and shoreline connection points are sound. Cleats, buoys and markers are visible and correctly located. Underwater and on-shore hazards, litter and unwanted vegetation are removed near boat docks and fishing piers.</p>	<p><b>Bi-Weekly (minimum in season):</b> Inspect all areas; immediately correct or report all deficiencies and hazards. Inspect immediately following severe weather or high water events. <b>Pre and Post Season:</b> Clean buoys of accumulated algae when they are out of the water.</p>	<p><b>Bi-Weekly (minimum in season):</b> Inspect all areas; immediately correct or report all deficiencies and hazards. Inspect immediately following severe weather or high water events. <b>Pre and Post Season:</b> Clean buoys of accumulated algae when they are out of the water.</p>	<p>Not Applicable</p>
<p><b>Natural Occurrences:</b> Including snow, heavy rain, wind and floods. Public and employee safety is established immediately.</p>	<p>Inspect park areas as soon as possible after the occurrence. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Inspect park areas as soon as possible after the occurrence. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Inspect park areas as soon as possible after the occurrence. Items needing repair are corrected immediately or reported for scheduling.</p>
<p><b>Non-public Buildings:</b> Including maintenance shops, pump houses, storage buildings, park residences. Building interior and exteriors will be maintained in a safe, clean condition at all times. All buildings will receive an annual structural maintenance inspection.</p>	<p><b>Monthly:</b> Perform safety and housekeeping inspection. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Monthly:</b> Perform safety and housekeeping inspection. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Not Applicable</p>

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.

<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<p><b>Other Facilities and Activities:</b> Including maintenance services, camp host sites, barrier-free campsites, areas of primary protection for cultural and natural resources and hazard trees. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Weekly:</b> Inspect camp host sites and barrier free camps sites. Check boundaries of resource protection areas.  <b>Monthly:</b> Inspect service contracts (like refuse hauling and firewood delivery).  <b>Annually:</b> Inspect hazard trees.</p>	<p><b>Weekly:</b> Inspect camp host sites and barrier free camps sites.  <b>Monthly:</b> Inspect service contracts (like refuse hauling and firewood delivery). Check boundaries of resource protection areas.  <b>Annually:</b> Inspect hazard trees.</p>	<p><b>Annually:</b> Check boundaries of resource protection areas, inspect hazard trees.</p>
<p><b>Paved Areas:</b> Including roads, parking lots, campsite hardstands, pavement surface may be A-C, concrete or paver block. Surfaces are to be in good condition without potholes, cracks or heaves. Striping is to be clearly visible. Areas are to be free of overhanging brush; adequate sight distance is to be maintained.</p>	<p><b>Quarterly:</b> Inspect paved areas; correct minor repair needs such as potholes; remove debris and overhanging brush; schedule major repair needs such as striping, overlay or chip-seal. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Semi Annually:</b> Inspect paved areas; correct minor repair needs such as potholes; remove debris and overhanging brush; schedule major repair needs such as striping, overlay or chip-seal. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Not Applicable</p>
<p><b>Potable Water Hydrants:</b> Inspect for cleanliness and operation. Faucets should turn on and off easily and should not leak. No litter, food debris nor vegetation should accumulate around the base. The base drain should take a full flow of water from the faucet.</p>	<p><b>Weekly:</b> Turn on faucet to check operation and base drainage. Remove litter, debris and weeds from base. Repair faucet and drainage as needed. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Monthly:</b> Turn on faucet to check operation and base drainage. Remove litter, debris and weeds from base. Repair faucet and drainage as needed. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Not Applicable</p>

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.



<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<p><b>Potable Water Systems:</b> Including wells, treatment plants, lines, and pressure systems. All potable water systems must meet the requirements for federal and state safe drinking water. Each potable water system must be operated according to the specifications, standards and design features of the particular system.</p>	<p><b>Daily (or as required):</b> Monitor treatment plants and perform required tests. Prepare and submit reports as required. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Daily (or as required):</b> Monitor treatment plants and perform required tests. Prepare and submit reports as required. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Not Applicable</p>
<p><b>Restroom:</b> Including pit and vault toilets, and restrooms inside other public and non-public buildings. Structures and fixtures are maintained in good repair, in clean and sanitary condition at all times. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Daily:</b> Inspect building and fixtures for repair needs; sweep floors, dispose of floor sweepings in waste containers; mop floors with disinfectant solution; clean sinks, urinals, toilets, mirrors, and counters with disinfectant solution, use scouring powder when necessary; dry sinks and toilet seats; empty waste containers.</p> <p><b>Weekly:</b> Wash restroom with disinfectant; open and clean floor drains; clean the pipe chase and inventory maintenance supplies.</p> <p><b>As required:</b> Replace light bulbs, replace paper products; remove spider webs and mud swallow nests; inspect and clean eave troughs.</p>	<p><b>Three times per week:</b> Inspect building and fixtures for repair needs; sweep floors, dispose of floor sweepings in waste containers; mop floors with disinfectant solution; clean sinks, urinals, toilets, mirrors, and counters with disinfectant solution, use scouring powder when necessary; dry sinks and toilet seats; empty waste containers.</p> <p><b>Alternate Weeks:</b> Wash restroom walls with disinfectant; open and clean floor drains; clean the pipe chase and inventory maintenance supplies.</p> <p><b>As required:</b> Replace light bulbs, replace paper products; remove spider webs and mud swallow nests; inspect and clean eave troughs.</p>	<p><b>Once per week:</b> Inspect building and fixtures for repair needs; sweep floors; mop floors with disinfectant solution; clean toilets with disinfectant solution, use scouring powder when necessary; dry toilet seats; empty waste containers. Check capacity of vault toilets during weekly cleaning.</p> <p><b>Once per month:</b> Wash restroom walls with disinfectant.</p> <p><b>As required:</b> Replace paper products; remove spider webs and mud swallow nests; inspect and clean eave troughs; pump vaults as needed or at a minimum, once per year</p>

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.

<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<p><b>Sewage Treatment Systems:</b> Including septic tanks and drainfields, lift stations and pressure lines. All sewage treatment systems must meet state and federal guidelines. People who manage waste treatment plants must meet required state licensing and continuing education requirements. Each treatment system must be operated according to the specifications, standards and design features of the particular system.</p>	<p><b>Daily (or as required):</b> Monitor treatment systems and perform required tests. Prepare and submit reports as required. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Daily (or as required):</b> Monitor treatment plants and perform required tests. Prepare and submit reports as required. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Not Applicable</p>
<p><b>Signs:</b> Signs should be clean, legible and damage-free; signposts should be straight. All vehicle signs should be in conformance with the Manual for Uniform Traffic Control Devices (MUTCD). No visitor or handmade signs in recreation areas.</p>	<p><b>Weekly:</b> Inspect signs. Replace signs with are missing or damaged within three days (in season, five days off-season). Traffic control signs must be replaced immediately.</p>	<p><b>Weekly:</b> Inspect signs. Replace signs with are missing or damaged within five days (in season, ten days off-season). Traffic control signs must be replaced immediately.</p>	<p><b>Monthly:</b> Inspect signs. Replace missing or damaged signs within five days (in season, ten days off-season). Traffic controls signs must be replaced immediately.</p>
<p><b>Sink Waste Disposals:</b> Inspect for cleanliness and operation. Disposals should take a full flow of water. The disposal screen, base and area should be free of food debris, litter and vegetation. The disposal should be properly signed.</p>	<p><b>Daily:</b> Pour a 2-gallon bucket of water into each disposal. Wash screen and disposal base daily. Remove litter, sticks and debris. Items needing repair are corrected immediately or reported for scheduling.</p>	<p><b>Alternate days:</b> Pour a 2-gallon bucket of water into each disposal. Wash screen and disposal base daily. Remove litter, sticks and debris. Items needing repair are corrected immediately or reported for scheduling.</p>	<p>Not Applicable</p>

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.

<b>Maintenance Standard</b>	<b>Recommended Frequency for Areas of Intensive Development</b>	<b>Recommended Frequency for Areas of Moderate Development</b>	<b>Recommended Frequency or Areas of Minimal Development</b>
<p><b>Trails and Footpaths:</b> Including paved bicycle and footpaths, and surfaced hiking, interpretive, horse and mountain bike trails. Surfaces may be A-C, concrete, gravel, wood chip or native soil. Surfaces are to be in good condition without potholes, cracks or heaves, mudholes or weeds, including tree roots. Footbridges are to be sound, stringers and decking are to be rot-free. Areas are to be free of overhanging brush; adequate sight distance is to be maintained.</p>	<p><b>Monthly:</b> Inspect all areas; remove overhanging vegetation; correct minor surface deficiencies, schedule major repair needs such as overlay, grading or resurfacing. During season of operation inspect immediately after severe weather events. Monitor for excessive erosion or other cultural or natural resource damage.</p>	<p><b>Quarterly:</b> Inspect all areas; remove overhanging vegetation; correct minor surface deficiencies; schedule major repair needs such as overlay, grading or resurfacing. During season of operation inspect immediately after severe weather events. Monitor for excessive erosion or other cultural or natural resource damage.</p>	<p><b>Semi Annually:</b> Inspect all areas; remove overhanging vegetation; correct minor surface deficiencies; schedule major repair needs such as grading or resurfacing. During season of operation inspect immediately after severe weather events. Monitor for excessive erosion or other cultural or natural resource damage.</p>
<p><b>Turf Areas:</b> All turf and grass areas should be healthy and vigorous. Specific treatments such as irrigation, verti-slicing, fertilization, and pesticide application should be undertaken when necessary and appropriate. If parks are open, entry points to areas receiving fertilizer and pesticide applications will be posted for an appropriate time before, during and after the treatment.</p>	<p>Intensely managed turf areas should be kept to moderate size around public buildings. Mowing should be sufficient to keep lawns looking neat and trim (about weekly during the growing season). Irrigation and fertilization are appropriate. Grass in campsites and along roadsides should be mowed when its height exceeds 4”.</p>	<p>Grass within 50 feet of a building and in campsites should be mowed when its height exceeds 4”. Roadsides should be mowed when grass exceeds 6” in height. Fields and open area meadows should be mowed when grass exceeds 12” in height. <i>This standard does not apply to habitat areas</i></p>	<p>Roadsides should be mowed when grass exceeds 6” in high. Fields and rough grass areas should be mowed when grass exceeds 12” in height. <i>This standard does not apply to habitat areas.</i></p>

The frequency of maintenance tasks shown above is a recommended level only. The actual frequency needed to maintain the maintenance standards will vary depending upon site specific variables such as park location, season of the year, number of park visitors, etc.