



Photo: Joe Spendolini

Klamath Drainage District Pub. Law 83-566 Infrastructure Modernization Project

Public Comment Meeting: October 29, 2024



Meeting Agenda

Part 1

PL 83-566 Process &
Project Overview

Part 2

Public Comment
Breakout Session



Klamath Drainage District

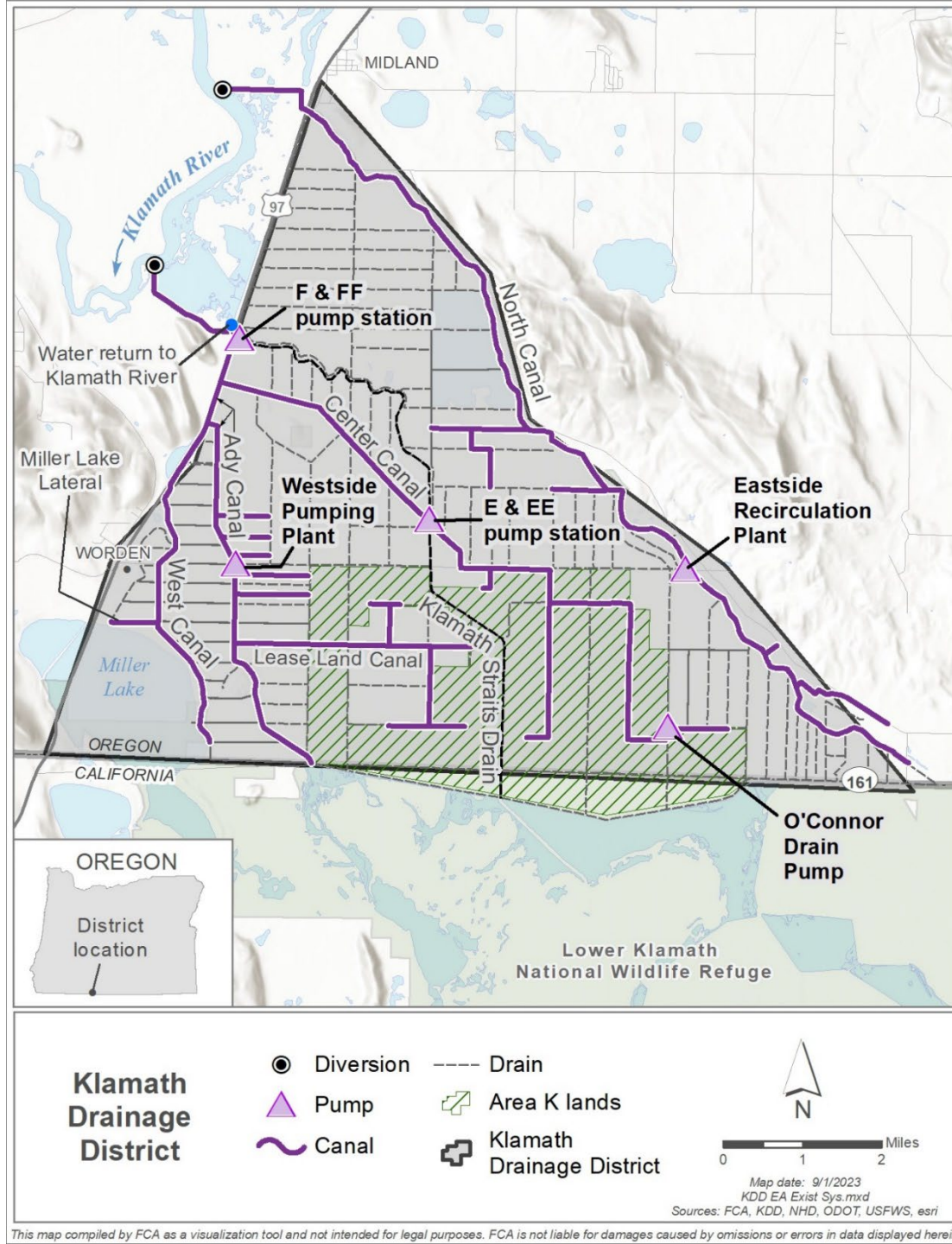
27,000 acres farmland
irrigated

15 landowners served

Irrigation season **year-round**

30-mile canal system

7 pumping plants



Why PL-566?



Watershed Protection and Flood Prevention Program (PL-566)

- Managed and funded by NRCS
- Provides planning, design, and construction funding
- Covers a wide range of projects that address watershed issues



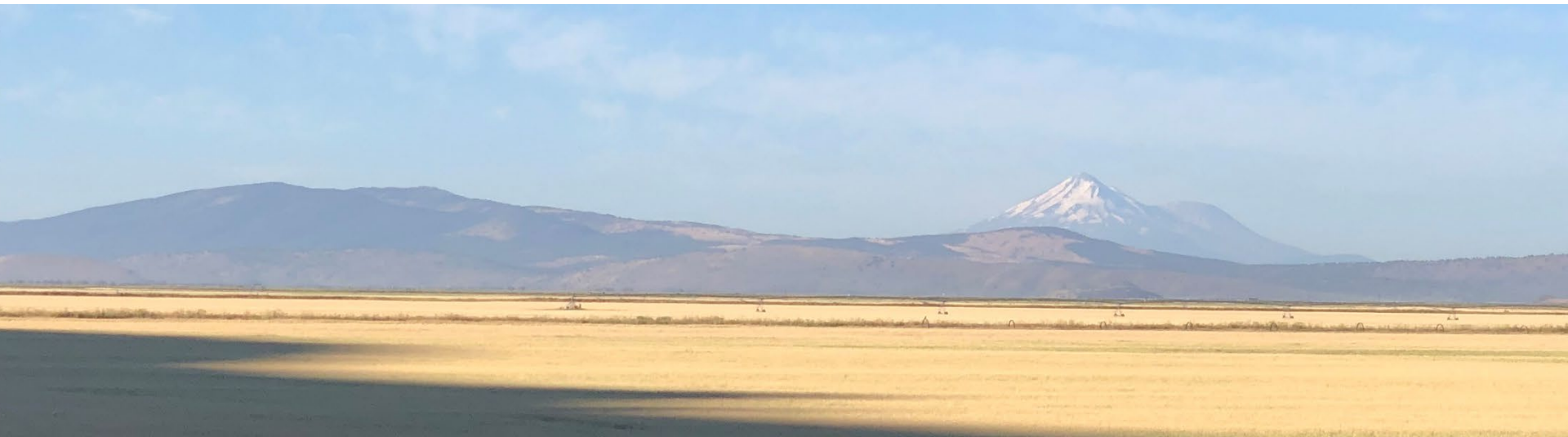
General PL-566 Requirements

- Must have a project **sponsor**
- Project must fit an **authorized use**
- Must have agricultural or rural community **benefits**



Additional Requirements

- Watershed Plans must comply with the National Environmental Policy Act (**NEPA**) and
- Principles, Requirements and Guidelines (**PR&Gs**), including an economic analysis
- NRCS Nine-Step Planning Process



Project Partners

Sponsor

Klamath Drainage District

Lead Federal Agency

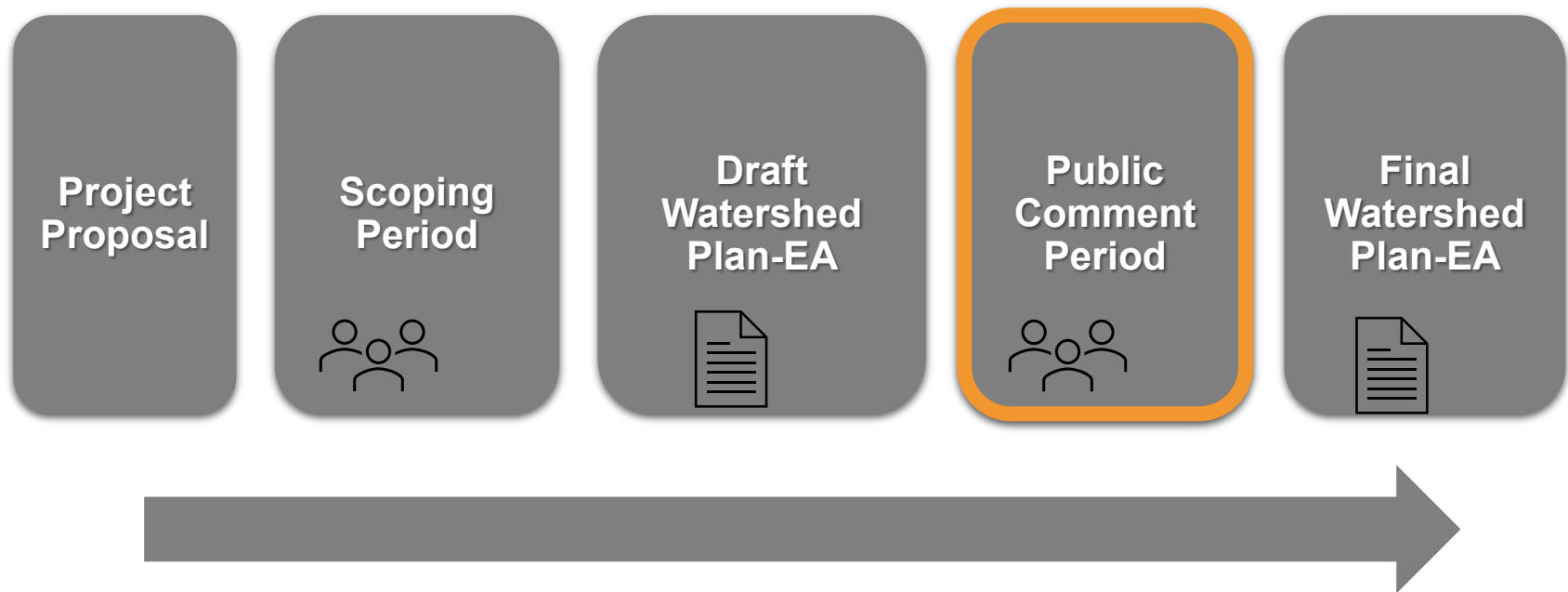
Natural Resources Conservation Service
(NRCS)

Cooperating Agencies

Bureau of Reclamation

U.S. Fish and Wildlife Service - Lower Klamath
National Wildlife Refuge

Watershed Planning Process



How the Plan-EA is Organized

1. Introduction
2. Purpose and Need
3. Scope of the Plan-EA
4. Affected Environment
- 5. Alternatives**
- 6. Environmental Consequences**
7. Consultation, Coordination, and Public Participation
- 8. Preferred Alternative**
- 9-13. Other Required Sections
14. Appendix



Project Purpose and Need

- Enhance agricultural management by:
- Improving District infrastructure
- Reducing inefficiencies
- Improving delivery reliability



Formulation of Alternatives

- **11** alternatives were initially considered
- Alternatives were screened against the following criteria:
 - Purpose and Need
 - PR&Gs
- **2** alternatives were moved forward for detailed analysis



Alternatives

No Action Alternative

Future without Federal Investment

- Construction activities associated with the project would not occur.
- KDD would continue to operate and maintain its existing system in its current condition.

Modernization Alternative

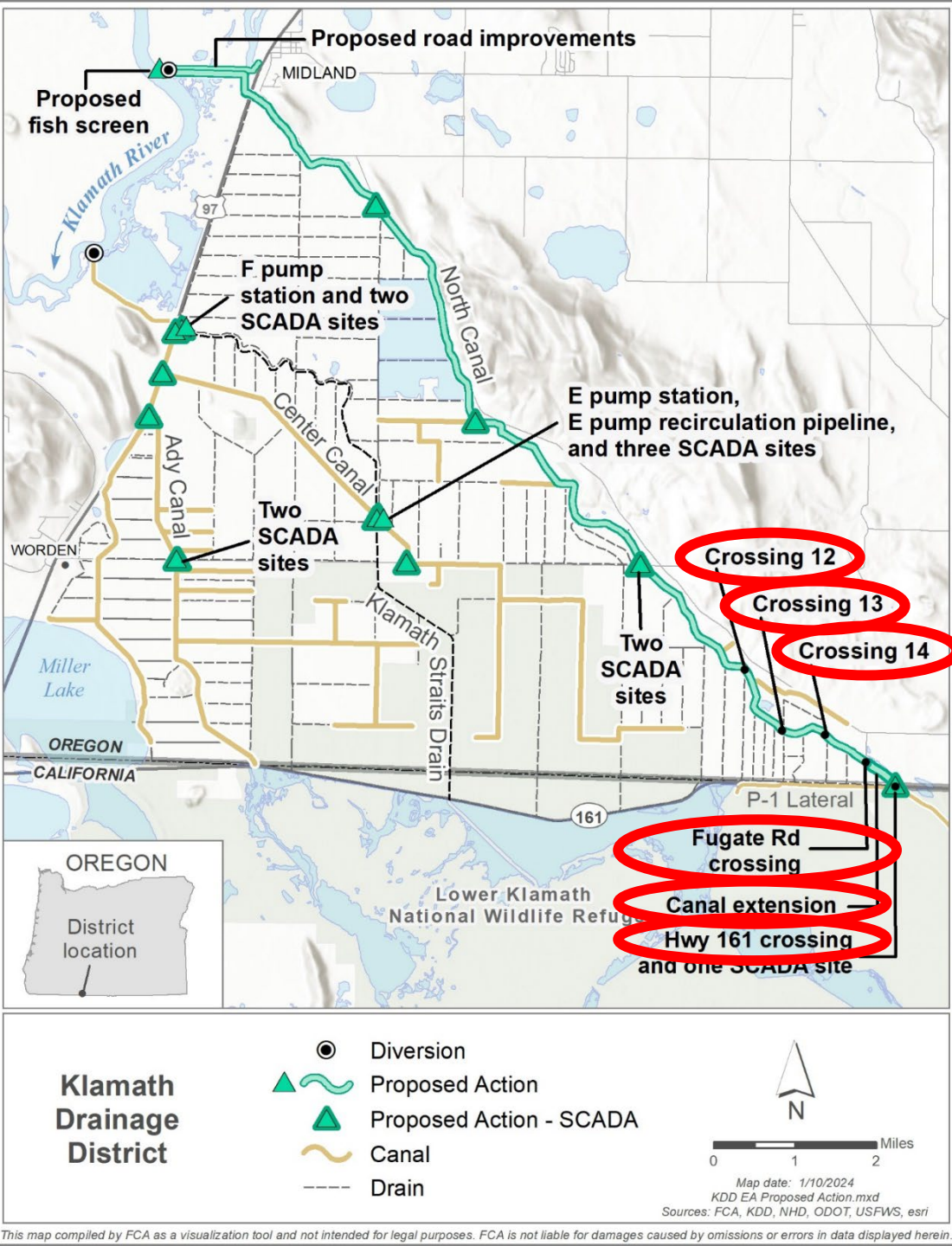
Future with Federal Investment

- Modify and extend the North Canal to connect it to P1 Lateral
- Install fish screen at North Canal Diversion
- Upgrade E & F pumping plants and install a recirculation pipeline from E plant to Center Canal
- Install flow monitoring & automated gates (SCADA) throughout District

Project Group 1

North Canal Extension and Improvements

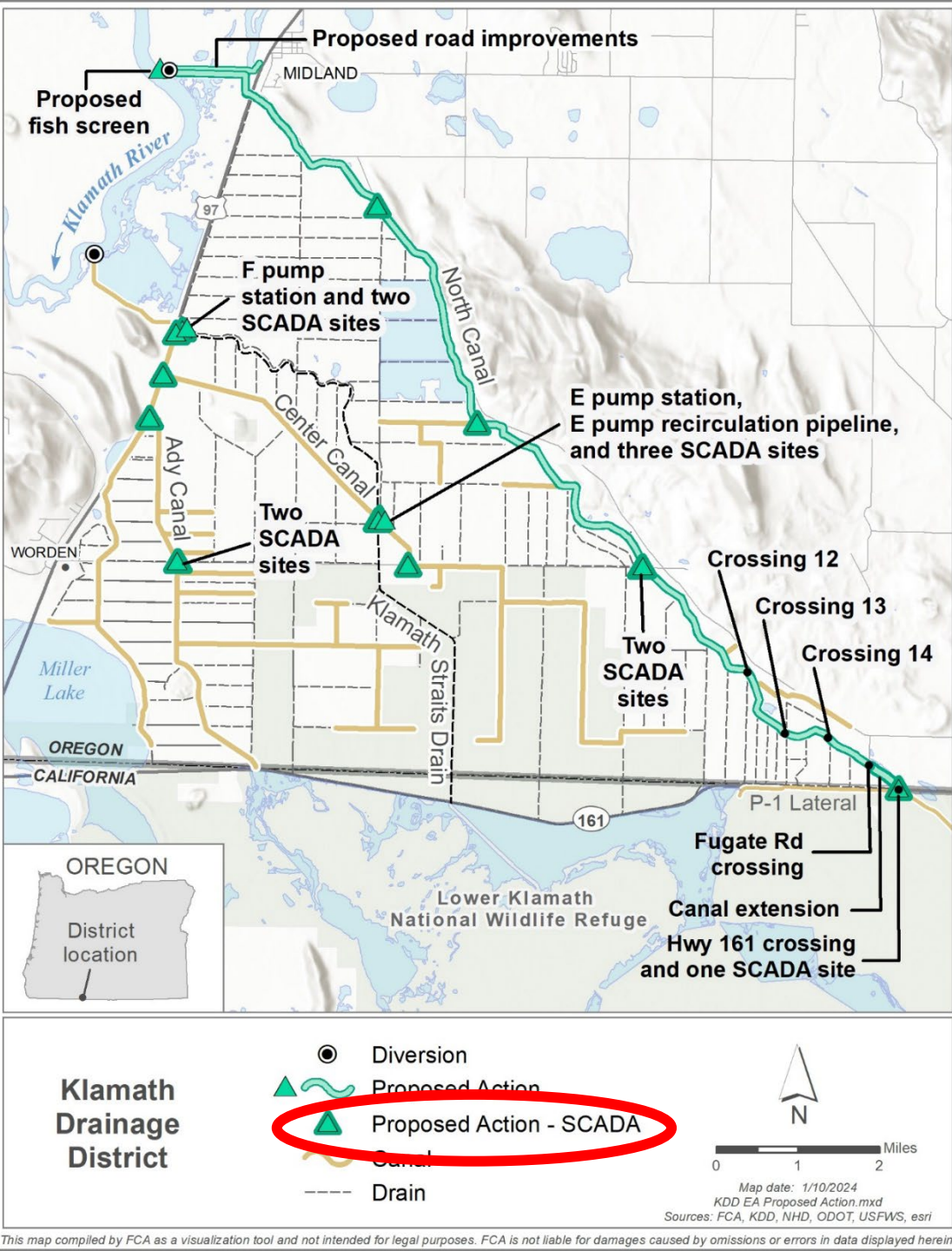
- Extend from Fugate Rd through CSH 161, connecting to P-1 Lateral
- Creates a point of delivery to the LKNWR
- Modify 5 road crossings along the North Canal



Project Group 2

SCADA Installation

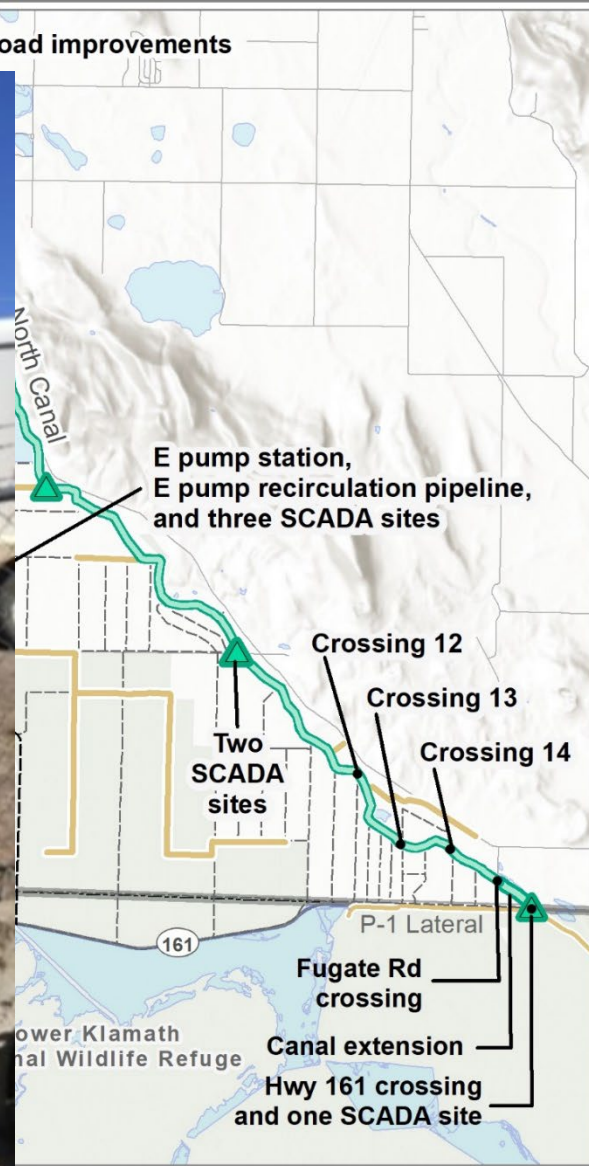
- Installation of SCADA at select locations to improve water management and increase efficiency
- 14 locations across the District
- Allow for real-time monitoring and remote control of pumps and control structures throughout the District



Project G

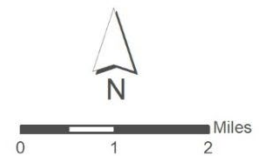
SCADA Installation

- Installation of SCADA at select locations to improve water management and increase efficiency
- 14 locations across the District
- Allow for real-time monitoring and remote control of structures throughout the District



Klamath
Drainage
District

- Proposed Action
- Proposed Action - SCADA
- Canal
- Drain

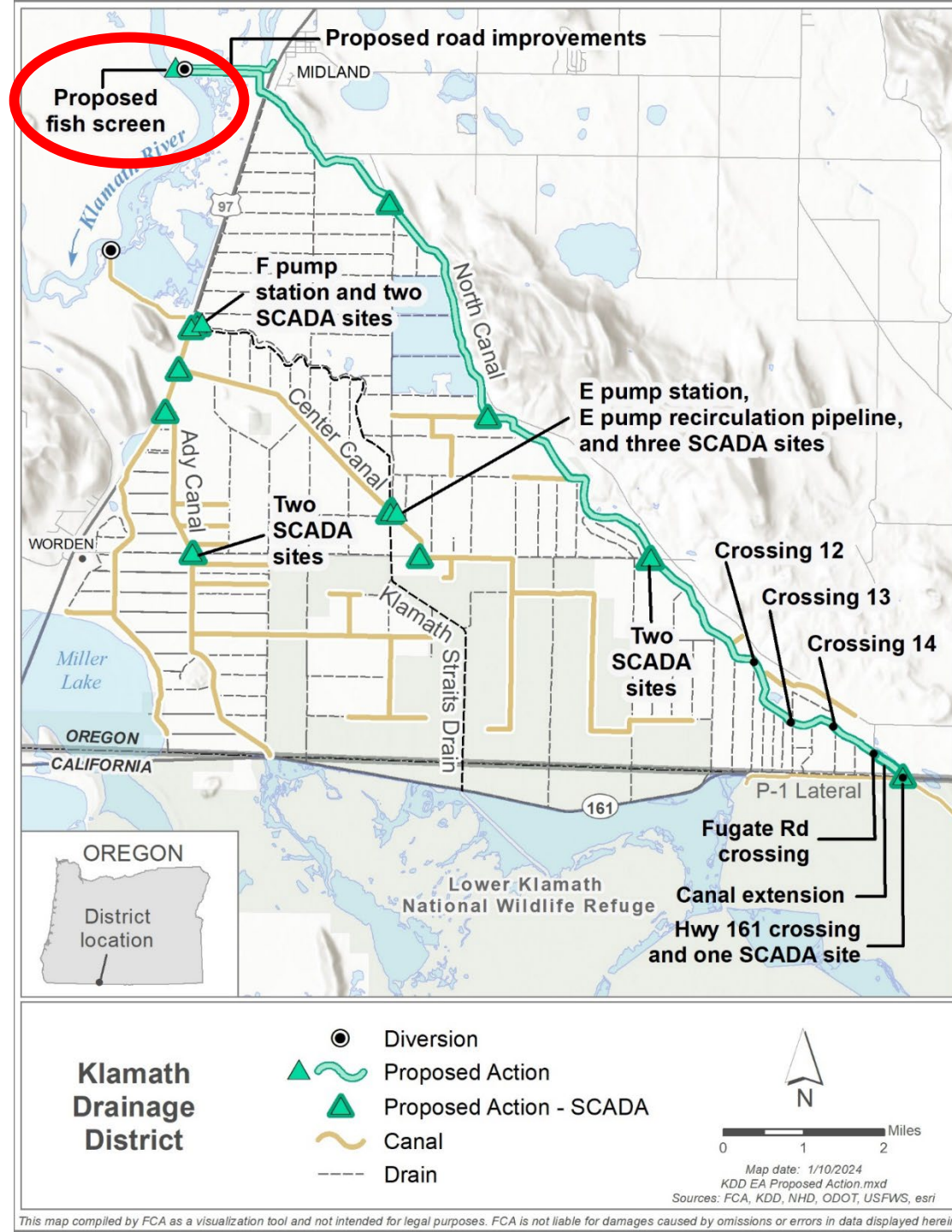


Map date: 1/10/2024
KDD EA Proposed Action.mxd
Sources: FCA, KDD, NHD, ODOT, USFWS, esri

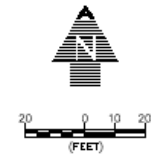
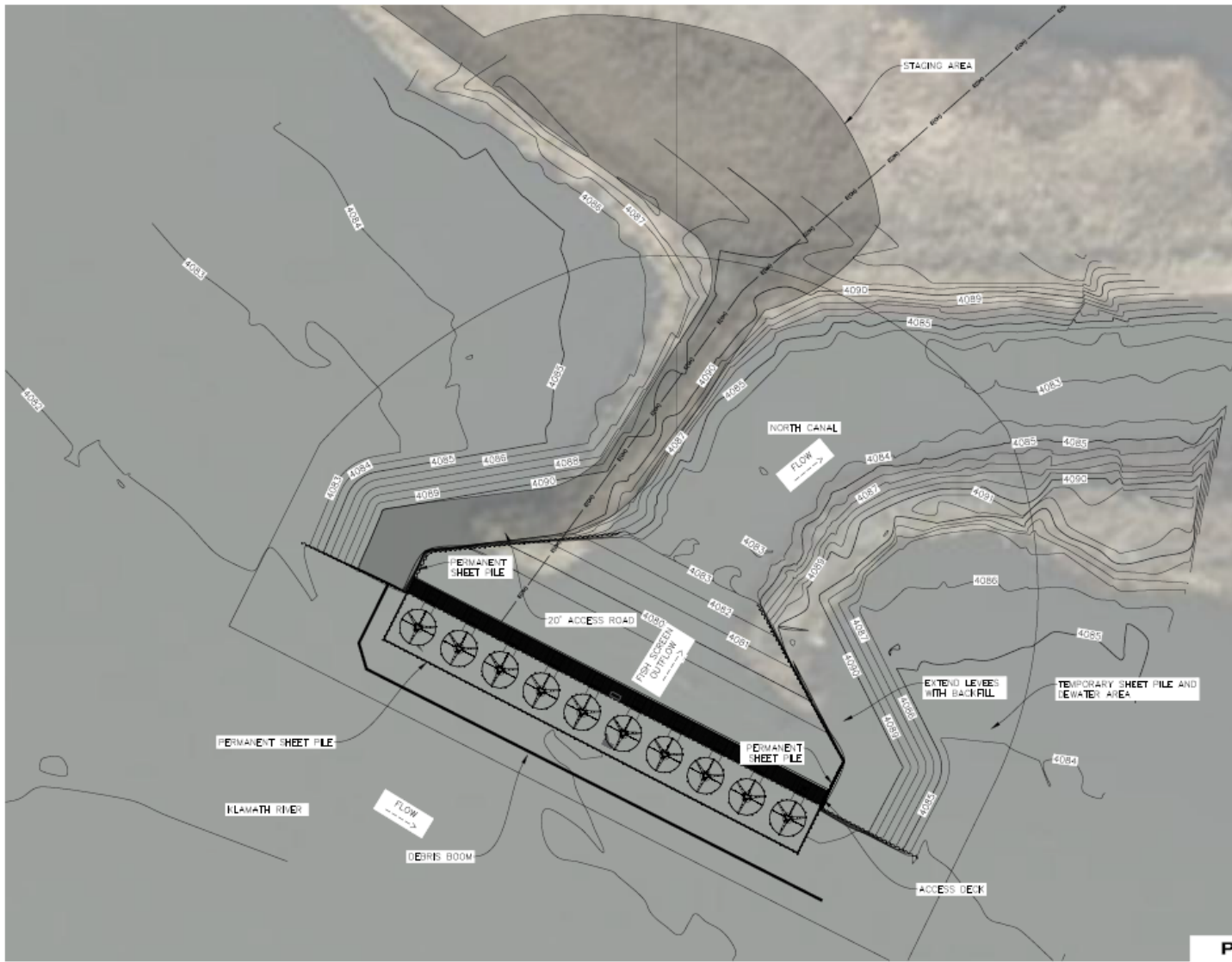
Project Group 3

Fish Screen at North Canal Diversion

- Install cone fish screen in the Klamath River
- Seal 7 breaches in the North Canal levee
- Improve access road to proposed fish screen location



SITE PLAN



PRELIMINARY DRAWING
NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
10% FISH SCREEN DESIGN FOR KLAMATH DRAINAGE DISTRICT			
SITE PLAN			
AL ADKINS ENGINEERING & SURVEYING 1435 COLUMBIAN AVENUE, Klamath Falls, OR 97601 SURVEYING DIVISION & N. CALIFORNIA ENGINEERING - SURVEYING - PLANNING - TESTING			
DATE: 6/30/2022			
PROJECT: 3672-02			
FILE: DESIGN			
DESIGNED BY: DBS			
DRAWN BY: NSP			
CHECKED BY: DBS			
SURVEYED BY: AES			
SCALE: AS SHOWN			
SHEET: 4 OF 8			

C4

District

- Canal
- Drain

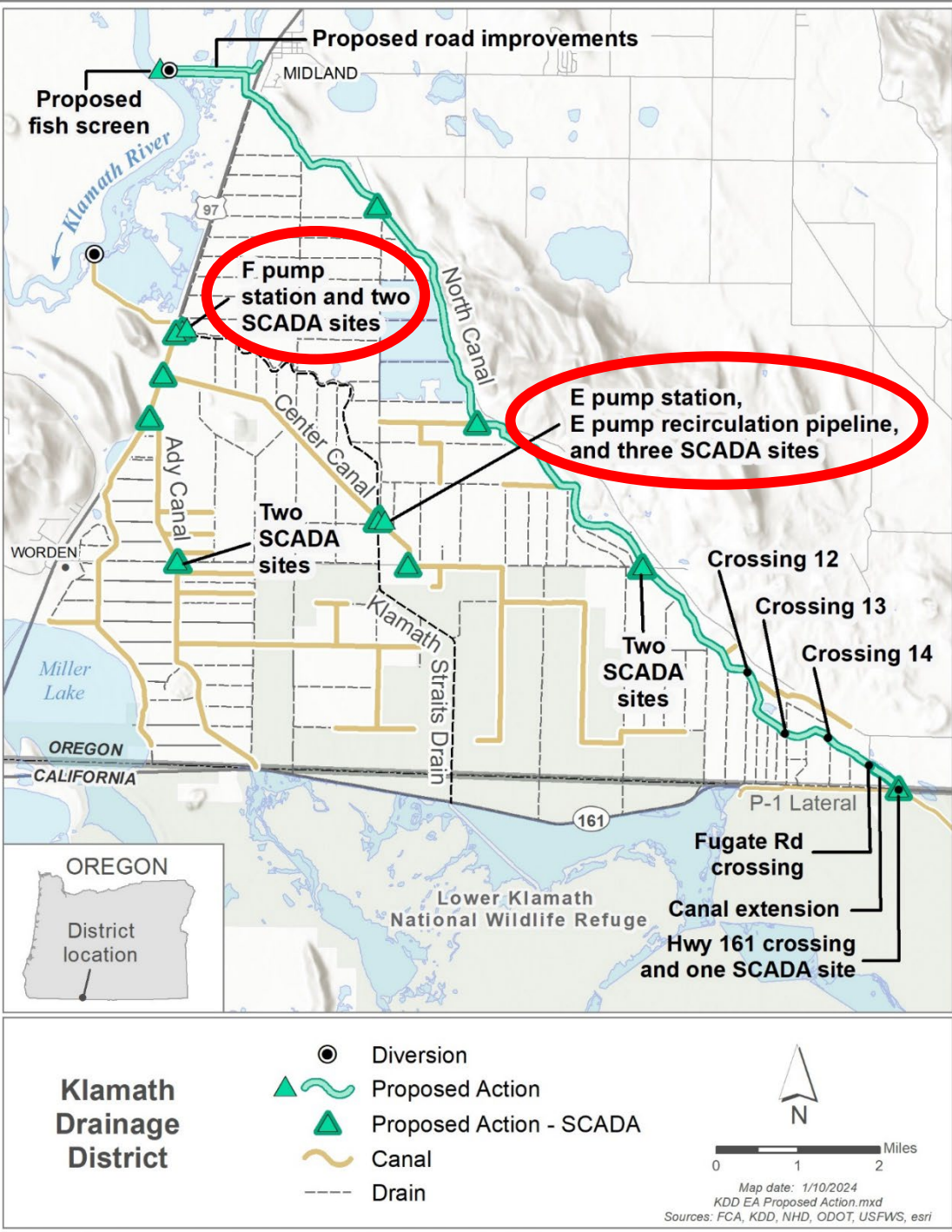


Map date: 1/10/2024
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Project Group 4

E and F Pumping Plant Upgrades

- Upgrading pumps, installing VFDs, upgrading motor controls, and transformers
- Modernizing pump station voltage

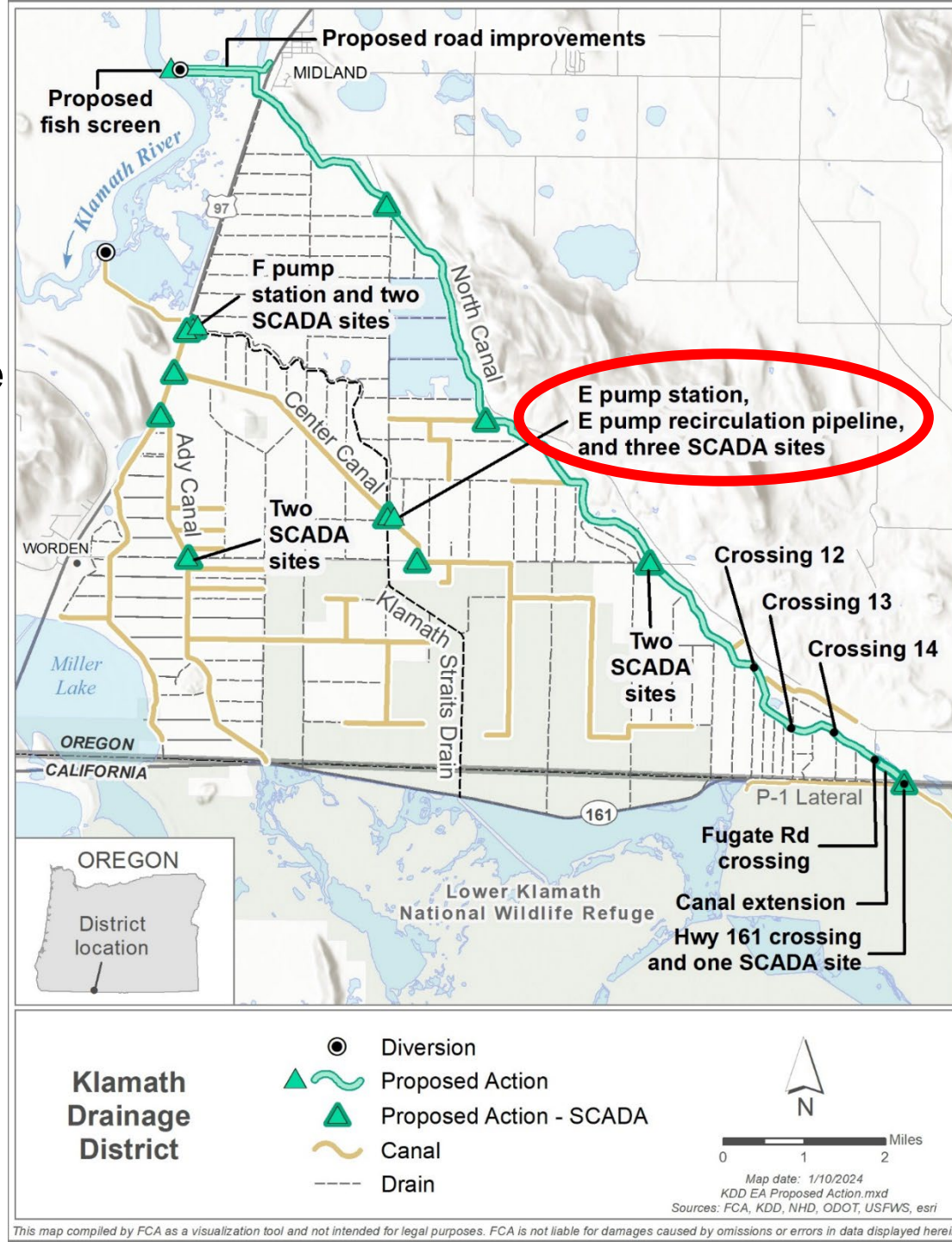


This map compiled by FCA as a visualization tool and not intended for legal purposes. FCA is not liable for damages caused by omissions or errors in data displayed herein.

Project Group 5

E Pump Recirculation Pipeline

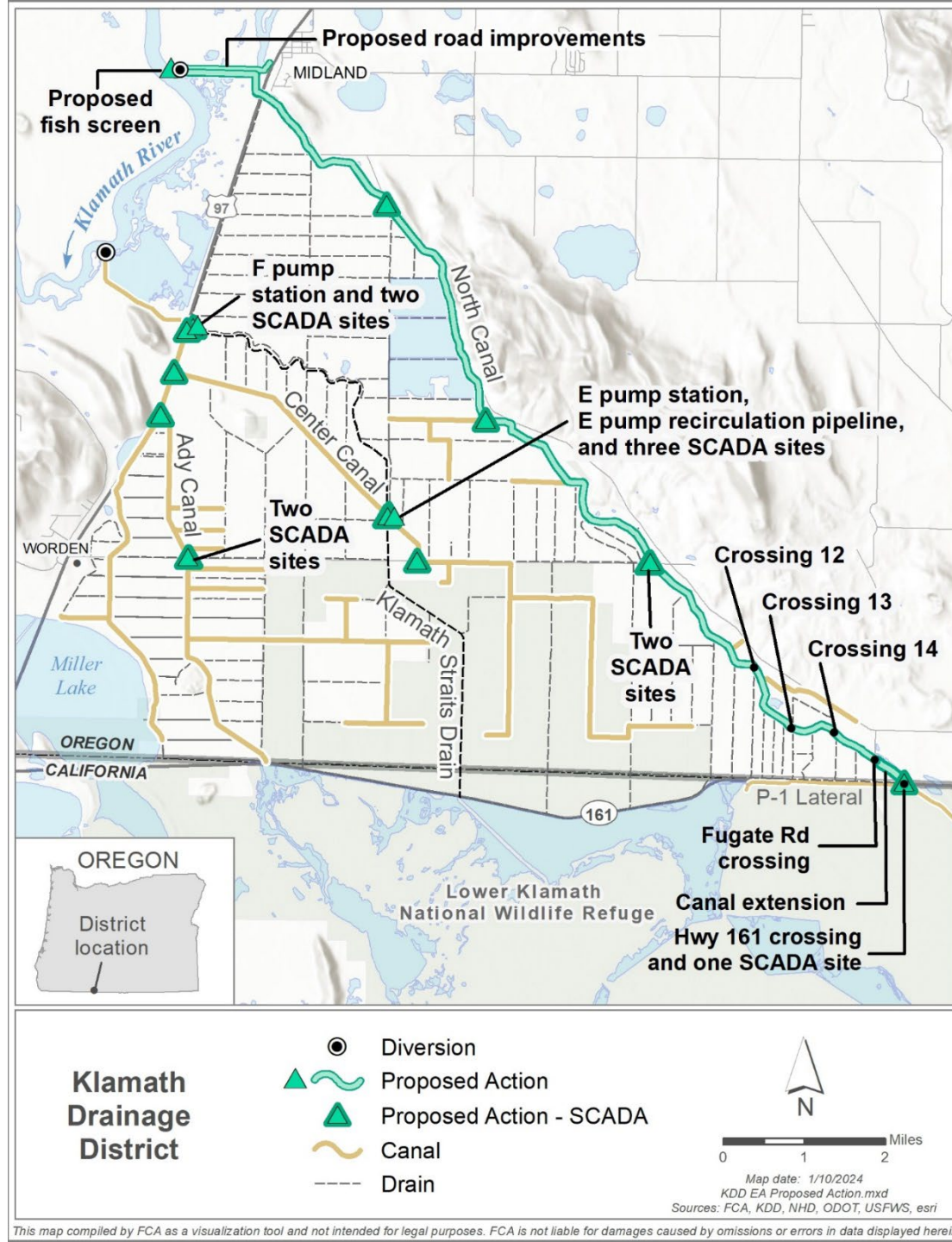
- Install pipeline from westernmost pump at E Plant
- Manifold would allow for pumping into KSD or Center Canal



Project Group 6

Upgraded Turnouts

- Each District turnout would be upgraded with flow monitoring capabilities and be connected to the SCADA system



What This Project Would Achieve

- Reduce fish entrainment in North Canal and associated lateral system
- Improve irrigation water management and enhance water supply reliability
- Increase control of KSD and reduce tailwater discharge to the Klamath River for water quality improvement
- Increase critical wildlife habitat by creating a point of delivery for the LKNWR



Plan-EA Resource Analysis

- Cultural Resources
- Fish and Aquatic Resources
- Land Use
- Socioeconomic Resources
- Soils
- Vegetation
- Water Resources
- Wetlands and Riparian Areas
- Wildlife Resources



Preferred Alternative

Construction Timeline: **3 years**

Total Cost: **\$16,878,000**

Project Group	Construction Years	PL-566 Funds	Nonfederal Funds	Total
PG 1: North Canal Improvements	0	\$677,000	\$250,000	\$927,000
PG 2: SCADA System	0	\$351,000	\$110,000	\$461,000
PG 3: Screen North Canal Diversion	1-2	\$8,269,000	\$2,693,000	\$10,962,000
PG 4: E and F Pumping Plants	2	\$2,915,000	\$914,000	\$3,829,000
PG 5: E Pump Recirculation	2	\$496,000	\$176,000	\$671,000
PG 6: Upgraded Turnouts	1	\$22,000	\$6,000	\$28,000
Total Project	N/A	\$12,729,000	\$4,149,000	\$16,878,000

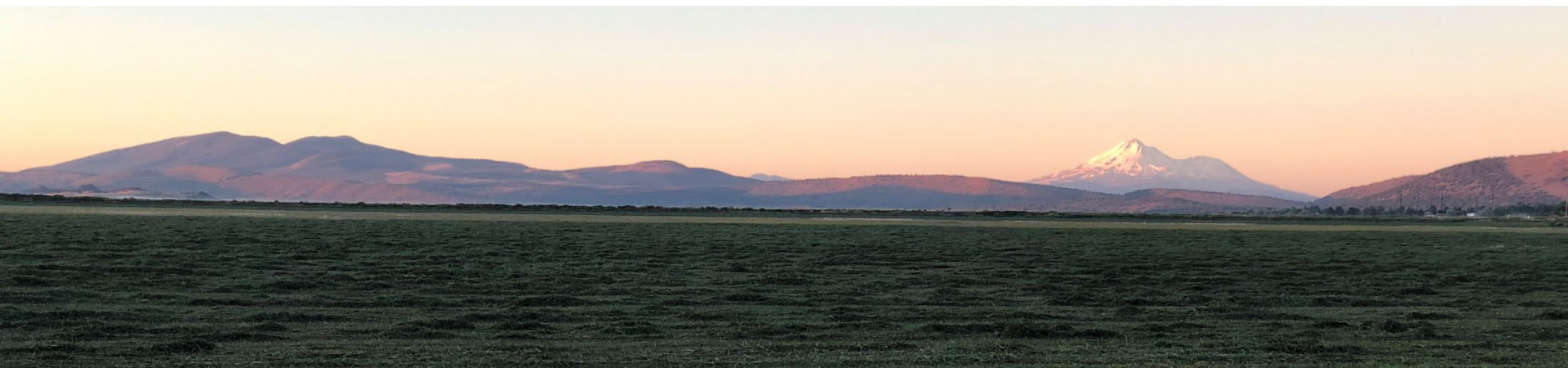
We Would Like Your Comments

- Your input helps NRCS make informed decisions
- **Formal comments must be submitted in writing (letter, email, website) or by phone**
- Your comment will be included in the Final Plan-EA



Commenting Suggestions

- Comments must be specific to KDD's project
- Accuracy, methodology, assumptions, information used for analysis
- Errors and omissions
- Range of alternatives included
- NEPA and NRCS requirements



Comment Period Ends November 15, 2024

Opportunities to Submit Formal Comment

- Online: watershedplans.org/klamath-dd
- Email: klamathdd.comments@gmail.com
- Phone: (541) 716-6085
- Mail: Attn: KDD Watershed Plan
Farmers Conservation Alliance
102 State St.
Hood River, OR 97031

