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## Zone A Pump Station and Transmission Main Project RFP Addendum #1

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**Project Description:**

RFP to for work which includes the following general scope items:

1. Facility 20 – Zone A Pump Station. Located at the Paradise Water Treatment Plant. Pulls water from the Treated Water Storage Tank (TWIST) and pumps through the new Zone A Transmission Main to the existing A-Zone distribution system near Reservoir A.
2. Facility 25 – Pump Station 2 – Installation of piping and valves which allow for the backfeed of B-Zone from A-Zone if necessary.
3. Facility 30 – Zone A Transmission Main. Approximately 7350-ft of 16” PVC C900 or Ductile Iron water transmission main installed in Pine Needle Drive, Skyway and New Skyway with the majority of the pipeline in New Skyway. The work in New Skyway will involve traffic control, and diversion of traffic using Skyway.

**For:**

Paradise Irrigation District  
6332 Clark Rd  
Paradise CA 95969

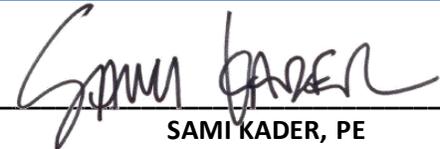
**Proposals Due:**

1:00 pm, Thursday February 23, 2023

**Mandatory Pre-Bid Meeting:** 10:00 am, Tuesday January 31, 2023

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APPROVED: \_\_\_\_\_



SAMI KADER, PE  
Project Manager  
[samik@wwengineers.com](mailto:samik@wwengineers.com)  
530-355-7646

**DATE ISSUED:** 19 Jan 2023

The following changes, additions and/or deletions are hereby made a part of the Documents for the Construction of the PARADISE IRRIGATION DISTRICT ZONE A PUMP STATION AND TRANSMISSION MAIN PROJECT – JOB NUMBER 17-041 as fully and completely as if the same were fully set forth therein:

1. **Night work is no longer required for this project.** Specification Section 01110, DESCRIPTION OF WORK, **DELETE** the following:

Paragraph 1.1.C.3. *Location and Description of Work*

3. Facility 30 – Zone A Transmission Main. Approximately 7350-ft of 16” PVC C900 or Ductile Iron water transmission main installed in Pine Needle Drive, Skyway and New Skyway with the majority of the pipeline in New Skyway. The work in New Skyway will involve traffic control, and diversion of traffic using Skyway, ~~and night work.~~
2. Drawing G-4 (Sheet 4), ADDITIONAL NOTES FOR WORK ON NEW SKYWAY, **CHANGE** Notes 1 and 4 as follows:

### **ADDITIONAL NOTES FOR WORK ON NEW SKYWAY:**

- ~~1. FOR ALL CONSTRUCTION ON NEW SKYWAY WORK HOURS ARE TO BE FROM 8:00 PM TO 6:00 AM, SUNDAY THROUGH THURSDAY.~~
2. TRAFFIC CONTROL PLAN TO BE PROVIDED BY CONTRACTOR AND SUBMITTED TO OWNER AND BUTTE COUNTY FOR APPROVAL. THE PLAN SHALL GENERALLY TO USE OLD SKYWAY FOR SOUTHBOUND TRAFFIC AND THE SOUTHBOUND LANE OF NEW SKYWAY FOR NORTHBOUND TRAFFIC WHILE WORK IS BEING COMPLETED IN THE NORTHBOUND LANE OF NEW SKYWAY. SOUTHBOUND TRAFFIC DIVERSION TO OLD SKYWAY SHALL OCCUR AT COUTOLENC ROAD AND SOUTHBOUND TRAFFIC TO REJOIN NEW SKYWAY AT PENTZ ROAD. NORTHBOUND TRAFFIC TRANSITION TO SOUTHBOUND LANE SHALL OCCUR AT PENTZ ROAD AND REJOIN NORTHBOUND LANE AT COULTOLENC ROAD
3. FOR TEMPORARY TRENCH PLATING ON NEW SKYWAY, CONTRACTOR TO USE CLSM/CDF BACKFILL AND TEXTURED PLATES THAT ARE FLUSH WITH THE SURROUNDING PAVEMENT. PLATES WILL ONLY BE ALLOWED FOR 20-FT MAXIMUM LENGTH, TOTAL.
4. ~~SLURRY/CLSM BACKFILL OF PIPE TRENCH WILL BE BROUGHT UP FLUSH WITH ROAD SURFACE EACH DAY NIGHT WITH THE LAST SLURRY PLACEMENT COMPLETE 2 HOURS BEFORE THE END OF SHIFT (LAST PLACEMENT BY 3:00 AM).~~ SLURRY/CLSM BACKFILL OF PIPE TRENCH WILL BE BROUGHT UP FLUSH WITH ROAD SURFACE EACH DAY WITH THE LAST SLURRY PLACEMENT COMPLETE 2 HOURS BEFORE THE END OF SHIFT (LAST PLACEMENT BY 3:00 AM). CLSM MIX DESIGN SHALL INCLUDE ADMIXTURES TO PROVIDE 50-PSI STRENGTH SET IN THAT 2 HOUR TIMEFRAME TO BE SAFE FOR TRAFFIC USE.
5. CONTRACTOR TO COMPLETE ALL WORK IN NEW SKYWAY, FROM STATION 23+19.30 TO 70+00 PRIOR TO JUNE 1, 2023. NO REPAVING WILL BE REQUIRED FOR THIS SEGMENT OF PIPELINE IF IT IS COMPLETED PRIOR TO JUNE 1, 2023 - SLURRY/CLSM FILL TO ROAD SURFACE MAY REMAIN FOR THE BUTTE COUNTY REPAVING PROJECT WHICH WILL OCCUR IN THIS AREA IMMEDIATELY FOLLOWING COMPLETION OF THE PIPELINE INSTALLATION.

3. Several specification sections were inadvertently not included in the project specifications. See attached specification sections 00322, 00323, 00329, 00830A and 01135S to be added to the project.
4. To allow more time to comply with Good Faith Effort requirements of Specification Section 00830, **the Bid Opening date is being changed to 2/23/23.** Specification Section 0080, ADVERTISEMENT FOR BIDS, **CHANGE** the following:

Paragraph 1, **CHANGE** “February 14, 2023” to “February 23, 2023”

**Section 00322**



(Required to Accompany Bid)

**Disadvantaged Business Enterprise (DBE) Program  
DBE Subcontractor Performance Form**

This form is intended to capture the DBE<sup>1</sup> subcontractor's<sup>2</sup> description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity	

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
DBE Certified By: <input type="checkbox"/> DOT <input type="checkbox"/> SBA <input type="checkbox"/> Other: _____		Meets/exceeds EPA certification standards? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Unknown

<sup>1</sup> A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

<sup>2</sup> Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

Subcontractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

**FORM 4500-3 (DBE Subcontractor Performance Form)**



**Section 00323**

(Required to Accompany Bid)

**Disadvantaged Business Enterprise (DBE) Program  
DBE Subcontractor Utilization Form**

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE<sup>1</sup> subcontractor's<sup>2</sup> and the estimated dollar amount of each subcontract. A Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Issuing/Funding Entity			

I have identified potential DBE certified subcontractors. ___ YES ___ NO If yes, please complete the table below. If no, please explain:			
<b>Subcontractor Name/ Company Name</b>	<b>Company Address / Phone / Email</b>	<b>Estimated Dollar Amount</b>	<b>Currently DBE Certified?</b>

--Continue on back if needed--

<sup>1</sup> A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.  
<sup>2</sup> Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

**FORM 4500-4 (DBE Subcontractor Utilization Form)**

Revised 12/2016

**DRUG-FREE WORKPLACE CERTIFICATION**

STD. 21 (REV. 12-93)

(Required to Accompany Bid)

**CERTIFICATION**

*I, the official named below, hereby swear that I am duly authorized legally to bind the contractor or grant recipient to the certification described below. I am fully aware that this certification, executed on the date below, is made under penalty of perjury under the laws of the State of California.*

CONTRACTOR/BIDDER FIRM NAME	FEDERAL ID NUMBER
BY (Authorized Signature) 	DATE EXECUTED
PRINTED NAME AND TITLE OF PERSON SIGNING	TELEPHONE NUMBER (Include Area Code) (     )
TITLE	
CONTRACTOR/BIDDER FIRM'S MAILING ADDRESS	

The contractor or grant recipient named above hereby certifies compliance with Government Code Section 8355 in matters relating to providing a drug-free workplace. The above named contractor or grant recipient will:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a).
2. Establish a Drug-Free Awareness Program as required by Government Code Section 8355(b), to inform employees about all of the following:
  - (a) The dangers of drug abuse in the workplace,
  - (b) The person's or organization's policy of maintaining a drug-free workplace,
  - (c) Any available counseling, rehabilitation and employee assistance programs, and
  - (d) Penalties that may be imposed upon employees for drug abuse violations.
3. Provide as required by Government Code Section 8355(c), that every employee who works on the proposed contract or grant:
  - (a) Will receive a copy of the company's drug-free workplace policy statement, and
  - (b) Will agree to abide by the terms of the company's statement as a condition of employment on the contract or grant.
4. At the election of the contractor or grantee, from and after the "Date Executed" and until \_\_\_\_\_<sup>(DATE)</sup> (NOT TO EXCEED 36 MONTHS), the state will regard this certificate as valid for all contracts or grants entered into between the contractor or grantee and this state agency without requiring the contractor or grantee to provide a new and individual certificate for each contract or grant. If the contractor or grantee elects to fill in the blank date, then the terms and conditions of this certificate shall have the same force, meaning, effect and enforceability as if a certificate were separately, specifically, and individually provided for each contract or grant between the contractor or grantee and this state agency.

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**Disadvantaged Business Enterprise (DBE) Program  
DBE Subcontractor Participation Form**

A Financial Assistance Agreement Recipient must require its prime contractors to provide this form to its DBE subcontractors. This form gives a DBE<sup>1</sup> subcontractor<sup>2</sup> the opportunity to describe work received and/or report any concerns regarding the funded project (e.g., in areas such as termination by prime contractor, late payments, etc.). The DBE subcontractor can, as an option, complete and submit this form to the DBE Coordinator at any time during the project period of performance.

Subcontractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity	

Contract Item Number	Description of Work Received from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Amount Received by Prime Contractor

<sup>1</sup> A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

<sup>2</sup> Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

Please use the space below to report any concerns regarding the above funded project:

Subcontractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

**Send completed Form 4500-2 to:**  
Mr. Joe Ochab, DBE Coordinator  
US EPA, Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

**FORM 4500-2 (DBE Subcontractor Participation Form)**

## 5. Mitigation Monitoring and Reporting Program

This chapter comprises the Mitigation Monitoring and Reporting Program (MMRP) for the Paradise Irrigation District Zone A Pump Station, Transmission Main, and Reservoir B Replacement Project (project). The purpose of this MMRP is to memorialize the mitigation responsibilities of PID in implementing the proposed project. The mitigation measures listed herein are required by law or regulation and will be adopted by PID as part of the overall project approval. Mitigation is defined by the California Environmental Quality Act (CEQA) – Section 15370 as a measure that

- avoids the impact altogether by not taking a certain action or parts of an action;
- minimizes impacts by limiting the degree or magnitude of the action and its implementation;
- rectifies the impact by repairing, rehabilitating, or restoring the impacted environment;
- reduces or eliminates the impact over time by preservation and maintenance operations during the life of the project; or
- compensates for the impacts by replacing or providing substitute resources or environments.

Mitigation measures provided in this MMRP have been identified in Chapter 3, Environmental Setting, Impacts, and Mitigation Measures of the Initial Study (IS)/Mitigated Negative Declaration (MND) and are considered feasible and effective in mitigating project-related environmental impacts.

This MMRP includes discussions of the following: legal requirements, intent of the MMRP; development and approval process for the MMRP; the authorities and responsibilities associated with implementation of the MMRP; a method of resolution of noncompliance complaints; and a summary of monitoring requirements.

**Legal Requirements:** The legal basis for the development and implementation of the MMRP lies within CEQA (including the California Public Resources Code). Sections 21002 and 21002.1 of the California Public Resources Code state:

- Public agencies are not to approve projects as proposed if there are feasible alternatives or feasible mitigation measures available that would substantially lessen the significant environmental effects of such projects.
- Each public agency shall mitigate or avoid the significant effects on the environment of projects that it carries out or approves whenever it is feasible to do so.

Section 21081.6 of the California Public Resources Code further requires that:

- The public agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation.

- The monitoring program must be adopted when a public agency makes its findings under CEQA so that the program can be made a condition of project approval in order to mitigate significant effects on the environment. The program must be designed to ensure compliance with mitigation measures during project implementation to mitigate or avoid significant environmental effects.

**Intent of the Mitigation Monitoring and Reporting Program:** The MMRP is intended to satisfy the requirements of CEQA as they relate to the project. It will be used by PID staff, participating agencies, project contractors, and mitigation monitoring personnel during implementation of the project. The primary objective of the MMRP is to ensure the effective implementation and enforcement of adopted mitigation measures and permit conditions. The MMRP will provide for monitoring of construction activities as needed, onsite identification and resolution of environmental problems, and proper reporting to lead agency staff.

**Development and Approval Process:** The timing elements for implementing mitigation measures and the definition of the approval process are provided in detail throughout this MMRP to assist PID staff by providing the most usable monitoring document possible.

**Authorities and Responsibilities:** PID, functioning as the CEQA Lead Agency, will have the primary responsibility for the execution and proper implementation of the MMRP and will be responsible for the following activities:

- coordination of monitoring activities
- maintenance of records concerning the status of all approved mitigation measures

PID, as implementing agency, is responsible for implementing the mitigation measures by incorporating them into the project specifications (contract documents) and enforcing the conditions of the contract in the field during construction. Some pre- and post-construction activities may be implemented directly by PID.

**Resolution of Noncompliance Complaints:** Any person or agency may file a complaint that alleges noncompliance with the mitigation measure(s) adopted as part of the approval process for the proposed project. The complaint shall be directed to PID, Mr. Jim Passanisi (6332 Clark Road, Paradise, CA 95969), in written form describing the purported violation in detail. PID shall conduct an investigation and determine the validity of the complaint. If noncompliance with a mitigation measure is verified, PID shall take the necessary action(s) to remedy the violation. Complaints shall be responded to in writing including descriptions of PID's investigation findings and the corrective action(s) taken, if applicable.

**Summary of Monitoring Requirements:** Following this discussion are the mitigation measures and associated monitoring requirements for the proposed project. The mitigation measures are organized by environmental issue area (i.e., Air Quality, Biological Resources, etc.) and consist of the following:

- Mitigation Measure(s): lists the mitigation measure(s) identified for each potentially significant impact discussed in the IS/MND. The same mitigation numbering system used in the IS/MND is carried forward in this MMRP.

- **Timing/Implementation:** Indicates at what point in time or project phase the mitigation measure will need to be implemented.
- **Enforcement:** Indicates which agency or entity is responsible for enforcement of the mitigation measure(s).
- **Monitoring:** Indicates which agency or entity is responsible for implementing and monitoring each mitigation measure.
- **Verification:** Provides a space to be signed and dated by the individual responsible for verifying compliance with each mitigation measure.

## 5.1 Conservation Measures

PID is committed to implementing the following conservation measures during construction of the Paradise Irrigation District Zone A Pump Station, Transmission Main, and Reservoir B Replacement Project:

### Conservation Measure #1—Air Pollution and Dust Control

Air pollution control would conform to all applicable air pollution control rules, regulations, ordinances, and statutes. Dust would be controlled during construction activities and subsequent operation of the project. Dust controls may include, but would not be limited to the following elements, as appropriate:

- Pursuant to California Vehicle Code (Section 23114) (California Legislative Information 2016), all trucks hauling soil and other loose material to and from the construction site shall be covered or shall maintain at least 6 inches of freeboard (i.e., minimum vertical distance between top of load and the trailer).
- Any soils that are removed during construction shall be stored onsite in piles not to exceed 4 feet in height. These spoil piles shall be clearly marked and flagged. Spoil piles that will not be immediately returned to use shall be revegetated with a non-persistent erosion control mixture.
- Equipment and manual watering shall be conducted on all stockpiles, dirt/gravel roads, and exposed or disturbed soil surfaces, as necessary, to reduce airborne dust.
- PID or its contractor shall designate a person to monitor dust control and to order increased watering as necessary to prevent transport of dust offsite. This person shall also respond to any citizen complaints.

### Conservation Measure #2—Naturally Occurring Asbestos

If ultramafic rocks (e.g., serpentinite) or soils derived from ultramafic rocks are encountered during project design exploration or during construction, then testing for the presence of naturally occurring asbestos (NOA) shall be performed using randomized multi-increment sampling methods. If NOA concentrations are found to exceed established thresholds (California Geological Survey 2002), then

mitigation measures shall be implemented to reduce the potential of inducing NOA to become airborne. In addition to *Conservation Measure #1—Air Pollution and Dust Control*, the following measure has been incorporated into the proposed project to minimize the potential for adverse impacts in the event that NOA concentrations are found to exceed established thresholds.

- NOA-bearing soils and rock materials excavated during project activities shall be entombed as artificial fills within excavations (e.g., pipeline trench or suitable off-site disposal).

### **Conservation Measure #3—Water Pollution Prevention**

The project has been designed to avoid impacts on U.S. Army Corps of Engineers (Corps) jurisdictional features (i.e., waters of the United States). The following BMPs have been incorporated into the proposed project to avoid and minimize the potential for adverse direct and indirect effects on water quality.

- Activities that increase the erosion potential within the project area shall be restricted to the relatively dry summer and early fall period (approximately May 15 to October 15) to the maximum extent practicable to minimize the potential for rainfall events to transport sediment to surface water features. If construction activities must take place during the late fall, winter, or spring, then temporary erosion and sediment control structures must be in place and operational at the end of each construction day and maintained until the completion of the project.
- Within 10 days of completion of construction, weed-free mulch shall be applied to disturbed areas in order to reduce the potential for short-term erosion. Prior to a rain event or when there is greater than 50 percent possibility of rain forecasted by the National Weather Service during the next 24 hours, weed-free mulch, tarps, or geotextile fabrics shall be applied to all exposed areas upon completion of the day's activities. Soils shall not be left exposed during the rainy season.
- Suitable BMPs, such as silt fences, straw wattles, or catch basins, shall be placed below all construction activities at the edge of surface water features to intercept sediment before it reaches the waterway. These structures shall be installed prior to any clearing or grading activities.
- If spoil sites are used, they shall be located such that they do not drain directly into a surface water feature, if possible. If a spoil site drains into a surface water feature, catch basins shall be constructed to intercept sediment before it reaches the feature. Spoil sites shall be graded and vegetated to reduce the potential for erosion.
- Sediment control measures shall be in place prior to the onset of the rainy season (or no later than October 15) and will be monitored and maintained in good working condition until vegetation becomes established within the disturbed areas.
- Fueling construction equipment shall be done at a fixed fueling station to reduce the area exposed to the potential for fuel spills.

- Secondary containment, such as a drain pan or drop cloth, shall be used to catch spills or leaks when removing or changing fluids.
- Spill containment materials shall be kept onsite at all times to contain any accidental spill.
- Absorbent materials shall be used on small spills rather than hosing down or burying the spill. The absorbent material shall be promptly removed and disposed of properly.
- Onsite vehicles and equipment shall be regularly inspected for leaks and repaired immediately.
- If vehicle and equipment maintenance must occur onsite, it shall be done in designated areas, located away from drainage courses, to prevent the run-on of storm water and the run-off of spills.
- Equipment and materials shall be stored at least 50 feet away from surface water features.
- PID is responsible for compliance with applicable federal, state, or local laws or ordinances and shall obtain authorization from all applicable regulatory agencies.

#### **Conservation Measure #4—Greenhouse Gas Emissions**

PID shall include provisions in the construction bid documents to minimize project-related greenhouse gas emissions. The following measures shall be implemented to reduce construction-related greenhouse gas emissions:

- Reuse and recycle construction and demolition waste, including, but not limited to soil, vegetation, concrete, lumber, metal, and cardboard.
- Ensure that the project enhances, and does not disrupt or create barriers to, non-motorized transportation (e.g., bicycles, pedestrians) through proper pre-construction planning.
- Protect existing trees to the extent possible and encourage the planting of new trees.

#### **Conservation Measure #5—Wildfire Potential**

PID shall include the following measure in the construction bid documents to minimize project-related potential for wildfire ignition:

- Per the requirements of Public Resources Code Section 4442, PID shall include a note on all construction plans that internal combustion engines shall be equipped with an operational spark arrester, or the engine must be equipped for the prevention of fire.

#### **Conservation Measure #6—Prevention of Spread of Invasive Species**

The following avoidance and minimization measures are recommended during project construction to reduce the potential spread of invasive species:

- All equipment used for construction activities off of paved surfaces will be weed-free prior to entering the project site.
- If project implementation calls for mulches or fill, they will be weed free.
- Any invasive plant species removed during construction will be properly disposed of to ensure the species does not spread to other areas.

## 5.2 Mitigation Measures

PID is committed to implementing the following mitigation measures during construction of the Paradise Irrigation District Zone A Pump Station, Transmission Main, and Reservoir B Replacement Project:

### 5.2.1 Biological Resources

#### Mitigation Measure #1—Bats

The following avoidance and minimization measures are recommended to avoid the potential for project-related impacts on pallid bats:

- A pre-construction survey for roosting bats should be conducted prior to the demolition of any buildings or removal of trees or snags with a diameter at breast height of 12 inches or greater. The survey should be conducted by a qualified biologist and should occur no more than one week prior to demolition or tree removal work. If a maternity or hibernacula roost is found, the biologist in coordination with CDFW, will determine the extent of a construction free buffer zone around the roost. The buffer will remain in place until the bats are no longer dependent on the roost and have vacated the roost site.

<b>Timing/Implementation:</b>	Prior to and during construction
<b>Enforcement:</b>	CDFW, PID
<b>Monitoring:</b>	PID and its contractor

**Verification (sign and date):** \_\_\_\_\_

#### Mitigation Measure #2—Migratory Birds and Raptors

The following measures shall be implemented to avoid or minimize the potential for adverse impacts on nesting migratory birds and raptors:

- Project activities shall be scheduled to avoid the nesting season to the extent feasible. The typical nesting seasons in northern California extends from February 1 through August 31. Thus, if project activities can be scheduled to occur outside of the nesting season, no impacts would be expected. If the nesting season cannot be completely avoided, the following measures shall be implemented.
  - A qualified biologist shall conduct a minimum of one pre-construction survey for nesting migratory birds and raptors within the project area and a 250-foot buffer around the

project area. Preconstruction surveys shall be conducted no more than seven days prior to the start of activities or the re-start of temporarily suspended construction, vegetation removal, or ground disturbance activities in any given area. Preconstruction surveys shall be used to ensure that no active bird nests occurring within or immediately adjacent to the project will be disturbed during project implementation. If an active nest is found, a qualified biologist shall determine the extent of a construction-free buffer zone to be established around the nest. If it is anticipated that project activities will encroach on the buffer, a biological monitor will be present to ensure that the nesting birds are not disturbed by the activities.

- If vegetation is to be removed by the project and all necessary approvals have been obtained, potential nesting substrates (e.g., trees and shrubs) that will be removed by the project shall be removed before the onset of the nesting season, if feasible. This will help preclude nesting and substantially decrease the likelihood of direct impacts.

**Timing/Implementation:** Prior to and during construction  
**Enforcement:** CDFW, PID  
**Monitoring:** PID and its contractor

**Verification (sign and date):** \_\_\_\_\_

## 5.2.2 Cultural Resources

### Mitigation Measure #3—Cultural Resources

PID shall include provisions in the construction bid documents to minimize project impacts on cultural resources. The following measure shall be implemented to avoid construction-related impacts on cultural resources:

- If any unanticipated archaeological finds are made in the APE that are considered to be significant, a number of methods shall be used to mitigate potential adverse effects. Avoidance through project redesign or some method of preservation is the preferred method. If redesign or preservation is not an option, it is recommended that any potential adverse effects on unanticipated finds be mitigated through data recovery, although actual mitigation would be determined through consultation with the SHPO under the NHPA. It is also recommended that local Native American groups be consulted and their input solicited and considered in all aspects of such testing and mitigation.

**Timing/Implementation:** During construction  
**Enforcement:** NAHC, PID  
**Monitoring:** PID and its contractor

**Verification (sign and date):** \_\_\_\_\_

## Mitigation Measure #4—Human Remains

PID shall include provisions in the construction bid documents to minimize project impacts on cultural resources. The following measure shall be implemented to avoid construction-related impacts on inadvertently discovered human remains:

- If human remains are found, the California Health and Safety Code requires that excavation be halted in the immediate area and that the Butte County coroner be notified to determine the nature of the remains. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (California Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she must contact the NAHC by telephone within 24 hours of making that determination (California Health and Safety Code Section 7050.5[c]).

**Timing/Implementation:** During construction  
**Enforcement:** NAHC, PID  
**Monitoring:** PID and its contractor

**Verification (sign and date):** \_\_\_\_\_