

COASTAL PROTECTION AND RESTORATION AUTHORITY (CPRA)

SCOPE OF SERVICES

**MAINTENANCE OF EQUIPMENT
FOR
SABINE REFUGE MARSH CREATION PROJECT (CS-28-2) CYCLE II
PERMANENT PIPELINE**

I. INTRODUCTION

The Sabine Refuge Marsh Creation Project (CS-28-2) Cycle II Permanent Pipeline was approved on the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) Eighth Priority Project List. The Sabine Refuge Marsh Creation Project Cycle II consists of approximately 3.54 miles of twenty-nine (29) inches inside diameter permanent pipeline, with two (2) fenced in temporary booster pump connections, and two (2) flanged end risers. The location of the pipeline is immediately south of the Hackberry community in Cameron Parish and runs perpendicular to LA State Highway 27, commencing near Mile 13.3 of the Calcasieu River Ship Channel and terminating at the northeastern corner of the Sabine National Wildlife Refuge. The project features are shown on Page 6.

The permanent pipeline is to be utilized in the transport of dredged material for additional cycles of marsh creation on the Sabine National Wildlife Refuge in conjunction with the USACE maintenance dredging of the Calcasieu River Ship Channel. The pipeline is also available for other parties to pump into for beneficially used or dedicated dredging projects in the area.

The Coastal Protection and Restoration Authority (CPRA) along with the U.S. Dept. of Interior, Fish and Wildlife Service (FWS) and the U.S. Army, Corps of Engineers (USACE) are providing financial and technical support for operating the Sabine Refuge Marsh Creation Project (CS-28-2) Cycle II Permanent Pipeline. Proper maintenance is essential in achieving the long-term benefits envisioned and prescribed in the Operation and Maintenance Agreement. The objective of this scope is to carry out the maintenance measures necessary for the project.

II. CONTRACT TERM

The term of this contract will be for one (1) year, with an option to renew at the same price, terms and conditions for two (2) additional twelve (12) month periods not to exceed a total of thirty-six (36) months. The anticipated start date of this contract is January 1, 2024.

III. LAND OWNER REQUIREMENTS

The constructed components of this project are located on rights-of-way currently held by CPRA, the United States of America, and partially on the Sabine National Wildlife Refuge.

The Contractor will be instructed on ingress and egress locations into the pipeline corridor off of LA Hwy 27 for grass cutting purposes using amphibious equipment. The two (2) above ground booster pump locations can be accessed from LA Hwy 27 and Maggie Hebert Road. (See Project Features Location & Description, Page 7)

IV. ITEMS OF WORK

A. General Information

1. Contractor will provide mobilization to and from the Pipeline Corridor and Temporary Pumping Facility locations. No separate payment will be made for Mobilization and Demobilization. (See Project Features Location & Description, Page 7)
2. The Contractor will furnish all the necessary personnel and equipment including water transportation (if needed), to properly maintain the project in accordance with the instructions of the CPRA Project O&M Manager and as outlined in this scope of services.
3. The Contractor is required to have general knowledge and experience in using mechanical equipment, painting and general labor.
4. Approximately one percent (1%) of the pipeline is above ground.
5. Airboats will be allowed for navigation and access within the pipeline corridor, but not for maintenance of the vegetation.
6. No underwater mowing is required.
7. Spraying of weeds/vegetation is only allowed inside the two Temporary Pumping Facility locations within the fenced area.
8. Should anything unforeseen work develop, it would be addressed through a separate negotiated change order, purchase order or bid advertisement. Change orders or any additional work must be approved by the Office of State Procurement prior to execution.

B. Quarterly Maintenance (Line Item No. 1)

1. Verify blind flanges on pipeline ends are installed.
2. Verify Temporary Pumping Facilities are secure. (i.e. locked gates, fence wire intact, etc.). Repair minor fence damage as necessary.
3. Verify signage is still in place and replace if necessary (Prior approval by CPRA required).
4. Remove/spray weeds inside Temporary Pumping Facilities fenced area.
5. Cut weeds around outside perimeter of fence at Temporary Pumping Facilities. (Five feet (5 ft.) extent for weed cutting around fence.)
6. Cut weeds within a thirty feet (30 ft.) wide corridor along the length of the pipeline (Fifteen feet (15 ft.) either side of the centerline) to facilitate visual inspection. (As-built plans will be provided for alignment and Contractor stakeout).
 - a. This work will be accomplished by use of small amphibious equipment capable of operating a shredder or rotary cutter and able to traverse small bodies of water and navigate through wet/marsh areas (similar to Marsh Master or other equivalent).
 - b. Contractor shall exercise care in performing this task so as to minimize damage, ruts, etc. to the existing terrain within the pipeline corridor.
 - c. Contractor shall also provide protection of the pavement on LA Hwy 27 should the amphibious equipment cross over from one side of the corridor to the other (i.e., used rubber tires, plywood, etc.). Any damage to the roadway surface shall be repaired at the contractor's expense.
 - d. Contractor shall not impede local traffic along LA Hwy 27 when loading/offloading equipment for access into the pipeline corridor. The Contractor is responsible for all safety precautions when working along the highway (i.e. traffic cones, orange vests, etc.) A flagman shall be provided to ensure traffic safety when performing this task.
 - e. Contractor shall take down any cross fences as needed to gain access into the pipeline corridor for each quarterly maintenance event. Once complete the fences shall be replaced in kind. Contractor shall be allowed to provide additional fence posts and associated hardware to make swinging gates for future access.

C. Yearly Maintenance (Line Item No. 2)

1. Check for corrosion on all above ground pipeline sections. If corrosion is present, see Section D below for repairs. (Approval from CPRA is required prior to making any coating repairs).
2. Inspect pipeline corridor for issues, such as, sinkholes, boils, etc.
3. Inspect pipeline above ground concrete saddle supports. Visually verify condition of concrete.

D. Pipeline Coating Repairs (Line Item No. 3)

The following repairs shall be performed for damage(s) to the pipeline coating. Payment for Coating Repairs will be made based on a one foot by one foot (1ft x 1ft) square area of work.

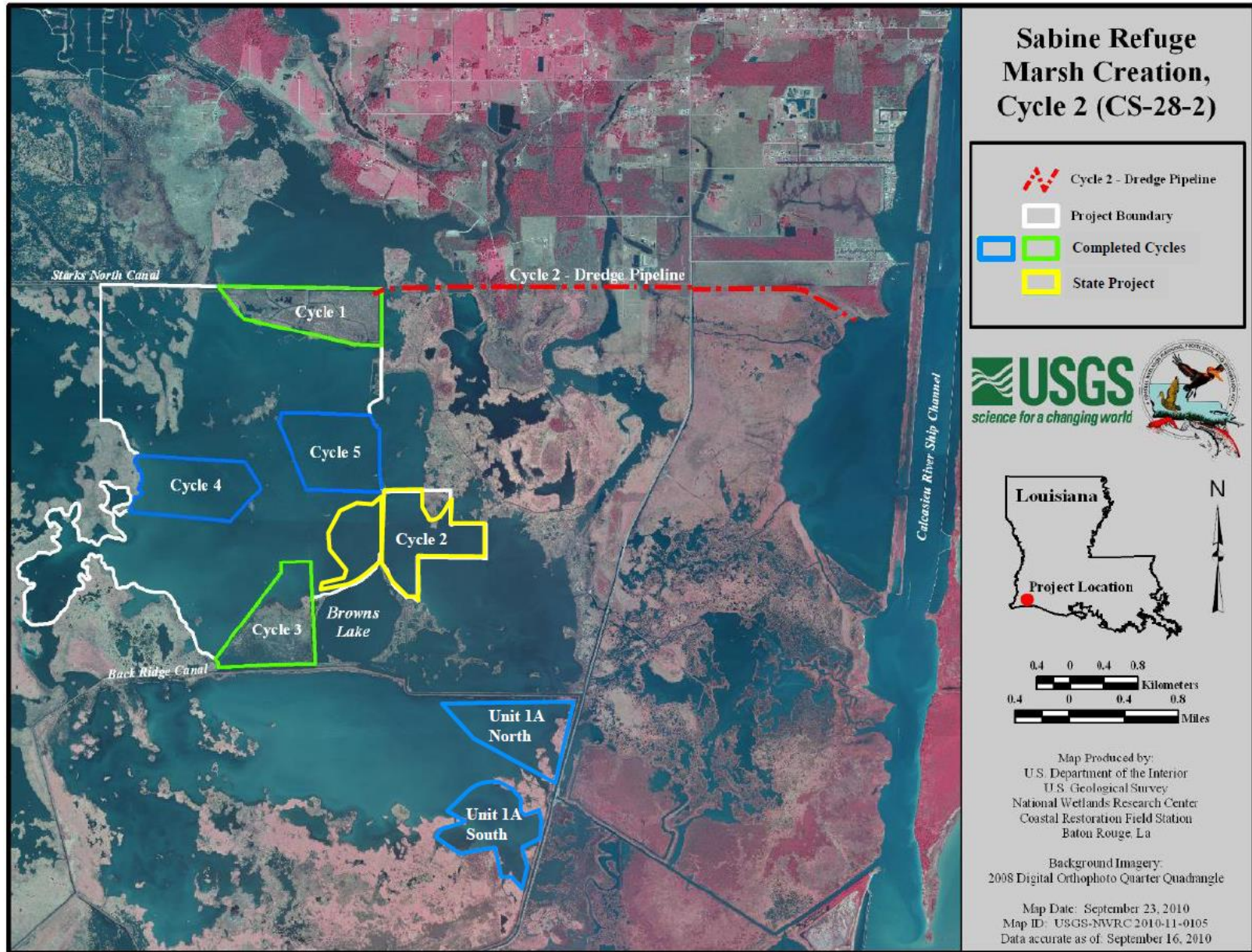
1. Clean surfaces to remove deposits of grease or oil in accordance with SSPC SP 1.
2. Seal edges where paint has been removed with appropriate thinner.
3. For areas where rusting has occurred, remove the rust either by blasting to SSPC SP 5/NACE No. 1, "White Metal Blast Cleaning" or using a "bristle blaster" to SSPC SP 11 in order to obtain a comparable white metal surface. If rusting has not occurred to damaged location(s), paint may be applied directly over the existing cleaned surface.
4. Use Formula V-766e, Vinyl-Type White (or Gray for alternating coats) paint for repairs to damaged sections. Paint shall be applied in accordance with manufacturer's recommendations in approximately one and one-half (1.5) mils coats to obtain an average minimum dry film thickness of seven and one-half (7.5) mils for the completed system, and the thickness at any point shall not be less than six (6.0) mils. Final coat shall be white in color. The specified total film thickness shall be attained in any event. Attaining the specified film thickness in fewer than the prescribed number of coats or spray passes will be acceptable provided heavier applications do not cause an increase in pinholes, bubbles, blisters, or voids in the dried film and also provided that no more than two (2.0) mils (dry film thickness) per double spray coat nor more than one (1.0) mil per single spray pass of paint shall be applied at one time.
5. Dry film thickness measurements shall be made with an instrument with an accuracy of plus or minus three percent (+/- 3%) or better. The instrument shall be calibrated and used in accordance with ASTM D 7091. It shall be calibrated using plastic shims with metal practically identical in composition and surface preparation to that being coated, and of substantially the same thickness (except that for measurements on metal thicker than one-fourth (1/4) inch, the instrument may be calibrated on metal with a minimum thickness of 1/4 inch). Frequency of measurements shall be as recommended for field measurements by ASTM D 7091

and reported as the mean for each spot determination. The instruments shall be calibrated or calibration verified prior to, during, and after each use.

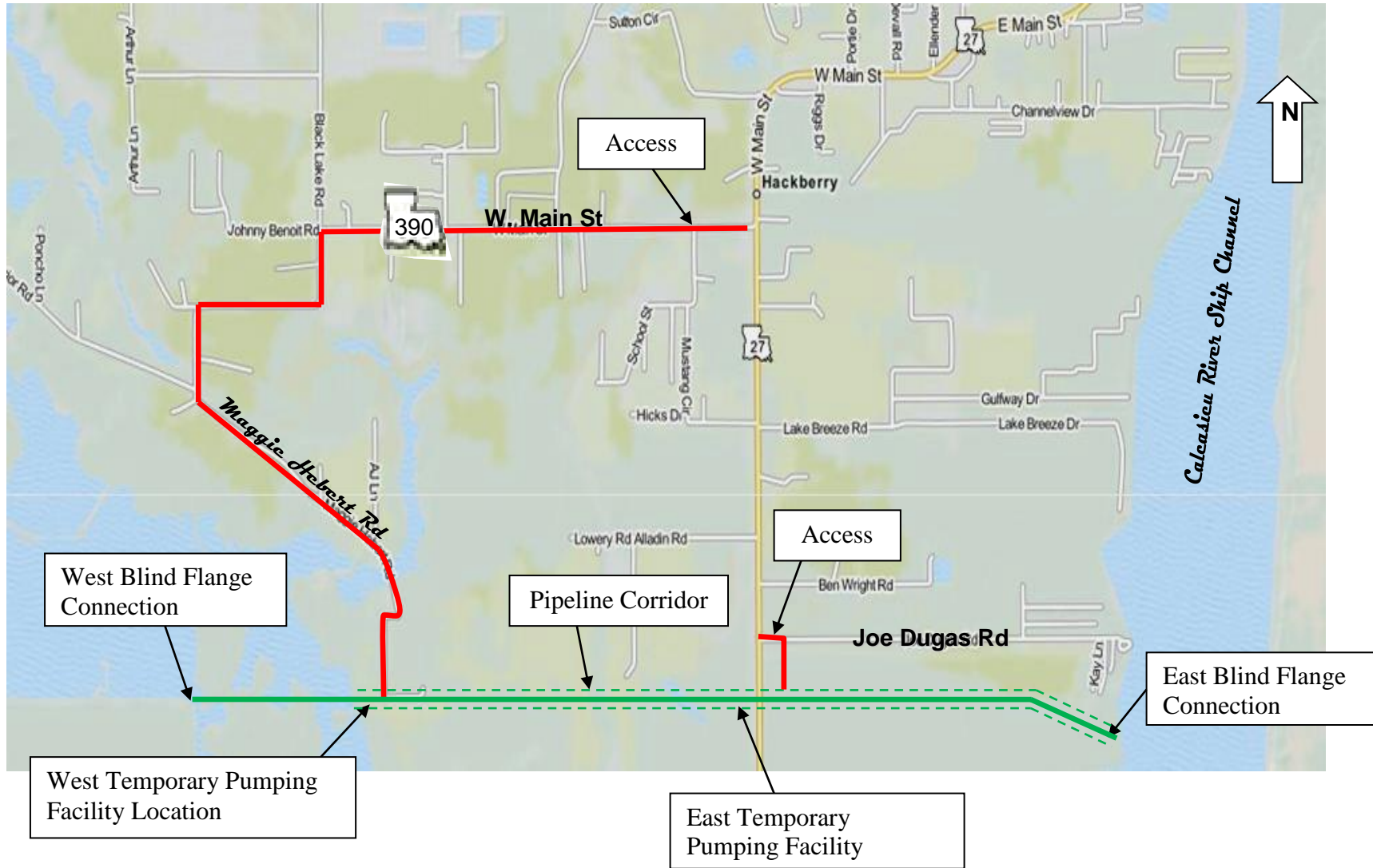
V. DELIVERABLES

The Contractor will submit Reports providing the date, a description of the type of maintenance performed during the reporting period, and digital photos of all project features. Reports are to be submitted quarterly.

PROJECT FEATURES MAP



PROJECT FEATURES LOCATION & DESCRIPTION



Temporary Pumping Facilities (Two Locations, West and East)

Each temporary pumping facility consists of a twenty-nine (29) inches inside diameter flanged pipe spool above ground with concrete saddle supports, six (6) foot chain link fence with three (3) strands of barbed wire (dimensions eighty feet by twenty feet (80 ft. x 20 ft.)), warning signs, and twelve feet (12 ft.) double gate with padlock.



West Pumping Facility



East Pumping Facility



Double Gates



Typical Signage



Pipeline Corridor (View from West Pumping Facility looking East)



Pipeline Corridor (View from East Blind Flange looking West Towards LA HWY 27)



Pipeline Corridor (View from LA HWY 27 looking East towards Ship Channel)

Blind Flange Connections (Two Locations, West and East)

Each end of pipeline consists of a twenty-nine (29) inches inside diameter long radius elbow above ground with a blind flange connection.



West End Blind Flange/Riser Pipe



East End Blind Flange/Riser Pipe



East End Blind Flange/Riser Pipe