Scope of Work (SOW)

Replace Buoys and Navigational Signage
PMIS - 328048

Scope / Statement of Work	
Task Order / Project Title:	Replace Buoys and Navigational Signage
Park / Park Unit:	Padre Island National Seashore
PMIS#:	
Prepared By:	Greg Smith
Date:	19 March 2026

1. **PROJECT DESCRIPTION / SUMMARY:**

1.1. **PATONs:** The contractor shall demolish and remove eight (8) existing damaged daybeacons (PATONs) primarily wood piles with attached daymarks and install replacements at charted positions using treated wood piles as the standard. This "in-kind" replacement restores USCG-permitted aids for boater safety, complying with 33 CFR Parts 62 and 66. Objectives include enhancing navigation for interagency operations, ensuring minimal environmental disturbance, and achieving long-term durability in marine conditions prone to borers, rot, and storm impacts.

1.2. **Windsurfing Buoys:** The contractor shall install seven (7) regulatory buoys using government-furnished helical buoy sets at designated positions in Bird Island Basin (BIB) to mark "No Boats" exclusion zones for windsurfing safety and replace one "No Wake" buoy that washed away. This includes six (6) "No Boats" buoys and one (1) "No Wake" buoy, utilizing eco-friendly helical anchors approved for sensitive seabeds in PAIS. The installation complies with USCG regulations for private aids to navigation (33 CFR Parts 62 and 66) and USACE Nationwide Permit (NWP) 1. Objectives include enhancing recreational safety, ensuring minimal environmental disturbance in sensitive coastal habitats, and providing long-term durability against tidal, wind, and storm impacts. All buoys shall be Sur-Mark regulatory buoys (white with orange horizontal bands), with appropriate signage: diamond with cross and black "NO BOATS" lettering for exclusion zones, and circle with black "NO WAKE" lettering for the controlled zone. Buoy #05 is in shallow water (1.25 ft at MSL) and may require adaptation, such as shortened elastic mooring line or removal of midline float, to ensure proper flotation and visibility; adaptations must be approved by the NPS COR prior to installation.

2. **OBJECTIVES:**

2.1. **PATONs:** Restore fully functional, USCG-permitted Private Aids to Navigation for safe navigation of law enforcement, search-and-rescue, and authorized vessels using the Boat Basin ramp. Ensure continued compliance with USCG 33 CFR Part 66 and NWP 1. Minimize environmental disturbance within sensitive coastal waters and Kemp's ridley sea turtle critical habitat.

2.2. **Windsurfing Buoys:** Establish clearly marked "No Boats" exclusion zones to protect windsurfing areas from motorized vessel intrusion, replace the lost "No Wake" buoy to maintain

speed restrictions, and ensure compliance with USCG 33 CFR Part 66 and USACE NWP 1. Minimize environmental impacts in Kemp's ridley sea turtle critical habitat and sensitive seabeds by using approved helix-type anchors (Eco Mooring System with helical anchors, elastic eco mooring lines, stainless shackles, and swivels). Achieve durable, visible markers that withstand marine conditions while supporting recreational use.

3. BACKGROUND:

3.1. **PATONs:** Originally established for oil barge traffic, these PATONs are NPS-owned and listed as "Private Aid" in USCG Light Lists, requiring maintenance per 33 CFR Part 66. Recent storm damage has led to leaning or missing markers, heightening collision risks in this intracoastal channel.

3.2. **Windsurfing Buoys:** Bird Island Basin is a popular windsurfing area within Padre Island National Seashore, requiring regulatory buoys to delineate safe zones and restrict boat access for user safety. One "No Wake" buoy has washed away due to storm activity, and six new "No Boats" buoys are needed to mark exclusion zones. These are NPS-owned private aids listed in USCG Light Lists, requiring maintenance per 33 CFR Part 66. The project falls under USACE NWP 1 for aids to navigation. Helical anchors were selected for their low-impact installation on sensitive seabeds.

4. SPECIFIC WORK / TASKS:

4.1. **Pre-Construction / Permitting (needs to be ready before PR submission)**

4.1.1. Submit USCG Form CG-2554 (Private Aids to Navigation Application) to USCG District 8 (Sector Corpus Christi) at least 30 days prior. Complete all blocks: Block 1 (Establish and Maintain or Change), Block 4 (necessity for safe channel navigation), Block 6 (USACE NWP 1 verification), Block 7 (aid details including position in NAD83, depth, dayboard shape/color/height), and attach charts/sketches showing locations. Include manufacturer data for daymarks (e.g., retro-reflective candela ratings). Sign Block 10 agreeing to hold USCG harmless. (Jonathan will work)

4.1.2. Verify no Preconstruction Notification (PCN) needed under NWP 1; if in ecologically sensitive areas, submit PCN to USACE Fort Worth District with wetland delineations and species assessments per General Condition 32. (Jonathan will work)

4.1.3. Conduct site visit with NPS COR, USCG, and biological/archeological staff to assess conditions and mark sites. (NPS POC for coordination)

4.2. **Mobilization & Site Protection**

4.2.1. PATONs:

4.2.1.1. Mobilize barge-mounted crane (spud or jack-up) with diesel hammer (15,000-20,000 foot-pounds energy) for driving.

4.2.1.2. Install turbidity curtains per NWP General Condition 12; use erosion BMPs as required by USACE NWP 1 General Conditions.

4.2.1.3. Restrict work to November 1–March 31 to avoid sea turtle nesting; provide NPS-approved monitor if extended.

4.2.2. Windsurfing Buoys:

4.2.2.1. Mobilize workboat or barge with hydraulic torque driver (submersible or mounted) for helical anchor installation.

4.2.2.2. Install turbidity curtains per NWP General Condition 12; use erosion BMPs as required by USACE NWP 1 General Conditions.

4.2.2.3. Restrict work to November 1–March 31 to avoid sea turtle nesting; provide NPS-approved monitor if extended.

4.3. **Demolition - Removal of Existing Markers**

4.3.1. PATONs:

4.3.1.1. Locate each daybeacon using provided GPS coordinates (NAD83 datum).

4.3.1.2. Use vibratory extraction or water jetting to remove piles, cutting at mudline if extraction risks excessive disturbance (COR approval required).

4.3.1.3. Recover all debris (piles, daymarks, fasteners) and dispose at approved facility per environmental regulations.

4.3.1.4. Maintain temporary buoys or markers if needed to ensure channel safety during work.

4.3.2. Windsurfing Buoys:

4.3.2.1. Locate the existing buoy position (to be provided by NPS COR) visual and using GPS coordinates (NAD83 datum).

4.3.2.2. Remove, all existing anchor assembly's to include concrete anchor.

4.3.2.3. Recover all debris and dispose at approved facility per environmental regulations.

4.3.2.4. Maintain temporary markers if needed for safety during work.

4.4. **Installation of New Daybeacons**

4.4.1. PATONs:

4.4.1.1. Inspect materials for defects prior to installation.

4.4.1.2. Furnish treated Southern Pine or Douglas Fir piles or approved equal (ASTM D25, CCA at 2.5 pcf per AWPA U1 for UC5B saltwater use), 12-inch diameter, 50-60 feet long for 8-foot embedment and 15-17 feet above MHW.

4.4.1.3. Drive with helmet and cushion block; tolerances: plumb within 0.25 inch/foot, 4-inch lateral deviation.

4.4.1.4. Attach 3x3-foot daymarks (plywood/aluminum with retro-reflective vinyl, white borders) at 30 degrees to channel; green square (SG) for odd/port, red triangle (TR) for even/starboard, 12-inch numerals.

4.4.1.5. Positions within ±5 feet of charted NAD83 coordinates; verify with differential GPS.Install using hydraulic jetting with seawater (preferred) or vibratory methods.

4.4.1.6. Final positions shall match existing charted LAT/LON coordinates within ±5 ft (see table below).

Daybeacon	Name	Position	Type	Numeral	Characteristic	Structure
1	Padre Island National Seashore Daybeacon 1	27°28'36.000"N 097°19'09.000"W	SG	“1”	Green square	SG on pile
2	Padre Island National Seashore Daybeacon 2	27°28'32.000"N 097°19'10.000"W	TR	“2”	Red triangle	TR on pile
3	Padre Island National Seashore Daybeacon 3	27°28'25.000"N 097°19'10.000"W	SG	“3”	Green square	SG on pile
4	Padre Island National Seashore Daybeacon 4	27°28'28.000"N 097°18'58.000"W	TR	“4”	Red triangle	TR on pile
5	Padre Island National Seashore Daybeacon 5	27°28'30.000"N 097°18'52.000"W	SG	“5”	Green square	SG on pile
6	Padre Island National Seashore Daybeacon 6	27°28'25.000"N 097°18'47.000"W	TR	“6”	Red triangle	TR on pile
7	Padre Island National Seashore Daybeacon 7	27°28'25.000"N 097°18'39.000"W	SG	“7”	Green square	SG on pile
8	Padre Island National Seashore Daybeacon 8	27°28'23.000"N 097°18'40.000"W	TR	“8”	Red triangle	TR on pile

4.4.2. Windsurfing Buoys:

4.4.2.1. Inspect government-furnished materials for defects prior to installation.

4.4.2.2. Furnish any supplemental items if required (none anticipated; see Section 6 for government-furnished items). All components must meet marine-grade standards (e.g., galvanized or stainless steel for corrosion resistance).

4.4.2.3. Install helical anchors (8-inch diameter, 5.5-foot length) at designated points using hydraulic torque driver from workboat or barge. Drive to required torque (500–1,000 ft-lbs minimum, per manufacturer specs and substrate).

4.4.2.4. Record torque readings, anchor depth, and GPS coordinates for each unit.

4.4.2.5. Assemble mooring system: Attach elastic eco mooring line (3' minimum, adjusted for depth), stainless shackles, swivels, midline float (if depth allows), rope, PVC tubing, pick-up line, and eye-to-eye mooring swivel to the anchor.

4.4.2.6. Adjust mooring line lengths based on surveyed depths to ensure buoys float at surface with proper tension (e.g., shorter for Buoy #05 shallow site; COR approval for adaptations).

4.4.2.7. Attach Sur-Mark regulatory buoys with signage: Apply "No Boats" stickers (orange diamond with cross, black lettering) to six buoys; "No Wake" sticker (orange circle, black lettering) to one buoy. Ensure visibility.

4.4.2.8. Positions within ±5 feet of provided NAD83 coordinates; verify with differential GPS. Install using low-impact methods to avoid seabed disturbance.

4.4.2.9. Final positions shall match surveyed coordinates (see table below; "No Wake" buoy position to be confirmed by NPS COR during site visit).

Buoy Name	Position (Latitude)	Position (Longitude)	Type Signage	Depth (MSL, ft)
BIB BUOY 1	27°28'25.5810"N	097°18'46.7202"W	no boats diamond with cross, "no boats"	2.75
BIB BUOY 2	27°28'29.8941"N	097°18'59.4414"W	no boats diamond with cross, "no boats"	3.25
BIB BUOY 3	27°28'08.4927"N	097°19'11.1323"W	no boats diamond with cross, "no boats"	3.25
BIB BUOY 4	27°27'47.4049"N	097°19'21.9064"W	no boats diamond with cross, "no boats"	4.25
BIB BUOY 5	27°27'39.3744"N	097°19'08.0406"W	no boats diamond with cross, "no boats"	1.25
BIB BUOY 6	27°28'27.7018"N	097°18'52.0801"W	no boats diamond with cross, "no boats"	4.57
BIB BUOY 7 (no wake replacement)	to be provided by NPS COR	to be provided by NPS COR	no wake circle, "no wake"	to be determined

4.5. **Restoration and Demobilization**

4.5.1. Remove turbidity controls and debris; restore any disturbed substrates to pre-work contours; temporary buoys or markers.

4.5.2. Conduct final inspection with NPS COR and USCG for alignment, stability, and visibility.

4.6. **Final Documentation**

4.6.1. Provide as-built survey (GPS positions, heights above MHW, photos).

4.6.2. Submit completion report and photos for NPS to forward USCG CG-2554 to USCG Sector Corpus Christi.

5. <u>OPTION WORK / TASKS:</u>

Not Used

6. GOVERMENT FURNISHED EQUIPMENT / MATERIALS / OTHER:

a. Equipment:

   a. None provided by the Government.

b. Materials: Seven (7) helical buoy sets, including: helical anchors (8-inch dia, 5.5 ft length), elastic eco mooring lines, stainless shackles, swivels, midline floats, ropes, PVC tubing, pick-up lines, eye-to-eye mooring swivels, Sur-Mark regulatory buoys, and sticker signage ("No Boats" for six, "No Wake" for one). All components purchased and available for complete installation.

c. Other: Access to BIB boat ramp; recent surveyed buoy depth map, site plan, and profile drawings provided as attachments ("PAIS BIB Buoy Site Plan.pdf" and "PAIS BIB Buoy Profile Helical Anchor.pdf").

7. SPECIAL CONDITIONS / REQUIREMENTS:

7.1. All work under USACE Nationwide Permit 1 (Aids to Navigation), USCG 33 CFR Part 66, and and Texas regional conditions.

   7.1.1. https://www.spa.usace.army.mil/Portals/16/docs/civilworks/regulatory/Regional%20Conditions/2021%20Regional%20Conditions/NWP%2003%20Summary.pdf?ver=a7ZUSackpNeu0CvUdAiPdg%3d%3d

7.2. Sea Turtle & Marine Mammal Protection: Work windows 1 November – 31 March preferred; on-site NPS-approved monitor required if outside window.

7.3. Inadvertent Discovery: Immediate stop-work if cultural resources or human remains encountered.

7.4. Equipment cleaning to prevent invasive species transport.

7.5. Ensure the protection of the existing site to prevent damage and minimize loss of sand bedding material. If needed, implement measures to protect surrounding areas and structures from potential damage during the gravel replacement process Submit and follow an Under-an-Acre Pollution Prevention Plan (UPPP) to mitigate environmental impact. Minimize loss of sand bedding material by employing efficient handling and placement techniques.

7.6. Exotic Vegetation and Noxious Weeds

   7.6.1. Cleaning of Equipment: The Contractor shall ensure that prior to entering the park and moving on to the Project Area, all equipment, is free of soil, seeds, vegetative matter, or other debris that could contain or hold seeds.

7.6.2. Contractor shall ensure that all equipment has been pressure washed and is free of exotic species prior to start-up of operations and moving of equipment to Project Area. Equipment shall be considered free of soil, seeds and other such debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools is not required.

7.6.3. Contractor shall notify the Contracting Officer at least 2 days prior to moving any equipment onto the Project Area. Notification will include identifying the location of the equipment's most recent operations. The Contractor shall arrange for the Contracting Officer to inspect each piece of equipment prior to it being placed in service.

7.7. Preservation of Natural Features:

7.7.1. Prevent damage to natural surroundings. Restore damaged areas, repairing or replacing damaged trees and plants, at no additional expense to the Government.

7.8. Allow for Government access through the project site. Keep entrances serving premises clear and available to Government, Government's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Comply with all legal load restrictions in the hauling of materials.

7.9. Spill Protection: The contractor shall store hazardous materials per manufacturer and OSHA 29CFR1926 Subpart D requirements, maintain on-site SDS, report spills to the park immediately, and train contractor employees on spill response using an emergency kit.

7.10. **Mitigations/Treatment Measures:** Measures to prevent or minimize loss or impairment of historic/prehistoric properties. Required Mitigations - For the proposed project actions to be within compliance requirements during construction and/or project implementation, the following mitigations must be adhered to:

7.10.1. In the event that human remains are discovered during maintenance activities, all work on the project must stop and the park archeologist contacted immediately. As required by law, the coroner will be notified first. All provisions outlined in the Native American Graves Protection and Repatriation Act (1990) will be followed.

7.10.2. If unknown paleontological resources are discovered during construction, work in that location would be stopped until the resources could be properly recorded and evaluated. Measures would be taken to avoid further resource impacts or to mitigate their loss or disturbance Although there is no surface evidence of archeological resources, clearance to proceed is recommended with the condition that if concealed archeological resources are

encountered during project activities, all necessary steps will be taken to protect them, and the Park Cultural Resources Manager will be notified immediately.

7.11. Padre Island National Seashore Superintendent Compendium of designations, closures, permit requirements and other restrictions imposed under the discretionary authority by the Superintendent of Padre Island National Seashore: https://www.nps.gov/pais/learn/management/superintendents-compendium.htm

7.12. Other Links (Remove after using info in SOW):

7.12.1. https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/Nationwide-Permits/

7.12.2. https://www.swg.usace.army.mil/Portals/26/docs/regulatory/2021NWP/2021%20NWP%20TX%20RGC_Final_v5A.pdf?ver=FV-RppxOyAWBbsvznPUtRA%3D%3D

7.12.3. https://www.ecfr.gov/current/title-33/chapter-I/subchapter-C/part-66

7.12.4. https://www.navcen.uscg.gov/sites/default/files/pdf/lightLists/LightList_V4_2024.pdf

7.12.5. https://www.wbdg.org/FFC/DOD/UFGS/UFGS%2031%2062%2019.13.pdf

7.12.6. https://chet-aero.com/wp-content/uploads/2022/07/cim_16500_25a.pdf

7.12.7. https://media.defense.gov/2017/Oct/16/2001827524/-1/-1/0/CG_2554.PDF

8. PLACE OF PERFORMANCE:

8.1. Bird Island Basin, Mansfield Channel approach to Boat Basin boat ramp, Padre Island National Seashore (intracoastal waters within park boundary).

9. PERFORMANCE PERIOD / SCHEDULE REQUIREMENTS:

9.1. All work shall be completed within 90 calendar days of Notice to Proceed.

9.2. The contractor shall work closely with park personnel and provide weekly briefings as to their progress under this effort with the CO and COR.

9.3. On-Site Work Hours: Work shall be generally performed during normal business working hours observing federal holidays of 7a.m. to 4 p.m., Monday through Friday, except as otherwise approved by the CO and COR.

10. Contractor Questions and NPS Response

- **Please clarify the required self-performance percentage for the prime contractor under the Limitations on Subcontracting requirements.**

52.219-14 (e) (4) - Construction by special trade contractors will not pay more than 75 percent of the amount paid by the Government for contract performance, excluding the cost of materials, to subcontractors that are not similarly situated entities. Any work that a similarly situated entity further subcontracts will count towards the prime contractor's 75 percent subcontract amount that cannot be exceeded.

- **Will marine installation subcontractors be considered specialty trade contractors for subcontracting limitation purposes?**

Yes

- **May the prime contractor subcontract buoy fabrication while self-performing installation work?**

Construction by special trade contractors, it will not pay more than 75 percent of the amount paid by the Government for contract performance, excluding the cost of materials, to subcontractors that are not similarly situated entities. Any work that a similarly situated entity further subcontracts will count towards the prime contractor's 75 percent subcontract amount that cannot be exceeded.

- **Is SAM.gov registration required for subcontractors, or only for the prime contractor?**

No, only for the prime contractor.

- **What is the anticipated award date for this RFQ?**

Mid September

- **Is site visit attendance mandatory or optional?**

Optional

- **Are there environmental or seasonal restrictions for vessel access or in-water work activities?**

NO

- **Will the Government provide staging or temporary storage areas onsite for materials and vessels?**

Yes we can accommodate temporary storage spot TBD

- **Are there required buoy manufacturers, approved product lists, or minimum material specifications for buoy assemblies and navigational signage?**

No, No, Yes use 33 CFR Part 62 – United States Aids to Navigation System, 33 CFR Part 66 – Private Aids to Navigation

- **Is nighttime or weekend work permitted if necessary to meet the 90-day performance period?**

No night time work. No on weekend work.

- **Please confirm whether the liability insurance requirements in clause 1452.228-70 apply only to the prime contractor or also to all subcontractors performing onsite work.**

Prime only, but prime can impose it on subs.

- **If subcontractors are required to carry separate insurance coverage, please confirm the minimum coverage limits required for each subcontractor tier.**

Determined by prime

- **Will subcontractors be permitted to operate under the prime contractor's umbrella/excess liability policy, or must each subcontractor provide separate certificates of insurance?**

That would depend on the, The terms of the prime contractor's insurance policies, the subcontract agreement, whether the insurer allows subcontractor coverage

- **When will the Q&A be released?**

Around 8/30/2026