**CHANNEL ISLANDS NATIONAL PARK**

**1443N2011080686**
**REPLACE FAILING 700' PIER PRIMARY ACCESS TO SANTA ROSA ISLAND – CHIS - 006226**

**SCHEDULE OF CHANGES**
**AMENDMENT NO. 2**

1. Specifications:
   - Delete Specifications Section 02465 in its entirety and
   - Substitute the attached revised Section 02465

2. Drawing S4 Note 6:
   - Delete Note 6 in its entirety and
   - Substitute "16 inch diameter fender piles, contractor shall furnish vendor specific fender pile design shop drawings and calculations demonstrating compliance with required loading generated by a 100 ton vessel at an approach velocity normal to the fender system of 1.5 feet per second and a wave load of 4100 lbs per fender pile."

3. Drawing S5 Detail C:
   - Add note and elevations to define the top and bottom extents of placement of Ultra High Molecular Weight PolyEthylene Rubbing Surfaces at the right hand side of Section C.
   - Add Ultra High Molecular Weight PolyEthylene Rub Strips to fender piles at each side of detail C.
   - Detail C on Drawing S5 following addition of the added note and elevations on the right hand side of section C and the Ultra High Molecular Weight PolyEthylene Rub Strips on piles per the above is attached.

4. Drawing S6
   - Delete bolts fastening fender piles to the pier structure at the top left hand side of Section B.
   - Add bolts and inserts fastening fender piles to the pier structure at the top left hand side of Section B.
   - Add Ultra High Molecular Weight PolyEthylene Rub Strips to the fender pile a the left hand side of Section B.

5. Drawing S7:
   - Add a new Detail 8 to Drawing S7. This detail indicates Ultra High Molecular Weight PolyEthylene Rub Strips and fastening requirements for rub strips.
   - The new Detail 8 on Drawing S7 is attached.

6. Section B on Drawing S7
    - Delete fasteners attaching fender piles to pier structure at top right and left sides of section B.
    - Add fasteners and inserts attaching fender piles to the top pier structure at the top right and left sides of section B.
    - Add Ultra High Molecular Weight PolyEthylene Rub Strips to the fender piles at the right side and left side of Section B.

7. Detail 2 on Drawing S8:
    - Delete the note and leader pointing to fender pile stating: "16 inch diameter fender pipe, see note 6" from the lower left side of detail 2.
    - Delete the bolts attaching fender piles to pier structure.
    - Add new bolts attaching fender piles to the pier complete with 2.5 inch diameter drilled and tapped stainless steel inserts bonded into the fender pile.
    - Delete the note and leader pointing to fender pile stating: "2 – 1 inch diameter stainless steel threaded rod nut & washer @ 1'-0" vert spacing, center on glb, csk to fender pile, typ." from the lower right side of detail 2.
    - Add note with leader pointing to fender pile on right hand side stating: "16 inch diameter polymeric fender pile. Composite with concrete core, typ."
    - Add note and leader pointing to and identifying the stainless steel threaded insert.
    - Add note and leader pointing to and identifying the stainless steel bolts fastening the fender piles to the pier.
    - Detail 2 on Drawing S8 following all deletions and additions per the above is attached.

8. Detail 5 on Drawing S8:
    - Delete bolts fastening fender piles to the pier structure.
    - Add bolts and inserts fastening fender piles to the pier structure.
    - Detail 5 on Drawing S8 following all deletions and additions per the above is attached.

9. Detail 5 on Drawing S8.1
    - Delete fasteners attaching fender piles to the pier structure.
    - Delete notes for fasteners attaching fender piles to the pier structure.
    - Add inserts and threaded rod connections attaching fender piles to the pier structure.
    - Add notes referencing detail for threaded inserts at fender pile connections to the pier structure.
10. Section A on Drawing S8.1
    - Delete fasteners and notes at top of fender connecting fender to the pier structure.
    - Add note "bolts connecting fender pile not shown" at the locations where fasteners attaching the fender piles to the pier structure would occur.

11. Detail B on Drawing S12:
    - Delete bolts fastening fender piles to the pier structure.
    - Delete notes labeling bolts and csk fastening fender piles to the pier structure.
    - Add bolts and inserts fastening fender piles to the pier structure.
    - Add Ultra High Molecular Weight PolyEthylene Rub Strips to the fender piles.
    - Add inserts and bolts fastening the UHMWPE to the fender piles.
    - Add note labeling the UHMWPE rub strips.
    - Add notes labeling fasteners and inserts for the connnecton of the fender piles to the pier structure and the UHMWPE to the fender piles.
    - Detail B on Drawing S12 following all deletions and additions per the above is attached