YACHT CLUB FISHING PIER RECONSTRUCTION

MAY 8, 2024

Cape Coral FLORIDA

PILE INVESTIGATIONS

Kimley-Horn performed two levels of investigation of the existing piles remaining after Hurricane Ian and have provided two options regarding the reuse of the existing piles. The options are based on estimated service life to be achieved utilizing the existing piles. Both options involve removal of previously installed protective jackets prior to replacing the jackets with larger more robust jackets and additional reinforcing steel to strengthen the deteriorated pilings.

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PILE RESTORATION OPTIONS

Option 1: The first option is to take a phased approach to the restoration of the piling. Phase 1 is to complete the restoration of 24 piles with existing damage and those disturbed by the detailed investigations. This option would provide an estimated 15 year service life. Subsequent investigations would be required with restoration of piles as additional deterioration is identified, further extending the service life of the structure.

Option 2: The second option is to complete the restoration of all piling at this time. This option would provide an estimated service life of 25 years with no subsequent restoration required.

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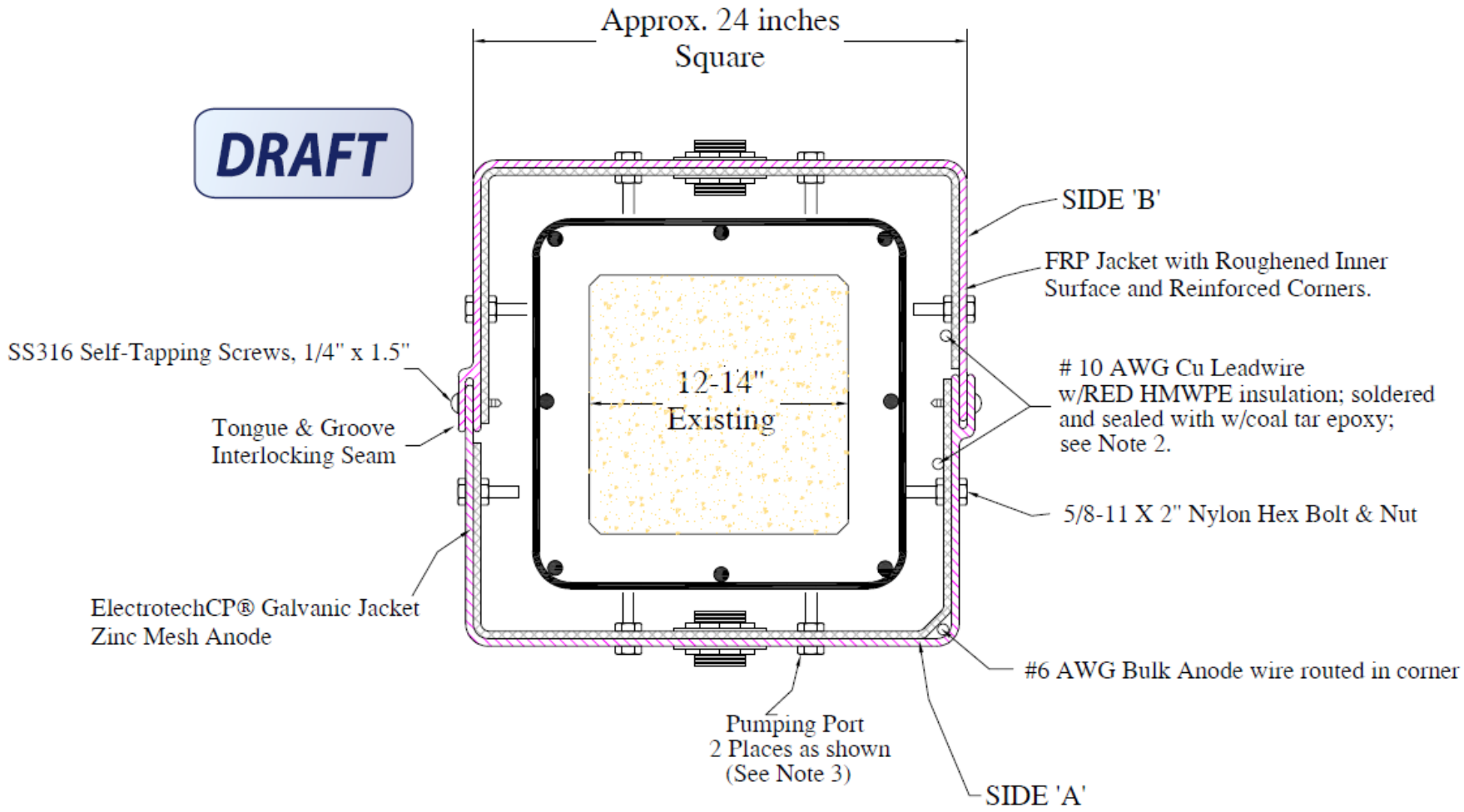
PILE RESTORATION DETAIL



PIER RECONSTRUCTION OPTIONS

Option 1: The first option is to install new decking, rails and sun shelter once the existing pile restoration has been completed with one of the restoration options. A USACOE Nationwide Permit for maintenance would be required due to the potential disturbance of the river bottom during pile restoration.

Estimated permitting time frame is 6 to 9 months.

Option 2: The second reconstruction option is a complete reconstruction of the pier including installation of new piles. Existing piles would be removed, and new piles installed with new deck rails and shade structure as indicated in option one. A General Permit triggering multi-agency review would be required. Limiting the size and location of the new structure to the existing pier footprint and existing submerged land lease area may shorten the permitting process.

Estimated permitting time frame is 12 to 18 months.

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PIER RECONSTRUCTION COST

Options	Estimated Construction Cost	Engineering Services	Total Cost	Permitting	Construction Duration
1. Repair damaged piles only	$4,052,000	$270,000	$4,322,000	6-9 Months	6-10 Months
2. Repair all piles	$6,304,000	$270,000	$6,574,000	6-9 Months	6-10 Months
3. Remove and replace all piles	$5,124,000	$280,000	$5,404,000	12-18 Months	6-10 Months

1. The estimated construction cost indicated above include the new deck, rails, sun shelter for each option and removal of the existing piles in option 3.

2. State appropriations has allocated $2,000,000 towards the Yacht Club shoreline, beach and pier restoration which may be applied to this project.

3. Additional funding options are to be determined.

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Thank you