



Michael J. Ellis Seawall Repairs

Stakeholder Update Meeting



Michael J. Ellis Seawall Repairs

Update Meeting - Agenda

- Introductions
- Adjacent Property Owners
- Existing Conditions
- Condition Assessment
- Proposed Repairs
- Proposed Improvements & Amenities
- Q/A

INTRODUCTIONS

**City of Corpus Christi:
Engineering Department**

Consultants:

Lead Engineer – Hanson Professional Services, Inc.

Structural – Lloyd Engineering, Inc.

Environmental/Permitting – LJA



ADJACENT PROPERTY OWNERS

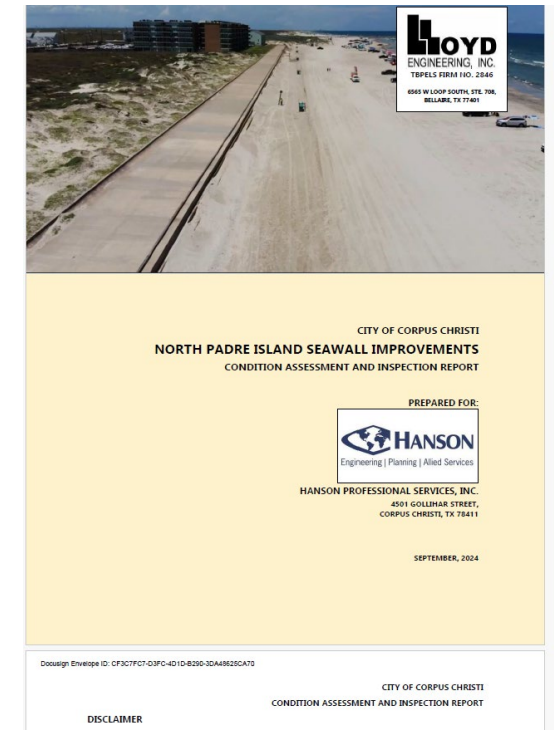


EXISTING CONDITIONS (CONT.)

Condition Assessment and Inspection Report by Lloyd Engineering, Inc. (Terracon, Inc.)

Findings:

- Poor condition w/ widespread moderate to severe spalling
- Areas of corroded steel reinforcement
- Ground Penetrating Radar: Indicated that there were no apparent voids
- Cores: Current concrete strength – 6,800 psi
- As the concrete is exposed to the corrosive, marine environment, the concrete is experiencing significant deterioration



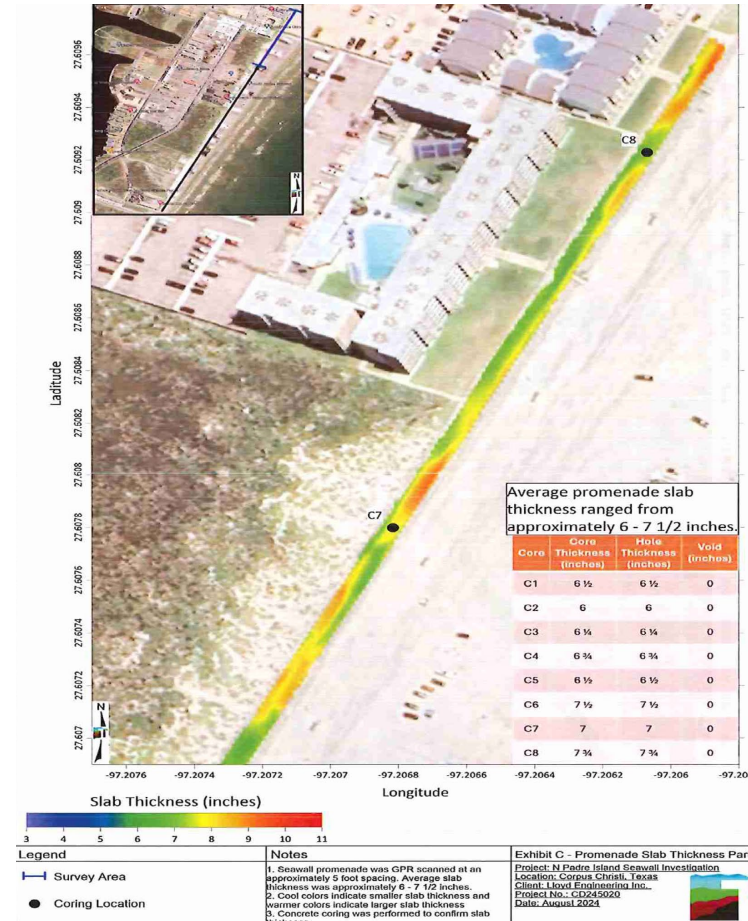
EXISTING CONDITIONS



EXISTING CONDITIONS (CONT.)

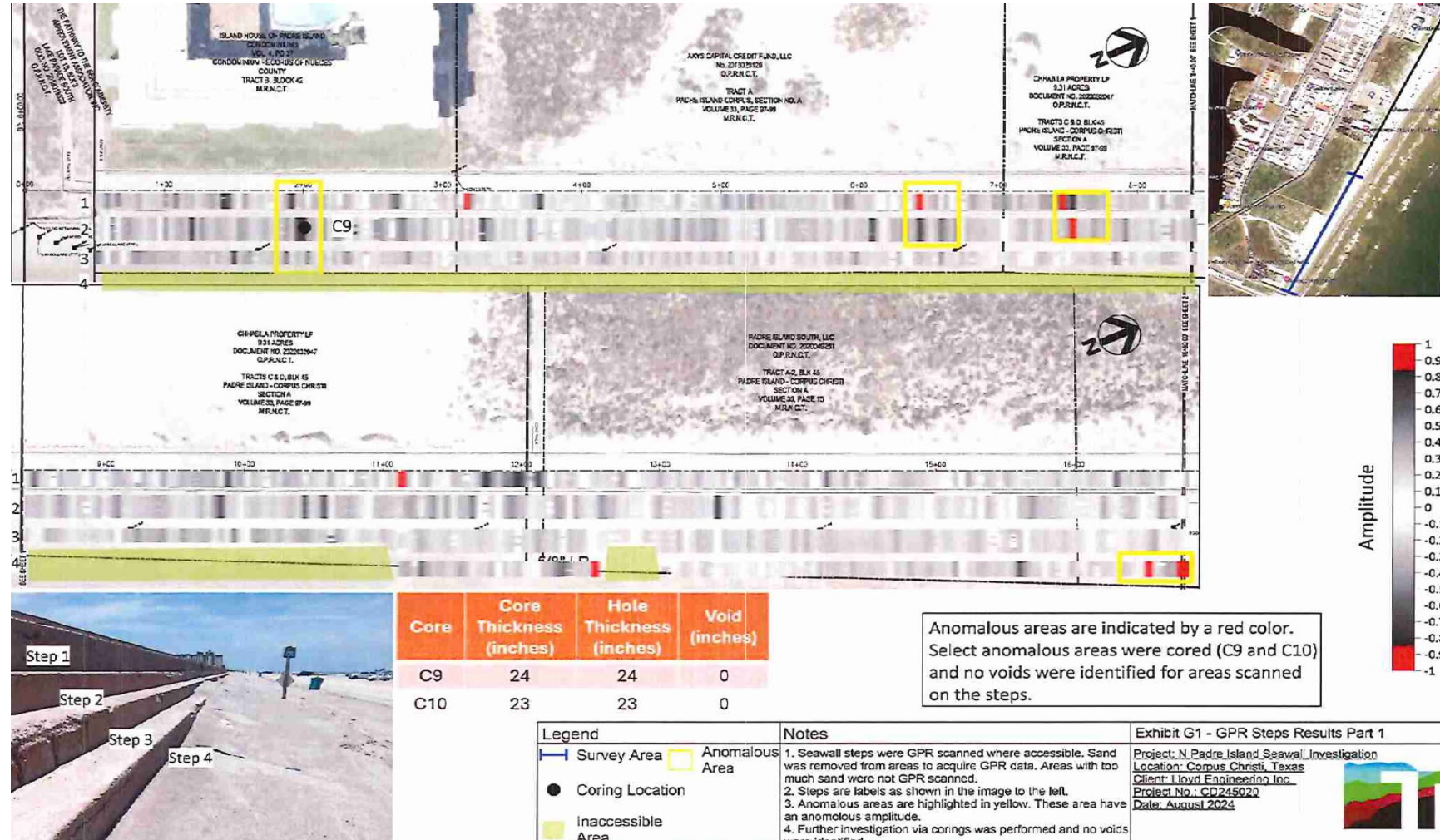


Promenade Deck: Average of 6"-7" Thick



Page from Terracon's investigation Report – Ground Penetrating Radar (Estimated Slab Thickness)

EXISTING CONDITIONS (CONT.)



Page from Terracon's investigation Report – Ground Penetrating Radar (Voids Investigation)

EXISTING CONDITIONS (CONT.)



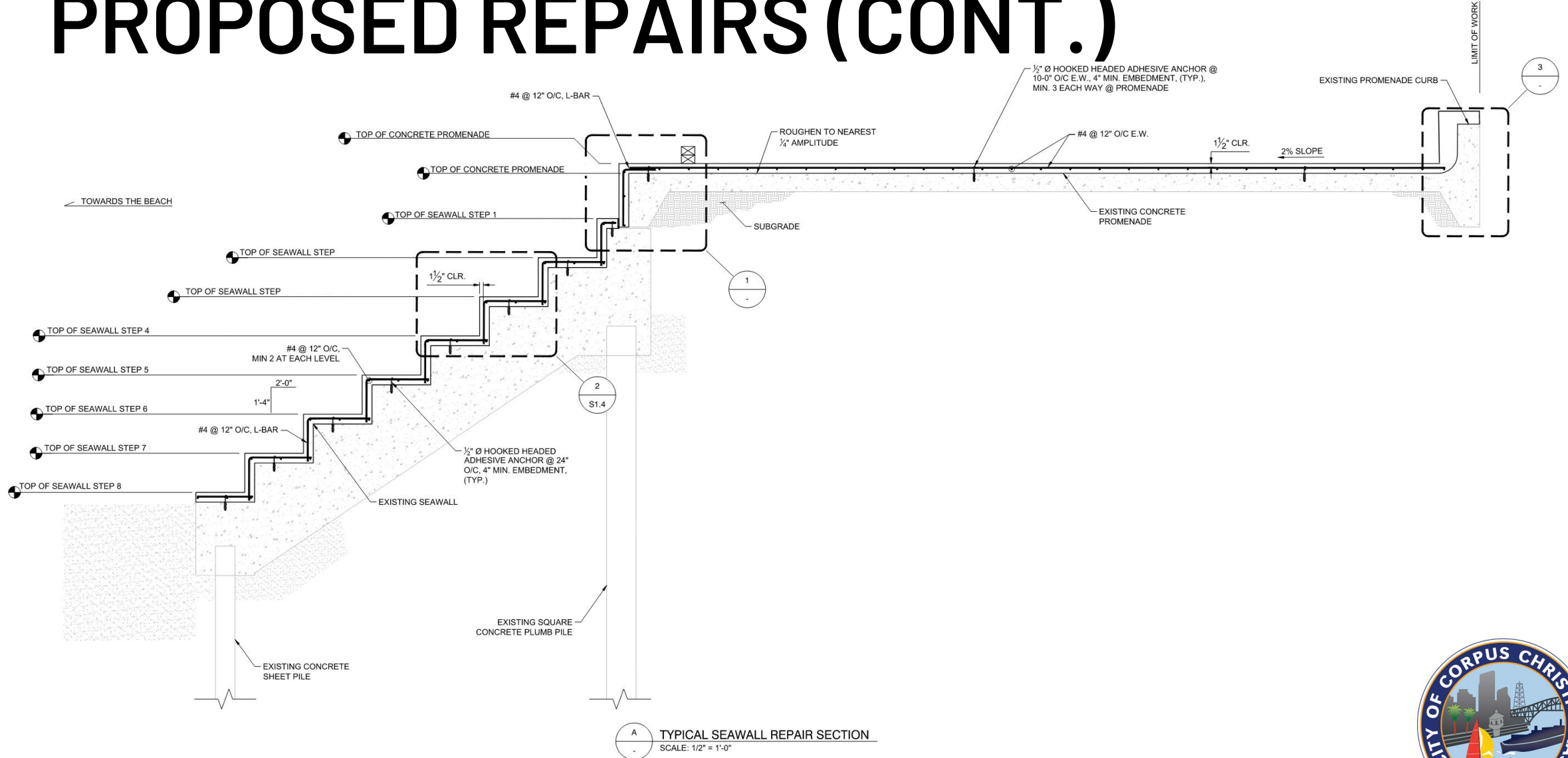
Further Investigation of steps below grade indicated the steps below grade were in a little better condition than those above grade and there was no rip-rap as shown on original drawings

PROPOSED REPAIRS

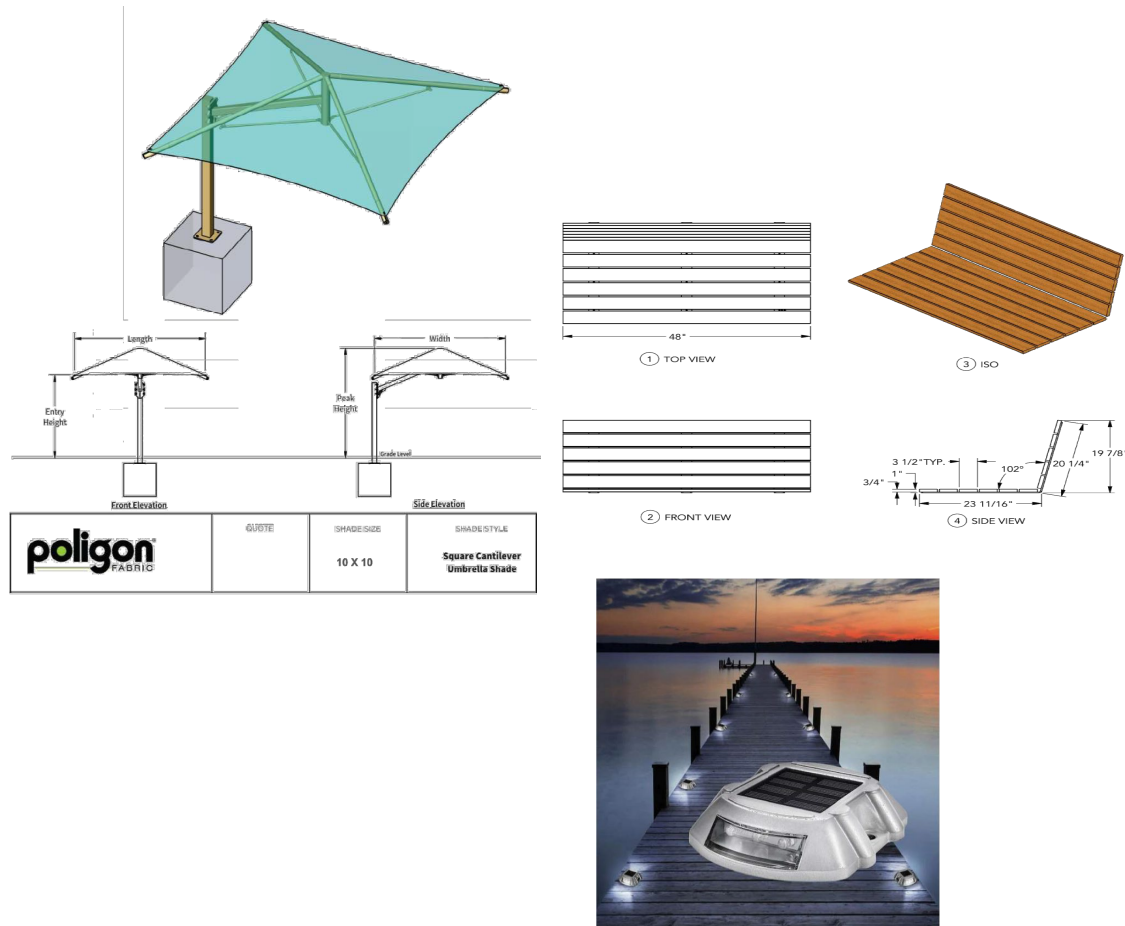
Recommendations:

- Spall repairs – cleaning (water blasting), chipping away of loose debris
- Dowel into existing seawall, anchoring
- 6" concrete topping/cap (structural analysis was completed for additional dead load) to the top of the bottom step
- Protective epoxy coating

PROPOSED REPAIRS (CONT.)



PROPOSED IMPROVEMENTS & AMENITIES



- Reconnect all current access points along the back of the promenade
- Replacement of toe-ledge (4x6's) with solar pedestrian lighting
- Shade Structures sporadically placed along the back of the promenade
- Stairs w/ handrails down the front of the steps for easy pedestrian access
- Additional ADA accessible ramps and replacement of the current ramp in front of the city parking lot

Q & A

