



1112 Manatee Avenue West
Bradenton, FL 34205
purchasing@mymanatee.org

Solicitation Addendum

Addendum No.: 2
Solicitation No.: 21-TA003519DJ
Project No.: 6081101
Solicitation Title: Portosueno Park South Seawall Replacement
Addendum Date: December 7, 2020
Procurement Contact: Dave Janney
Senior Procurement Agent

IFBC 21-TA003519DJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This addendum is hereby incorporated in and made a part of IFBC 21-TA003519DJ.

REPLACE:

BID ATTACHMENT 3 PORTOSUENO PARK_SOUTH SEWALL-PLAN-SET_110420_S&S, PLAN SHEETS 3, 4, 13, 15, 23, 24, 25, 26, and 27.

Replace Bid Attachment 3 Portosueno Park South Sewall-Plan-Set_110420_S&S Sheets 3, 4, 13, 15, 23, 24, 25, 26, and 27 with Revised Plan Sheets 3, 4, 13, 15, 23, 24, 25, 26, and 27 issued with this Addendum 2 and available for download as a separate attachment.

REPLACE:

SECTION B, BID FORMS, APPENDIX K, BID PRICING FORM (Revised)

Replace Appendix K (Revised) Bid Pricing Form, with the Revision 2 Appendix K Bid Pricing Form hereby incorporated into the IFBC.

CHANGE TO:

RESPONSE TO QUESTION 1 ISSUED IN ADDENDUM NO. 1

R1. The engineer's estimated opinion of costs is ~~\$623,455~~ \$654,123.00.

QUESTIONS AND RESPONSES:

- Q1. I downloaded the plans for the above-referenced project and wish to ask if the County has ever considered using fiberglass rebar for the reinforcing the concrete caps. FDOT requires fiberglass rebar in many of the reinforced concrete marine structures. It's not much more expensive than traditional reinforcing steel bars, but will enhance the durability and life span of the concrete structures. Although it may be too late for this project, I encourage the County to consider on future seawall applications.**
- R1. The County will follow current FDOT standards. Fiberglass rebar has not been approved for this project.
- Q2. Are we doing the new walls with tangents or Curves? Are the Segment divisions indicating the Tangents?**
- R2. The new wall is to be installed essentially in the same location as the existing wall. The sheet piles will be installed in segments and in curves as needed since the sheet piles have a limited angle to turn. Refer to Bid Attachment 3, Plan Set, Sheet 10 for layout recommendations.
- Q3. What is the purpose of the phasing described on drawing sheet 8? During the construction of phase 1, people will continue to access the other parts of the project marked as phase 2 and 3?**
- R3. Refer to Bid Attachment 3, Plan Set, Sheet 8, Notes. The Contractor is to coordinate with the Palma Sola Bay Yacht Club to allow the other areas to be in use during construction and the phase should be essentially complete before proceeding to the next phase.
- Q4. Can Phase 1,2 & 3 be staked out by surveyors on the same mobilization, or do we need to finish phase 1 before doing any work on phase 2 & 3?**
- R4. The intent of the project is to proceed with construction in a phase while allowing the use in the other 2 phases during construction. The Contractor is to coordinate with the Palma Sola Bay Yacht Club to finalize the phasing plan. As to what can be staked out by the surveyors, this will be the means and methods for the Contractor to determine.
- Q5. How long (tall) is the existing concrete wall?**
- R5. The existing wall is 4 ft. high with timber piles on 10 ft. centers typically.

Q6. Regarding this project, can you confirm that the replacement of all pile and utilities for the existing fixed and floating docks that are removed for seawall construction are not part of this bid.

R6. Replacement of removed piles and reconnecting utilities is not part of this bid.

Q7. What is the max weight for the bridge on Alhambra Dr.?

R7. The bridge on Alhambra Dr. (Bridge No. 134017) has a posted weight limit for Single Unit Trucks at 9 Tons and Combination Trucks at 13 Tons. However, if it is essential that the bridge is to be utilized, accommodations may be evaluated.

Q8. Will the selected contractor have full use of the site/park?

R8. The area north of Alhambra Dr. is County owned where the Contractor can establish their staging area. However, the Contractor will need to coordinate with the County to determine the final location.

Q9. Will the docks/park be closed to the public during construction?

R9. Refer to Bid Attachment 3, Plan Set, Notes, Sheet 8, the phase under construction will be closed to the public but the other phases will allow public access.

Q10. Do you anticipate work to begin Feb 2021?

R10. Start date will be dependent on the Successful Bidders' availability.

Q11. Sheet 23 of the plans, "Design notes" are not legible.

R11. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.

Q12. What is the proposed length of the C5x6.7 wale? Would a 6"x6"x1/2" plate washer be an approved equal?

R12. The C5x6.7 wale is to be the full length of the wall. Any design changes can be evaluated after the project has been awarded.

Q13. Can you confirm this is a lump sum bid?

R13. See Appendix K (Revision 2), changes highlighted in yellow, issued with this Addendum 2 and available for download as a separate attachment.

Q14. What is the quantity of bill fill, as no cross sections or site grading plan is given?

R14. The quantity of backfill was estimated at 110 CY. See Appendix K (Revision 2), changes highlighted in yellow and Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.

Q15. Can the structural plans for construction by Ingenium be released as the copied plans are of low quality?

R15. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.

Q16. Can CMI ShoreGuard® SG-750 be approved as an alternate manufacturer?

R16. ShoreGuard® SG-750, manufactured by CMI, is an approved alternate.

Q17. Would Vanguard HD be an approved sheet?

R17. Vanguard HD is not approved as an alternate.

Q18. Sheet 4, note 39.2 refers to capping lines for services posts. Please specify the quantity of lines to be capped.

R18. There are 12 docks that have services and each typically has a water service line and an electric service line. For the purpose of the bid, the bidders can estimate based on 24 lines to cap.

Q19. Sheet 4, note 42 refers to temporary removal and resetting of existing rip rap. Please specify the quantity of rip rap to be reset.

R19. The eastern 60' of the wall to be replaced has approximately a 5' wide x 2' deep area of rip rap. Note, only the portion of rip rap in the way of installing the new wall needs to be removed and reset and the new wall is to be essentially in the same location as the existing wall.

Q20. Sheet 6 appears to show a break in the existing seawall East of station marker 304+00. Is the seawall continuous from STA. 300+47 to 306+23?

R20. There is no break in the existing seawall other than portions that have failed or been replaced with timber shoring (1 location at about 10' long).

- Q21. Sheet 3, note 35 regarding the timber dock removal. Please confirm that bidders are to include removal of only the first span of stationary timber docks in the bid price and that the remaining spans including all pilings, structural members and decking are to remain.**
- R21. That is correct. Only the first span of the timber docks is to be removed and the rest is to remain. The removal will also include the piles adjacent to wall.
- Q22. Sheet 3, note 35.3 C states that pile installation adjacent to the new seawall are to follow the seawall fabricator recommendations however the same note states that replacement is not part of this contract. Please clarify how many if any piles for the stationary docks are to be replaced and included in the bid price.**
- R22. Pile replacement is not part of this project. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.
- Q23. Sheet 3, note 35.4 refers to pile installation for the floating docks. Please specify how many piles are to be installed for reinstallation of the floating docks.**
- R23. Pile replacement is not part of this project. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.
- Q24. Some of the palm trees shown on the plans to remain will almost certainly need to be replaced due to limited access for seawall replacement. What type and size palm tree is acceptable to the Owner if replacement of the palm trees is required?**
- R24. The palm trees to be considered are to be Royal Palms at up to 20' tall.
- Q25. Please provide details on the existing seawall including type of material, dimensions and footer details if there is an existing footer.**
- R25. The existing seawall is a king pile type with 10" dia. ± timber piles at 10' spacing ± for a 4' high x 10" wide concrete wall. The top of the piles are encased in concrete as well. There are no footings for the wall.

- Q26. Sheet 13 note 5 states that existing utilities are to be shut off and capped. Is this referring to electrical and water utilities to the docks? If so, please provide details on existing utilities to be capped.**
- R26. Yes, the note is referring to the electric and water service utilities to each of the docks. The service lines are typically in 1" dia. or less pvc conduit.
- Q27. For the floating docks, is the contractor required to replace the landing that connects the landward side to the floating dock and gangway? If so, please provide details for pricing.**
- R27. No, the replacement back to the docks will be the responsibility of the Palma Sola Bay Yacht Club. The materials are to be stored on site.
- Q28. Is the contractor required to reset the removed gangways as part of this contract?**
- R28. No, the gangways are to be removed and stored on site.
- Q29. Sheet 13, note 4 refers to installation of new timber piles. Please specify what size, length and timber treatment will be required for the new timber piles.**
- R29. Replacement of the piles is not part of the project. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.
- Q30. Sheet 13 and 14 show existing gangways to be removed and retained. Please provide details on the removal and replacement if required of the landing that connect the gangways to the landward side of the seawall.**
- R30. The gangways are to be removed and stored on site.
- Q31. Sheet 15, note 5 c refers to re-installation of the pipe. Please provide a quantity of new pipe to be included in the bid price if the existing pipe is not usable. Alternatively, we request that the Owner address the new pipe if needed via change order so bidder's can exclude this from the bid price and plan to reinstall the existing pipe.**
- R31. If it is determined that the existing pipe is not re-usable, a new section of pipe will be addressed in a Field Directive. The Contractor does not need to bid on installing a new section of pipe. Note that the existing pipe for both locations is 12" Dia. RCP and only the section adjacent to the wall would need to be replaced if found to be damaged.

- Q32. Sheet 15, note 7 states that payment for new pipe material if required will be paid under pay item # 430-74-112. However there is no pay item in the bid pricing form with this number. Please provide a bid form that includes this pay item or direct bidders to include the price under a different pay item on the bid form.**
- R32. If it is determined that the existing pipe is not re-usable, a new section of pipe will be addressed and paid for under a Field Directive.
- Q33. Sheet 23 and 24 have details that are blurred and difficult to read. Please provide a clear image of these sheets for clarification.**
- R33. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.
- Q34. Please specify the required length for the anchor rods.**
- R34. The anchor rods can be estimated at 16'-9" lengths.
- Q35. Sheet 26 states Timber support piles for dock and dock/pier connection is "by others". Please confirm if some of the removed piles waterward of the new seawall are to be replaced. If so, provide type and quantity for pricing.**
- R35. Replacement of the piles is not part of the project. See Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.
- Q36. Will the County require a building permit? If so, will permit fees be waived?**
- R36. A building permit is not required.
- Q37. Will the Owner provide testing or will testing including concrete and compaction be the responsibility of the contractor?**
- R37. The County will provide testing for concrete and compaction.
- Q38. Please clarify which sections of the cap are to be included in the bid item "Bulkhead Cap Standard" and which are to be included in bid item "Bulkhead Cap Extra Depth"**
- R38. Refer to Bid Attachment 3, Plan Set, Sheets 15 and 16 for the 4 sections of extra depth cap sections, at both ends to connect to the existing walls and over the 2, 12", RCP storm pipes. Otherwise, the standard cap section is to be installed.

Q39. Will Bahia sod be acceptable as performance turf?

R39. See Revised Plan Sheet 3, Note 33, issued with this Addendum 2 and available for download as a separate attachment.

Q40. Under what item should bidders include costs for site restoration?

R40. Restoration should be included in Bid Item #1, Mobilization.

Q41. Have all necessary environmental permits been acquired for this project?

R41. Refer to Bid Attachment 6, FDEP Exemption.

Q42. What is the anticipated start date of the project?

R42. Please see response to Q10.

Q43. What area will the contractor be allowed for staging?

R43. Staging may be provided north of Alhambra Dr. at locations as approved by the County, see response to Q8.

Q44. Can the contractor utilize on site electric and water for construction activities?

R44. No, the Contractor is responsible for providing any temporary services.

Q45. Pay Item 415-1-8 (Reinforcing Steel, Bulkhead Cap (Standard)) calls for 911 LB of reinforcing bar. Our takeoff quantity is substantially different. Please verify pay item quantity.

R45. See Appendix K (Revision 2), changes highlighted in yellow and Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.

Q46. Please verify quantity for Pay Item 400-4-8 (Concrete Class IV, Bulkhead Cap (Standard)) calling for 47.65 CY. Our takeoff shows approximately 64 CY of concrete to be required.

R46. See Appendix K (Revision 2), changes highlighted in yellow and Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.

Q47. The plans call for 69 EA tie backs and deadman anchors with a maximum spacing of 7' on center. A 579 LF wall with a maximum of 7' spacing between anchors would have a minimum of 83 tiebacks/deadman anchors, not including areas with expansion joints. Please confirm the quantity of tie backs that will be required.

R47. See Appendix K (Revision 2), changes highlighted in yellow and Revised Plan Sheets issued with this Addendum 2 and available for download as a separate attachment.

Q48. Sheet 23 calls for expansion joint spacing no greater than 49' and no closer than 10' from any corner/turn. Is the transition between each segment classified as a corner/turn? If so, where should the expansion joints be placed? With a maximum spacing requirement of 49', the distance between the expansion joints across segments 3-6 would exceed the 49' requirement. Seg. 3 (10ft), seg. 4 (18ft), seg. 5 (18ft), seg. 6 (10ft).

R48. In general, each transition will be considered a turn but, in the area discussed, joints may need to be less than the 10' dimension from the turn in Segments 3 and 6. Field adjustments may be necessary during construction.

Q49. Can you clarify if the timber split rail fence is to be removed for construction and reinstalled with existing materials, or if new material should be budgeted for the purpose of this bid.

R49. The timber split rail fence is to be removed and replaced with existing materials. The fence is relatively new. If new materials are needed, they will be covered under a Field Directive.

NOTE:

Items that are ~~struck through~~ are deleted. Items that are underlined have been added or changed. All other terms and conditions remain as stated in the IFBC.

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

END OF ADDENDUM

AUTHORIZED FOR RELEASE

Jacob Erickson,
MBA, CPPO,
NIGP-CPP
Digitally signed by Jacob Erickson, MBA, CPPO, NIGP-CPP
Date: 2020.12.07 11:41:46 -05'00'

GENERAL NOTES (CONT'D)

25.3. CONCRETE COVER:

- CAST-IN-PLACE CONCRETE CAP - 3 IN.
- PRECAST SHEET PILING - 3 IN.
- CAST-IN-PLACE DEADMAN - 4 IN.

CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.

25.4. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES EXCEPT AS OTHERWISE NOTED.

25.5. VINYL SHEET PILING: REFER TO DETAILS AND SHOP DRAWINGS AS PROVIDED BY THE FABRICATOR.

26. APPLIED FINISH COATING:

- 26.1. A CLASS 5 FINISH COATING SHALL BE APPLIED TO THE TOP AND SIDES OF THE SEAWALL CAP IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 400 AND 975.
- 26.2. THE CLASS 5 COATING SHALL BE IN THE FDOT APPROVED PRODUCTS LIST.
- 26.3. PAYMENT FOR THE CLASS 5 COATING IS INCLUDED IN THE COST OF CONCRETE.

27. CONSTRUCTION/EXPANSION/CONTRACTION JOINTS:

- 27.1. CONSTRUCTION, EXPANSION OR CONTRACTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS AS INDICATED IN THE PLANS, VINYL WALL DETAILS OR SHOP DRAWINGS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL OF THE ENGINEER.

28. ANCHOR BAR TIE-ROD:

- 28.1. REFER TO THE VINYL WALL DETAILS OR THE SHOP DRAWINGS AS PROVIDED BY THE WALL FABRICATOR FOR THE TYPE AND MATERIAL OF BAR AND INSTALLATION DETAILS.
- 28.2. FOR ADDITIONAL CORROSION PROTECTION, THE ANCHOR BAR SHALL HAVE A SECONDARY SYSTEM INSTALLED AND SHALL BE TAPECOAT 20 HOT APPLIED COAL TAR TAPE OR APPROVED EQUAL SYSTEM MEETING FDOT STANDARD SPECIFICATION 926-8 FOR TYPE M COMPOUND AND AMERICAN WATER WORKS ASSOCIATION (AWWA) C203 STANDARD.
- 28.3. INSTALLATION OF THE CORROSION PROTECTION SYSTEM TO BE IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS.
- 28.4. A MINIMUM OF 2' OF SOIL COVER IS REQUIRED BEFORE HEAVY EQUIPMENT CAN PASS OVER THE ANCHOR BARS.
- 28.5. THE ANCHOR BARS ARE TO BE PROTECTED WHEN STORED ON SITE AND SHALL BE SUPPORTED OR PROTECTED AS FILL IS BEING PLACED AND COMPACTED IN ORDER TO AVOID DEFORMATION OF THE BARS.
- 28.6. EXCESSIVELY DEFORMED TIE ROD ANCHOR BARS AS DETERMINED BY THE ENGINEER SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY.
- 28.7. FOR CORROSION SYSTEM DAMAGE, THE CONTRACTOR SHALL SUBMIT REPAIR PROCEDURES TO THE ENGINEER FOR REVIEW AND APPROVAL.

29. CONSTRUCTION SEQUENCE:

- 29.1. THE CONTRACTOR SHALL COORDINATE WITH THE PALMA SOLA

BAY YACHT CLUB FOR CONSTRUCTION PHASING. REMOVAL AND REPLACEMENT OF THE SEAWALL HAS BEEN DIVIDED INTO CONSTRUCTION PHASE SECTIONS. THE DOCKS INCLUDED IN A CONSTRUCTION PHASE WILL BE CLOSED TO COMPLETE THE WORK.

29.2. WORK IS TO BE SUBSTANTIALLY COMPLETED AND ACCEPTED FOR EACH PHASE PRIOR TO ALLOWING THE DOCKS CLOSED TO BE PUT BACK IN SERVICE.

- 29.3. THE FOLLOWING PHASING IS RECOMMENDED AND WILL BE COORDINATED WITH THE PALMA SOLA BAY YACHT CLUB:
 - A. PHASE 1 INCLUDES WALL SEGMENTS 1 TO 6 AND DOCKS 1 TO 5. (183 FT. OF WALL CONSTRUCTION)
 - B. PHASE 2 INCLUDES WALL SEGMENTS 7 TO 9 AND DOCKS 6 TO 9. (180 FT. OF WALL CONSTRUCTION)
 - C. PHASE 3 INCLUDES WALL SEGMENTS 10 TO 15 AND DOCKS 10 TO 12. (216 FT. OF WALL CONSTRUCTION)

30. VINYL SHEET PILE DATA:

- 30.1. REFER TO THE VINYL WALL DETAILS AND SHOP DRAWINGS AS PROVIDED BY THE WALL FABRICATOR.
- 30.2. VINYL SHEET PILE SECTION = ESP 8.5 AS PROVIDED BY EVERLAST SYNTHETIC PRODUCTS, LLC OR APPROVED EQUAL.
- 30.3. DESIGN WALL EXPOSED HEIGHT = 6'- 0".
- 30.4. MAXIMUM ANCHOR SPACING = 7'-0" OR AS APPROVED BY THE WALL FABRICATOR.

31. SOIL DESIGN PARAMETERS:

- 31.1. REFER TO GETOECHNICAL INVESTIGATION REPORT PREPARED BY TERRACON, DATED NOVEMBER 19, 2018.

32. EMBANKMENT:

- 32.1. REFER TO FDOT STANDARD SPECIFICATIONS 120 AND 125 FOR MATERIAL, INSTALLATION AND TESTING REQUIREMENTS.
- 32.2. EMBANKMENT MATERIAL TO BE PLACED BEHIND THE SEAWALL TO REPLACE THE LOSS OF SOIL DUE TO THE DAMAGED WALL AND TO BRING UP TO THE NEW ELEVATION OF THE SEAWALL CAP.
- 32.3. PAYMENT WILL BE BY TRUCK METHOD OR OTHER SUITABLE METHOD AS APPROVED BY THE ENGINEER. PLAN QUANTITY IS BASED ON LEVELING MATERIAL TO THE NEW CAP ELEVATION AND REPLACING LOST MATERIAL.

33. PERFORMANCE TURF:

- 33.1. INSTALL BAHIA SOD TO THE DISTURBED AREAS IN ACCORDANCE TO FDOT STANDARD INDEX 570.
- 33.2. DISTURBED AREAS INCLUDE THE AREAS TO REGRADE THE SLOPE ADJACENT TO THE RETAINING WALL REPLACEMENT AND FOR THE EXCAVATION FOR THE TIE BACK ANCHORS AND DEADMAN.
- 33.3. MEASUREMENT AND PAYMENT IS BASED ON PLAN QUANTITY FOR AN AREA DETERMINED BY THE PERIMETER SURROUNDING THE EXCAVATION NEEDED FOR THE DEADMAN AND TIE BACKS TO THE SEAWALL FOR THE LENGTH OF THE SEAWALL TO BE REPLACED.
- 33.4. THE QUANTITY IS BASED ON AN APPROXIMATE AREA OF 580' LONG X 20' WIDE AREA = 11,600 SF = 1290 SY.
- 33.5. ANY OTHER AREA DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT NO EXPENSE TO THE COUNTY.

34. SURVEY MARKER:

- 34.1. A NATIONAL OCEAN SURVEY BENCH MARK SURVEY DISK WITH THE NUMBER STAMPED **6233A** IS LOCATED ON THE TOP OF

CAP AT THE WEST END OF THE SEAWALL NEAR DOCK 1 WITH COORDINATES OF N 27° 29' 12.10" W 082° 38' 37.49". THE RECORDED ELEVATION IS 1.99 FT. (NAVD88). THIS BENCH MARK IS A VERTICAL ORDER FIRST CLASS II TIDAL BENCH MARK.

34.2. 31.2. REMOVE THE SURVEY DISK AND SEND TO THE MANATEE COUNTY SURVEYOR, TODD BOYLE, SURVEY DIVISION MANAGER, 1112 MANATEE AVE WEST, BRADENTON, FLORIDA, 34205, (941) 749-3024 EXT. 3024. todd.boyle@mymanatee.org.

35. TIMBER DOCKS:

- 35.1. THE PALMA SOLA BAY YACHT CLUB OWNS AND OPERATES 12 BOAT DOCKS ALONG THE WALL. 9 DOCKS ARE STATIONARY TIMBER DOCKS AND THE REMAINING 3 ARE FLOATING DOCKS. THE 3 FLOATING DOCKS INCLUDE TIMBER PLATFORM SECTIONS ATTACHED TO THE WALL. AN ALUMINUM GANGWAY SPANS BETWEEN THE FLOATING DOCKS AND TIMBER PLATFORMS FOR ACCESS.

- 35.2. TIMBER PILES AND TIMBER DOCK SECTIONS ADJACENT TO THE EXISTING SEAWALL ARE TO BE REMOVED AND DISPOSED OF AS NEEDED BY THE CONTRACTOR IN ORDER TO INSTALL THE NEW SEAWALL. APPROXIMATELY 30 TIMBER PILES ARE TO BE REMOVED.

- 35.3. STATIONARY TIMBER DOCKS (DOCKS 2-7 AND 9-11):
 - A. FOR ACCESS TO THE SEAWALL, REMOVE THE TIMBER DECKING AND STRINGERS FOR THE FIRST SPAN FROM THE EXISTING SEAWALL.
 - B. DUE TO THE POOR CONDITION OF THE REMAINING SECTIONS OF THE DOCKS, REPLACEMENT SECTIONS ARE NOT INCLUDED IN THE PLANS.

C. THE PALMA SOLA BAY YACHT CLUB WILL PROVIDE DESIGN AND CONSTRUCTION ON THE REPLACEMENT OF THE 9 STATIONARY TIMBER DOCKS. THIS IS NOT PART OF THIS CONTRACT. NOTE THAT PILE INSTALLATION ADJACENT TO THE NEW SEAWALL WILL BE REQUIRED TO FOLLOW THE VINYL SEAWALL FABRICATOR RECOMMENDATIONS.

- 35.1. FLOATING DOCK TIMBER PLATFORMS (DOCKS 1, 8 AND 12):
 - A. FOR ACCESS TO THE SEAWALL, REMOVE THE TIMBER PLATFORM DECKING AND STRINGERS ADJACENT TO THE SEAWALL.
 - B. FLOATING DOCKS TO REMAIN. ALUMINUM GANGWAYS ARE TO BE MOVED AND STORED ON SITE TO ALLOW REPLACEMENT OF THE SEAWALL.
 - C. PILE INSTALLATION FOR THE PLATFORMS ADJACENT TO THE NEW SEAWALL WILL FOLLOW THE VINYL SEAWALL FABRICATOR RECOMMENDATIONS.

- 35.1. EQUIPMENT AND SERVICES ATTACHED TO THE PILES OR DECK SECTIONS TO BE REMOVED ARE TO BE MOVED AND/OR CAPPED AS NECESSARY. COORDINATE WITH THE PALMA SOLA BAY YACHT CLUB FOR STORAGE OF LOOSE ITEMS.

- 35.2. GATES AND GATES FRAMES ARE TO BE REMOVED. REPLACEMENT WILL BE BY PALMA SOLA BAY YACHT CLUB OWNERS. COORDINATE WITH OWNERS ON LOCKS.

36. FISH CLEANING STATION:

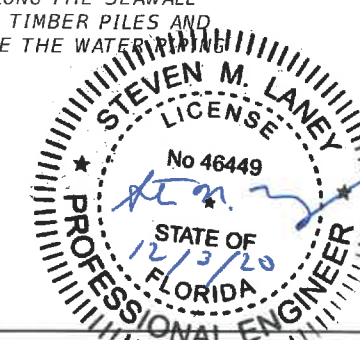
- 36.1. A FISH CLEANING STATION IS LOCATED ALONG THE SEAWALL BETWEEN DOCKS 7 AND 8. REMOVE THE TIMBER PILES AND ASSOCIATED TIMBER ELEMENTS. REMOVE THE WATERWAY AND CAP.



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 14th Avenue East, Bradenton, FL 34208

**PORTOSUENO PARK
SOUTH SEAWALL REPLACEMENT
GENERAL NOTES (2 OF 3)**

NO.	REVISION DESCRIPTION	DATE
1	NOTE: AS ADJUSTED	12/5/20
PROJECT #	6081101	
SURVEY #	0000	
SEC./TWN./RGE	28/33S/18E	
SCALE	N.T.S	
SURVEYED	By	DATE
DESIGNED	SML	08/2019
DRAWN	SML	10/2019
CHECKED		
STEVEN M. LANEY, P.E.		
FLORIDA P.E. # 46449		
Signature & Date		
SHEET 3 OF 28		



I:\Projects\Palma Sola Yacht Basin Retaining Wall South\W07_DWG_Palma Sola Ref Wall_South\W01.dwg General Notes (2 of 3), 12/3/2020 11:42 AM Steven Laney, 11, ANSI Full Sheet B (11.00 x 17.00 Inches)

**PORTOSUENO PARK
SOUTH SEAWALL REPLACEMENT
GENERAL NOTES (3 OF 3)**

GENERAL NOTES (CONT'D)

37. LIGHT POLES:

- 37.1. THE WOOD LIGHT POLE AT DOCK 1 AND THE WOOD LIGHT AND SERVICE POLE AT DOCK 5 ARE TO REMAIN. STABILIZE DURING CONSTRUCTION AND SAFEGUARD UTILITY CONNECTIONS.
- 37.2. A WOOD LIGHT POLE HAS BEEN REMOVED AND STORED BETWEEN DOCKS 11 AND 12. DO NOT REMOVE POLE AND SAFEGUARD ELECTRIC CONDUIT.

38. PALM TREES:

- 38.1. ALL PALM TREES TO REMAIN. PROTECT DURING CONSTRUCTION.
- 38.2. ADJUST TIE-BACKS TO AVOID DAMAGE TO TREES AS SHOWN IN THE VINYL WALL DETAILS AND/OR SHOP DRAWINGS.
- 38.3. CONTRACTOR TO REPLACE DAMAGED PALM TREES AT OWN EXPENSE

39. DOCK SERVICE POSTS:

- 39.1. THE MAJORITY OF THE DOCKS HAVE SERVICE POSTS INSTALLED ON THE SHORE. THE POSTS INCLUDE WATER AND ELECTRIC SERVICES AND INCLUDE A LIGHT ON TOP.
- 39.2. STABILIZE THE SERVICE POSTS DURING CONSTRUCTION. CAP LINES AS NEEDED.

40. UTILITY WATER SERVICE AND METER:

- 40.1. A MANATEE COUNTY SINGLE WATER SERVICE W/BFP AND METER IS LOCATED AT STATION 304+75 APPROXIMATELY 23' LEFT. THE SERVICE IS LOCATED NEAR DOCK 11.
- 40.2. ADJUST TIE-BACKS TO AVOID DAMAGE TO WATER SERVICE AND WATER METER. REFER TO THE VINYL WALL DETAILS AND/OR SHOP DRAWINGS.
- 40.3. PROTECT AND STABILIZE WATER SERVICE AND METER DURING CONSTRUCTION. EXISTING GROUND ELEVATION TO BE MAINTAINED DURING BACKFILL INSTALLATION TO NEW SEAWALL TOP OF CAP.

41. UTILITIES:

- 41.1. FOR UTILITY LOCATIONS, CALL SUNSHINE 811.
- 41.2. A FRONTIER UNDERGROUND CABLE IS LOCATED NORTH OF THE NORTH CURB OF ALHAMBRA DRIVE. NOTIFY FRONTIER PRIOR TO WORKING NEAR THEIR FACILITIES WHEN EXCAVATING AND INSTALLING THE SEAWALL TIE-BACK DEADMEN.
- 41.3. FRONTIER EMERGENCY CONTACT IS: JOHN PLOTT AT (941) 906-6706 AND john.plott@ftr.com.

42. EXISTING ROCK RUBBLE RIP RAP:

- 42.1. EXISTING ROCK RUBBLE RIP RAP IS LOCATED AT THE EAST END OF THE SEAWALL.
- 42.2. TEMPORARILY MOVE AS NEEDED TO PROVIDE ACCESS DURING INSTALLATION OF THE NEW SEAWALL.
- 42.3. RESET RIP RAP ADJACENT TO THE NEW SEAWALL AT THE EXISTING ELEVATIONS AND WITHOUT DAMAGE TO THE NEW WALL

43. STORM PIPE:

- 43.1. REFER TO EXTRA DEPTH CONCRETE CAP DETAILS FOR STORM PIPE AT OUTLET ENDS.

- 43.2. INSTALL INLET PROTECTION SYSTEM FOR 2 STORM DRAINAGE CURB DROP INLETS ON ALHAMBRA DRIVE. SEE EROSION CONTROL PLANS FOR DETAILS

- 44. FLAG POLE, PALMA SOLA BAY YACHT CLUB SIGN AND MONUMENT AND PALMA SOLA PARK MARQUEE:

- 44.1. SAFEGUARD THE FLAG POLE, PALMA SOLA BAY YACHT CLUB SIGN AND MONUMENT AND PALMA SOLA PARK MARQUEE.
- 44.2. IF DAMAGED, REPAIR OR REPLACE AT CONTRACTOR EXPENSE.

45. TIMBER POST AND BEAM FENCE:

- 45.1. REMOVE THE TIMBER POST AND BEAM FENCE AS NEEDED AND SET ASIDE FOR REPLACEMENT. ONLY REMOVE SECTIONS AS NEEDED IN THE ACTIVE CONSTRUCTION PHASE.
- 45.2. REINSTALL TIMBER POST AND BEAM FENCE AS CLOSE TO THE ORIGINAL LOCATION AS POSSIBLE AFTER INSTALLATION OF EMBANKMENT.
- 45.3. PAYMENT TO BE INCLUDED WITH PAY ITEM 110-73 REMOVE EXISTING BULKHEAD.

46. TURBIDITY BARRIER AND SILT FENCE:

- 46.1. REFER TO EROSION CONTROL DETAILS.

47. MANATEE PROTECTION AND SEA TURTLE AND SMALLTOOTH SAWFISH CONDITIONS:

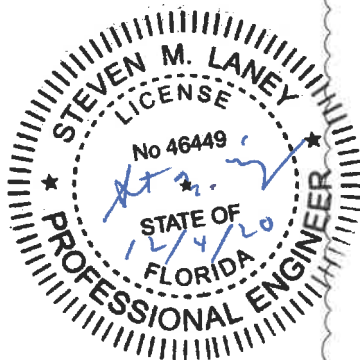
- 47.1. REFER TO EROSION CONTROL DETAILS.

48. PLAN DIMENSIONS:

- 48.1. ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.



SUMMARY OF QUANTITIES			
ITEM No.	ITEM	UNIT	QUANTITY
104-10-3	SEDIMENT BARRIER	LF	700.00
104-11	FLOATING TURBIDITY BARRIER	LF	1600.00
104-18	INLET PROTECTION SYSTEM	EA	2
110-1-1	CLEARING AND GRUBBING	AC	0.50
110-73	REMOVE EXISTING BULKHEAD	LF	579.00
120-6	EMBANKMENT	CY	110.00
125-3	SELECT BEDDING MATERIAL	CY	10.00
400-4-8	CONCRETE CLASS IV, BULKHEAD CAP (Standard)	CY	65.52
400-4-8	CONCRETE CLASS IV, BULKHEAD CAP (Extra Depth)	CY	2.44
400-4-8	CONCRETE CLASS IV, DEADMAN (85)	CY	16.40
400-4-8	CONCRETE CLASS IV, CLOSURE POUR (2)	CY	1.40
415-1-8	REINFORCING STEEL, BULKHEAD CAP (Standard)	LB	9011
415-1-8	REINFORCING STEEL, BULKHEAD CAP (Extra Depth)	LB	210
415-1-8	REINFORCING STEEL, DEADMAN (85)	LB	2,043
415-1-8	REINFORCING STEEL, CLOSURE POUR (2)	LB	126
415-87	ANCHOR BAR, STEEL (85) (1 - 1" DIA. HDG ROD W PVC SLEEVE)	EA	85
455-135	VINYL SHEET PILING, ESP 8.5 - 14' LONG'	SF	8,106.00
570-1-2	PERFORMANCE TURF, SOD	SY	1290.00

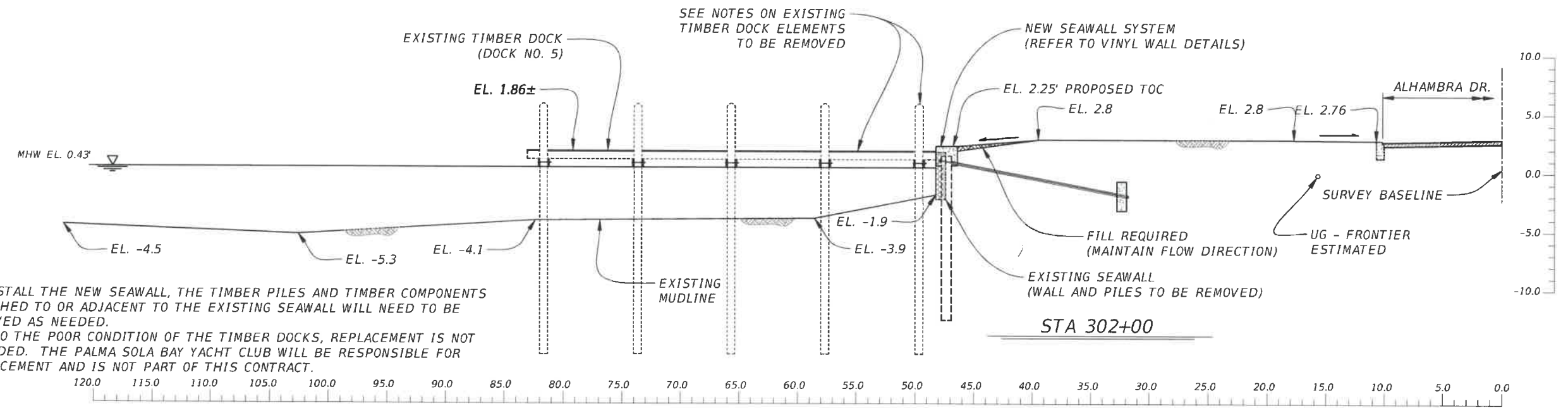
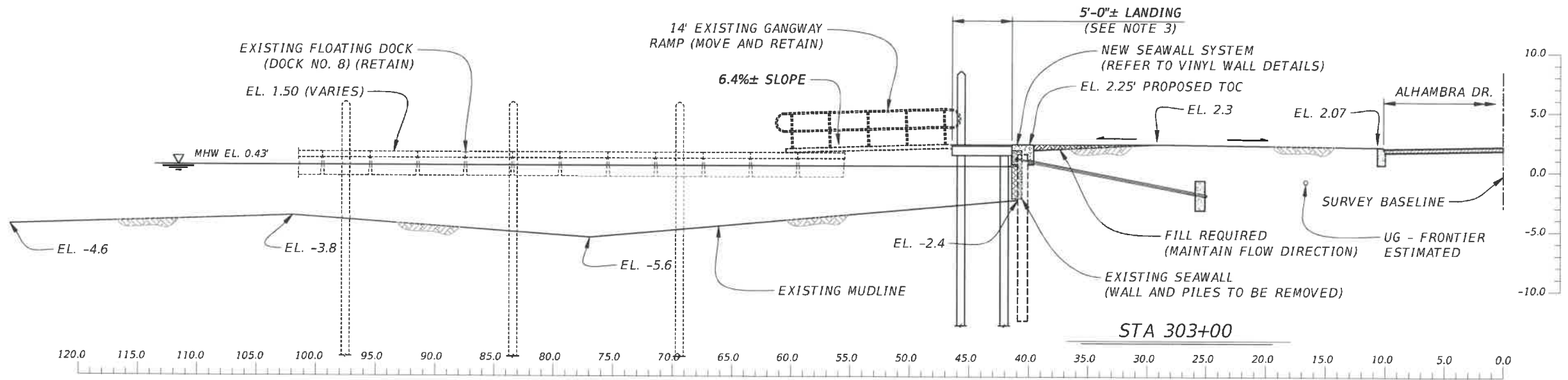


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BY	SML	SM	
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SEC./TWN./RGE	28/33S/18E		
SCALE	N.T.S		
SURVEYED	Hyatt	DATE	10/2018
DESIGNED	SML	DATE	08/2019
DRAWN	SML	DATE	04/2020
CHECKED			
STEVEN M. LANEY, P.E. FLORIDA P.E. # 46449			
Signature & Date			
SHEET 4 OF 28			

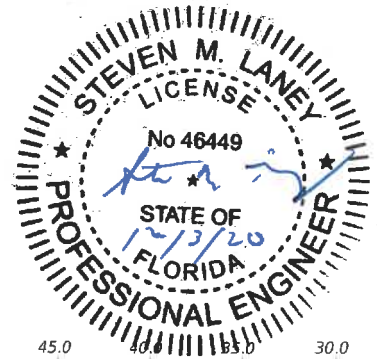
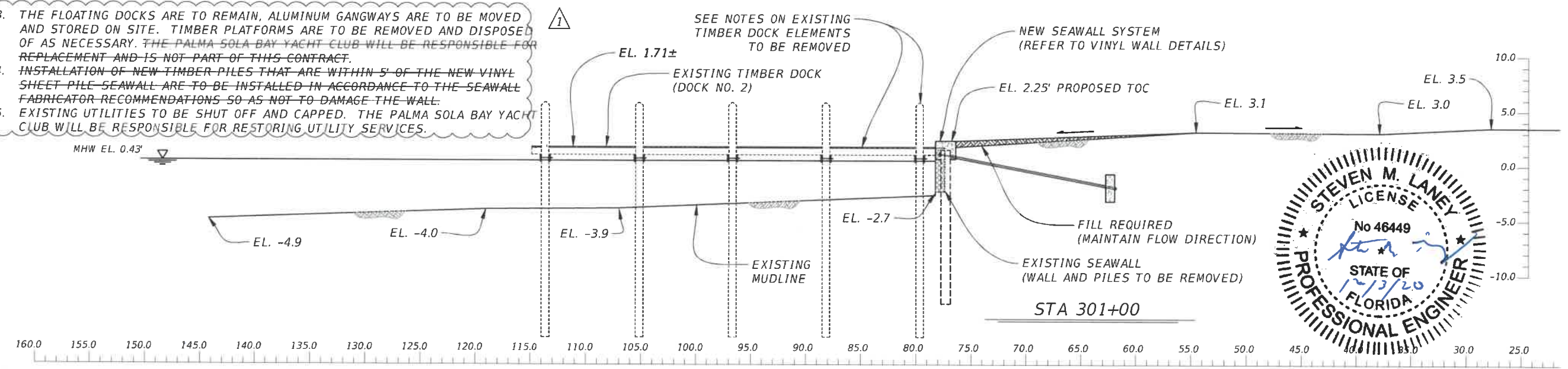
F:\Projects\Palma Sola Yacht Basin\Reaching Wall South\Wall 07 DWG\Palma Sola Ref. Wall South\Wall 01.dwg General Notes (3 of 3) 12/4/2020 3:26 PM Steven Laney, 1:17, ANSI Toll Based B (11,000 x 17,000 In=feet)

PORTOSUENO PARK SOUTH SEAWALL REPLACEMENT

TYPICAL SECTIONS (1 OF 2)



- NOTES:
1. TO INSTALL THE NEW SEAWALL, THE TIMBER PILES AND TIMBER COMPONENTS ATTACHED TO OR ADJACENT TO THE EXISTING SEAWALL WILL NEED TO BE REMOVED AS NEEDED.
 2. DUE TO THE POOR CONDITION OF THE TIMBER DOCKS, REPLACEMENT IS NOT INCLUDED. THE PALMA SOLA BAY YACHT CLUB WILL BE RESPONSIBLE FOR REPLACEMENT AND IS NOT PART OF THIS CONTRACT.
 3. THE FLOATING DOCKS ARE TO REMAIN, ALUMINUM GANGWAYS ARE TO BE MOVED AND STORED ON SITE. TIMBER PLATFORMS ARE TO BE REMOVED AND DISPOSED OF AS NECESSARY. THE PALMA SOLA BAY YACHT CLUB WILL BE RESPONSIBLE FOR REPLACEMENT AND IS NOT PART OF THIS CONTRACT.
 4. INSTALLATION OF NEW TIMBER PILES THAT ARE WITHIN 5' OF THE NEW VINYL SHEET PILE SEAWALL ARE TO BE INSTALLED IN ACCORDANCE TO THE SEAWALL FABRICATOR RECOMMENDATIONS SO AS NOT TO DAMAGE THE WALL.
 5. EXISTING UTILITIES TO BE SHUT OFF AND CAPPED. THE PALMA SOLA BAY YACHT CLUB WILL BE RESPONSIBLE FOR RESTORING UTILITY SERVICES.



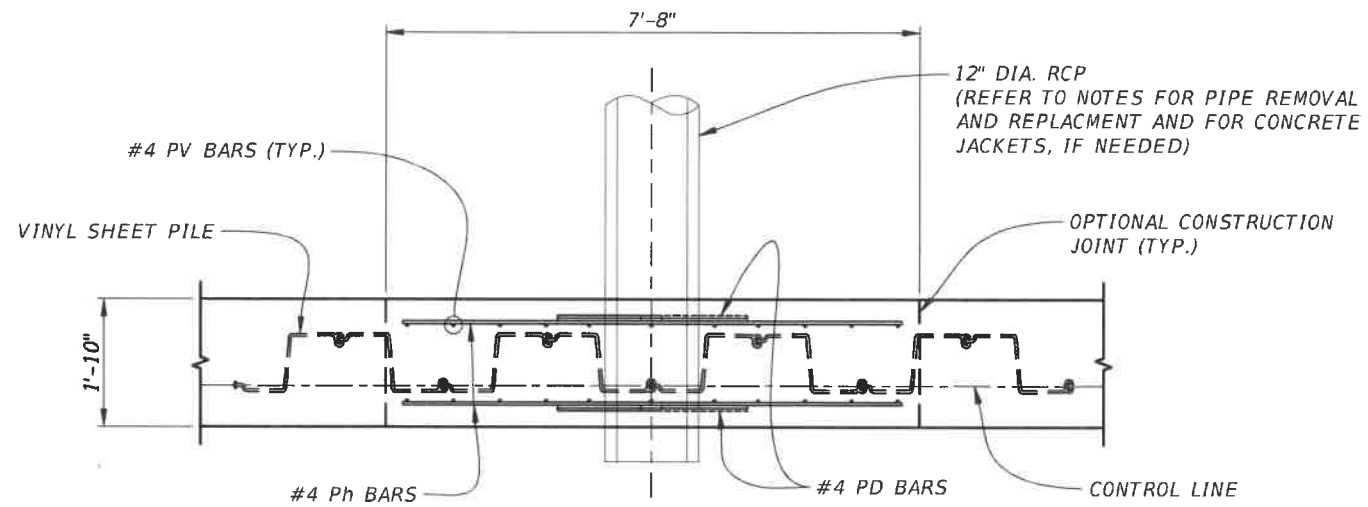
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BY	SML
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SCALE	1" = 10'
SURVEYED	Hyatt 10/2018
DESIGNED	SML 08/2019
DRAWN	SML 10/2019
CHECKED	
STEVEN M. LANEY, P.E. FLORIDA P.E. # 46449	
Signature & Date	

**PORTOSUENO PARK
SOUTH SEAWALL REPLACEMENT
DETAILS (1 OF 3)**

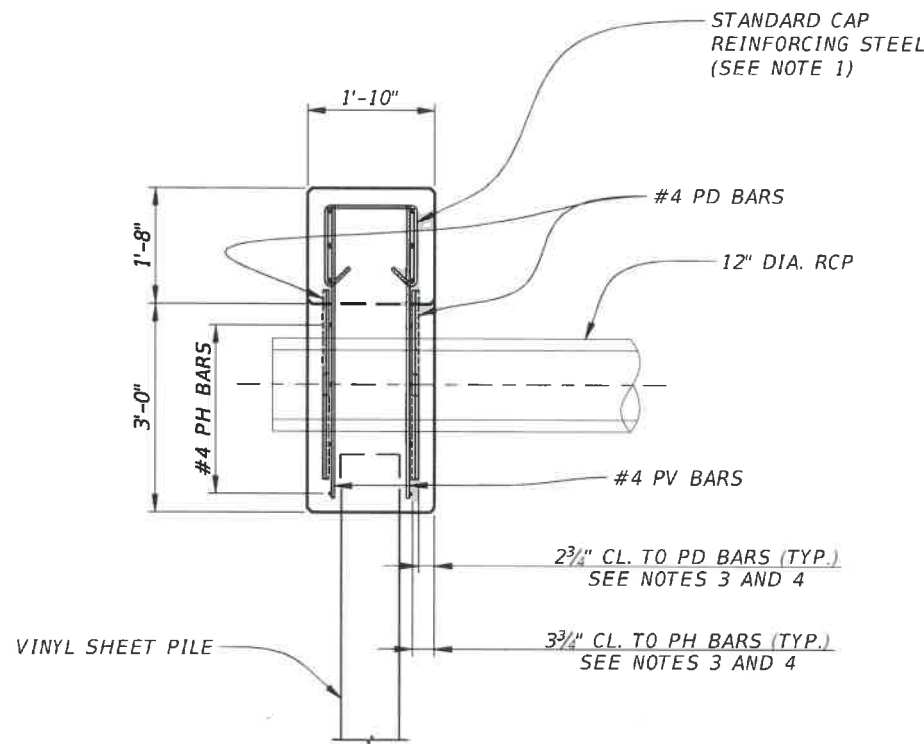
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SCALE	3/8" = 1'		
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DESIGNED	SML	08/2019	
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CHECKED			
STEVEN M. LANEY, P.E.			
FLORIDA P.E. # 46449			
Signature & Date			

NOTES:

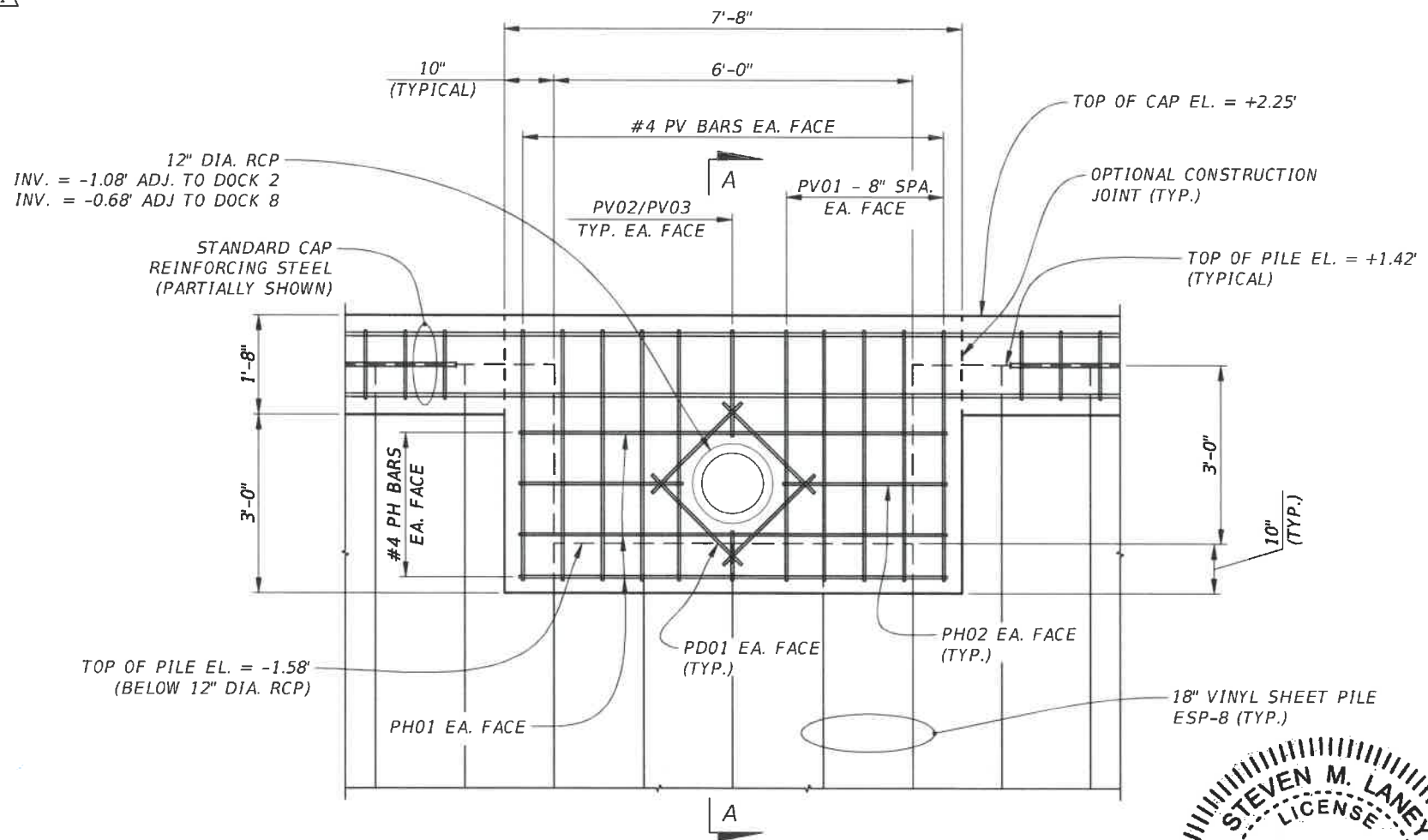
- THE DETAILS ON THIS SHEET ARE FOR THE EXTRA DEPTH CONCRETE CAPS OVER THE 12" DIA. STORM DRAIN PIPE ADJACENT TO DOCK 2 AND DOCK 8. REFER TO THE DETAILS PROVIDED BY ESP FOR THE 22" WIDE X 20" DEEP STANDARD CONCRETE CAP.
- SOME REINFORCING STEEL FOR THE STANDARD CONCRETE CAP MAY NOT BE SHOWN FOR CLARITY.
- CONCRETE CLEARANCE TO PH BARS IS 3 3/4" AND IS BASED ON PV BARS TIED TO THE #6 BARS IN THE STANDARD CAP. ADJUST AS NEEDED.
- REINFORCING STEEL CLEARANCE FOR THE PIPE IN THE EXTRA DEPTH CAP IS 2" FOR ALL BARS.
- CONSTRUCTION SEQUENCE FOR 12" DIA. RCP STORM DRAIN PIPE:
 - REMOVE END SECTION OF EXISTING 12" DIA. RCP STORM DRAIN PIPE.
 - WITH THE STORM DRAIN PIPE OUT OF THE WAY, INSTALL THE VINYL SHEET PILING TO THE ELEVATIONS BELOW THE INVERT ELEVATIONS AS SHOWN.
 - RE-INSTALL THE END SECTION OF STORM DRAIN PIPE IF THE EXISTING PIPE IS IN GOOD CONDITION. IF THE EXISTING SECTION OF PIPE IS IN POOR CONDITION, RE-INSTALL A NEW SECTION OF PIPE. REFER TO FDOT STANDARD SPECIFICATION 430.
 - USE GASKETS IN ACCORDANCE TO FDOT STANDARD SPECIFICATION 430 TO RECONNECT THE EXISTING PIPE SECTION OR USE A CONCRETE JACKET. REFER TO FDOT STANDARD INDEX 430-001 FOR CONCRETE JACKET DETAILS. PAYMENT TO BE INCLUDED IN THE COST OF CONCRETE FOR THE SHEET PILE CAPS.
 - CONSTRUCT THE CONCRETE CAP WALL SECTION OVER THE PIPE AS SHOWN IN THE DETAILS ON THIS SHEET.
- PAYMENT FOR THE REMOVAL AND REPLACEMENT OF THE PIPE IS INCLUDED IN THE COST OF CONCRETE FOR THE SHEET PILE CAPS.
- PAYMENT FOR NEW PIPE MATERIAL, IF REQUIRED, WILL BE PAID UNDER PAY ITEM NO. 430-74-112 FIELD DIRECTIVE.



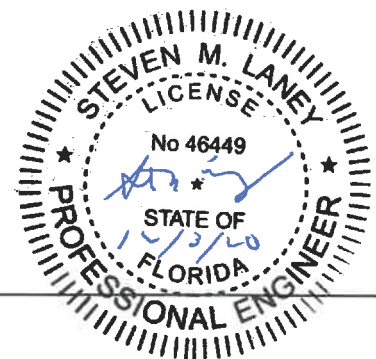
12" DIA. RCP SHEET PILE AND CAP MODIFICATION PARTIAL PLAN
(Scale: 3/8" = 1')



SECTION A-A
(Scale: 3/8" = 1')



12" DIA. RCP SHEET PILE AND CAP MODIFICATION PARTIAL ELEVATION
(Scale: 3/8" = 1')



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**PORTOSUENO PARK
SOUTH SEAWALL REPLACEMENT
ESP DETAILS (1 OF 5)**

General Design & Construction Notes:

Material:

General Design:

- 1.) All materials shall be as noted unless local codes provide a stricter guideline i.e. greater strength, durability, etc. It is the contractor's responsibility to understand and comply with these codes.
- 2.) No pipe penetration (drainage, utilities, etc.) information has been provided. If penetration through the sheet piles is required contractor is to submit a detail for review.

Sheet Pile:

- 1.) Sheet pile material shall be ESP 8.5 as provided by Everlast Synthetic Products, LLC.
- 2.) This design is based on the specific properties of Everlast synthetic sheet piling which are proprietary to Everlast Synthetic Products, LLC 1000 Wyngate Parkway, Suite 100, Woodstock, GA 30189. Any substitution of the specified product will invalidate this design. This drawing is being furnished for use on this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated whole or in part, nor disclosed to others without the consent of Everlast Synthetic Products, LLC.

Steel:

- 1.) Tie-rods, channels, reinforcing steel and plates shall be hot dipped galvanized per ASTM A-153 with 2 ounces of zinc per square foot. All steel fasteners shall be stainless steel (grade 304 or 316).
- 2.) Tie-rod washers (plate, ogee, fender or New York dock) shall have a minimum outer diameter of four times the rod/bolt diameter. Beveled washers shall be used for tie-rods installed at an incline.
- 3.) All reinforcing steel to have a minimum yield strength of 60 ksi.

Concrete:

- 1.) Concrete to have a 28-day compressive strength of 5,000 psi.
- 2.) Concrete mix to have a max. w/c ratio of 0.4.
- 3.) Concrete to be vibrated to minimize air voids.
- 4.) Concrete to be formed, poured & cured per ACI 318 standards.

Backfill:

- 1.) Backfill material is to be free-draining sand or gravel (SP, SW, GP or GW) per ASTM D-2487 and compacted a minimum of 95% per ASTM D-698.
- 2.) If a fine grained, non-cohesive soil (fine sands, "sugar sand", etc.) is to be used, a geotextile is to be placed between sheet pile and soil before backfill installation.

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Roswell, GA 30075
678.315.1751
CA#: 30632

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Date: 9/4/19

Project:
**Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL**

Revisions

Sheet 1 of 10

Preliminary,
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signature, and date

Design:

- 1.) Design is based on soil properties as noted in typical sections.
- 2.) If actual soil or site conditions differ from that noted in drawings, the engineer shall be notified immediately for a possible redesign.
- 3.) Design does not account for presence of underground springs or wells. If these conditions exist the engineer shall be notified immediately for the need of a redesign.

Installation:

Safety:

- 1.) Installation to be conducted according to all applicable OSHA and local codes. It is the contractors responsibility to understand and comply with these codes.
- 2.) Contractor to contact appropriate utility(s) before construction commences.

Geotechnical:

- 1.) Design was based on Universal Engineering Sciences report no. 0330.1800039.0000, dated Apr. 18, 2018.
- 2.) At a minimum, the contractor shall probe along the alignment of the sheet pile (approx. every 5') to determine the potential of any soil variation or obstructions.

Sheet Pile:

- 1.) Sheet piles shall be vibrated or driven for placement. No jetting will be allowed without written approval from the engineer.
- 2.) Sheet pile shall penetrate to depth shown in the plans.
- 3.) After driving sheet pile and attaching wale, saw piling off at a true plane indicated on the plans. Final elevations are to be within one (1) inch of established elevation.
- 4.) 20' return walls to be provided at ends of all bulkheads to provide flanking protection.

Concrete Cap/Wale:

- 1.) Expansion joints are to be located at no greater than 49' intervals.
- 2.) Expansion joints are to be located no closer than 10' from corners/turns.
- 3.) Two contraction joints are to be evenly spaced between expansion joints.
- 4.) Contraction joints shall be 1" depth saw cut with cut being sealed by 20H epoxy adhesive and Miter/Topcoat 200 as noted in joint detail, sheet B.
- 5.) All reinforcing steel to have a minimum cover of 3".

Deadman:

- 1.) All deadmen are to be constructed and positioned according to the attached plans.
- 2.) If using threaded tie-rod, no less than three (3) full threads shall extend beyond the outside face of the nuts.

Documentation:

- 1.) Contractor shall provide written documentation after the end of the work day certifying all piles have been driven to the required depths. If any piles are unable to be driven to the required depths, contractor shall notify the owner and engineer immediately.

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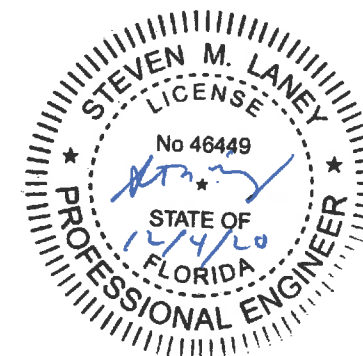
Project:
**Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL**

Revisions

Sheet 2 of 10

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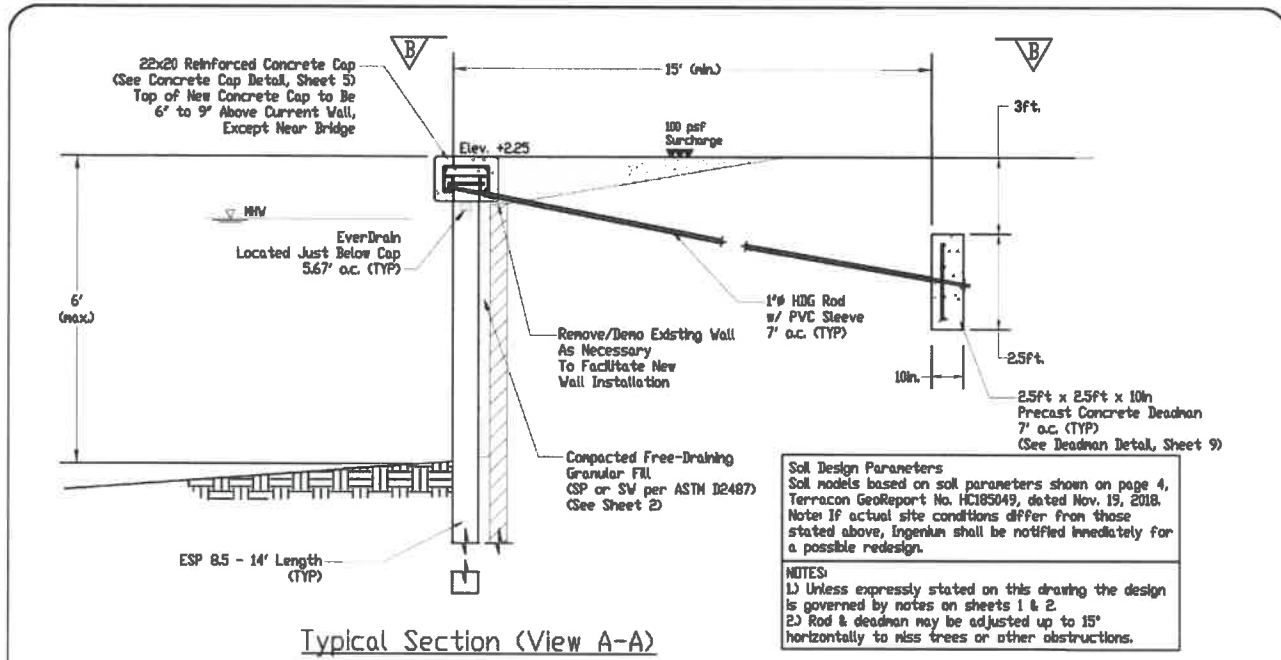
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SCALE	As Noted		
	BY	DATE	
SURVEYED	Hyatt	10/2018	
DESIGNED	SML	08/2019	
DRAWN	SML	10/2019	
CHECKED			

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FLORIDA P.E. # 46449

Signature & Date

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**PORTOUSUENO PARK
SOUTH SEAWALL REPLACEMENT
ESP DETAILS (2 OF 5)**



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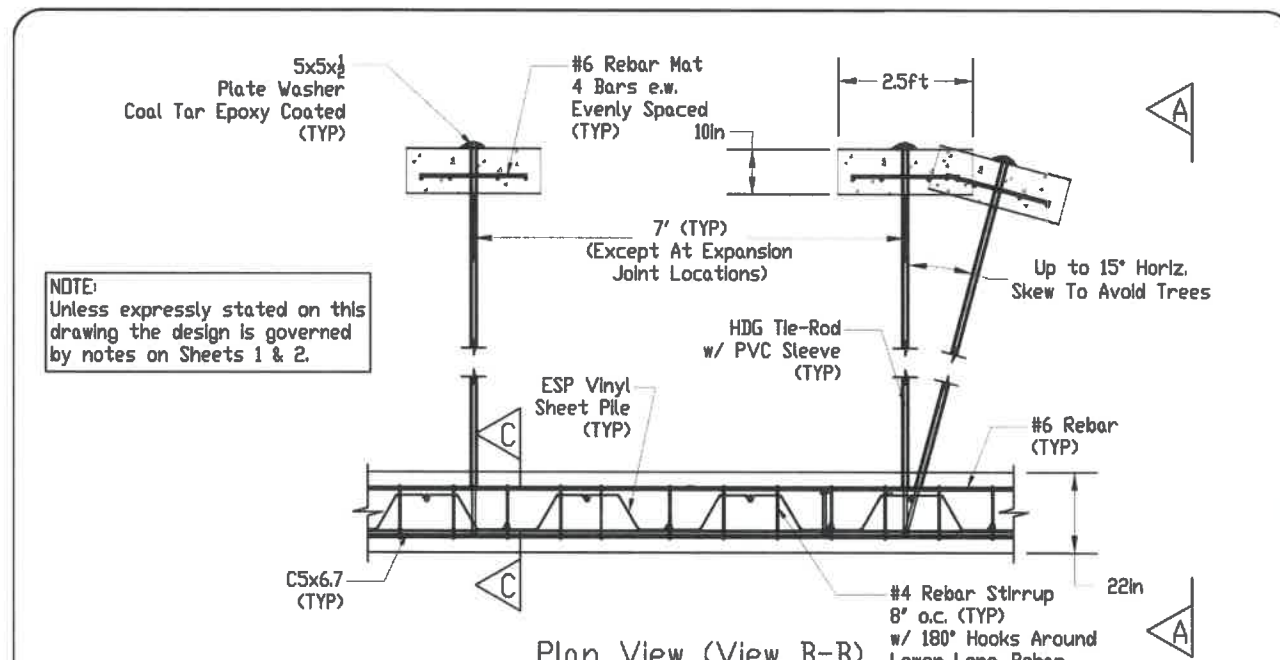
Project:
Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL

Revisions

Sheet 3 of 10

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Project:
Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL

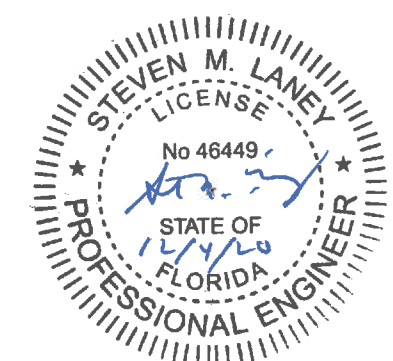
Revisions

Sheet 4 of 10

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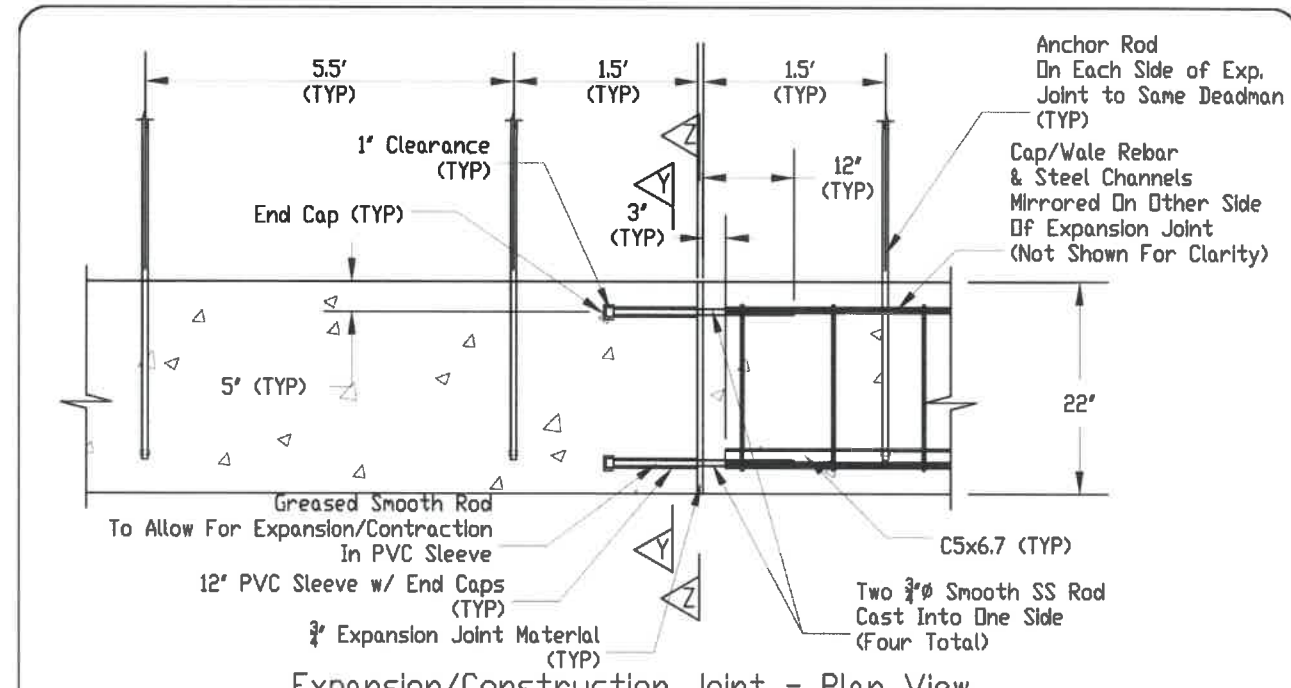
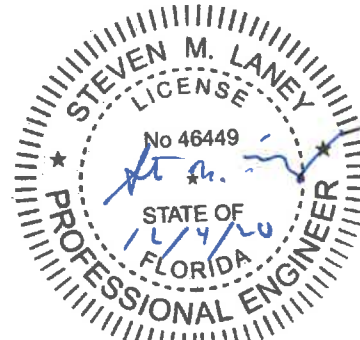


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DESIGNED	SML	08/2018					
DRAWN	SML	10/2019					
CHECKED							
STEVEN M. LANEY, P.E.							
FLORIDA P.E. # 46449							
Signature & Date							

**PORTUENNO PARK
SOUTH SEAWALL REPLACEMENT
ESP DETAILS (3 OF 5)**

DATE	12/4/20
BY	SML
REVISION DESCRIPTION	ADJUSTED VIEWS

PROJECT #	6081101
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SEC./TWN./RGE	28/33S/18E
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DESIGNED	SML 08/2019
DRAWN	SML 10/2019
CHECKED	
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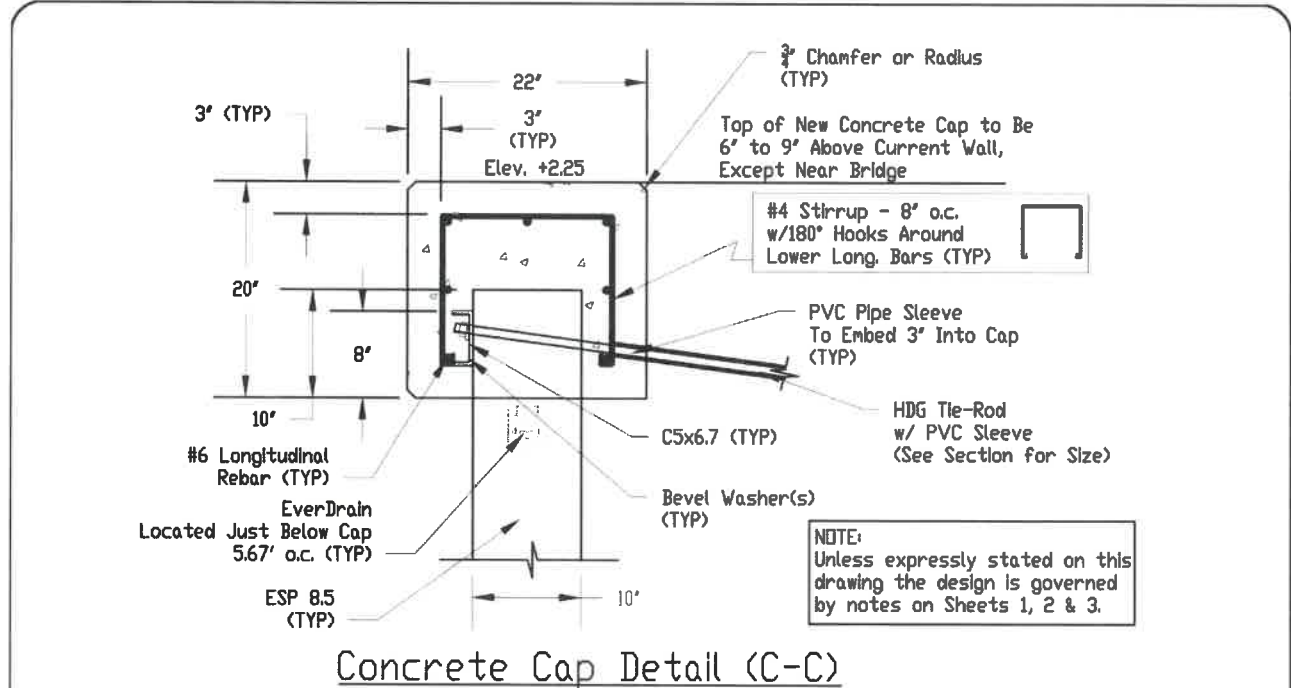
Project:
Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL

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Sheet 6 of 10

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Date: 9/4/19

Project:
Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL

Revisions

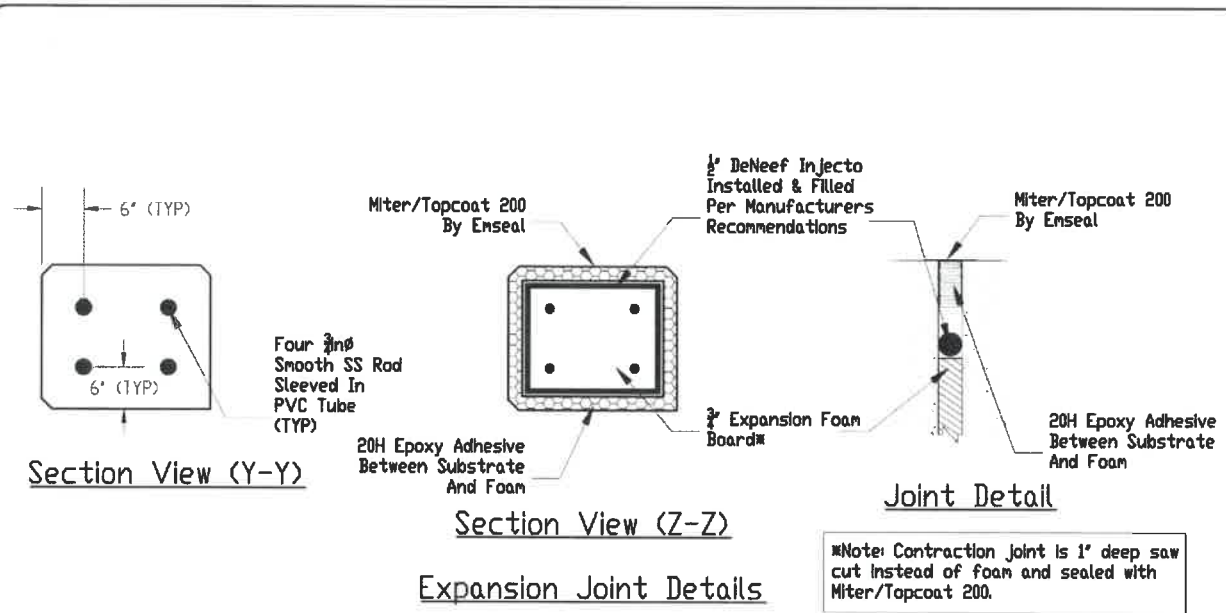
Sheet 5 of 10

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**PORTO SUENO PARK
SOUTH SEAWALL REPLACEMENT
ESP DETAILS (4 OF 5)**



Note: Contraction joint is 1\"/>

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Project:
Bulkhead Design
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South Wall
Bradenton, FL

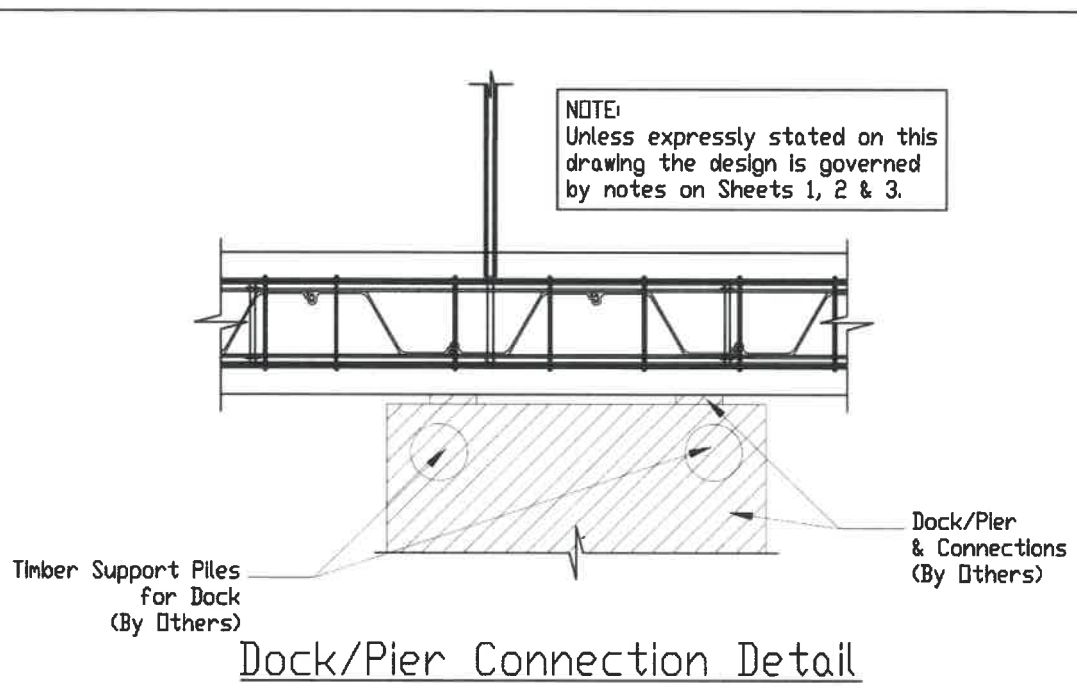
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Sheet 7 of 10

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Scale: NTS

Date: 9/4/19

Project:
Bulkhead Design
Palma Sola Yacht Basin
South Wall
Bradenton, FL

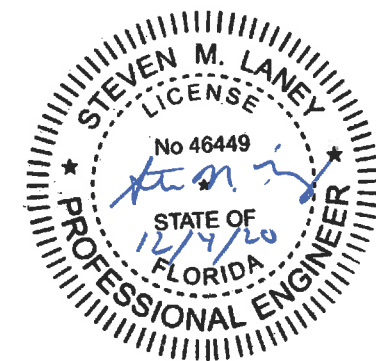
Revisions

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Sheet 8 of 10

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SEC./TWN./RGE	28/33S/18E
SCALE	As Noted
SURVEYED	Hyatt 10/2018
DESIGNED	SML 08/2019
DRAWN	SML 10/2019
CHECKED	

STEVEN M. LANEY, P.E.
FLORIDA P.E. # 46449

Signature & Date

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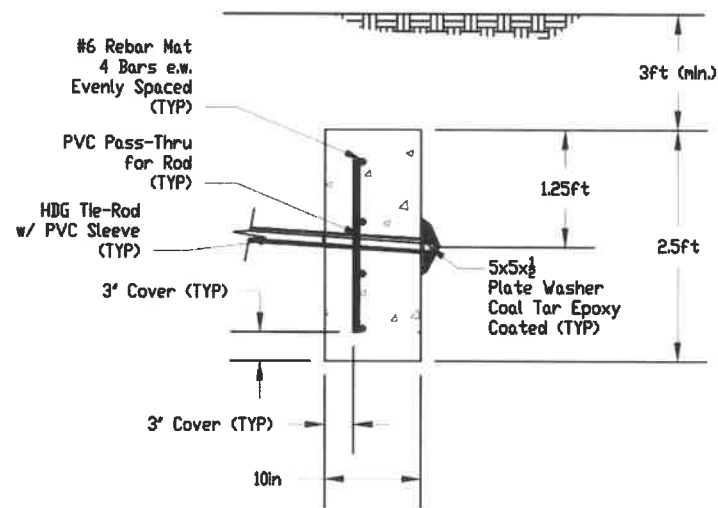
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PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 56th Avenue East, Bradenton, FL 34208

**PORTUENENO PARK
 SOUTH SEAWALL REPLACEMENT
 ESP DETAILS (5 OF 5)**

NOTE:
 Unless expressly stated on this drawing the design is governed by notes on Sheets 1, 2 & 3.



Precast Concrete Deadman Detail

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 Roswell, GA 30075
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 CA#: 30632

Scale: NTS

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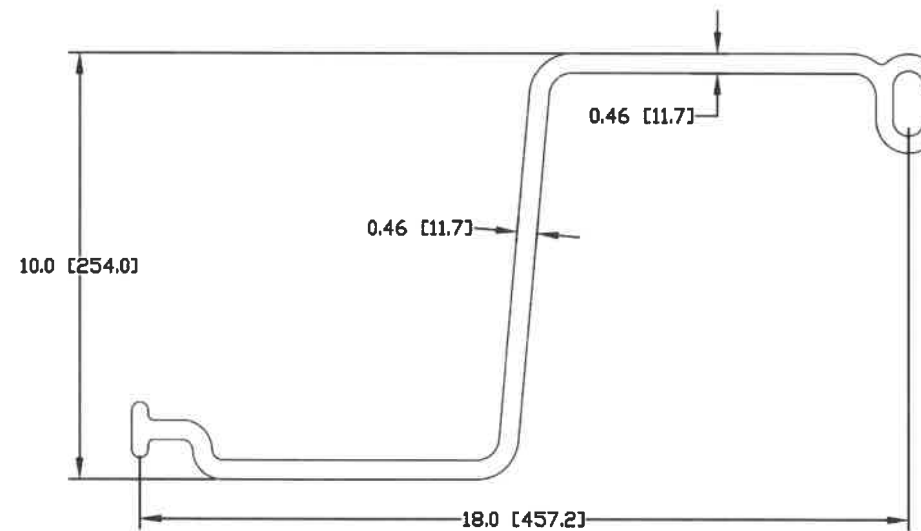
Project:
 Bulkhead Design
 Palma Sola Yacht Basin
 South Wall
 Bradenton, FL

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Sheet 9 of 10

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 CONSTRUCTION

Certified only with seal,
 signature, and date



ESP 8.5

Ingenium, Inc.TM
 4085 Devereux Chase
 Roswell, GA 30075
 678.315.1751
 CA#: 30632

Scale: NTS

Date: 9/4/19

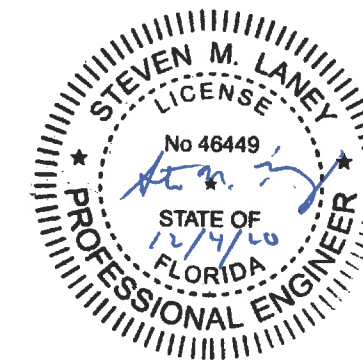
Project:
 Bulkhead Design
 Palma Sola Yacht Basin
 South Wall
 Bradenton, FL

Revisions

Sheet 10 of 10

Preliminary.
 NOT FOR
 CONSTRUCTION

Certified only with seal,
 signature, and date



NO.	REVISION DESCRIPTION	DATE
1	ADJUSTED VIEWS	12/4/20

PROJECT #	6081101
SURVEY #	0000
SEC./TWN./RGE	28/33S/18E
SCALE	As Noted
SURVEYED	Hyatt 10/2018
DESIGNED	SML 08/2019
DRAWN	SML 10/2019
CHECKED	

STEVEN M. LANEY, P.E.
 FLORIDA P.E. # 46449

Signature & Date



**APPENDIX K, BID PRICING FORM (REVISION 2)
 PORTOSUENO PARK SOUTH SEAWALL REPLACEMENT
 COUNTY PROJECT NO. 6081101**

BID "A" BASED ON 300 CALENDAR DAYS COMPLETION

Bidder must provide prices for each line item for their bid to be considered responsive.

ADDENDUM NO. 2

Bid Item#	FDOT Item#	Description	Estimated Quantity	Unit	Unit Price	Total Amount per Item
1	101-1	MOBILIZATION	1.00	LS		\$ -
2	101-2	MAINTENANCE OF TRAFFIC	1.00	LS		\$ -
3	104-10-3	SEDIMENT BARRIER	700.00	LF		\$ -
4	104-11	FLOATING TURBIDITY BARRIER	1,600.00	LF		\$ -
5	104-18	INLET PROTECTION SYSTEM	2.00	EA		\$ -
6	110-1-1	CLEARING AND GRUBBING	0.50	AC		\$ -
7	110-73	REMOVE EXISTING BULKHEAD	579.00	LF		\$ -
8	120-6	EMBANKMENT	110.00	CY		\$ -
9	125-3	SELECT BEDDING MATERIAL	10.00	CY		\$ -
10	400-4-8	CONCRETE CLASS IV, BULKHEAD CAP (Standard)	65.52	CY		\$ -
11	415-1-8	REINFORCING STEEL - BULKHEAD CAP (Standard)	9,011.00	LB		\$ -
12	400-4-8	CONCRETE CLASS IV, BULKHEAD CAP (Extra Depth)	2.44	CY		\$ -
13	415-1-8	REINFORCING STEEL - BULKHEAD CAP (Extra Depth)	210.00	LB		\$ -
14	400-4-8	CONCRETE CLASS IV, BULKHEAD DEADMAN	16.40	CY		\$ -
15	415-1-8	REINFORCING STEEL - BULKHEAD DEADMAN	2,043.00	LB		\$ -
16	400-4-8	CONCRETE CLASS IV, BULKHEAD CLOSURES	1.40	CY		\$ -
17	415-1-8	REINFORCING STEEL - BULKHEAD CLOSURES	126.00	LB		\$ -
18	455-87	ANCHOR BAR, STEEL (1 - 1" DIA. HDG ROD W/PVC SLEEVE)	85.00	EA		\$ -
19	455-135	VINYL SHEET PILING, ESP 8.5 - 14' Long	8,106.00	SF		\$ -
20	570-1-2	PERFORMANCE TURF, SOD	1,290.00	SY		\$ -
		SUBTOTAL (Lines 3-20) for Project No. 6081101. Completion Time Based on 300 Calendar Days				\$ -
21		CONTRACT CONTINGENCY WORK (Does not include Mobilization or MOT. Used Only With Prior County Approval)	1.00	LS	10%	\$ -
TOTAL BID "A" (PROJECT NO. 6081101) COMPLETION TIME BASED ON 300 CALENDAR DAYS						\$ -