



September 6, 2024

Ms. Kimberly B. Rezanka  
6013 Farcenda, PL, Suite 101  
Melbourne, FL 32940

**Re: 1865 & 1935 S. Banana River Drive, Merritt Island  
Engineering Assessment  
BEC No. 23.420**

Dear Ms. Rezanka:

As requested, we prepared a plan view sketch showing the limits for the dredging, littoral shelf, and stormwater treatment swale. Furthermore, using the best available data for Pelican Creek, the cross-sections prepared by Fleis Associates and submitted as part of the 1991, SJRWMD permit number 12-009-0056S were “redlined” to show the revised improvements.

The dredging of the canal would not only increase the cross-sectional flow area of the Pelican Creek but would also reduce the Manning’s roughness coefficient “n”, both of which would reduce the hydraulic grade in Pelican Creek.

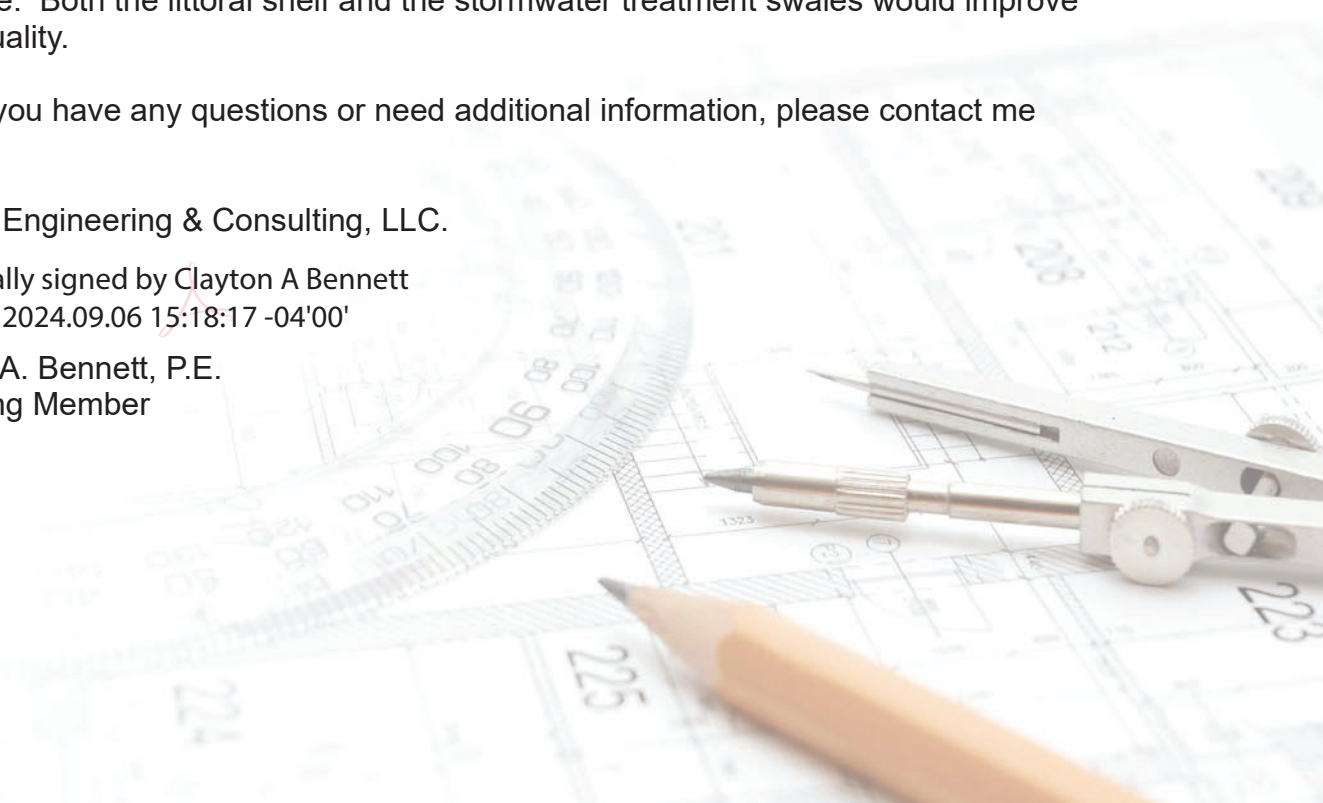
The littoral shelf would provide space for the planting of appropriate wetland vegetation along the shoreline, and the stormwater treatment swales be designed to capture and retain a minimum of 1-inch of runoff from the impervious area draining toward the shoreline. Both the littoral shelf and the stormwater treatment swales would improve water quality.

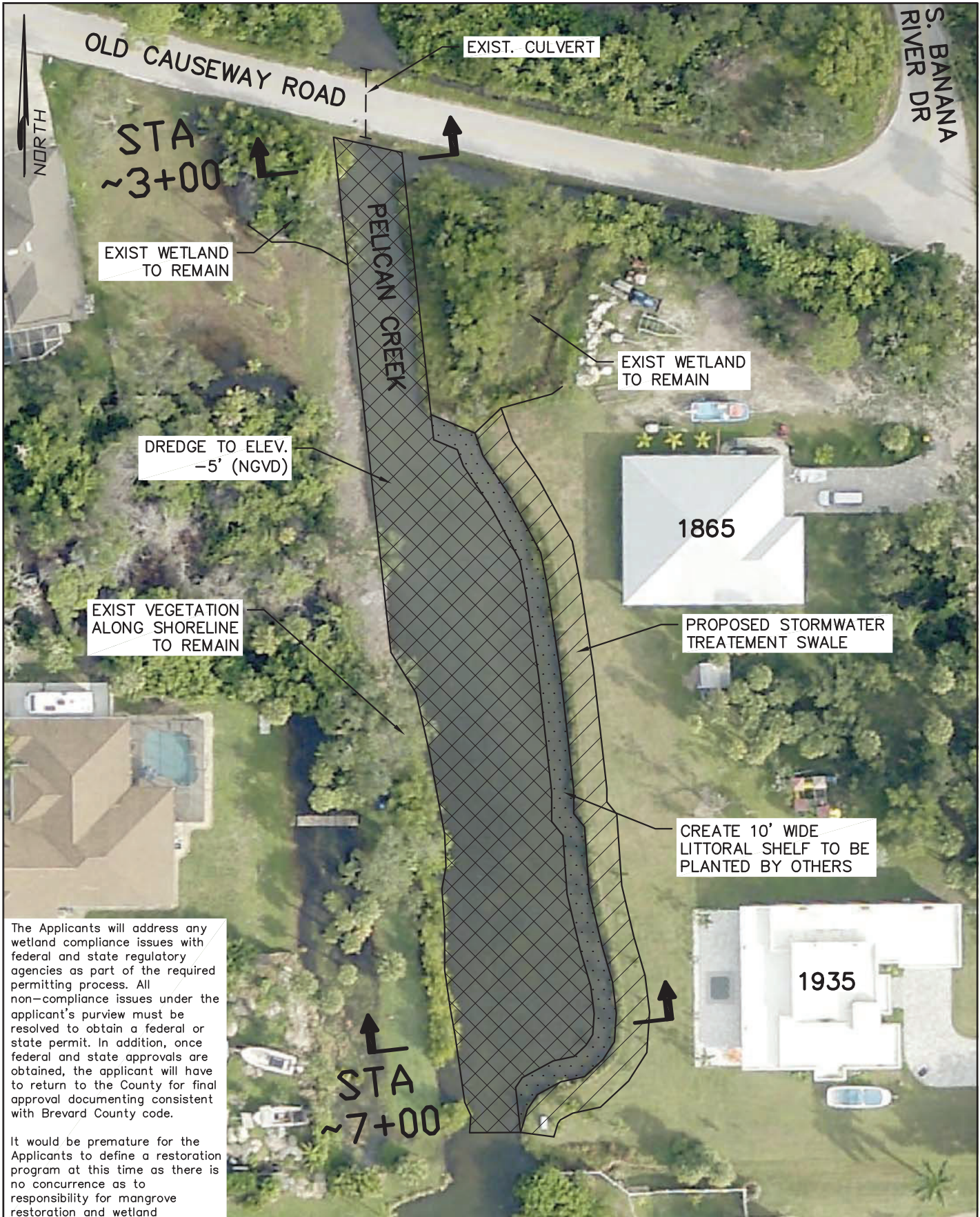
Should you have any questions or need additional information, please contact me directly.

Bennett Engineering & Consulting, LLC.

Digitally signed by Clayton A Bennett  
Date: 2024.09.06 15:18:17 -04'00'

Clayton A. Bennett, P.E.  
Managing Member

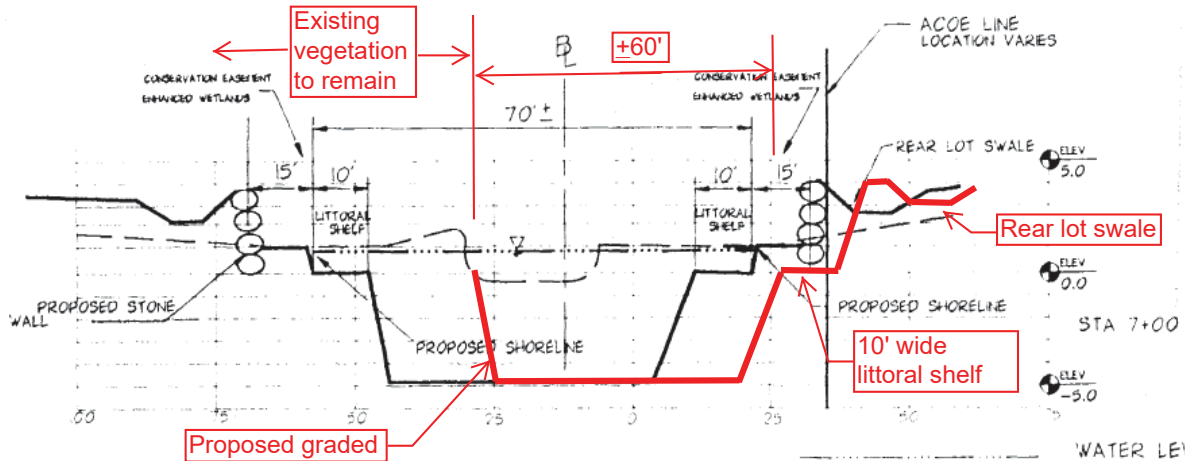
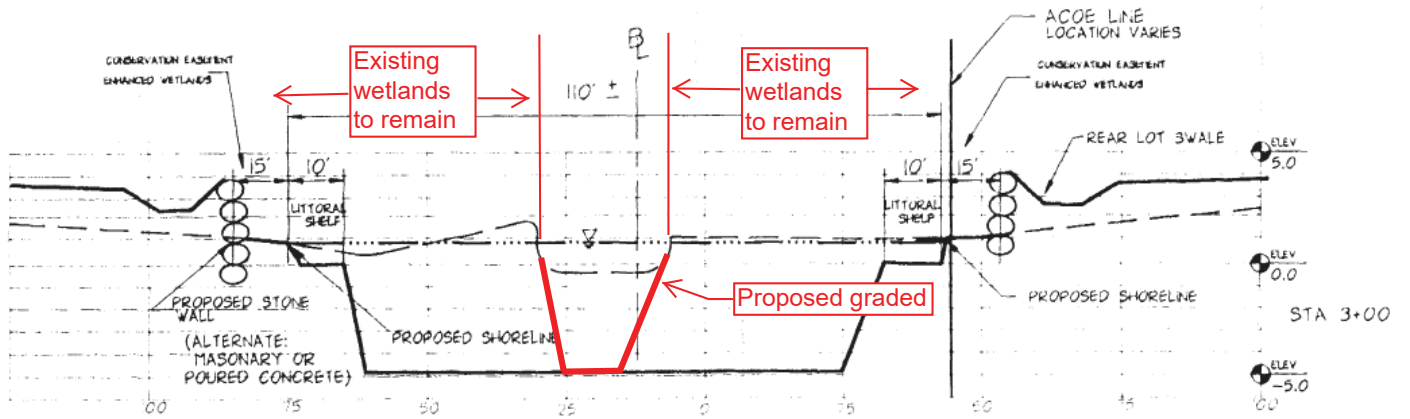




The Applicants will address any wetland compliance issues with federal and state regulatory agencies as part of the required permitting process. All non-compliance issues under the applicant's purview must be resolved to obtain a federal or state permit. In addition, once federal and state approvals are obtained, the applicant will have to return to the County for final approval documenting consistent with Brevard County code.

It would be premature for the Applicants to define a restoration program at this time as there is no concurrence as to responsibility for mangrove restoration and wetland

<b>Bennett Engineering &amp; Consulting</b> BENNETT ENGINEERING & CONSULTING, LLC 4940 RANCHLAND ROAD MELBOURNE, FL 32934 (321) 822-4462 CA#28236	BEC NO: 23,420		1865 & 1935 BANANA RIVER DR MERRITT ISLAND <b>PROPOSED IMPROVEMENTS</b>	DRAWING NO: <b>1</b>
	DRAWN BY: CAB	08/27/24		
	DESIGNED BY: CAB	08/27/24		
	CHECKED BY: CAB	08/27/24		
	SCALE: 1"=60'			



**Notes:**  
 1. Cross-sections based on the plans prepared by Fleis Associates (project no. 88-155, dated 7-1-91).  
 2. Redlined comments prepared by Bennett Engineering & Consulting, LLC, for the dredging associated with 1865 & 1935 S Banana River Dr.

- - - - - WATER LEVEL  
 ——— PROPOSED GROUND  
 - - - - - EXISTING GROUND

## HARBOR POINT