

## Interoffice Memorandum

**DATE:** July 31, 2024

**TO:** Mayor Jerry L. Demings and County Commissioners

**THROUGH:** N/A

**FROM:** Tanya Wilson, AICP, Director, Planning, Environmental, and Development Services Department

**CONTACT:** Renée H. Parker, LEP, Manager, Environmental Protection Officer

**PHONE:** (407) 836-1420

**DIVISION:** Environmental Protection Division

### **ACTION REQUESTED:**

Acceptance of the findings and recommendation of the Environmental Protection Division staff and approval of Shoreline Alteration/Dredge and Fill Permit SADF-24-06-013 for Barbara A. Neel Life Estate, REM: Barbara Ann Neel, subject to the conditions listed in the staff report. District 2

**PROJECT:** Shoreline Alteration/Dredge and Fill Permit Application for Barbara A. Neel Life Estate, REM: Barbara Ann Neel (SADF-24-06-013).

**PURPOSE:** The applicant, Barbara A. Neel Life Estate, REM: Barbara Ann Neel, is requesting a Shoreline Alteration/Dredge and Fill permit to authorize construction of a replacement aluminum sheet pile seawall, along the shoreline of Lake Weston. The property is located at 5808 Satel Drive, Orlando, Florida, 32810, Parcel ID No. 34-21-29-0314-02-590; District 2.

The applicant is proposing to construct approximately 65 feet of replacement aluminum sheet pile seawall. The proposed seawall will have 5-foot returns on both ends. Rip rap will be installed to cover 50% of the face of the seawall with 12"-18" natural stone at a 1:2 slope ratio. Where sufficient existing vegetation does not exist, three rows of at least 5 different native species of aquatic vegetation will be installed on one-foot centers to ensure that 80% coverage of natural aquatic vegetation is achieved. Both adjacent properties on either side have seawalls.

Staff Recommendation

Approval of the SADF permit, subject to the following conditions:

### Specific Conditions

1. This permit shall become final and effective upon expiration of the 30-calendar day period following the date of rendition of the Board's decision approving the permit unless a petition for writ of certiorari or other legal challenge has been filed within this timeframe. Any timely filed petition or other challenge shall stay the effective date of this permit until the petition or other challenge is resolved in favor of the Board's decision.
2. The operational phase of this permit is effective upon the completion of construction and continues in perpetuity.
3. Construction activities shall be completed in accordance with the engineered plans signed and sealed by Jennifer Teliga, P.E., received by the Environmental Protection Division (EPD) on July 3, 2024. The permitted activity must commence within six months and be completed within one year from the date of issuance of the permit. In the event that the project has not commenced within six months or been completed within one year or extended, this permit shall be void and a new permit application with fee will be required.
4. In the event that the permitted activity has not been completed within one year, the Environmental Protection Officer may grant a permit extension of up to one additional year. Requests for permit extension must be submitted to EPD prior to the expiration date. No changes to the approved plans will be authorized with a permit extension.
5. This permit does not authorize any dredging or filling except that which is necessary for the installation of the seawall, as depicted on the approved plans.
6. Turbidity and sediment shall be controlled to prevent off-site, unpermitted impacts and violations of water quality standards pursuant to Rules 62-302.500, 62-302.530(70), and 62-4.242, Florida Administrative Code (F.A.C.). Best Management Practices (BMPs), as specified in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (2013, or most current version), shall be installed and maintained at all locations where there is the possibility of transferring sediment, turbidity, or other pollutants into wetlands and/or surface waters due to the permitted activities. BMPs are performance based; if selected BMPs are ineffective or if site-specific conditions require additional measures, then the permittee shall implement additional or alternative measures as necessary to prevent adverse impacts to wetlands and/or surface waters. Turbidity discharging from a site must not exceed 29 Nephelometric Turbidity Units (NTU) over background for Class III waters and their tributaries or 0 NTU over background for those surface waters and tributaries designated as Outstanding Florida Waters (OFWs).
7. Discharge of groundwater from dewatering operations requires approval from the Florida Department of Environmental Protection (FDEP) and the applicable Water Management District. The operator/contractor shall obtain an FDEP Generic Permit for the Discharge of Ground Water from Dewatering Operations pursuant to the requirements of Chapters 62-621.300(2)(a) and 62-620, F.A.C., and Chapter 403 FS. Discharges directed to the County's MS4 require an Orange County Right-of-Way Utilization Permit for Dewatering prior to the start of any discharges.

### General Conditions:

8. A copy of this permit, along with EPD stamped and approved drawings, should be taken to the Orange County Zoning Division (OCZD) at 201 South Rosalind Avenue for review

prior to applying for a Building Permit. For further information, please contact the OCZD at (407) 836-5525.

9. After approval by OCZD, the certified site plans will need to be reviewed by the Orange County Building Safety Division (OCBSD) in order to obtain a Building Permit. For further information, please contact the OCBSD at (407) 836-5550.
10. The permittee shall require the contractor to maintain a copy of this permit, complete with all approved drawings, plans, conditions, attachments, exhibits, and modifications in good condition at the construction site. The permittee shall require the contractor to review the permit prior to commencement of the activity authorized by this permit. The complete permit shall be available upon request by Orange County staff.
11. Subject to the terms and conditions herein, the permittee is hereby authorized to perform or cause to be performed, the impacts shown on the application and approved drawings, plans, and other documents attached hereto or on file with EPD. The permittee binds themselves and any successors to comply with the provisions and conditions of this permit. If EPD determines at any time that activities are not in accordance with the conditions of the permit, work shall cease, and the permit may be revoked immediately by the Environmental Protection Officer. Notice of the revocation shall be provided to the permit holder promptly thereafter.
12. Issuance of this permit does not warrant in any way that the permittee has riparian or property rights to construct any structure permitted herein and any such construction is done at the sole risk of the permittee. In the event that any part of the structure permitted herein is determined by a final adjudication issued by a court of competent jurisdiction to encroach on or interfere with adjacent property owners' riparian or other property rights, the permittee agrees to either obtain written consent or to remove the offending structure or encroachment within 60 days from the date of the adjudication. Failure to comply shall constitute a material breach of this permit and shall be grounds for its immediate revocation.
13. This permit does not release the permittee from complying with all other federal, state, and local laws, ordinances, rules and regulations. Specifically, this permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities upon property which is not owned or controlled by the permittee or convey any rights or privileges other than those specified in the permit and Chapter 15, Article VI of the Orange County Code. If these permit conditions conflict with those of any other regulatory agency, the permittee shall comply with the most stringent conditions. The permittee shall immediately notify EPD of any conflict between the conditions of this permit and any other permit or approval.
14. The permittee is hereby advised that Section 253.77 FS, states that a person may not commence any excavation, construction, or other activity involving the use of sovereignty or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

15. Should any other regulatory agency require changes to the property or permitted activities, the permittee shall provide written notification to EPD of the change prior to implementation so that a determination can be made whether a permit modification is required.
16. EPD shall have final construction plan approval to ensure that no modification has been made during the construction plan process.
17. The permittee shall immediately notify EPD in writing of any previously submitted information that is later discovered to be inaccurate. EPD may revoke the permit upon discovery of information that may cause pollution to water bodies, cause an adverse impact on the riparian rights of other waterfront property owners, or impede the traditional use and enjoyment of the waterbody by the public.
18. EPD staff, with proper identification, shall have permission to enter the site at any reasonable time to ensure conformity with the plans and specifications approved by the permit.
19. The permittee shall notify EPD, in writing, within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. The permittee shall remain liable for any corrective actions that may be required as a result of any permit violations until the permit is legally transferred.
20. The permittee shall hold and save the County harmless from any and all damages, claims or liabilities, which may arise by reason of the activities authorized by the permit.
21. All costs, including attorney's fees, incurred by the County in enforcing the terms and conditions of this permit shall be required to be paid by the permittee.
22. The permittee agrees that any dispute arising from matters relating to this permit shall be governed by the laws of Florida and initiated only in Orange County.
23. Pursuant to Section 125.022 FS, issuance of this permit by the County does not in any way create any rights on the part of the applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the County for issuance of the permit if the applicant fails to obtain the requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.
24. Pursuant to Section 125.022 FS, the applicant shall obtain all other applicable state or federal permits before commencement of construction.

**BUDGET: N/A**

# Shoreline Alteration/Dredge and Fill Permit Request



## Shoreline Alteration/Dredge and Fill Permit Request SADF-24-06-013

District #2

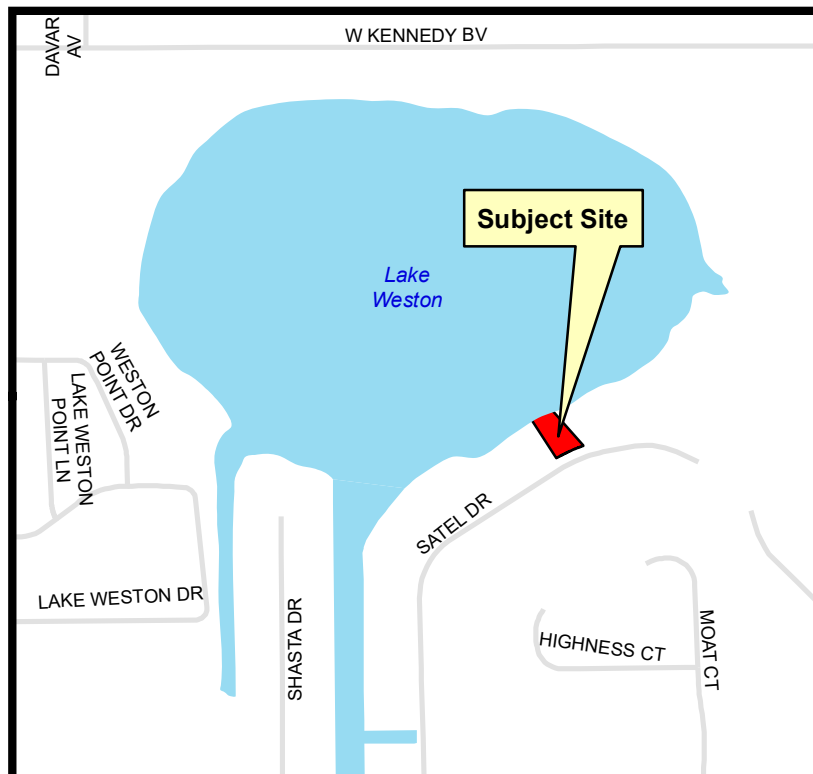
Applicant: Barbara A. Neel Life Est.  
REM: Barbara Ann Neel

Address: 5808 Satel Drive

Parcel ID: 34-21-29-0314-02-590

Project Site: 

Property Location: 



**LEGAL DESCRIPTION:**

LOT 59, BLOCK B ASBURY PARK FIRST ADDITION  
ACCORDING TO THE PLAT THEREOF, AS RECORDED IN  
PLAT BOOK Y, PAGE 80 OF THE PUBLIC RECORDS OF  
ORANGE COUNTY, FLORIDA.

**PARCEL ID:**

34-21-29-0314-02-590

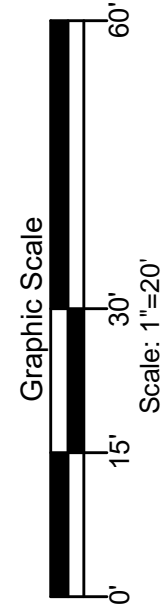
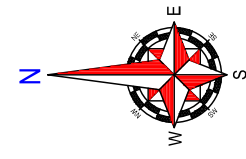
**NOTE:** ALL ELEVATIONS NAVD '88 DATUM



**SITE PLAN**  
for  
**BARBARA NEEL SEAWALL**  
at  
**5808 SATEL DRIVE**  
ORLANDO, FL 32810

**ENGINEER:**

JENNIFER L. TELIGA, P.E.  
P.E. # 64621  
2901 BLUESTEM LN.  
CLERMONT, FL 34714  
(321)662-7503



WHERE SUFFICIENT EXISTING VEGETATION  
DOES NOT EXIST:  
THREE ROWS OF AT LEAST 5 DIFFERENT  
NATIVE SPECIES OF AQUATIC VEGETATION  
WILL BE INSTALLED ON 1' CENTERS TO  
ACHIEVE 80% COVERAGE  
PLANTS WILL BE 1 GALLON SIZED

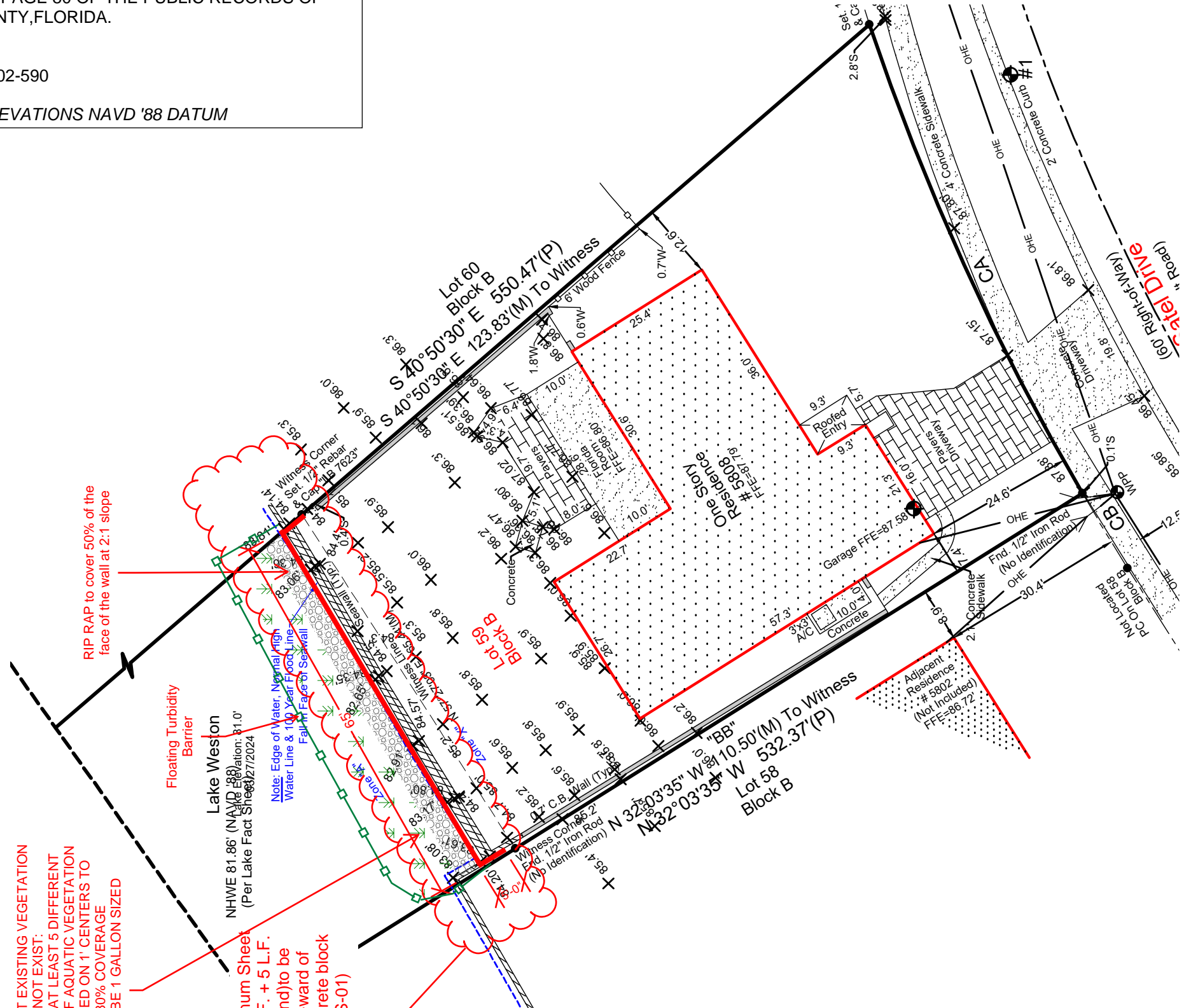
RIP RAP to cover 50% of the  
face of the wall at 2:1 slope

Floating Turbidity  
Barrier

Lake Weston  
NHWE 81.86' (NAVD '88)  
Elevation: 81.0'  
(Per Lake Fact Sheet 7/2024)

New ~4' high Aluminum Sheet  
Pile Seawall (65 L.F. + 5 L.F.)  
returns on each end to be  
installed 1' water-ward of  
existing/failing concrete block  
seawall (See S-01)

Note: Edge of Water, Normal High  
Water Line & 100 Year Flood Line  
Fall to Face of Seawall



This item has been electronically signed and sealed by  
Jennifer L. Teliga, P.E. on the Time Stamp shown using  
digital signature. Printed copies of this document are not  
considered signed and sealed and the signature must be  
verified on any electronic copy

JOB:

DATE: 6/10/2024

VERSION: 1

SCALE: 1"=20'

DRAWN BY: R.A.H.

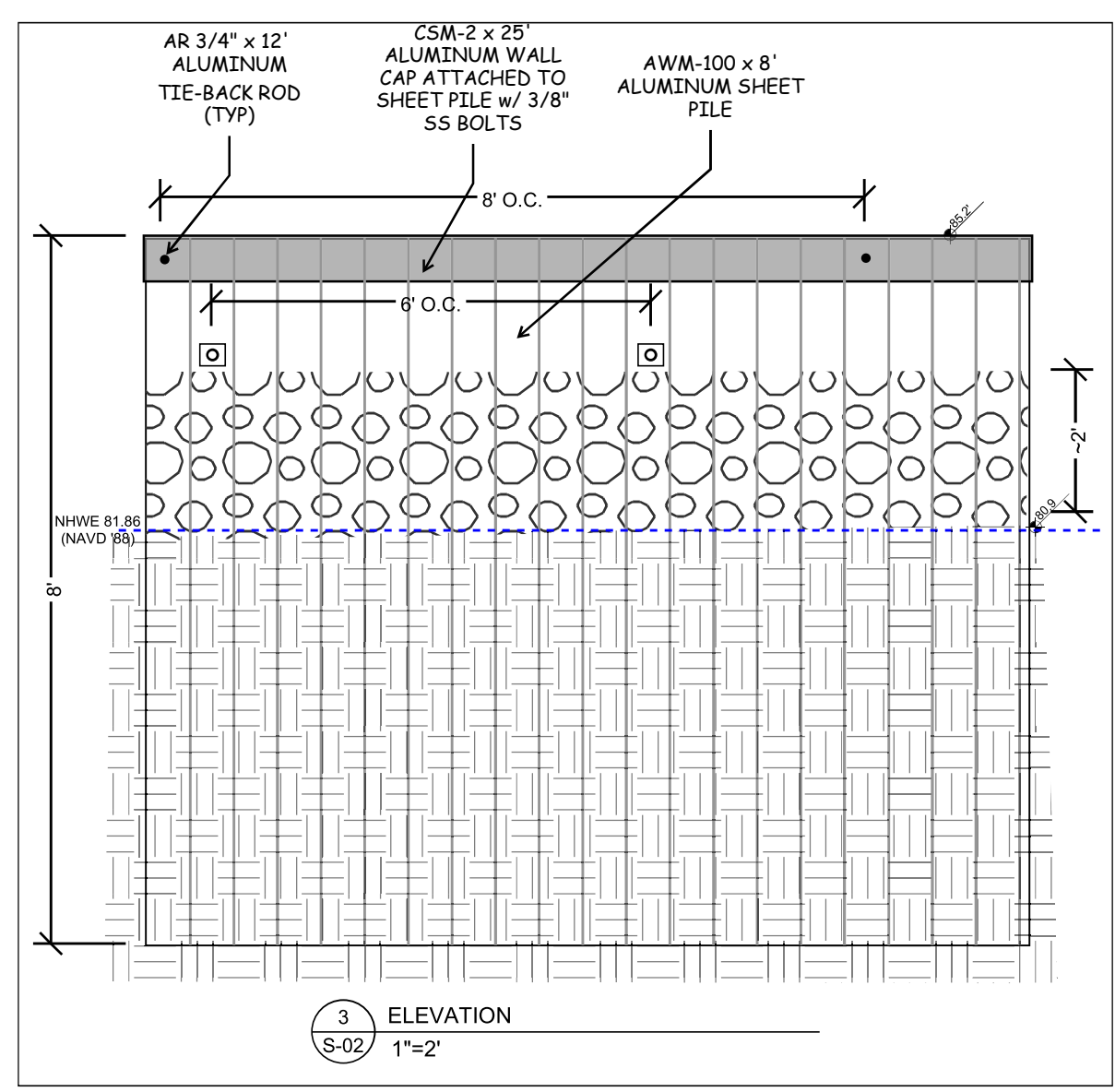
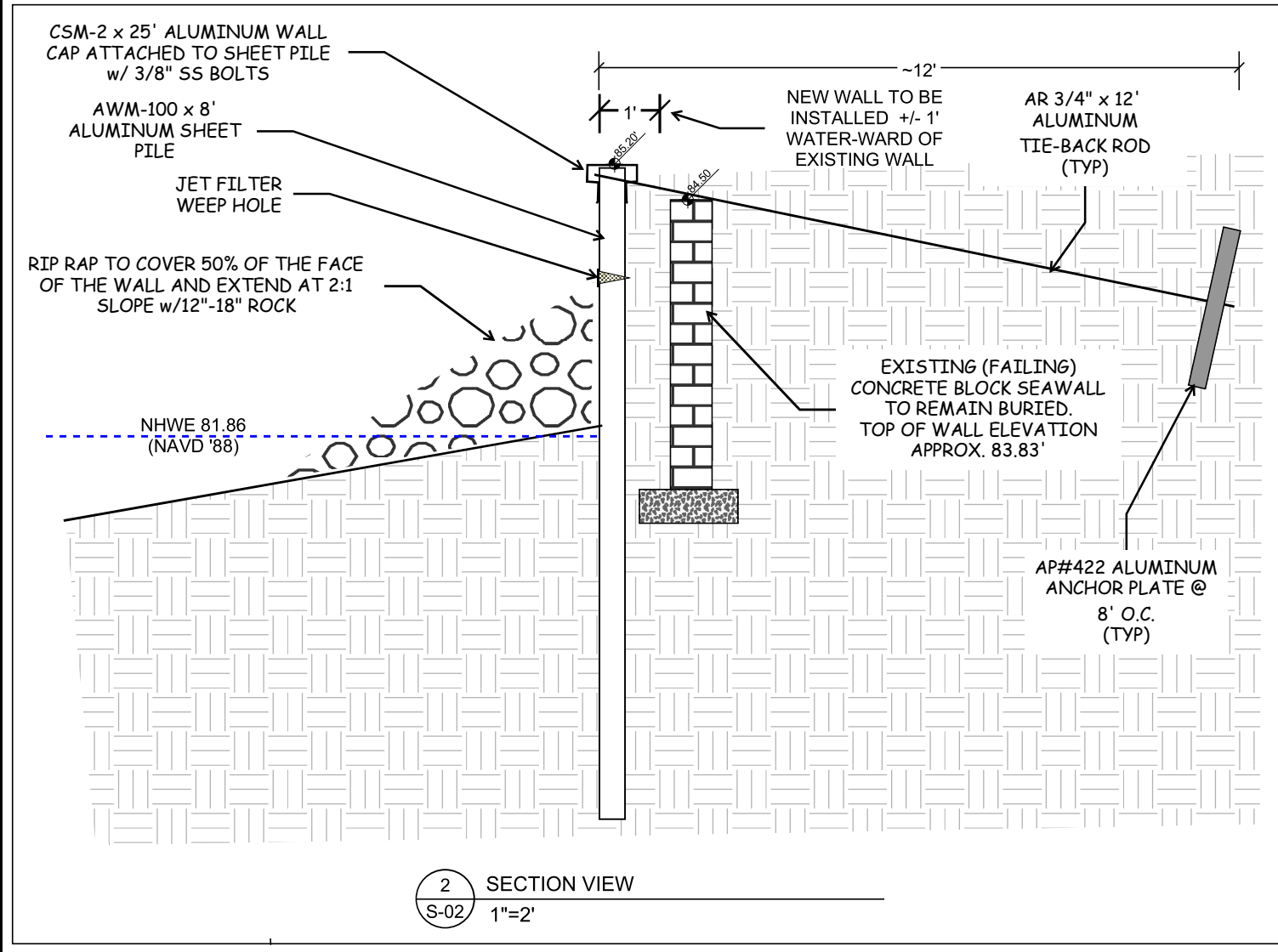
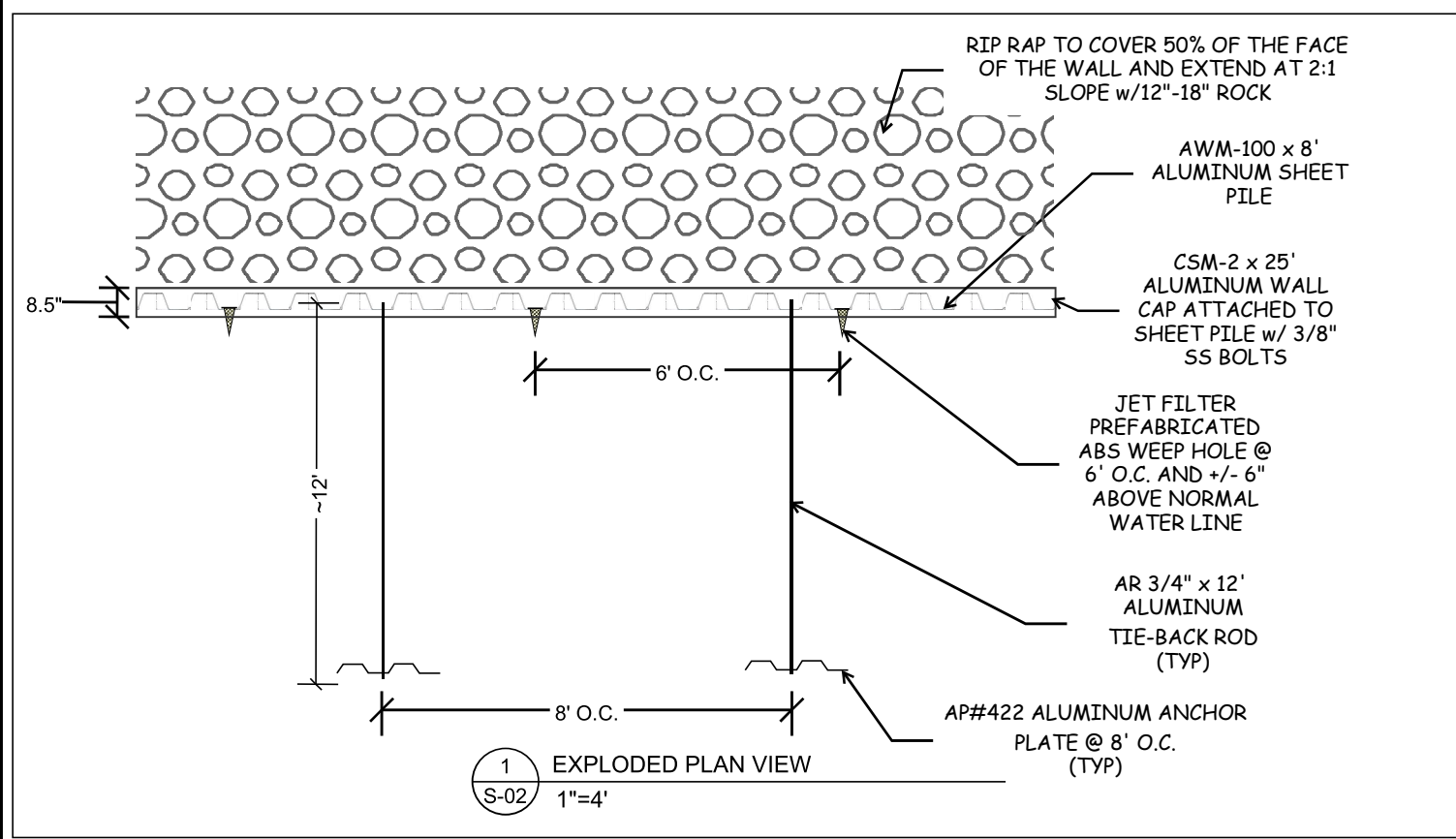
APPROVED BY:

**SHEET NO.:**  
C-01

**STRUCTURAL PLANS**  
 for  
**BARBARA NEEL SEAWALL**  
 at  
**5808 SATEL DRIVE**  
**ORLANDO, FL 32810**

**ENGINEER:**  
 JENNIFER L. TELIGA, P.E.  
 P.E. # 64621  
 2901 BLUESTEM LN.  
 CLERMONT, FL 34714  
 (321)662-7503

JOB:  
 DATE: 6/10/2024  
 VERSION: 1  
 SCALE: NTS  
 DRAWN BY: R.A.H.  
 APPROVED BY:  
**SHEET NO.:**  
 S-02



Digitally signed by JENNIFER TELIGA  
 LICENSE No. 64621  
 STATE OF FLORIDA PROFESSIONAL ENGINEER  
 Date: 2024.07.03 14:36:02 -04'00'

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**GENERAL REQUIREMENTS**

REPRODUCTIONS OF CONTRACT DRAWINGS BY CONTRACTOR IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF INFORMATION SHOWN AS CORRECT AND OBLIGATES HIMSELF TO ANY EXPENSE, REAL OR IMPLIED, ARISING FROM THEIR USE. A CHANGE TO THE STRUCTURAL DRAWINGS DUE TO THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTES IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO STAT OF ANY WORK. ALL INCONSISTENCIES SHALL BE REPORTED TO THE DESIGNER AND/OR STRUCTURAL ENGINEER, IF NEEDED, SHOULD CONTRACTOR CONSTRUCT THE PREMISES IN A FASHION NOT CONSISTENT WITH THE PLANS PREPARED BY THE DESIGNER AND/OR STRUCTURAL ENGINEER, THEN DESIGNER AND/OR STRUCTURAL ENGINEER SHALL BEAR NO RESPONSIBILITY OR LIABILITY FOR THE CONSTRUCTION OF PREMISES AND ACCURACY OF THE DRAWINGS.

**APPLICABLE CODES AND STANDARDS**

CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THESE STRUCTURAL SPECIFICATIONS AND THE REQUIREMENTS CONTAINED IN THE FOLLOWING CODES AND STANDARDS. WHEN A DIFFERENCE EXISTS BETWEEN THESE SPECIFICATIONS AND ANY OTHER GOVERNING CODE, THE MORE STRINGENT SHALL CONTROL. ANY OTHER ITEMS NOT COVERED THEREIN SHALL BE COMMENSURATE WITH SOUND ENGINEERING AND STANDARD CONSTRUCTION PRACTICES

**FLORIDA BUILDING CODE 2023, 8th EDITION**

AMERICAN WOOD COUNCIL - NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION 1997 EDITION  
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-22) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

**DESIGN LOADS**

PURSUANT TO CHAPTER 1609 LL (-TABLE 1607, WL-SECTION 1609)  
ULTIMATE WIND: 150 MPH AT 3 SECOND GUST (30 PSF MINIMUM)  
RISK CATEGORY II (TABLE 1604-5)  
EXPOSURE CATEGORY "D" (FBC 1609.4.3 AND ASCE 7-10, SECTION 26.7.2)  
DECK LIVE LOAD: 100 PSF  
DEAD LOAD: 10 PSF  
COMPONENTS AND CLADDING DESIGN WIND PRESSURES: +38 PSF/-38PSF  
OPEN STRUCTURE WITH A ZERO PRESSURE COEFFICIENT

**GENERAL NOTES**

1. DETAILS SHOWN ON PLANS MAY BE FOR TYPICAL CONDITIONS. FOR CONDITIONS NOT SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE.
2. DIMENSIONS SHOWN ON THESE PLANS SHALL BE VERIFIED BY THE CONTRACTOR OR BUILDER PRIOR TO CONSTRUCTION. THESE PLANS MAY NOT BE DRAWN TO SCALE. SCALING OF DRAWINGS IS STRONGLY DISCOURAGED. DIMENSIONED DRAWINGS TAKE PRECEDENCE OVER SCALED. IF CONFLICTS EXIST IN THE DRAWINGS, THE MORE STRINGENT SHALL PREVAIL.
3. THE CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITION AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER AND OWNER.
4. OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO ALL STRUCTURAL CHANGES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION PRACTICES, INCLUDING TECHNIQUES, PROCEDURES, SHORING AND THE SEQUENCE OF CONSTRUCTION. CONTRACTOR SHOULD NOTIFY ENGINEER IF A CONFLICT ARISES DUE TO VARIATIONS OR OTHER PROBLEMS WITH THE CONSTRUCTION DOCUMENTS.
6. SURVEY AND WETLAND INFORMATION IS PROVIDED TO ENGINEER AND IS PORTRAYED FOR CONCEPTUAL LOCATION ONLY. DISPLAY DOES NOT CONSTITUTE REVIEW ACCEPTANCE OR ENDORSEMENT OF INFORMATION CONTAINED THEREIN. (BASED ON PROPERTY SURVEY BY OTHERS)



**GENERAL NOTES**  
 for  
**BARBARA NEEL SEAWALL**  
 at  
**5808 SATEL DRIVE**  
**ORLANDO, FL 32810**

**ENGINEER:**

JENNIFER L. TELIGA, P.E.  
P.E. # 64621  
2901 BLUESTEM LN.  
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(321)662-7503

**JOB:**

DATE: 6/10/2024

VERSION: 1

SCALE: NTS

DRAWN BY: R.A.H.

APPROVED BY:

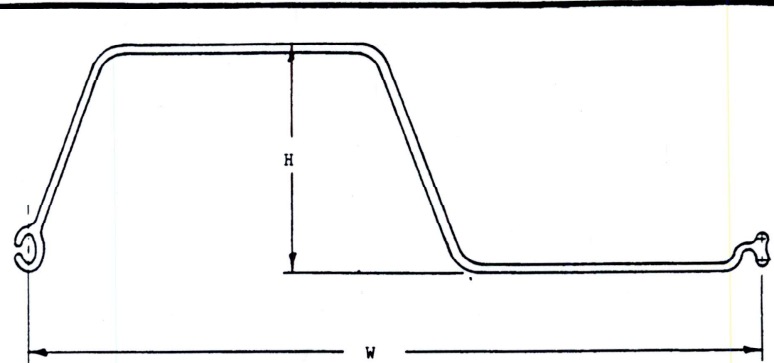
**SHEET NO.:**  
S-04



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by JENNIFER  
TELIGA  
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2024.07.03  
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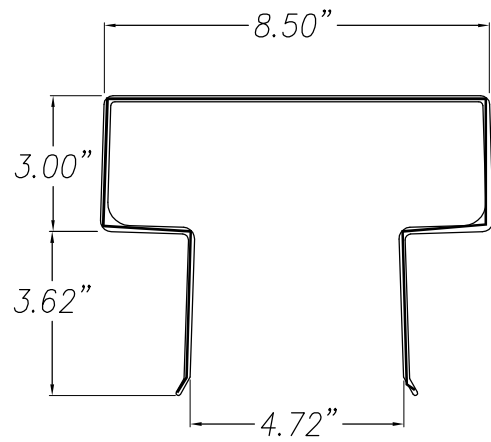




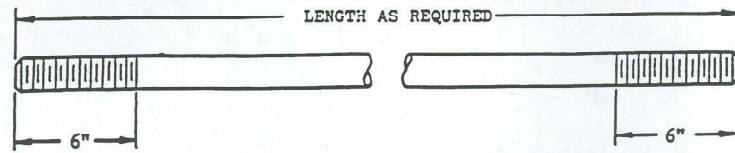
DESIGNATION	SECTION PROPERTIES PER LINEAL FOOT OF WALL <small>INCHES PER 1000</small>					
	H INCHES	W INCHES	THICKNESS INCHES	MOMENT INERTIA INCHES <sup>4</sup>	SECTION MODULUS INCHES <sup>3</sup>	MOMENT CAPACITY FOOT-LBS
AWL-100	2.5	12	0.100	1.60	1.258	1992
AWL-125	2.5	12	0.125	1.95	1.542	2441
AWL-135	2.5	12	0.135	2.18	1.714	2714
AWM-100	4.0	12	0.100	4.44	2.200	3483
AWM-125	4.0	12	0.125	5.99	2.967	4694
PZM-160	4.0	12	0.160	7.42	3.71	5875
PZM-190	4.0	12	0.188	8.58	4.29	6966

- Piling normally provided in 1 foot increments, however lengths such as 8.5' or 13.3' can be provided upon request.
- All the above listed sections interlock with each other.
- Section AWM-150 and AWM-188 are not listed. For information on these sections, please contact RAVENS.
- The AWL series of sheeting has its own cap and hardware. Be sure to specify the CSL and BAL sections.
- The AWM series of sheeting has its own cap and hardware. Be sure to specify the CSM and BAM sections.
- Section AWM-150 interlocks with section PZH-150 and the section AWM-188 interlocks with sections PZH-188 & PZH-250.

ALLOY 6061-T6      SHEET PILING SECTIONS      E-2



CAP SECTION CSM-2

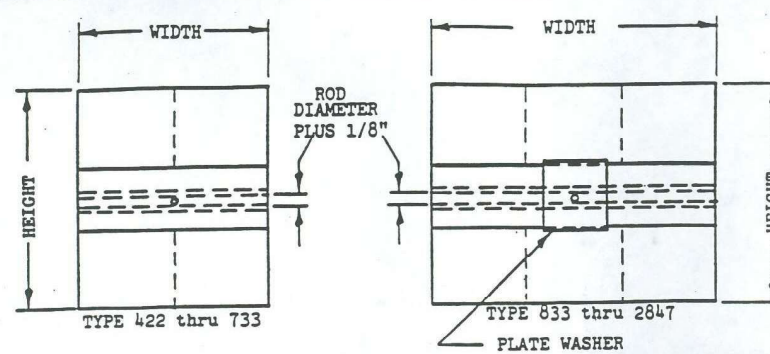


DIAMETER & THREAD SIZE	MAXIMUM STANDARD LENGTH	ROOT AREA (INCHES <sup>2</sup> )	MAXIMUM PULL POUNDS
3/4 - 10	20 FT	0.334	6340
7/8 - 9	30 FT	0.462	8770
1 - 8	30 FT	0.606	11510
1-1/8 - 7	40 FT	0.763	14490
1-1/4 - 7	40 FT	0.969	18410
1-1/2 - 6	40 FT	1.405	26690
1-3/4 - 5	40 FT	1.900	36100
2 - 4 1/2	40 FT	2.500	47500

- Threads are UNC Series 2A.
- Nuts are Aluminum Association Standard Class 2B free fit.
- Stainless steel nuts of the same dimension may be substituted.
- Rod lengths vary in 2 foot increments.
- Special lengths of rods are subject to inquiry.
- Shorter or longer threading on the ends of the rods can be accomplished by requesting it prior to fabrication.
- Threaded ends to have wax over them.

--- NOTICE ---  
IT IS NECESSARY TO FOLLOW ALL INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF TIE RODS OTHERWISE DAMAGE MAY OCCUR TO THE ANCHORAGE SYSTEM.

ALLOY 6061-T6      ANCHOR ROD DETAIL      E-21



TYPE	HEIGHT		ROD SIZE	CAPACITY POUNDS	SHEETING TYPE & ALLOY	CHANNELS	
	IN	IN				NO.	TYPE
422	24	24	3/4	6300	AWL-100	3	1 BB-1
522	30	24	3/4	6300	AWL-100	3	1 BB-1
632	24	36	7/8	8560	AWL-100	3	1 BB-2
733	30	36	1	11490	AWL-100	3	1 BB-3
833	33	36	1-1/8	14090	AWL-100	1	2 BB-4
933	36	36	1-1/4	18400	AWL-125	1	2 BB-5
1234	48	36	1-1/2	26300	AWM-125	1	2 BB-6
1644	48	48	1-3/4	36100	AWM-125	1	2 WB-8
2045	60	48	2	47500	PZH-150	1	2 WB-8
2446	72	48	2	47500	PZH-188	1	2 WB-8
2847	84	48	2	47500	PZH-188	1	2 WB-8

- Corrugations in the sheeting run parallel to the height.
- Backing beams are welded to the sheeting.
- Capacities are controlled by the rod size, backing beam(s) or the sheeting properties.
- The sheeting alloy is as follows: 1 = 6061-T6; 3 = 6063-T6
- Smaller rods may be used with larger plates by giving notice before fabrication.
- Alloy 6061-T6 may be substituted for alloy 6063-T6 by the fabrication plant.

ALLOYS 6061-T6 & 6063-T6      ANCHOR PLATE DETAILS      E-22

WALL COMPONENT DETAILS  
for  
BARBARA NEEL SEAWALL  
at  
5808 SATEL DRIVE  
ORLANDO, FL 32810

ENGINEER:

JENNIFER L. TELIGA, P.E.  
P.E. # 64621  
2901 BLUESTEM LN.  
CLERMONT, FL 34714  
(321)662-7503

JOB:

DATE: 6/10/2024

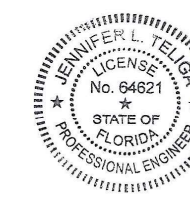
VERSION: 1

SCALE: NTS

DRAWN BY: R.A.H.

APPROVED BY:

SHEET NO.:  
S-03



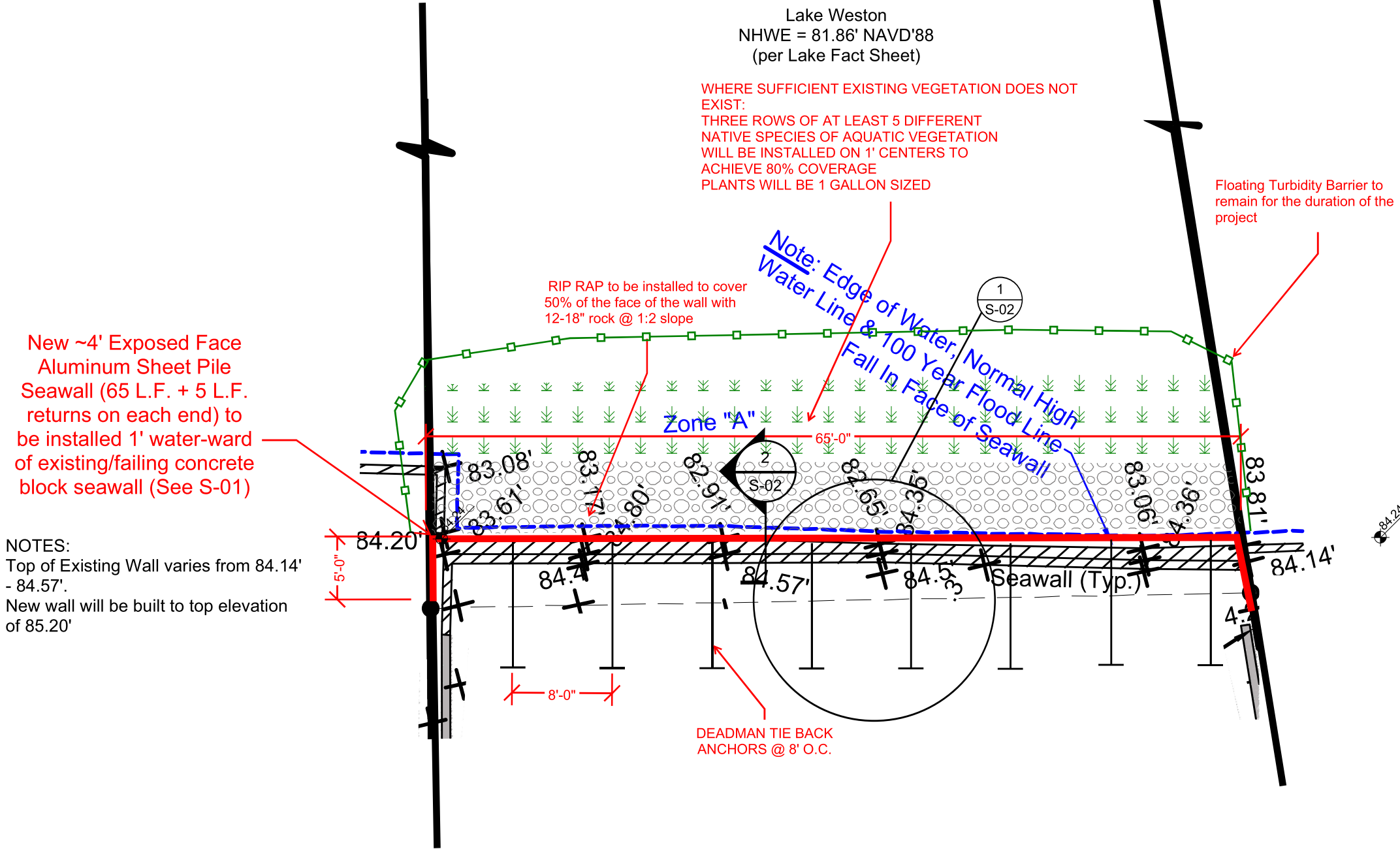
Digitally signed  
by JENNIFER  
TELIGA  
Date:  
2024.07.03  
14:36:33 -04'00'

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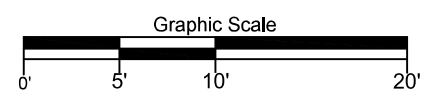
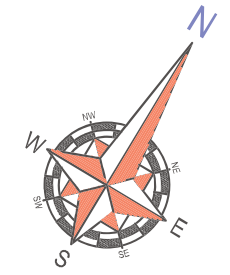
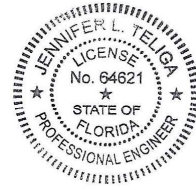
FenderMarineConstruction  
**FENDERMARINE CONSTRUCTION**  
 8010 SUNPORT DR., UNIT 123  
 ORLANDO, FL 32809  
 (407)481-8383  
 WWW.FENDERMARINE.COM  
 CBC1263789

PLAN VIEW  
 for  
**BARBARA NEEL SEAWALL**  
 at  
**5808 SATEL DRIVE**  
**ORLANDO, FL 32810**



NOTES:  
 Top of Existing Wall varies from 84.14' - 84.57'.  
 New wall will be built to top elevation of 85.20'

Digitally signed by JENNIFER TELIGA  
 Date: 2024.07.03 14:36:52 -04'00'



Scale: 1"=10'

ENGINEER:  
 JENNIFER L. TELIGA, P.E.  
 P.E. # 64621  
 2901 BLUESTEM LN.  
 CLERMONT, FL 34714  
 (321)662-7503

JOB:  
 DATE: 6/10/2024  
 VERSION: 1  
 SCALE: 1"=10'  
 DRAWN BY: R.A.H.  
 APPROVED BY:

SHEET NO.:  
 S-01



