



Interoffice Memorandum

Received on July 16, 2024 .
Deadline: August 6, 2024
Publish: August 11, 2024

July 15, 2024

To: Jennifer Lara-Klimetz, Assistant Manager
Comptroller Clerk’s Office

Through: Cheryl Gillespie, Agenda Development Supervisor
Agenda Development

From: Renée H. Parker, LEP, Manager
Environmental Protection Division
(407) 836-1420

**Staff Person: Elizabeth R. Johnson, CEP, Assistant Manager
Environmental Protection Division
(407) 836-1511**

Subject: Request for Public Hearing on August 27, 2024, at 2:00 p.m., for a Shoreline Alteration/Dredge and Fill Permit Application (SADF-24-06-013) to authorize the construction of a replacement aluminum sheet pile seawall along the shoreline of Lake Weston at 5808 Satel Drive, Orlando, Florida, 32810, Parcel ID No. 34-21-29-0314-02-590; District 2

Applicant: Barbara Ann Neel

Type of Hearing: Shoreline Alteration/Dredge and Fill Permit Application

Hearing required by
Florida Statute # or Code: Chapter 15, Article VI, Pumping and Dredging Control

Advertising requirements: Publish once in a newspaper of general circulation in Orange County at least (7) seven days prior to public hearing.

Advertising timeframes: At least (7) seven days prior to public hearing.

Abutters to be notified: The applicant and the property owners within 500 feet of the project area will be notified at least (7) seven days prior to public hearing by the Environmental Protection Division (EPD).

Estimated time required
For public hearing: 2 minutes

July 15, 2024

Request for Public Hearing – Shoreline Alteration/Dredge and Fill Permit Application for
Barbara Ann Neel (SADF-24-06-013)

Municipality or other
Public Agency to be
notified:

Florida Department of Environmental Protection,
DEP_CD@dep.state.fl.us

Hearing Controversial: No

District #: 2

Materials being submitted as backup for public hearing request:

1. Location Map
2. Site Plans
3. Site Photos

Special Instructions to Clerk:

1. Once the Board of County Commissioners makes a decision on the Shoreline Alteration/Dredge and Fill Permit Application, please submit the decision letter to Liz Johnson with EPD. EPD will issue the decision to the applicant.

Advertising Language:

1. Applicant, Barbara Ann Neel, is requesting a Shoreline Alteration/Dredge and Fill Permit Application (SADF-24-06-013) to authorize the construction of a replacement aluminum sheet pile seawall along the shoreline of Lake Weston at 5808 Satel Drive, Orlando, Florida, 32810, pursuant to Chapter 15, Article VI, Pumping and Dredging Control; Parcel ID No. 34-21-29-0314-02-590; District 2 (property legal description on file at EPD).

ER/KGK/TMH/ERJ/RHP:rt

Attachments

Shoreline Alteration/Dredge and Fill Permit Request



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

District #2

Applicant: Barbara Ann Neel

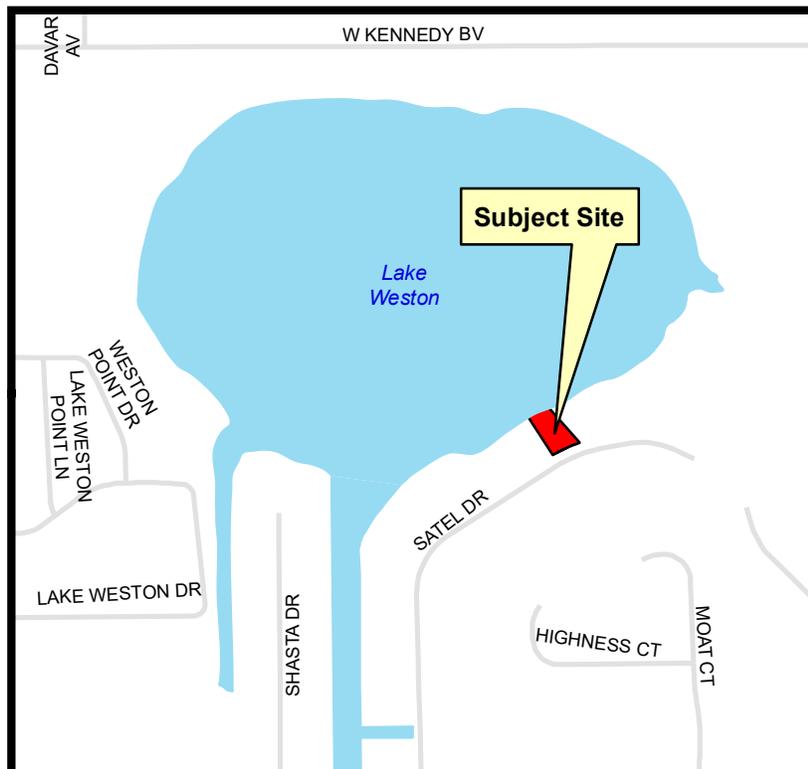
Address: 5808 Satel Drive

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

Project Site:



Property Location:



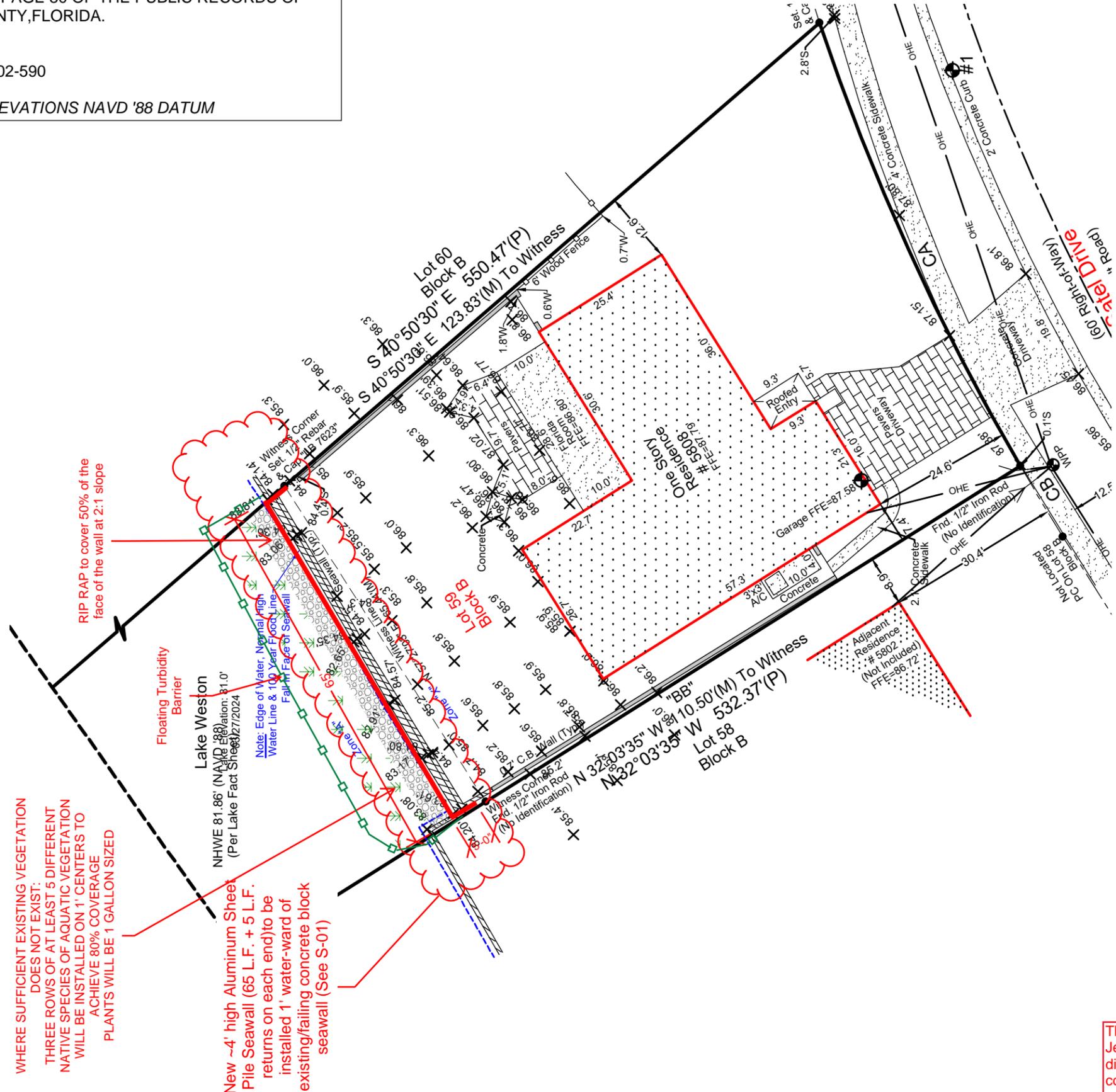
LEGAL DESCRIPTION:

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



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

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

RECEIVED
 July 3, 2024
 BY: ...E.P.D.....

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

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)

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

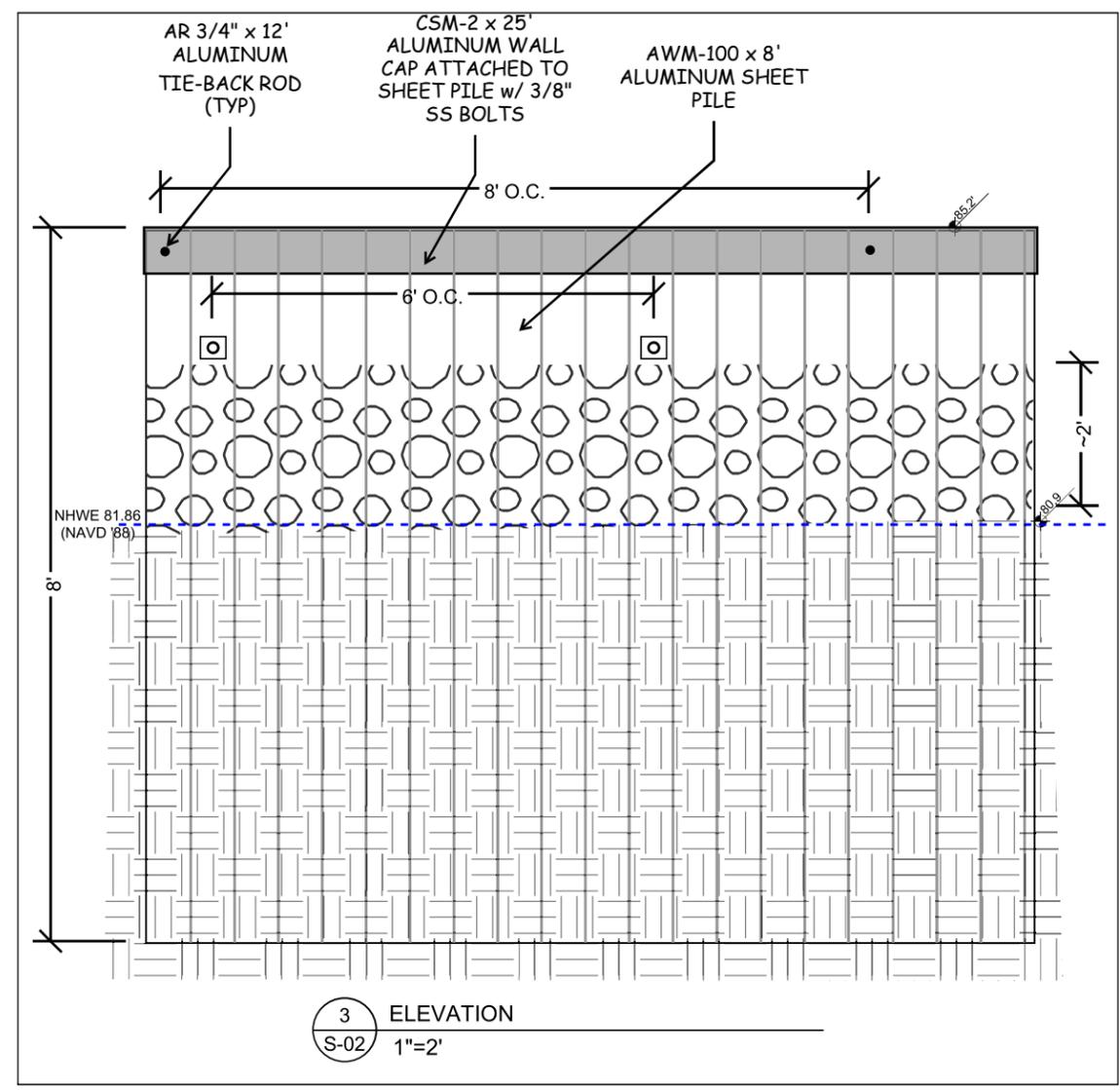
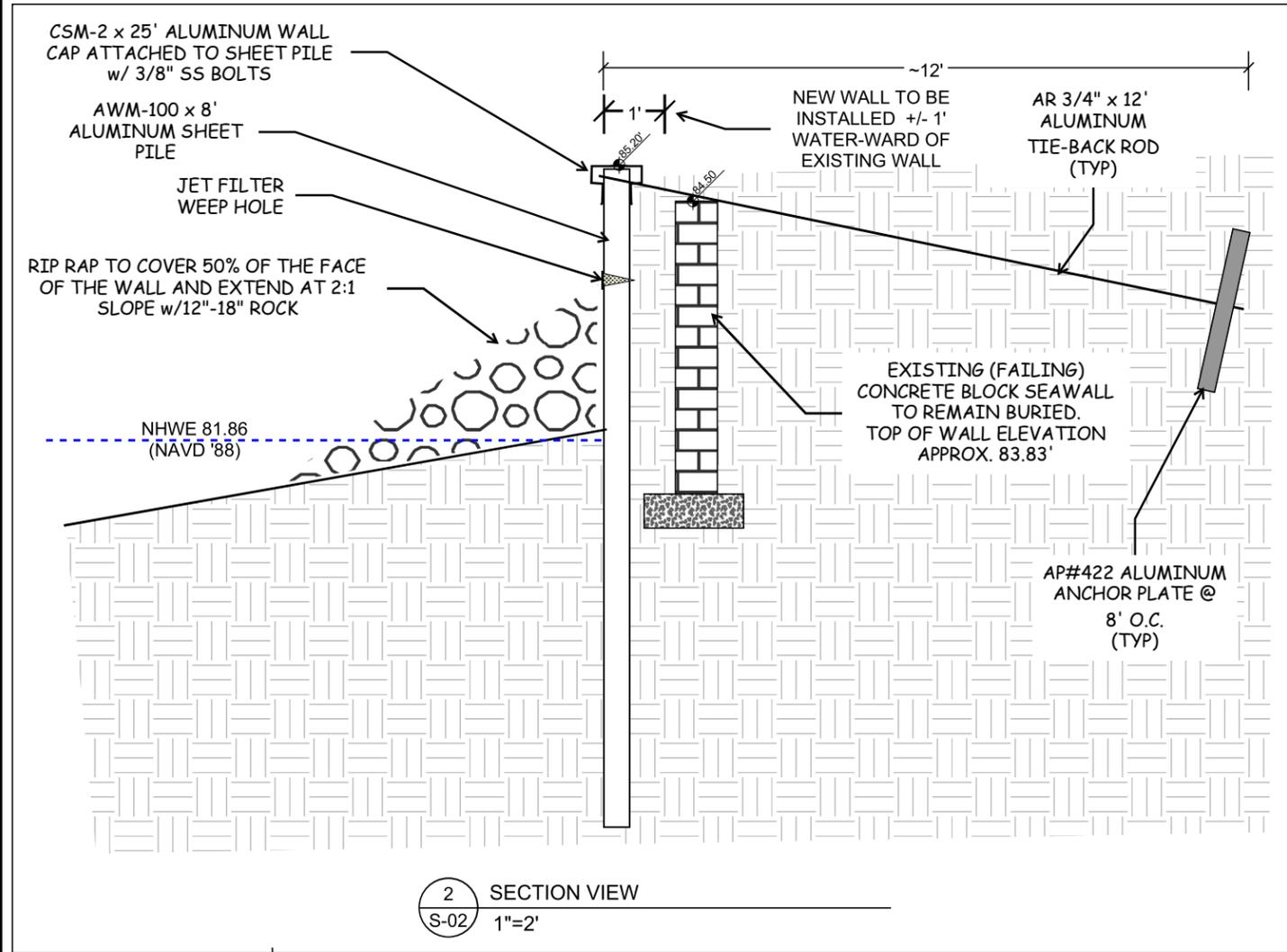
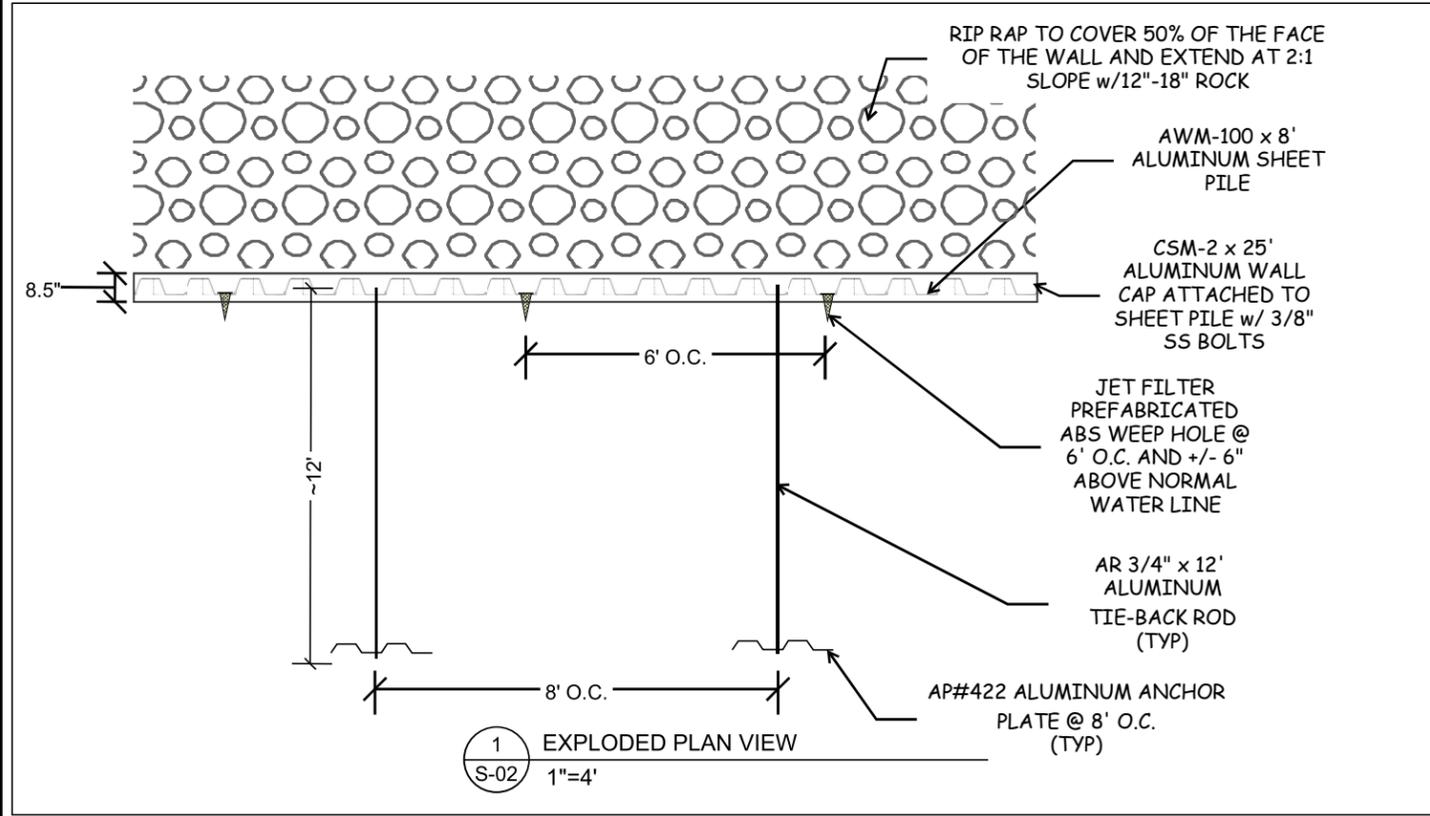
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 Jennifer L. Teliga, P.E. on the Time Stamp shown using
 digital signature. Printed copies of this document are not
 considered signed and sealed and the signature must be
 verified on any electronic copy

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 SHOWS, 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 WITHE 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.
CLERMONT, FL 34714
(321)662-7503

JOB:

DATE: 6/10/2024

VERSION: 1

SCALE: NTS

DRAWN BY: R.A.H.

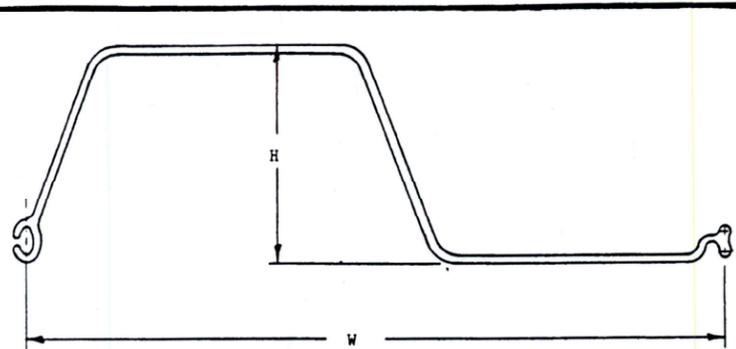
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SHEET NO.:
S-04



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Date:
2024.07.03
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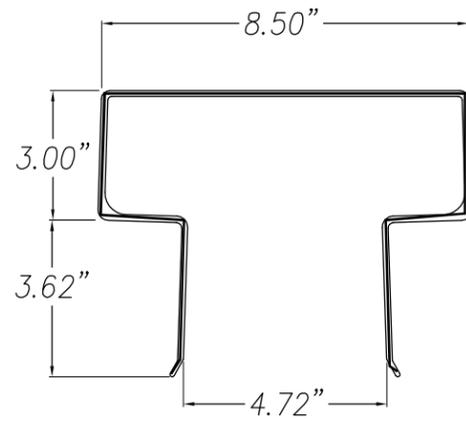
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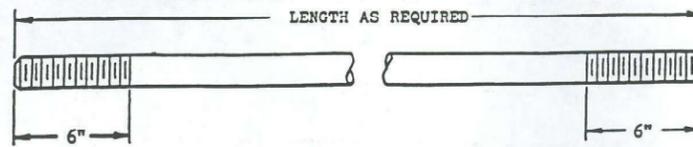
DESIGNATION	SECTION PROPERTIES PER LINEAL FOOT OF WALL <small>INCHES PER 1000</small>					
	H INCHES	W INCHES	THICKNESS INCHES	MOMENT INERTIA INCHES ⁴	SECTION MODULUS INCHES ³	MOMENT CAPACITY FOOT-LBS
AWL-100	2.5	12	0.100	1.60	1.258	1992
AWL-125	2.5	12	0.125	1.95	1.542	2441
AWL-135	2.5	12	0.135	2.18	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

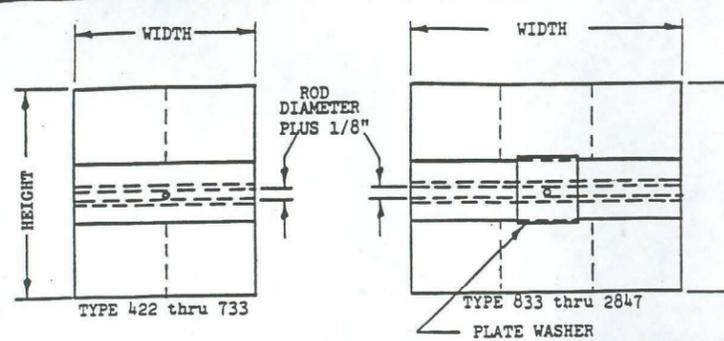


DIAMETER & THREAD SIZE	MAXIMUM STANDARD LENGTH	ROOT AREA (INCHES ²)	MAXIMUM PULL POUNDS
3/4 - 10	20 FT	0.334	6340
7/8 - 9	30 FT	0.462	8770
1 - 8	30 FT	0.606	11510
1-1/8 - 7	40 FT	0.763	14490
1-1/4 - 7	40 FT	0.969	18410
1-1/2 - 6	40 FT	1.405	26690
1-3/4 - 5	40 FT	1.900	36100
2 - 4 1/2	40 FT	2.500	47500

- 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



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by JENNIFER
TELIGA
Date:
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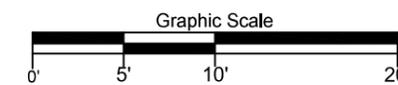
FenderMarineConstruction
FENDERMARINE CONSTRUCTION
 8010 SUNPORT DR., UNIT 123
 ORLANDO, FL 32809
 (407)481-8383
 WWW.FENDERMARINE.COM
 CBC1263789

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

ENGINEER:

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 P.E. # 64621
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 (321)662-7503

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



Scale: 1"=10'

Lake Weston
 NHWE = 81.86' NAVD'88
 (per Lake Fact Sheet)

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

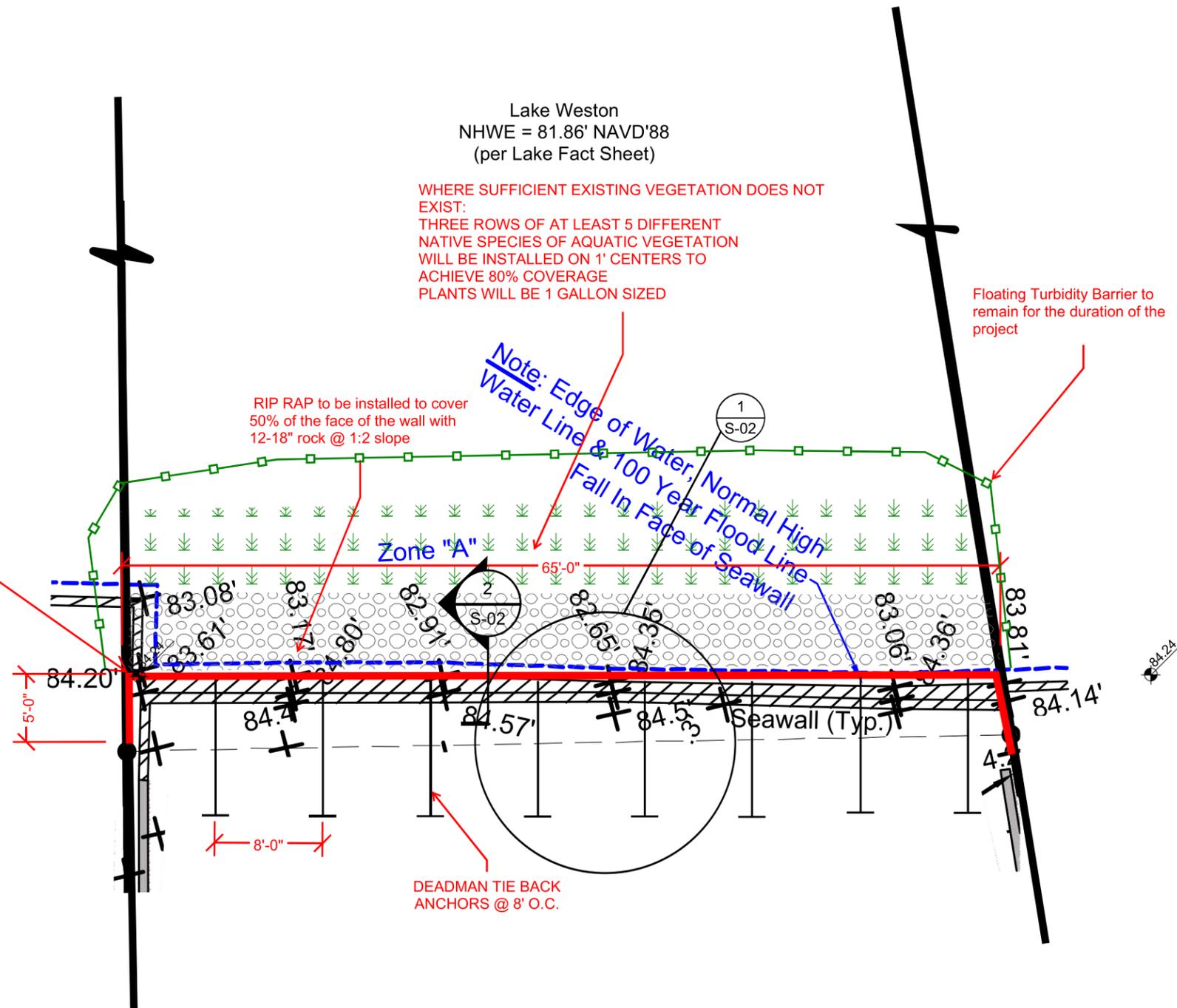
Floating Turbidity Barrier to remain for the duration of the project

RIP RAP to be installed to cover 50% of the face of the wall with 12-18" rock @ 1:2 slope

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

New ~4' Exposed Face 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)

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



JOB:

DATE: 6/10/2024

VERSION: 1

SCALE: 1"=10'

DRAWN BY: R.A.H.

APPROVED BY:

SHEET NO.:
 S-01



