



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207-8175

February 20, 2023

Regulatory Division
South Branch
Miami Permits Section
SAJ-2023-00166 (NW/MCA)

Florida Department of Environmental Protection c/o David Matson
3900 Commonwealth Blvd
Tallahassee, FL 32399

Via email: David.Matson@FloridaDEP.gov

Dear Mr. Matson:

The U.S. Army Corps of Engineers (Corps) has completed the review of your application for a Department of the Army permit, which the Corps received on April 17, 2023. Your application was assigned file number SAJ-2023-00166 (NW-MCA). A review of the information and drawings provided indicates that the proposed work would be the repair of an existing canal plug, by installing a 113 foot, 1 inch sheet pile wall and install a riprap revetment (60 cu yd/1,060 sq ft) and to install temporary floating turbidity barriers around all work areas that are in/over U.S. navigable waters. The activities subject to this permit are authorized pursuant to authorities under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. § 403) and/or Section 404 of the Clean Water Act (33 U.S.C. § 1344). The project is located between Charlemagne Blvd and Valois Blvd in Section 29 Township 60 South, Range 40 East, Key Largo, Monroe County, Florida, 33037. (RE/ 00569041-004700/015900

Latitude: 25.194468
Longitude: -80.345703

The aspect of your project involving as depicted on the attached drawings, is authorized by Nationwide Permit (NWP) NWP 13. This verification is valid until **March 14, 2026**. In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the Nationwide Permit General Conditions, the Jacksonville District Regional Conditions, and the General and Project-Specific Special Conditions listed below. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP. You can access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Source Book web page for links to view NWP information at <https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/>. Please be aware this Internet address is case sensitive and should be entered as it appears above. Once

there, you will need to select “Nationwide Permits.” Among other things, this part of the Source Book contains links to the federal register containing the text of the pertinent NWP authorization and the associated NWP general conditions, as well as separate links to the regional conditions applicable to the pertinent NWP verification.

You must comply with all of the special and general conditions for the NWP including any project-specific conditions included in this letter and all conditions incorporated by reference as described above.

General Conditions:

1. The time limit for completing the work authorized by NWP 13 ends on **March 14, 2026.**

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit you must obtain the signature of the new owner on the attached transfer form (attached) and forward a copy to this office to validate the transfer of this authorization.

5. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Project Specific Special Conditions:

The following project specific special conditions are included with this verification:

1.Reporting Address: The Permittee shall submit all reports, notifications, documentation, and correspondence required by the general and special conditions of this permit to either (not both) of the following addresses:

a. For electronic mail (preferred): SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).

b. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.

The Permittee shall reference this permit number SAJ-2023-00166 on all submittals.

2. Commencement Notification: Within 10 days from the date of initiating the work authorized by this permit, the Permittee shall submit a completed "Commencement Notification" form (Attached).

3. Self-Certification: Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form (Attached) and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

4. Assurance of Navigation and Maintenance: The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

5.Manatee Conditions: The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work - 2011" (attached). The most recent version of the Manatee Conditions must be utilized.

6. Jacksonville District Programmatic Biological Opinion (JAXBO): Structures and activities authorized under this permit will be constructed and operated in accordance with all applicable PDCs contained in the JAXBO, based on the permitted activity.

Johnson's seagrass and its critical habitat were delisted from the Endangered Species Act on May 16, 2022. Therefore, JAXBO PDCs required to minimize adverse effects to Johnson's seagrass and its critical habitat are no longer applicable to any project. Failure to comply with applicable PDCs will constitute noncompliance with this permit. In addition, failure to comply with the applicable PDCs, where a take of listed species occurs, would constitute an unauthorized take. The NMFS is the appropriate authority to determine compliance with the Endangered Species Act. The most current version of JAXBO can be accessed at the Jacksonville District Regulatory Division website in the Endangered Species section of the Sourcebook located at:

<http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx>

JAXBO may be subject to revision at any time. The most recent version of the JAXBO must be utilized during the design and construction of the permitted work.

7. Cultural Resources/Historic Properties:

- a. No structure or work shall adversely affect, impact, or disturb properties listed in the National Register of Historic Places (NRHP), or those eligible for inclusion in the NRHP.
- b. If, during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with native cultures or early colonial settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps at the addresses listed in the Reporting Address Special Condition within the same business day (8 hours). The Corps shall coordinate with the Florida State Historic Preservation Officer (SHPO) to assess the significance of the discovery and devise appropriate actions.
- c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition and, if deemed necessary by the SHPO or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend, or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.
- d. In the unlikely event that unmarked human remains are identified on non-federal lands; they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human

remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archaeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO. Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend, or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the SHPO and from the Corps.

8. Turbidity Barriers: Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend within 1 foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained daily until the authorized work has been completed and turbidity within the construction area has returned to ambient levels. Turbidity barriers shall be removed upon stabilization of the work area.

9. Queen Conch Condition: The Permittee shall comply with the following special condition, if the authorized in-water work is not completed by the effective date of the final rule listing the queen conch (*Aliger gigas*) as a threatened species under the Endangered Species Act:

- Conduct weekly surveys for queen conch in a 154m radius around the project footprint for the duration of all in-water work.

- Cease all in-water work below the MHWL until the queen conch moves out of the area of its own volition at a minimum distance of 22m from the project footprint.

10. Fill Material: The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance in toxic amounts, in accordance with Section 307 of the Clean Water Act

11. Erosion Control: Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the work area into waters of the United States. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized.

12. Permit Conditions Prevail: If information in the permit attachments conflict with the special conditions of this permit, the requirements of the permit special conditions shall prevail.

This letter of authorization does not include conditions that would prevent the 'take' of a state-listed fish or wildlife species. These species are protected under sec. 379.411, Florida Statutes, and listed under Rule 68A-27, Florida Administrative Code. With regard to fish and wildlife species designated as species of special concern or threatened by the State of Florida, you are responsible for coordinating directly with the Florida Fish and Wildlife Conservation Commission (FWC). You can visit the FWC license and permitting webpage (<http://www.myfwc.com/license/wildlife/>) for more information, including a list of those fish and wildlife species designated as species of special concern or threatened. The Florida Natural Areas Inventory (<http://www.fnai.org/>) also maintains updated lists, by county, of documented occurrences of those species.

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

This letter of authorization does not preclude the necessity to obtain any other Federal, State, or local permits, which may be required.

Thank you for your cooperation with our permit program. The Corps' Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at <https://regulatory.ops.usace.army.mil/customer-service-survey/>. Please be aware this Internet address is case sensitive and you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Should you have any questions related to this NW13 verification or have issues accessing the documents reference in this letter, please contact Maena C. Angelotti at 9900 Southwest 107th Avenue, Suite 203, Miami, Florida, 33176 via telephone at 786-417-5339 or via e-mail at Maena.C. Angelotti@usace.army.mil

Sincerely,

Maena C. Angelotti
Project Manager

Attachments

Permit Transfer Request

Site Plans

Self-Certification of Compliance

Standard Manatee Conditions for In-Water Work

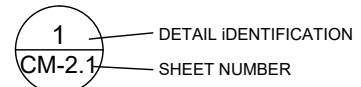
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SECTION IDENTIFICATION

CM-3.1

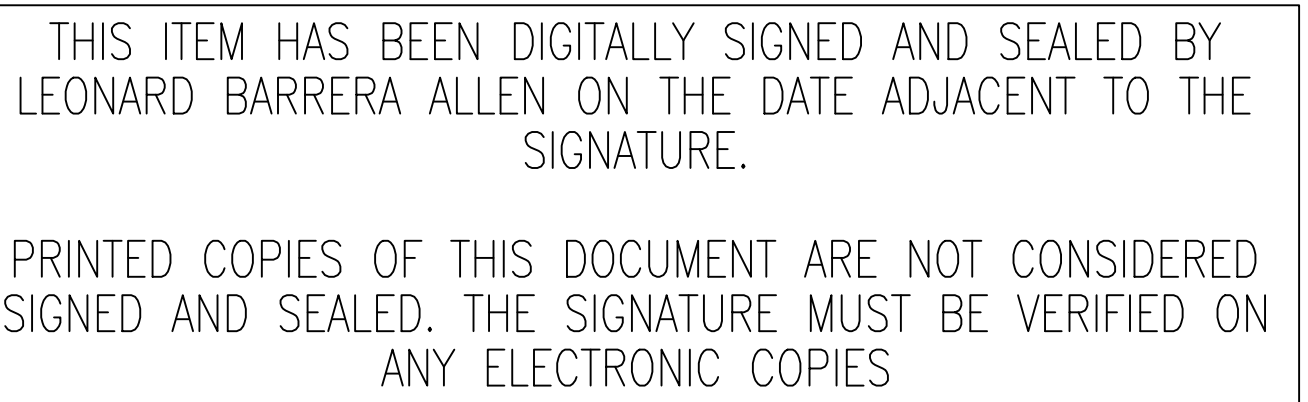
SHEET NUMBER



*DISTRICT 5
FLORIDA KEYS
MONROE COUNTY*

CN330

FLORIDA BUILDING CODE, BUILDING (FBC-B)..... 2020 Edition



REPAIRS FOR CANAL PLUG RECONSTRUCTION
SUFFICIENT TO PREVENT DIRECT TIDAL
WATER EXCHANGE IN THE CANAL.

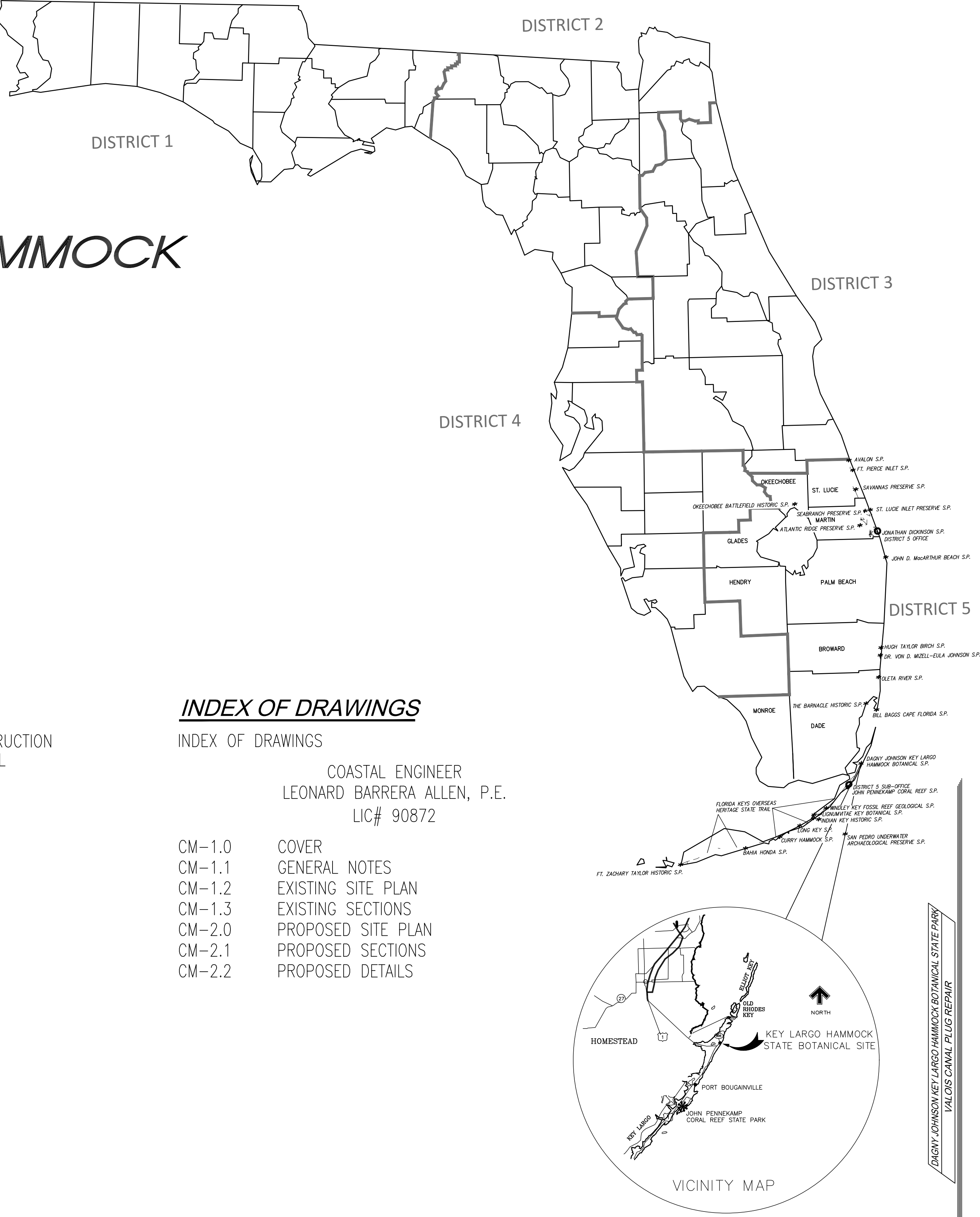
CN330
CONSULTANT CONTRACT No.
08/07/2023
INITIAL ISSUE DATE

INDEX OF DRAWINGS

COASTAL ENGINEER
LEONARD BARRERA ALLEN, P.E.
LIC# 90872

CM-1.0	COVER
CM-1.1	GENERAL NOTES
CM-1.2	EXISTING SITE PLAN
CM-1.3	EXISTING SECTIONS
CM-2.0	PROPOSED SITE PLAN
CM-2.1	PROPOSED SECTIONS
CM-2.2	PROPOSED DETAILS

100% DRAWINGS



CUMMINS | CEDERBERG
Coastal & Marine Engineering

1. GENERAL

- 1.1.

THE WORK CONSISTS OF PROVIDING ALL CONSTRUCTION, LABOR, EQUIPMENT, MATERIAL AND OPERATIONS IN CONNECTION WITH THE MARINE WORKS AND RELATED IMPROVEMENTS AS SHOWN ON THESE DRAWINGS.
- 1.2.

ANY DISCREPANCIES IN THE PLANS WITH THE FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.
- 1.3.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING STRUCTURES IN THE PROJECT VICINITY. ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY WITHIN THE PROJECT VICINITY, INCLUDING STAGING SITES, WORK AND ACCESS AREAS SHALL BE REPAIRED PROMPTLY BY THE CONTRACTOR. ANY DAMAGE AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO COST TO THE OWNER. ALL ACCESS AND STAGING AREAS SHALL BE KEPT NEAT, ORDERLY AND IN A SAFE MANNER. ALL ACCESS AND STAGING AREAS SHALL BE RESTORED TO THE PRE-CONSTRUCTION CONDITION UPON PROJECT COMPLETION AT THE COST OF THE CONTRACTOR. THE SITE SHALL BE RESTORED BY REMOVING AND FINISHING ALL EVIDENCE FOR CONSTRUCTION. IN THE EVENT INFRASTRUCTURE (SUCH AS WALKWAYS, SIDEWALKS, FENCES, VEGETATION, ETC.) IS TEMPORARILY REMOVED OR RELOCATED OR THERE IS UNAUTHORIZED DAMAGE TO VEGETATION AND/OR FACILITIES BY THE CONTRACTOR, THE CONTRACTOR SHALL RESTORE ALL DAMAGE TO STRUCTURES AND NATURAL FEATURES TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- 1.4.

UTILITIES ARE NOT SHOWN IN THE PLANS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRESENT UTILITIES PRIOR TO CONSTRUCTION.
- 1.5.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER CLEARANCE AND PROTECTION TO ALL OVERHEAD WIRES AND OBSTRUCTIONS.
- 1.6.

THE CONTRACTOR SHALL EXCLUDE THE PUBLIC FROM THE WORK AREAS IN THE IMMEDIATE VICINITY OF OPERATIONS. CONTRACTOR SHALL PROVIDE APPROPRIATE SAFETY MEASURES TO PROTECT THE PUBLIC.
- 1.7.

ALL NEW STRUCTURAL WORK INCLUDING CONCRETE AND REINFORCEMENT SHALL BE ACCURATELY FIELD MEASURED AND DIMENSIONS VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL BE PREPARED TO MAKE FIELD ADJUSTMENTS TO ACCURATELY FIT THE NEW WORK TO EXISTING CONDITIONS.
- 1.8.

NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR HAS BEEN ISSUED NOTICE TO PROCEED.
- 1.9.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS SHOULD BE CONSIDERED WHEN OBTAINING SCALED DATA.
- 1.10.

CONSTRUCTION WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL BUILDING CODES AND GOVERNING REGULATIONS INCLUDING SFWMD, USACE, AND MONROE COUNTY. CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF THE PERMITS AND EXEMPTIONS.
- 1.11.

CONTRACTOR SHALL DEPLOY A FLOATING TURBIDITY BARRIER, PER PLANS, FOR THE DURATION OF THE WORK.

2. LAYOUT AND TESTING

- 2.1.

ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY AND PAID FOR BY THE CONTRACTOR UNDER THE SUPERVISION OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA. ALL TESTING AND INSPECTION FOR CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY.
- 2.2.

CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS IN SUFFICIENT DETAIL TO ILLUSTRATE THE HORIZONTAL AND VERTICAL COMPONENTS OF ABOVE AND BELOW GROUND STRUCTURES AND WALLS RELATIVE TO THE CONSTRUCTION BASELINE. DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR.

3. DEMOLITION

- 3.1.

CONTRACTOR SHALL VERIFY THE EXTENTS, LOCATION AND QUANTITIES OF EXISTING ELEMENTS TO BE REMOVED.
- 3.2.

ALL DEBRIS WITHIN THE LIMITS OF THE PROJECT SHALL BE HAULED OFF SITE BY THE CONTRACTOR, AS DIRECTED BY THE OWNER, AND DISPOSED OF AT AN APPROPRIATE FACILITY.
- 3.3.

CONTRACTOR SHALL NOT DAMAGE ANY STRUCTURAL COMPONENTS BEYOND THE DEMOLITION REQUIREMENTS DEPICTED IN THESE DRAWINGS. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

4. CONCRETE

- 4.1.

FORMS FOR THIS WORK SHALL BE MADE OF EITHER WOOD OR METAL. THEY SHALL BE STRAIGHT AND FREE OF WARP OR BENDS. THEY SHALL HAVE SUFFICIENT STRENGTH AND RIGIDITY, WHEN STAKED, TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT SPRINGING. IF WOODEN FORMS ARE USED, THEY SHALL BE OF ADEQUATE SECTION AND SHALL HAVE A FLAT SURFACE ON TOP. FORMS SHALL HAVE A DEPTH AT LEAST EQUAL TO THE VERTICAL DIMENSIONS FOR THE DEPTH OF THE CONCRETE BEING DEPOSITED AGAINST THEM. WHEN READY FOR THE CONCRETE TO BE DEPOSITED, THEY SHALL NOT VARY FROM THE APPROVED LINE AND GRADE, AND SHALL BE KEPT SO UNTIL THE CONCRETE HAS SET.
- 4.2.

JUST PRIOR TO PLACING THE CONCRETE ANY WOODEN FORMS SHALL BE MOISTENED AND ALL STEEL REINFORCING SHALL BE RINSED WITH FRESH WATER. THE CONCRETE SHALL BE PLACED IN THE FORMS AND TAMPED IN PLACE SO THAT ALL HONEYCOMBS WILL BE ELIMINATED AND SUFFICIENT MORTAR BROUGHT TO A SMOOTH EVEN FINISH BY MEANS OF A FLOAT.
- 4.3.

NO CONCRETE SHALL BE POURED DURING UNFAVORABLE WEATHER OR SEA CONDITIONS.
- 4.4.

ALL STEEL SHALL HAVE A MINIMUM OF 3 INCHES CONCRETE COVER, UNLESS OTHERWISE NOTED. NO CHAIRS OR OTHER METAL SHALL PROTRUDE FROM SURFACE OF CONCRETE.
- 4.5.

CAST-IN-PLACE CONCRETE SHALL BE A MINIMUM OF 5,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. WATER CEMENT RATIO (W/C) SHALL BE LESS THAN OR EQUAL TO 0.4. PROVIDE MIX DESIGN FOR A CLASS IV CONCRETE FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT IN ACCORDANCE WITH FDOT SPECIFICATIONS. PROVIDE SUFFICIENT AMOUNT OF FLY ASH AND SILICA FUME TO THE CEMENT CONTENT. CONTRACTOR SHALL PROVIDE MIX DESIGN TO ENGINEER FOR APPROVAL 10 DAYS PRIOR TO CONCRETE PLACEMENT.
- 4.6.

NO WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE UNLESS AUTHORIZED BY THE ENGINEER OR SPECIAL INSPECTOR.
- 4.7.

WHEN SURFACE FINISHING IS COMPLETED, THE STRUCTURE SHALL BE PROTECTED AGAINST WAVE SPLASH FOR TWO DAYS AND CURED PER APPLICABLE PARAGRAPHS OF SECTION 400-16 OF THE FDOT STANDARD SPECIFICATIONS. CURING SHALL OCCUR FOR AT LEAST 7 DAYS.
- 4.8.

A SURFACE PENETRANT SEALER OF ALKYL-ALKOXY SILANE CLASSIFICATION, SUCH AS BASF ENVIROSEAL, OR APPROVED EQUAL SHALL BE APPLIED ALL EXPOSED CONCRETE.
- 4.9.

COMPONENTS NOT CONSTRUCTED ACCORDING TO THESE SPECIFICATIONS SHALL BE REMOVED AND REPLACED PROPERLY AT THE EXPENSE OF THE CONTRACTOR.
- 4.10.

THE FACES OF THE FINISHED STRUCTURES SHALL BE TRUE, STRAIGHT, AND OF UNIFORM WIDTH, FREE FROM HUMPS, SAGS, OR OTHER IRREGULARITIES EXCEPT AS SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL REPLACE ANY DEFICIENT SEGMENTS.

- 4.11.

CONCRETE FORMWORKERS AND FINISHERS:
THE CONTRACTOR SHALL SUPPLY A SUFFICIENT NUMBER OF EXPERIENCED CONCRETE FORMWORKERS AND FINISHERS IN ORDER TO COMPLETE THE WORK. A CONCRETE FOREMAN WHO HAS A THOROUGH UNDERSTANDING OF THE PLANS, SPECIFICATIONS, AND REFERENCED SPECIFICATIONS SHALL SUPERVISE ALL FORMWORKERS AND FINISHERS. NO SUB-STANDARD WORKMANSHIP WILL BE ACCEPTED.
- 4.12.

CONCRETE TRANSPORTATION:
CONCRETE DELIVERED FROM A READY MIX PLANT SHALL BE TRANSPORTED IN ACCORDANCE TO FDOT SECTION 346-7. CONCRETE THAT IS NOT PLACED IN THE FORM WITHIN THE SPECIFIED TIME LIMITS WILL BE REJECTED AND NOT INCLUDED IN THE WORK. CONTRACTOR SHALL BEAR ALL COSTS FOR REJECTED CONCRETE. CONCRETE SHALL NOT BE PLACED IN THE FORMS UNTIL THE REINFORCING STEEL PLACEMENT HAS BEEN APPROVED BY THE ENGINEER.
- 4.13.

REINFORCED CONCRETE MATERIALS TESTING:
THE CONTRACTOR SHALL HAVE AN INDEPENDENT TESTING LABORATORY TEST THE CONCRETE USED IN THE WORK. THE TEST SHALL INCLUDE 7, 14, AND 28 DAY COMPRESSIVE STRENGTH TESTS. THE RESULTS SHALL BE SUPPLIED TO THE ENGINEER. THE TESTS SHALL BE IN ACCORDANCE WITH ASTM C31, C39, AND C617.

5. STEEL

- 5.1.

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS FREE FROM LOOSE RUST AND SCALE.
- 5.2.

REINFORCING STEEL, SUPPORTS, AND TIE WIRE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A767.
- 5.3.

STEEL SHALL BE PLACED AS SHOWN IN THE PLANS. ALL ACCESSORIES SHALL BE PLASTIC ONLY TO SUPPORT REINFORCING EXPOSED TO WEATHER. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED AND FIRMLY HELD IN PLACE BEFORE AND DURING THE PLACEMENT OF CONCRETE.
- 5.4.

CONTRACTOR SHALL ADVISE ENGINEER OF THE REQUIRED REINFORCING STEEL SITE REVIEW AT LEAST 24 HOURS PRIOR TO PLACING OF CONCRETE.
- 5.5.

CONTRACTOR TO ALLOW FOR 5% ADDITIONAL REINFORCING FOR ENGINEER TO USE AT HIS DISCRETION DURING CONSTRUCTION. ANY UNUSED PORTION SHALL BE CREDITED BACK TO OWNER UPON COMPLETION OF PROJECT.

6. ROCK

- 6.1.

PROPOSED ROCK SOURCE(S) MUST BE APPROVED FOR USE BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORK. ONCE THE SOURCE(S) FOR ROCK ARE APPROVED, THE CONTRACTOR SHALL NOT USE MATERIAL FROM ANOTHER SOURCE WITHOUT REPEATING THE ACCEPTANCE AND TEST PROCEDURES TO QUALIFY THE OTHER SOURCE(S).
- 6.2.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING QUARRY CERTIFICATIONS AND PERFORMING QUALITY TESTS ON ALL ROCK. ALL ROCK SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

6.2.1.

CLEAN, SOUND AND DURABLE, AND FREE FROM FRACTURES, INCLUSIONS, VOIDS, OR OTHER DEFECTS. FREE OF CLAY, REFUSE, OR ADHERENT COATINGS.

6.2.2.

MINIMUM SPECIFIC GRAVITY OF 2.25 (140 PCF).

6.2.3.

SOUNDNESS 15% MAX LOSS (ASTM C88)

6.2.4.

SUCH CHARACTER THAT IT WILL NOT DISINTEGRATE FROM THE ACTION OF AIR, WATER, OR THE CONDITIONS OF HANDLING AND PLACING. MAXIMUM ABRASION LOSS OF 50% (ASTM C131)

6.2.5.

ROUGH ANGULAR QUARRIED MATERIAL WITH A SHAPE THAT ASSURES INTERLOCKING WITH ADJACENT ROCK.
- 6.3.

ALL ROCK WILL BE SUBJECT TO ON-SITE RANDOM SAMPLING AND TESTING (INCLUDING RANDOM DROP TESTS). ROCK THAT DOES NOT CONFORM IN SPECIFIC GRAVITY, STRUCTURE AND OTHER CHARACTERISTIC REQUIREMENTS WILL BE REJECTED. THE PRESENCE OF UNSATISFACTORY ROCK OR OBJECTIONABLE FOREIGN MATERIAL IN ANY OF CONTRACTOR PROVIDED ROCK WILL BE DEEMED SUFFICIENT REASON FOR REJECTION OF THE ENTIRE LOAD OF ROCK. ANY SUCH LOAD OF ROCK SHALL BE IMMEDIATELY REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
- 6.4.

ROCK USED FOR THE REVETMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING GRADATION:

PERCENT LESS THAN BY WEIGHT	MASS (LB)	NOMINAL SIZE (FT.)
100	6002.5	3.5
50	3760	3
0	2187.5	2.5

- 6.4.1.

THE LEAST DIMENSION OF ANY ROCK SHALL NOT BE LESS THAN ONE-THIRD (1/3) OF THE GREATEST DIMENSION OF THAT ROCK. SQUARE OR FLAT ROCK SHALL NOT BE ACCEPTED. ROCK SIZE SHALL BE TAKEN AS THE AVERAGE OF THE ROCK'S MAXIMUM GIRTH MEASURED IN EACH OF THREE PERPENDICULAR AXES. THE IN-PLACE ROCK SHALL BE WELL GRADED AND REPRESENT THE RANGE OF SIZE SPECIFIED
- 6.5.

THE CUBIC YARDAGE OF STONE IN THE BID ASSUMES THAT THERE ARE NO VOIDS. UNLESS CHANGED BY THE ENGINEER, THE BID TONNAGE IS THE MAXIMUM PAY TONNAGE. THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE PRIOR TO MAKING HIS BID. THE BID TONNAGE ASSUMES 140 PCF STONE IS USED TO FILL THE TEMPLATE. IF A HIGHER UNIT WEIGHT STONE IS USED, IT IS POSSIBLE THAT THE FINAL CROSS SECTION MAY VARY FROM THAT SHOWN ON THE PLANS. REGARDLESS OF THE STONE DENSITY, THE RIPRAP SHALL NOT EXTEND BEYOND THE CROSS SECTION SHOWN ON THE PLANS.

7. TIDAL DATA

- 7.1.

CONTRACTOR MAY NEED TO ADJUST HIS WORK PLAN TO ACCOUNT FOR ACTUAL WATER LEVELS AND CHANGING WATER LEVELS. THE SITE MAY BE SUBJECT TO VARIABLE WAVE AND SURGE CONDITIONS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR MARINE STRUCTURES AND SHORELINE DURING CONSTRUCTION. TIDAL DATA OBTAINED FROM FDEP HISTORICAL DATA FOR THE PROJECT AREA.

8. STEEL SHEET PILING

- 8.1.

STEEL SHEET PILING SHALL BE OF THE SECTIONS INDICATED, AND SHALL BE ASTM A572 GRADE 60 OR HIGHER.
- 8.2.

A THREE-COAT SHOP APPLIED SYSTEM COMPRISED OF AN INORGANIC ZINC PRIMER AND TWO COATS OF COAL TAR-EPOXY IN ACCORDANCE WITH FDOT STANDARD SECTION 560 SHALL BE APPLIED TO THE TOP 10' OF BOTH FACES OF STEEL SHEET PILE. FIRST COAT APPLICATION SHALL YIELD DRY FILM THICKNESS OF 8 TO 10 MILS. TOTAL DRY FILM THICKNESS OF THE TWO COATS SHALL BE MINIMUM 16 MILS. ANY DAMAGE TO COATING FROM SHIPPING, HANDLING, INSTALLATION OR OTHER REASONS SHALL BE REPAIRED AT NOT ADDITIONAL COST TO OWNER.

- 8.3.

CONTRACTOR TO DRIVE SHEET PILING IN ACCORDANCE WITH FDOT 455-9.
- 8.4.

ANY DAMAGED COATING DUE TO HANDLING, DRIVING, ETC., SHALL BE REPAIRED IN STRICT ACCORDANCE WITH COATING MANUFACTURER INSTRUCTIONS.
- 8.5.

ALL PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS INDICATED UNLESS OTHERWISE APPROVED BY ENGINEER.
- 8.6.

CONTRACTOR SHALL BE PREPARED TO DRIVE SHEET PILING THROUGH LIMESTONE LAYERS; REFER TO GEOTECHNICAL REPORT.
- 8.7.

INDEPENDENT TESTING LAB TO PERFORM VIBRATION MONITORING THROUGHOUT THE PILE INSTALLATION. MONITORING PLAN SHALL BE SUBMITTED FOR APPROVAL BY ENGINEER AND OWNER.

9. SUBMITTALS

- 9.1.

REVIEW OF SUBMITTALS BY THE ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE.
- 9.2.

ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTING TO THE ENGINEER.
- 9.3.

THE FOLLOWING MINIMUM SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO RELATED CONSTRUCTION ACTIVITY:

9.3.1.

SCHEDULE FOR COMPLETION OF WORK WITH TASKS AND DURATIONS DEFINED

9.3.2.

DEMOLITION METHODS & DISPOSAL PLAN

9.3.3.

CONCRETE MIX

9.3.4.

REINFORCING STEEL

9.3.5.

ROCK

9.3.6.

JOINT MATERIAL

9.3.7.

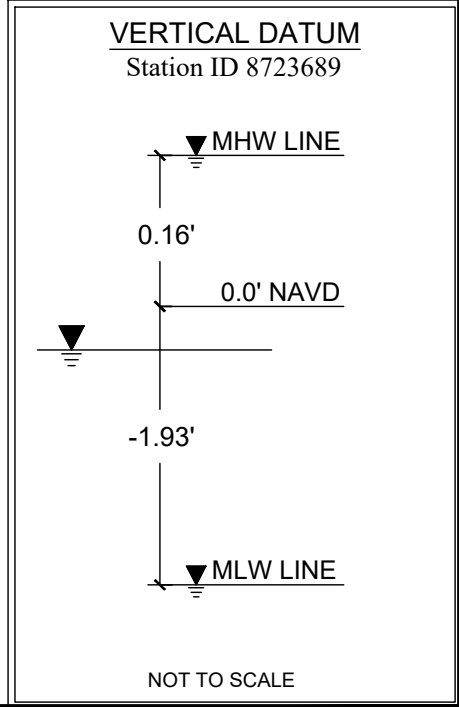
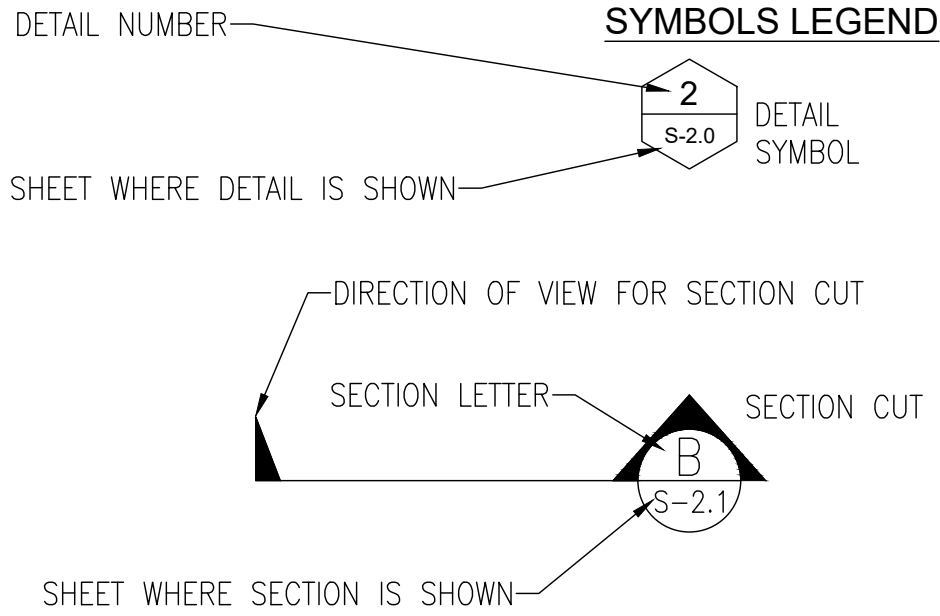
STEEL SHEET PILE

9.3.8.

CONCRETE SEALANT

9.3.9.

SHEET PILE HAMMER



DESIGNER : LBA

DRAWN BY: JDR

REVIEWED BY: LBA

Consultant :

ISSUE DATE: 8/7/2023

COMP. FILE No.: 89340

STATE PROJECT No.: 50441

PROFESSIONAL REGISTRATION
LEONARD BARRERA ALLEN
P.E. #90872

100% DRAWINGS

GENERAL NOTES

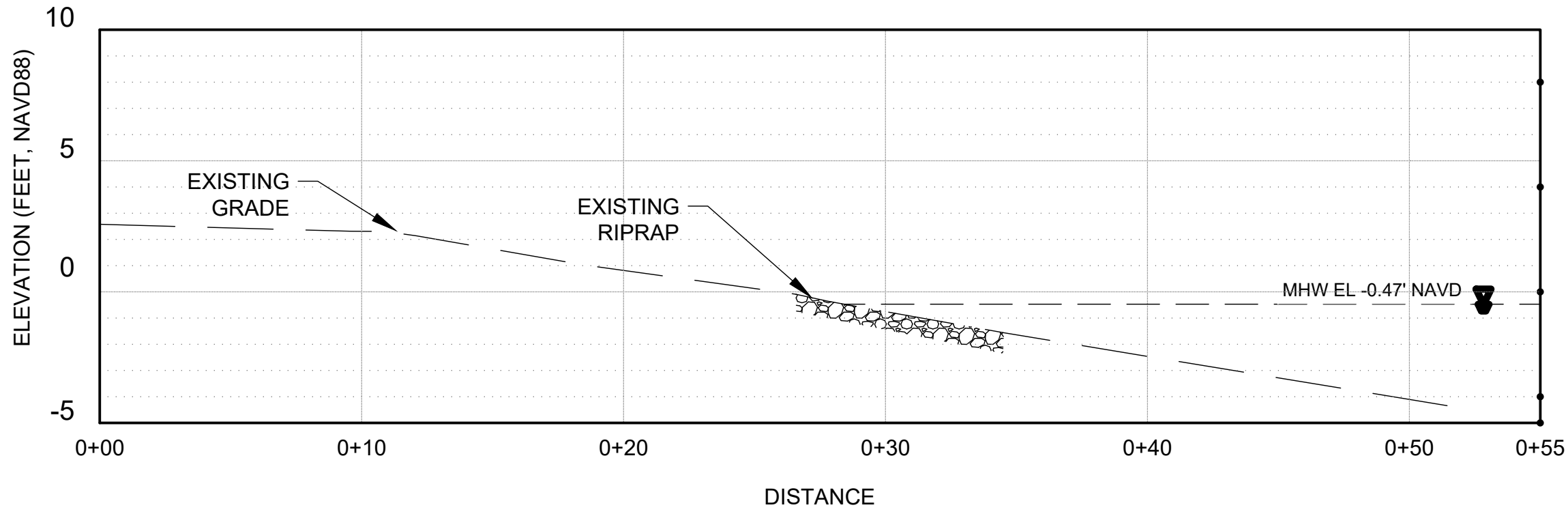
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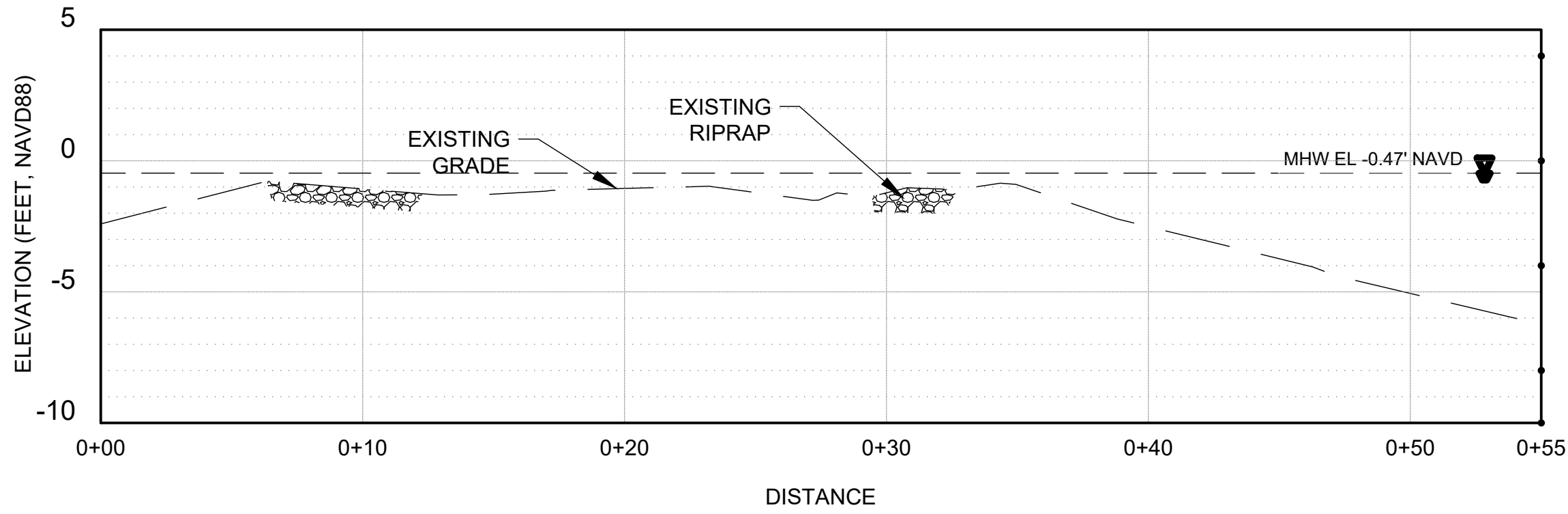
PROJECT TITLE
DAGNY JOHNSON KEY LARGO HAMMOCK BOTANICAL
STATE PARK / VALOIS CANAL PLUG REPAIR

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157

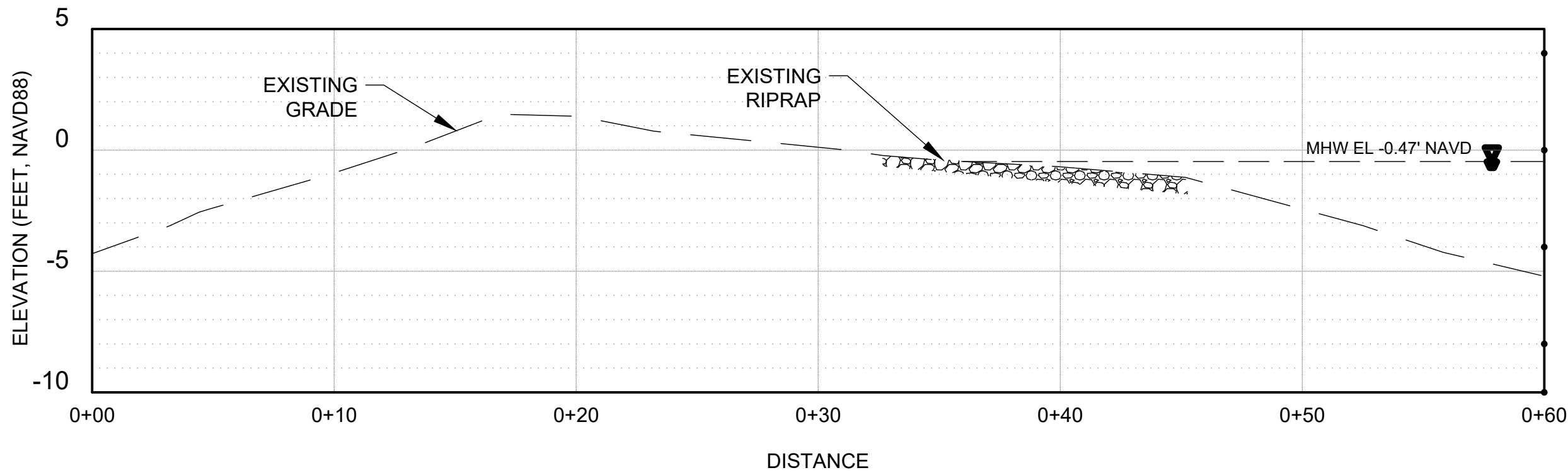
CUMMINS | CEDERBERG
Coastal & Marine Engineering
MIAMI • 4085 FLAUNDERDALE AVENUE, SUITE 100, TALLAHASSEE, FL 32309
TEL: 1-888-744-9188 FAX: 904-947-1888 WWW.CUMMINSCEDERBERG.COM



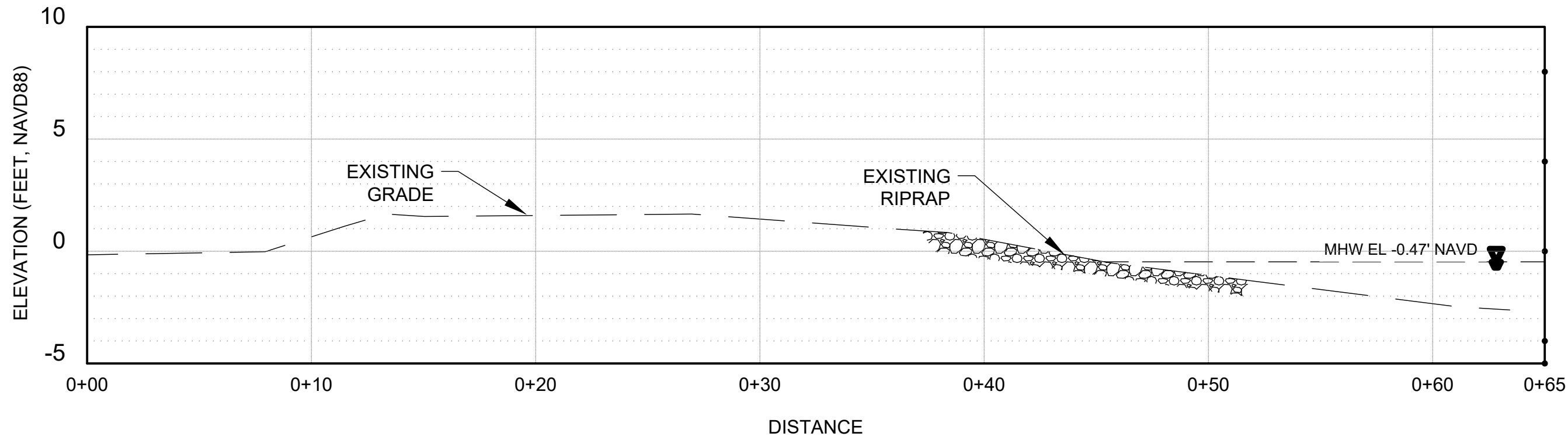
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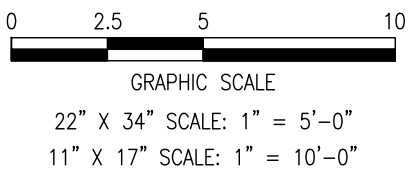
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CROSS SECTION C
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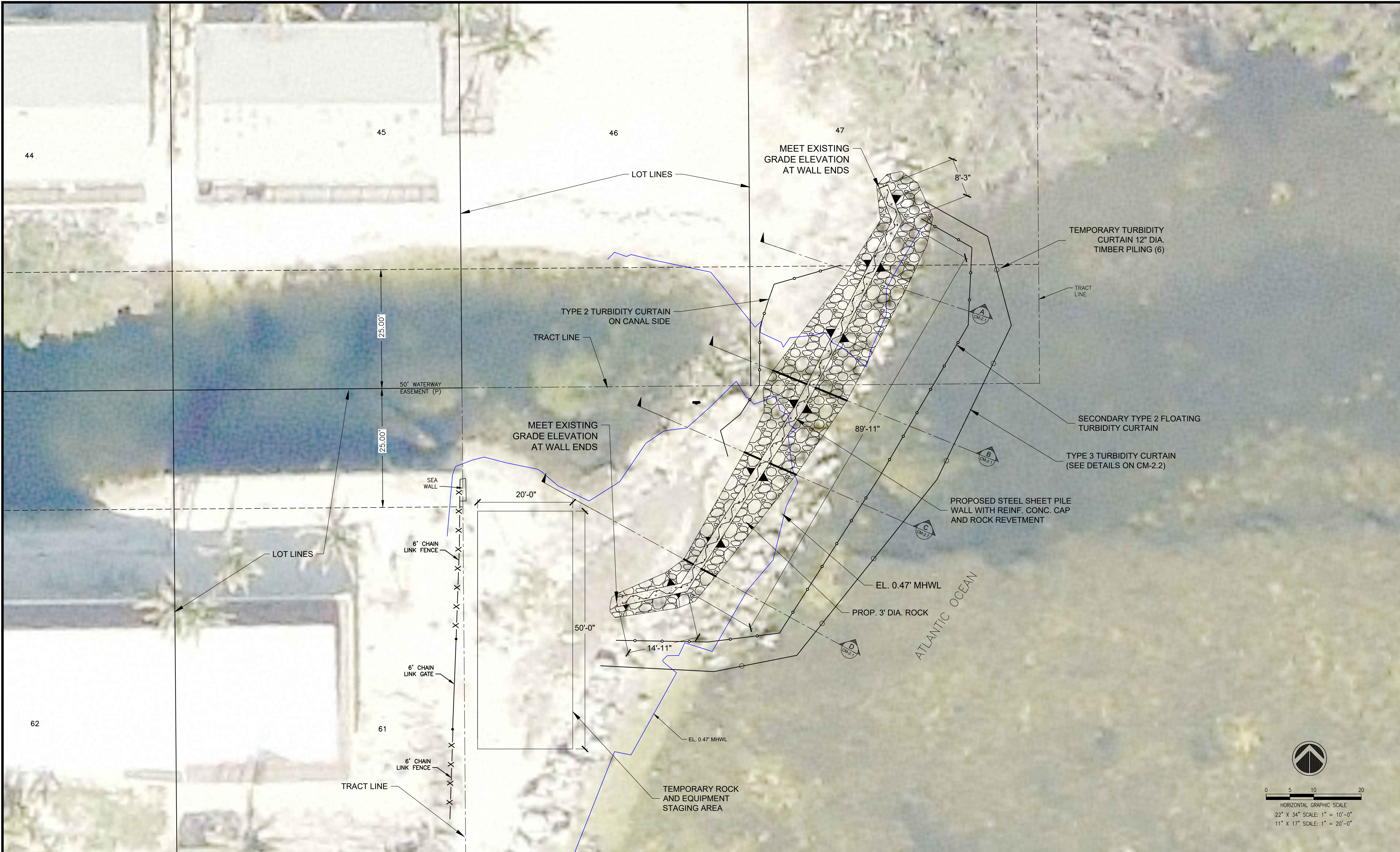


CROSS SECTION D
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PROJECT TITLE DAGNY JOHNSON KEY LARGO HAMMOCK BOTANICAL STATE PARK / VALOIS CANAL PLUG REPAIR										EXISTING SECTIONS																			
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PROJECT TITLE DAGNY JOHNSON KEY LARGO HAMMOCK BOTANICAL STATE PARK / VALOIS CANAL PLUG REPAIR										CONSULTANT : CUMMINS CEDERBERG Coastal & Marine Engineering																			
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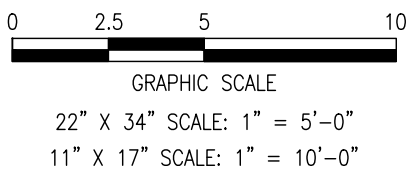
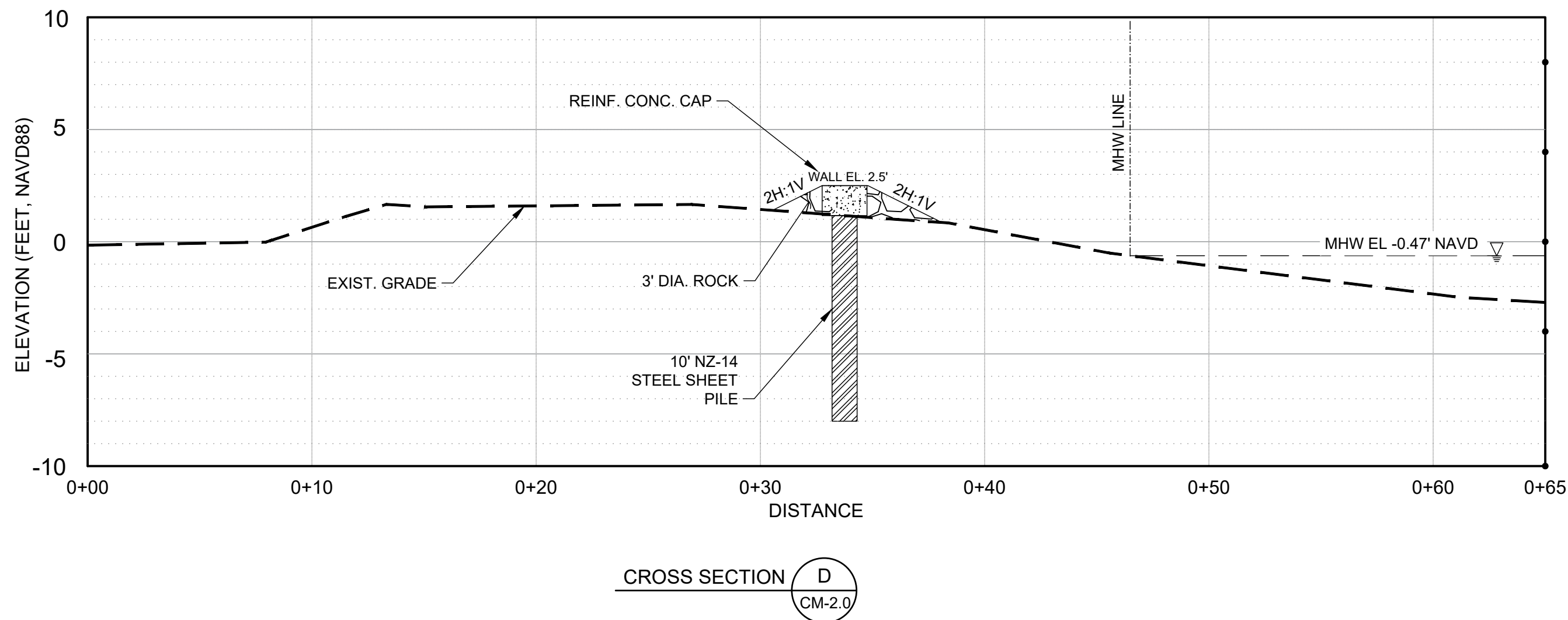
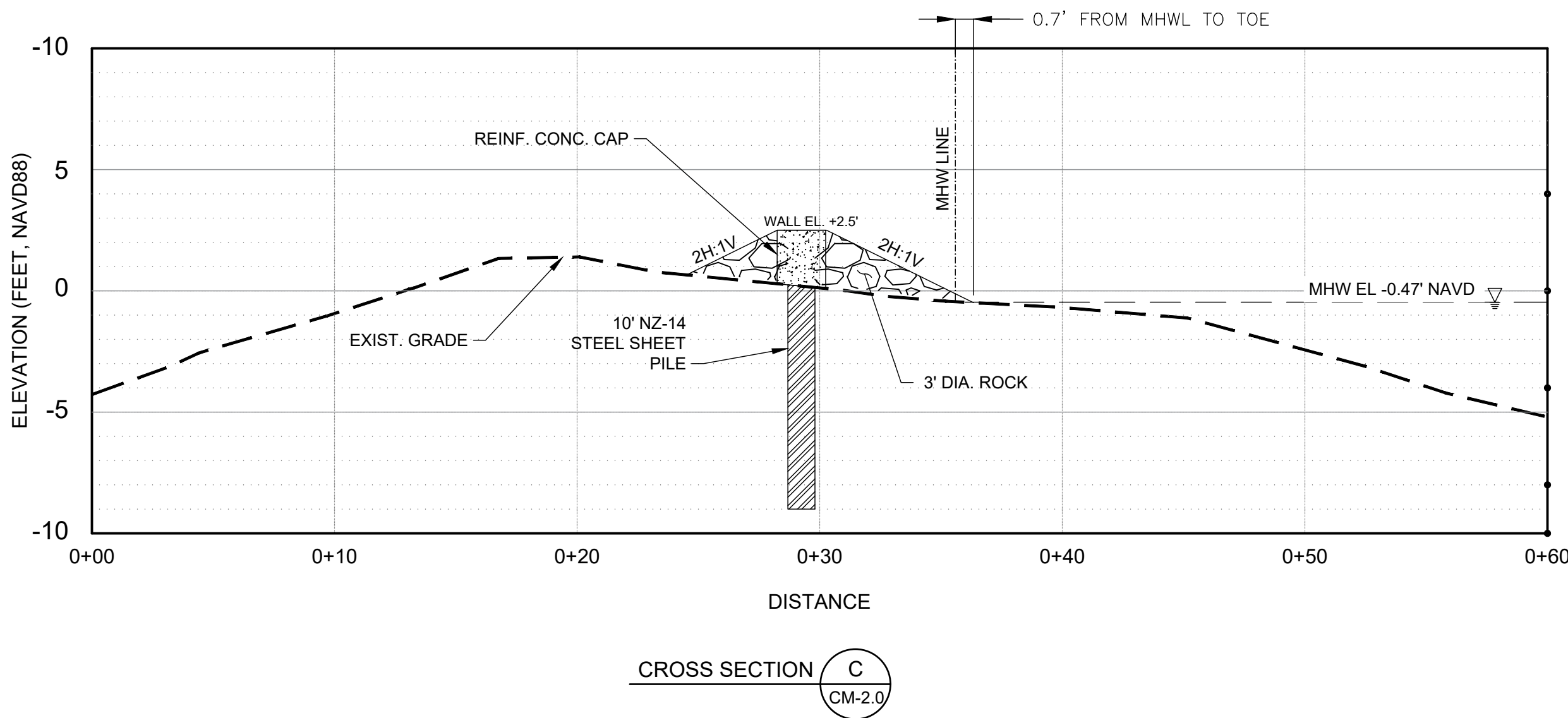
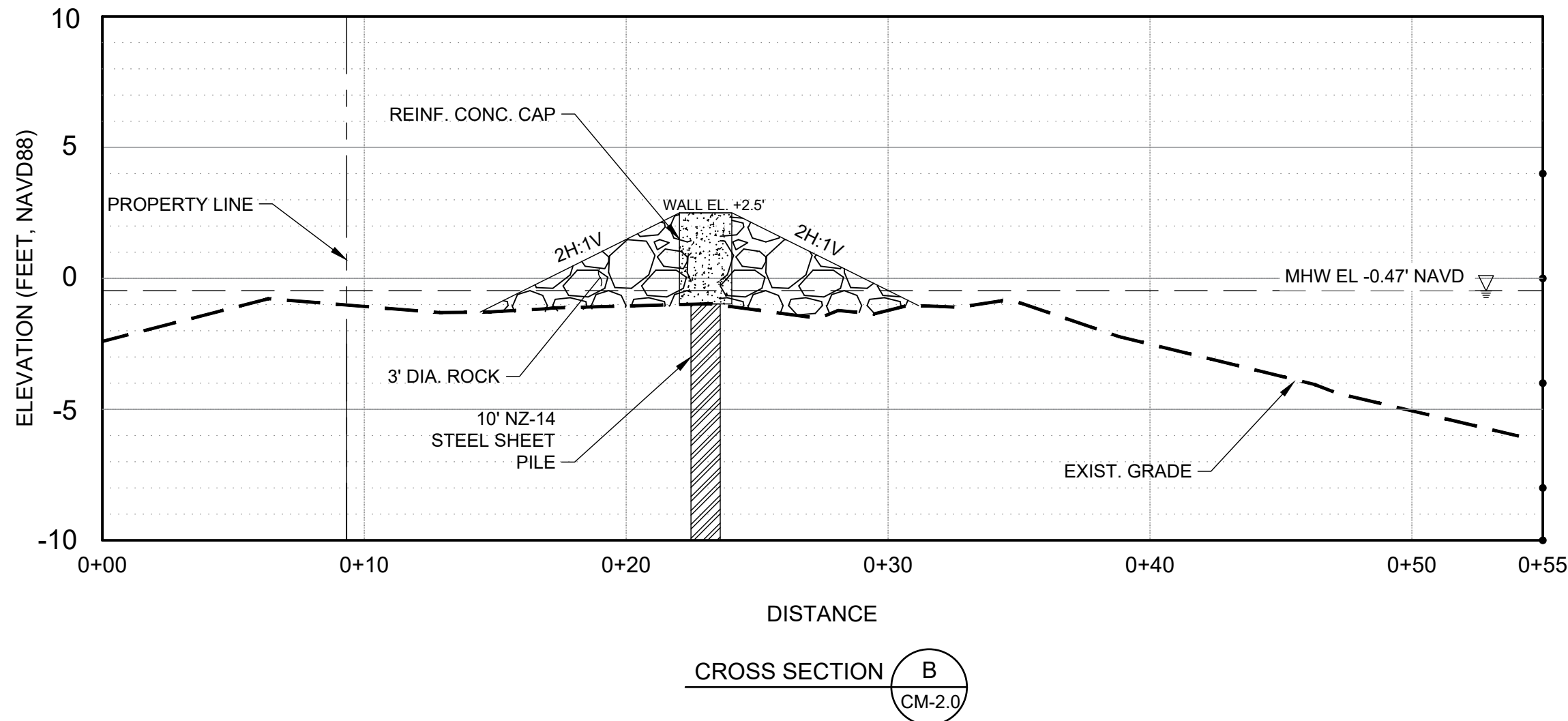
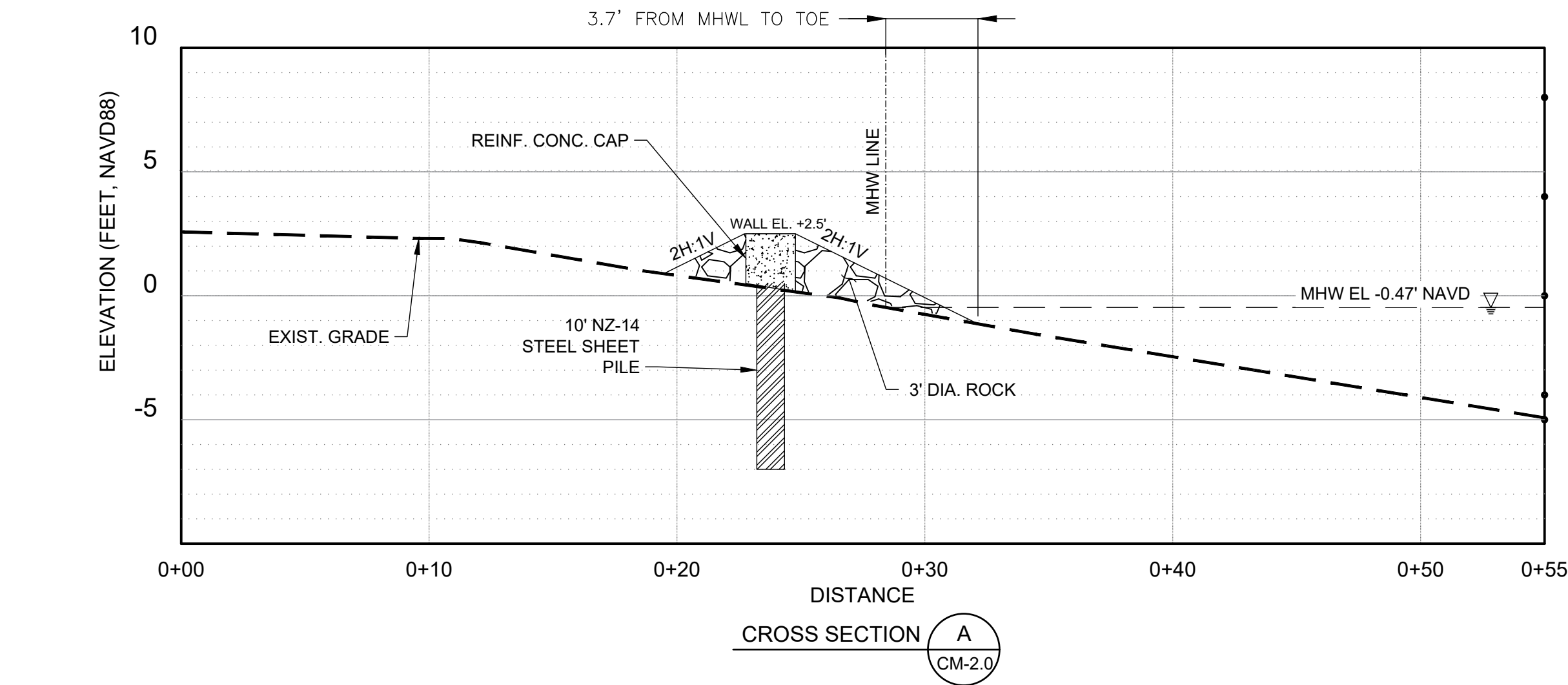
SUMMARY OF QUANTITIES

TYPE	QUANTITY
STEEL SHEET PILE	111 LF
RIP RAP	60 CY (1,060 SF)

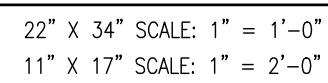
PROPOSED SITE PLAN

22" X 34" SCALE: 1" = 10'-0"
11" X 17" SCALE: 1" = 20'-0"

SHEET TITLE	PROPOSED SITE PLAN	SHEET NO.	100% DRAWINGS				PROFESSIONAL REGISTRATION LEONARD BARRERA ALLEN P.E. #90872	DESIGNER : LBA	ISSUE DATE: 8/7/2023	SUBMITTAL SYMBOL	REVISION	DATE
			DRAWN BY: JDR	COMP. FILE NO.: 89340	A	C						
PROJECT TITLE		DAGNY JOHNSON KEY LARGO HAMMOCK BOTANICAL STATE PARK / VALOIS CANAL PLUG REPAIR		CUMMINS CEDERBERG Coastal & Marine Engineering 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157 WWW.CUMMINSCEDERBERG.COM		REVIEWED BY: LBA		STATE PROJECT NO.: 50441	B	D		
CM-2.0												



SHEET NO.		SHEET TITLE		PROPOSED SECTIONS		DESIGNER : LBA PROFESSIONAL REGISTRATION LEONARD BARBERA ALLEN P.E. #9872		ISSUE DATE: 8/7/2023	SYMBOL	REVISION	DATE
						DRAWN BY: JDR		COMP. FILE No.: 89340			
						REVIEWED BY: JRC		STATE PROJECT No.: 50441			
						Consultant :					
				100% DRAWINGS							
		PROJECT TITLE		DAGNY JOHNSON KEY LARGO HAMMOCK BOTANICAL STATE PARK / VALOIS CANAL PLUG REPAIR							
						CUMMINS CEDERBERG Coastal & Marine Engineering MIAMI • FORT LAUDERDALE • JUPITER • TALLAHASSEE • ST. PETERSBURG TEL: 1-850-411-6100 FAX: 352-914-1868 WWW.CUMMINSCEDERBERG.COM					
						Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157					

CM-2.2

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

DA PERMIT NUMBER: SAJ-2023-00166

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019 or submit via electronic mail to: SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).

(TRANSFEREE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT)

(BLOCK)

(NAME-PRINTED)

(STREET ADDRESS)

(MAILING ADDRESS)

(CITY, STATE, ZIP CODE)

COMMENCEMENT NOTIFICATION

*Within ten (10) days of initiating the authorized work, submit this form via electronic mail to saj-rd-enforcement@usace.army.mil (preferred, not to exceed 15 MB) **or** by standard mail to U.S. Army Corps of Engineers, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.*

1. Department of the Army Permit Number:SAJ-2023-00166(NW-MCA)

2. Permittee Information:

Name: _____

Email: _____

Address: _____

Phone: _____

3. Construction Start Date: _____

4. Contact to Schedule Inspection:

Name: _____

Email: _____

Phone: _____

Signature of Permittee

Printed Name of Permittee

Date

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: SAJ-2023-00166(NW-MCA)

Permittee's Name & Address (please print or type): _____

Telephone Number: _____

Location of the Work: _____

Date Work Started: _____ Date Work Completed: _____

**PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES ___NO___
PLEASE CONTACT _____ AT _____
TO SCHEDULE AN INSPECTION**

Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.):

Acreage or Square Feet of Impacts to Waters of the United States: _____

Describe Mitigation completed (if applicable): _____

Describe any Deviations from Permit (attach drawing(s) depicting the deviations):

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

Signature of Permittee

Date

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

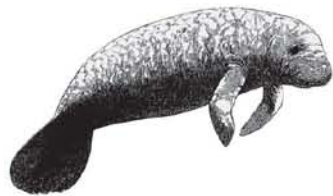
All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC