



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT  
9900 SW 107<sup>TH</sup> AVENUE, SUITE 203  
MIAMI, FL 33176

October 20, 2020

Regulatory Division  
South Permits Branch  
Miami Permits Section

## ***PUBLIC NOTICE***

Permit Application No. SAJ-2020-03787-(SP-GGM)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: Dale L. Bittner  
10 Azalea Drive  
Key West, FL 33040

WATERWAY AND LOCATION: The project would affect waters of the United States associated with the Atlantic Ocean. The project site is located on a vacant jurisdictional wetland parcel at Sugarloaf Drive; legally described as **Tract F** Replat Lots 1-2 of Sugarloaf Shores subdivision; PB7-33; in Section 03, Township 67 South, Range 27 East, Sugarloaf Key, Monroe County, Florida 33042 (RE# 00163011-000600)( MM± 16.8-Ocean).

Directions to the site are as follows: From Miami, drive south on U.S. 1, Overseas Highway, to approximately mile marker 16.8; turn left onto Sugarloaf Boulevard and then turn left onto Sugarloaf Drive. The project site would be located on a vacant lot that sits between 43 and 73 of Sugarloaf Drive.

APPROXIMATE CENTRAL COORDINATES: Latitude 24.64548° North  
Longitude 81.564364° West

### **PROJECT PURPOSE:**

Basic: The basic project purpose is to provide shelter with water/boating access and provide shoreline stabilization.

Overall: The overall project purpose is to construct a single-family residence with associated infrastructures, install a dock for water/boating access and provide shoreline stabilization for a property in Sugarloaf Key, Monroe County, Florida.

**EXISTING CONDITIONS:** The property is located within a developed subdivision of Sugarloaf Key, Monroe County Florida. The property is bordered by a 35'-40' wide man-made canal on the north, a paved road on the south, a parcel undergoing development on the west and an undeveloped wetland lot with similar conditions to the project site on the east. The parcel's shoreline is densely vegetated with mature and shrub red and black mangroves. The parcel proposed to receive fill material for development has been identified as intertidal saltmarsh wetland dominated by red and black mangroves and green buttonwood. No corals or seagrass have been identified within the project footprint.

**PROPOSED WORK:** The applicant seeks authorization to place 791.8 cubic yards ( $y^3$ ) of clean fill material within in 14,253 square feet ( $ft^2$ ) of jurisdictional wetlands for the construction of a residence and associated appurtenances; to place 21  $y^3$  of 2'-1' diameter boulders on filter fabric within 378.6  $ft^2$  area for shoreline stabilization; to install a 216  $ft^2$  t-shaped wood dock consisting of a 14-foot long by 4-foot wide access walkway leading to an 8-foot by 20-foot terminal platform with an elevation of 5 feet above the mean high water line (MHWL) and with ten (10) 10" diameter wood supporting piles; to install temporary filter fencing along the perimeter of the property to isolate the construction site and prevent the displacement of fill material into adjacent waters of the United States and to avoid the remaining 2,069  $ft^2$  of on-site wetlands, as depicted on the attached work plans (10 pages). Work is in Water of the United States, in accordance with the enclosed site work plans (10 pages).

**AVOIDANCE AND MINIMIZATION INFORMATION** – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

Temporary turbidity curtains will be deployed for the duration of all construction activities, in/over waters of the United States.

Temporary filter fencing will be installed prior to the discharge of any fill material as to prevent the spillage of fill material into the adjacent waters of the U.S. including wetlands. Additionally, the applicant proposes to avoid and preserve in perpetuity the remaining 2,069  $ft^2$  area of shoreline mangrove dominated wetlands.

**COMPENSATORY MITIGATION** – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment: If mitigation is required by the Army Corps of Engineers the appropriate mitigation will be determined with a UMAM and payment made to Keys Restoration Fund.

CULTURAL RESOURCES: The Corps is not aware of any known historic properties within the permit area. By copy of this public notice, the Corps is providing information for review. Our final determination relative to historic resource impacts is subject to review by and coordination with the State Historic Preservation Officer and those federally recognized tribes with concerns in Florida and the Permit Area.

#### ENDANGERED SPECIES:

The U.S. Army Corps of Engineers (Corps) has determined the project may affect, but is not likely to adversely affect ("MANLAA") the West Indian manatee (*Trichechus manatus*). Since the proposal by the applicant is for in-water construction, potential impacts to the endangered West Indian manatee were evaluated using *The Corps of Engineers, Jacksonville District, and the State of Florida Effect Determination Key for the Manatee in Florida, April 2013* (Key). Use of the Key resulted in the following sequential determination: A > B > C > G > H > I > N > O > P (4), may affect, not likely to adversely affect "MANLAA". This determination is partially based on the implementation of the *Standard Manatee Conditions for In-Water Work, 2011*. By letter dated April 25, 2013, the Corps received concurrence from the U.S. Fish and Wildlife Service (FWS) regarding MANLAA determinations for the West Indian manatee in accordance with 50 CFR 402.14(b)1 and pursuant to the Key. No further coordination with the FWS is required.

The U.S. Army Corps of Engineers (Corps) has determined the project *may affect, but is not likely to adversely affect* ("MANLAA") the American crocodile (*Crocodylus acutus*). The project is located within American crocodile (*Crocodylus acutus*) consultation area. According to the 28 October 2014 American Crocodile Key, the property does not support suitable nesting habitat for the crocodile as the shoreline is densely vegetated. Use of the Key resulted in the sequence #2 *may affect, not likely to adversely affect*. Therefore, the Corps has reached a "may affect not likely to adversely affect" determination on the American crocodile and its suitable nesting habitat.

The real estate parcel number is 00163011-000600 and is on the U.S. Fish and Wildlife Service Suitable Habitat List, dated August 2010, for Monroe County for the following species: Eastern Indigo snake (*Drymarchon corais couperi*), Key deer (*Odocoileus virginianus clavium*), Lower Keys marsh rabbit (*Sylvilagus palustris hefneri*), and Silver rice rat (*Oryzomys palustris natator*) focus area. The Corps initial determination is that the proposed project *may affect but is not likely to adversely affect* ("MANLAA") the aforementioned species and designated habitat. The Corps will request Fish and Wildlife Service concurrence with these determinations via a separate letter pursuant to Section 7 of the Endangered Species Act.

The Corps has determined the proposed project *may affect, but is not likely to adversely affect* ("MANLAA") the swimming green sea turtles (*Chelonia mydas*), loggerhead sea turtles (*Caretta caretta*) and their designated critical habitat, hawksbill sea turtles (*Eretmochelys imbricata*), kemp's ridley sea turtles (*Lepidochelys kempii*), leatherback

sea turtles (*Dermochelys coriacea*), Nassau grouper (*Epinephelus striatus*), and the smalltooth sawfish (*Pristis pectinata*) species. A *no effect* determination was reached on smalltooth sawfish critical habitat, *Acorpora* sp. and its designated critical habitat and corals species; (*Dendrogyra cylindrus*, *Orbicella annularis*, *Orbicella faveolata*, *Orbicella franksi*, *Mycetophyllia ferox*). The Corps will request National Marine Fisheries Service concurrence with these determinations pursuant to Section 7 of the Endangered Species Act.

**ESSENTIAL FISH HABITAT (EFH):** This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The proposal would impact approximately 14,253 square feet of wetland resources indirectly utilized by various life stages of land and marine species and of submerged bottom utilized by various life stages of marine species. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally managed fisheries in the Florida Keys. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

**NOTE:** This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has not been verified by Corps personnel.

**AUTHORIZATION FROM OTHER AGENCIES:** Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

**COMMENTS** regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Miami Permits Section, 9900 Southwest 107<sup>th</sup> Avenue, Suite 203, Miami, Florida, 33176, within 30 days from the date of this notice (i.e. on or before November 19, 2020).

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

**QUESTIONS** concerning this application should be directed to the project manager, Gletys Guardia-Montoya at the letterhead address, by electronic mail at Gletys.Guardia-Montoya@usace.army.mil, or by telephone at 305-526-2515.

**IMPACT ON NATURAL RESOURCES:** Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries

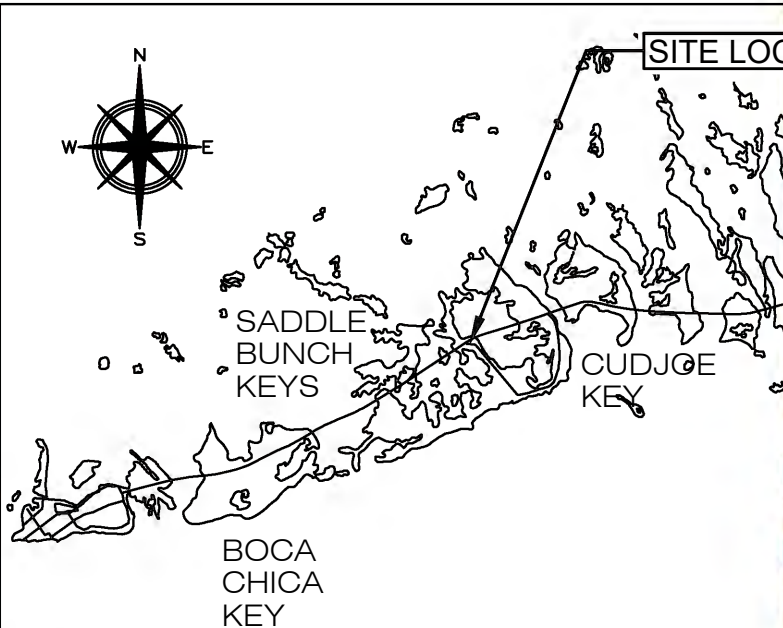
Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**COASTAL ZONE MANAGEMENT CONSISTENCY:** In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

**REQUEST FOR PUBLIC HEARING:** Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.



## SITE DATA

OWNER: DALE LEE BITTNER REVOCABLE TRUST 9/30/2013  
 RE: 00163011-000600  
 SECTION/TOWNSHIP/RANGE: 03/67/27  
 LEGAL DESCRIPTIONS: TRACT F REPLAT LOTS 1 - 2 SUGARLOAF SHORES PB7-33 (.38AC)  
 LAT: 24.64527° N LON: 81.56417° W

## DESIGN DATA

THE WORK DEPICTED HEREIN WAS DESIGNED TO MEET THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE AND THE LATEST EDITIONS OF THE FLORIDA MODEL ENERGY CODE, FIRE CODE, LIFE SAFETY CODE AND THE NATIONAL ELECTRIC CODE. THE FOLLOWING LOADINGS WERE USED:  
 WIND LOAD: 180 MPH; ASCE 7-10; EXPOSURE D

## INDEX OF DRAWINGS

SHEET C-1.0 - SITE LOCATION AND SITE DATA  
 SHEET C-2.0 - EXISTING SITE PLAN  
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 SHEET C-3.0 - PROPOSED SITE PLAN  
 SHEET C-4.0 - SECTIONS  
 SHEET C-4.1 - DOCK ELEVATION PLAN  
 SHEET C-4.2 - DOCK FRAMING PLAN  
 SHEET C-5.0 - EROSION CONTROL PLAN  
 SHEET C-6.0 - CONSTRUCTION NOTES  
 SHEET C-6.1 - CONSTRUCTION NOTES

## GENERAL NOTES

1. THESE PLANS ARE FOR THE CONSTRUCTION AT THE LOCATION SO DESIGNATED HEREIN.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO PROVIDE THE WORK COMPLETE AND READY FOR USE.
3. THERE SHALL BE NO DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE BID. CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK SITE AND REPORT ANY DISCREPANCIES, DIFFERENCES OR CONDITIONS THAT ARE UNSATISFACTORY OR UNSAFE.
5. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCIES, DIFFERENCES, UNSATISFACTORY OR UNSAFE CONDITIONS. ANY MODIFICATIONS OR CHANGES MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER AND ENGINEER OF RECORD SHALL NOT BE ALLOWED. ANY REWORK, RESTORATION OR OTHER IMPACT AS A RESULT OF NOT OBTAINING SUCH PRIOR APPROVAL WILL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR COMPENSATION FROM THE OWNER.
6. THE CONTRACTOR SHALL PROVIDE FOR THE SAFETY, PREVENTION OF INJURY OR OTHER LOSS AT THE JOB TO ALL PERSONS EMPLOYED IN THE WORK, PERSONS VISITING THE WORK AND THE GENERAL PUBLIC. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PREVENTION OF DAMAGE, DUE TO THE WORK, TO MATERIALS OR EQUIPMENT AND OTHER PROPERTY AT THE SITE OR ADJACENT THERETO.
7. NO RESEARCH AS TO THE PRESENCE OF UNDERGROUND UTILITIES HAS BEEN INCLUDED ON OR PERFORMED FOR THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING SUNSHINE UTILITY LOCATE SERVICE PRIOR TO ANY CONSTRUCTION WITHIN ANY PUBLIC RIGHT-OF-WAY OR OTHER AREAS WHERE UNDERGROUND UTILITIES MAY BE PRESENT (I.E. IN AND AROUND UTILITY EASEMENTS, ETC.).
8. THE GENERAL CONTRACTOR SHALL PROVIDE AN ON-SITE DUMPSTER IN A LOCATION COORDINATED WITH THE OWNER FOR THE DISPOSAL OF REMOVED MATERIAL AND CONSTRUCTION DEBRIS. THE DUMPSTER SHALL BE EMPTIED AT APPROPRIATE INTERVALS TO PREVENT OVERFLOW AND UNSIGHTLY CONDITIONS.
9. THE CONTRACTOR SHALL PERFORM ALL WORK IN STRICT CONFORMANCE WITH THE PLANS, 2017 FLORIDA BUILDING CODE, LOCAL CODES AND ORDINANCES, MANUFACTURER RECOMMENDATIONS AND ACCEPTABLE TRADE PRACTICES. ANY CONFLICT BETWEEN THESE REQUIREMENTS AND THE MOST STRINGENT REQUIREMENTS SHALL GOVERN THE WORK.
10. SHOP DRAWINGS OF ALL PREFABRICATED STRUCTURAL FLOOR AND ROOF SYSTEMS AND MECHANICAL SYSTEMS SHALL BEAR THE SEAL OF A FLORIDA PROFESSIONAL ENGINEER AS REQUIRED BY THE 2017 FLORIDA BUILDING CODE AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD BY THE CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
11. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ANY INFORMATION THAT THE CONTRACTOR CANNOT OBTAIN FROM DIMENSIONS, DETAIL OR SCHEDULE SHALL BE OBTAINED FROM THE ENGINEER OF RECORD.
12. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO PREVENT ANY CONFLICTS.
13. THE CONTRACTOR SHALL FURNISH ALL SUBCONTRACTORS WITH A COMPLETE SET OF PLANS. ALL CHANGES SHALL BE NOTED ON THE DRAWINGS AND (2) COMPLETE AS-BUILT SETS SHALL BE DELIVERED TO THE OWNER AFTER COMPLETION OF WORK.

## DRIVING DIRECTIONS

1. TAKE US 1 SOUTH FROM THE MAINLAND TO LOWER SUGARLOAF KEY.
2. TAKE A LEFT ON SUGARLOAF BOULEVARD AT THE BLINKING LIGHT.
3. TAKE A LEFT ON SUGARLOAF DRIVE.
4. PROPERTY IS ON THE LEFT.

## ADJOINING PROPERTY OWNERS MAILING ADDRESS

TO THE WEST:  
 MARK MCCANN  
 43 SUGARLOAF DRIVE  
 SUGARLOAF KEY FL 33042

TO THE EAST:  
 DALE LEE BITTNER REVOCABLE TRUST  
 10 AZALEA DRIVE  
 KEY WEST FL 33040

## SCOPE OF WORK

- CLEAR AND GRUB A SINGLE FAMILY LOT WITH MARGINAL SALT MARSH HABITAT TO BUILD A NEW SINGLE FAMILY RESIDENCE AND DOCK.
- INSTALL RIP-RAP PARALLEL TO SHORELINE.

## BITTNER PROPERTY NEW RESIDENCE

VACANT LAND SUGARLOAF TRACT F  
 SUGARLOAF KEY, FLORIDA 33042

Revisions:


Meridian Engineering LLC  
 201 Front Street, Suite 207  
 Key West, Florida 33040  
 AUTHORIZATION #29401  
 ph:305-293-3263 fax:293-4899

NOT VALID FOR CONSTRUCTION UNLESS  
 SIGNED AND SEALED IN THIS BLOCK

RICHARD J. MILELLI  
 PE #58315

## SITE LOCATION & SITE DATA

### C-1.0

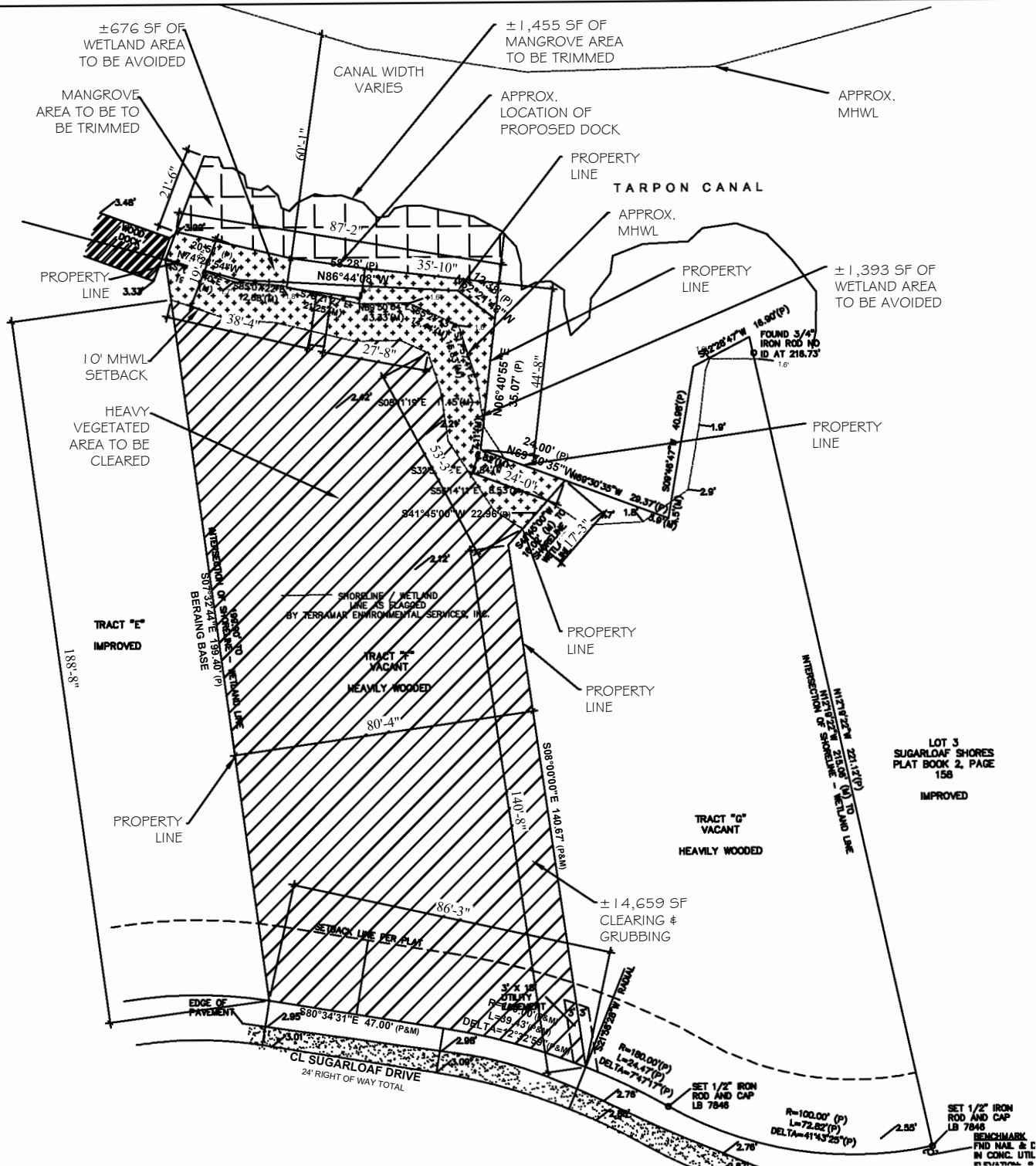
Project No:      Scale:  
                                  N.T.S.

CAD File:      Date:  
 Tract F DEP Army Corps      9/8/2020  
 9-8-20

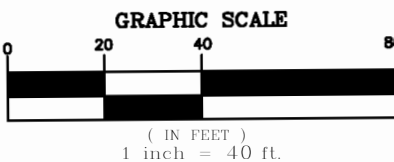





RICHARD J. MILELLI  
PF #58315





NOTES:  
1. ALL ELEVATIONS REFERENCED IN NGVD 29.



-  MANGROVE AREA TO BE TRIMMED
-  VEGETATED AREA TO BE AVOIDED
-  VEGETATED AREA TO BE CLEARED

SITE DATA TABLE

TOTAL PROPERTY AREA	0.376 AC (16,361 SF)
APPROX. MANGROVE AREA TO BE TRIMMED	0.033 AC (1,455 SF)
APPROX. WETLAND AREA TO BE AVOIDED	0.047 AC (2,069 SF)
APPROX. AREA OF CLEARING & GRUBBING	0.337 AC (14,658 SF)

## BITTNER PROPERTY NEW RESIDENCE

VACANT LAND SUGARLOAF TRACT F  
SUGARLOAF KEY, FLORIDA 33042

EXISTING SITE PLAN  
C-2.1

Project No:  
Scale:  
1"=40'-0"  
CAD File:  
Tract F DEP Army Corps  
9-8-20  
Date:  
9/8/2020

Revisions:  
  
  
  
  
  
Meridian Engineering LLC  
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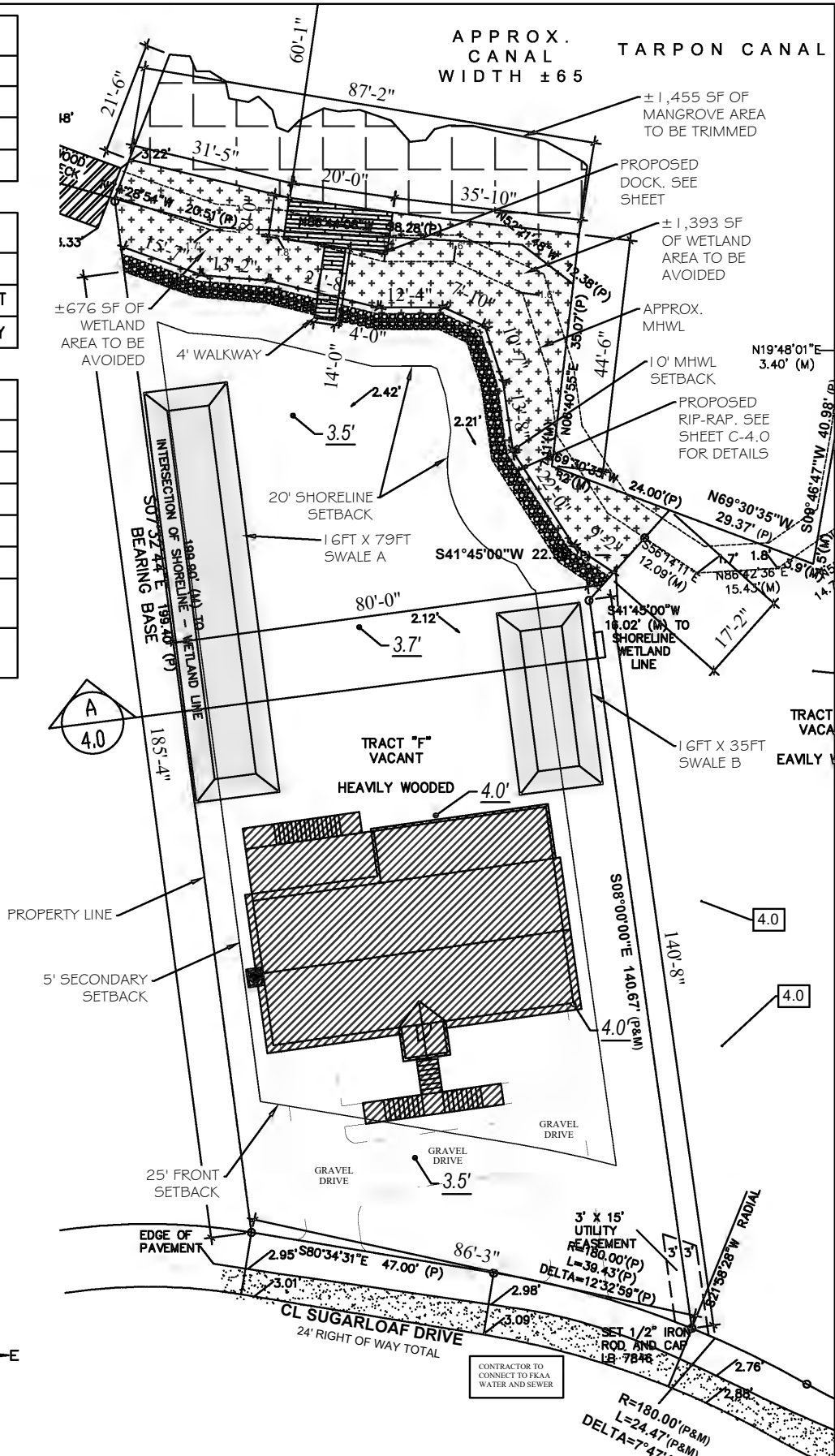
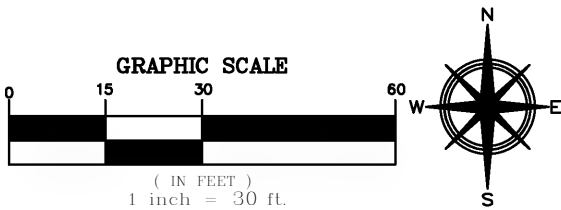


RIP RAP DATA	
RIP RAP TOTAL LENGTH	126.2 FT
WIDTH OF RIP-RAP	3 FT
HEIGHT OF RIP RAP	1.5± FT
VOLUME OF RIP RAP	568 CF / 21 CY

FILL DATA	
APPROX. AREA OF FILL	±14,253 SF
APPROX. HEIGHT OF FILL	VAR. 1.25 FT-1.75 FT
APPROX. VOLUME OF FILL	21,379 CF/ 791.8 CY

DOCK DATA	
TOTAL AREA OF DOCK	216 SF
NUMBER OF PILES	10
APPROX. AREA OVER MANGROVES	42.6 SF
APPROX. AREA OVER WATER	160 SF
APPROX. AREA UPLAND	13.4 SF
APPROX. AREA OF MANGROVE TO BE TRIMMED	1,455 SF
APPROX. WETLAND AREA TO BE AVOIDED.	2,069 SF

SITE DRAINAGE CALCULATIONS	
TOTAL LOT SIZE.....16,362.7 SQ. FT.	
IMPERVIOUS COVERAGE:	
BUILDING AREA, STAIRS, PORCHES	
.....2,651 SF	
TOTAL DISTURBED AREA:..2,651 SF	
2,651 SF / 16,362.7 SF = 16.2%	
CUBIC FT. REQUIRED	
16,362.7 sf * 0.083 = 1,359 CF	
CUBIC FT. PROVIDED.....1,368 CF	
SWALE A	
12 CU. FT/FT.	
79 LINEAR FEET = 948 CF PROVIDED	
SWALE B	
12 CU. FT/FT.	
35 LINEAR FEET = 420 CF PROVIDED	
SWALE A + SWALE B = 1,368 CF	



## BITTNER PROPERTY NEW RESIDENCE

VACANT LAND SUGARLOAF TRACT F  
SUGARLOAF KEY, FLORIDA 33042

## PROPOSED SITE PLAN C-3.0

Project No: \_\_\_\_\_  
Scale: 1"=30'-0"  
CAD File: Tract F DEP Army Corps 9-8-20  
Date: 9/8/2020

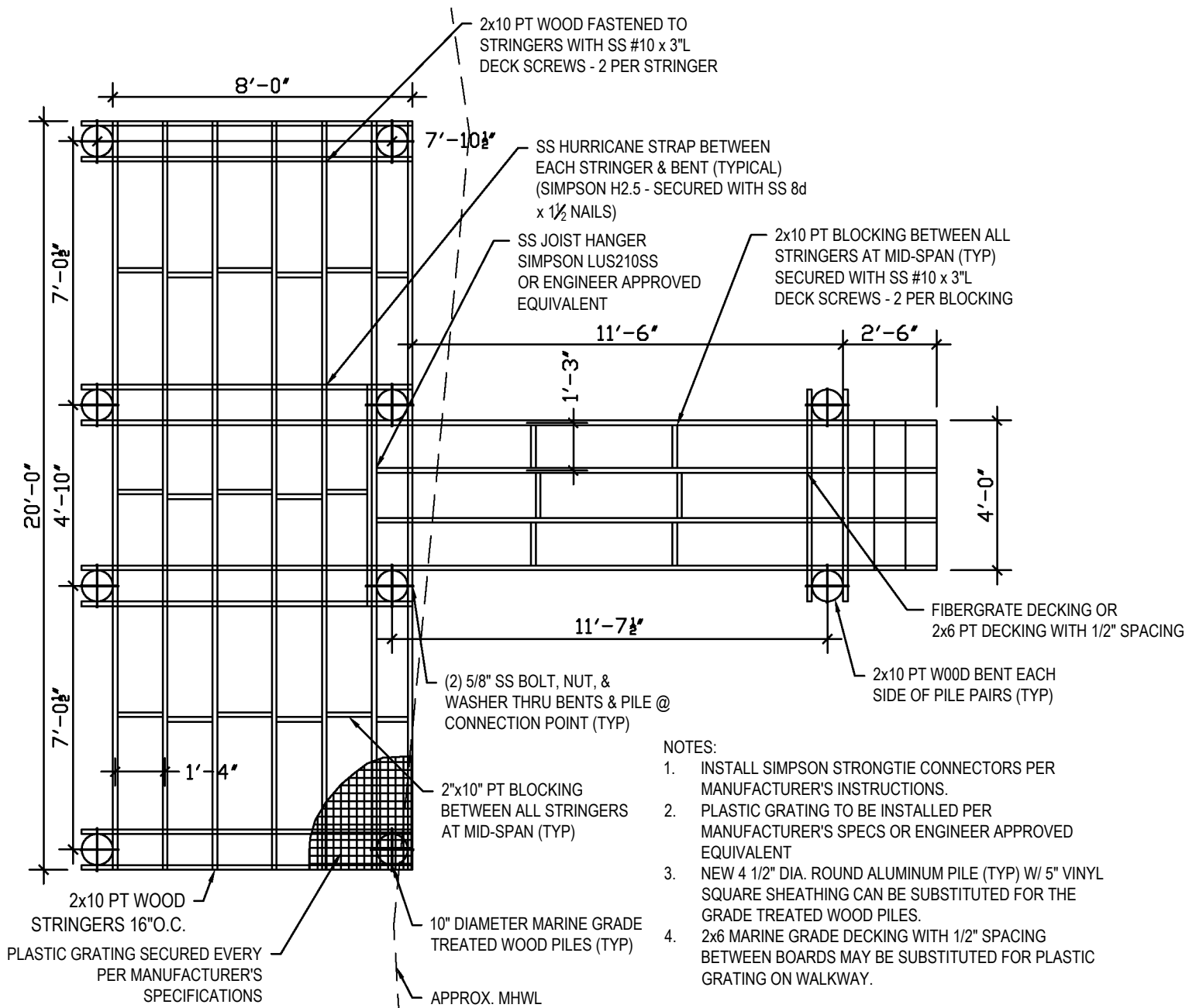
Revisions: \_\_\_\_\_  
Meridian Engineering LLC  
201 Front Street, Suite 207  
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AUTHORIZATION #29401  
ph:305-293-3263 fax:293-4899

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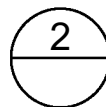


RICHARD J. MILELLI  
PE #58315



NOTES:

1. INSTALL SIMPSON STRONGTIE CONNECTORS PER MANUFACTURER'S INSTRUCTIONS.
2. PLASTIC GRATING TO BE INSTALLED PER MANUFACTURER'S SPECS OR ENGINEER APPROVED EQUIVALENT
3. NEW 4 1/2" DIA. ROUND ALUMINUM PILE (TYP) W/ 5" VINYL SQUARE SHEATHING CAN BE SUBSTITUTED FOR THE GRADE TREATED WOOD PILES.
4. 2x6 MARINE GRADE DECKING WITH 1/2" SPACING BETWEEN BOARDS MAY BE SUBSTITUTED FOR PLASTIC GRATING ON WALKWAY.



## DOCK FRAMING PLAN

SCALE: N.T.S.

### BITTNER PROPERTY NEW RESIDENCE

VACANT LAND SUGARLOAF TRACT F  
SUGARLOAF KEY, FLORIDA 33042

### DOCK FRAMING PLAN C-4.2

Project No:

Scale:  
1"=20'-0"

CAD File:

Tract F DEP Army Corps  
9-8-20

Date:

9/8/2020

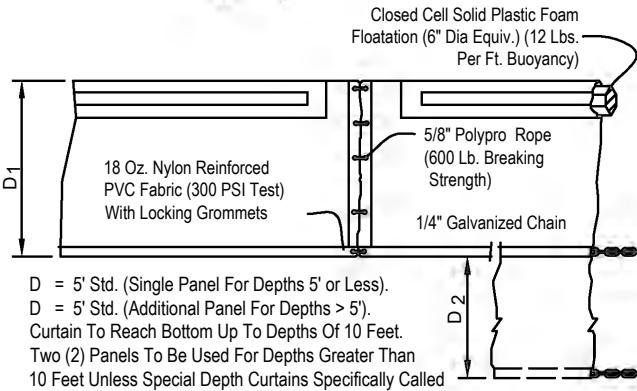
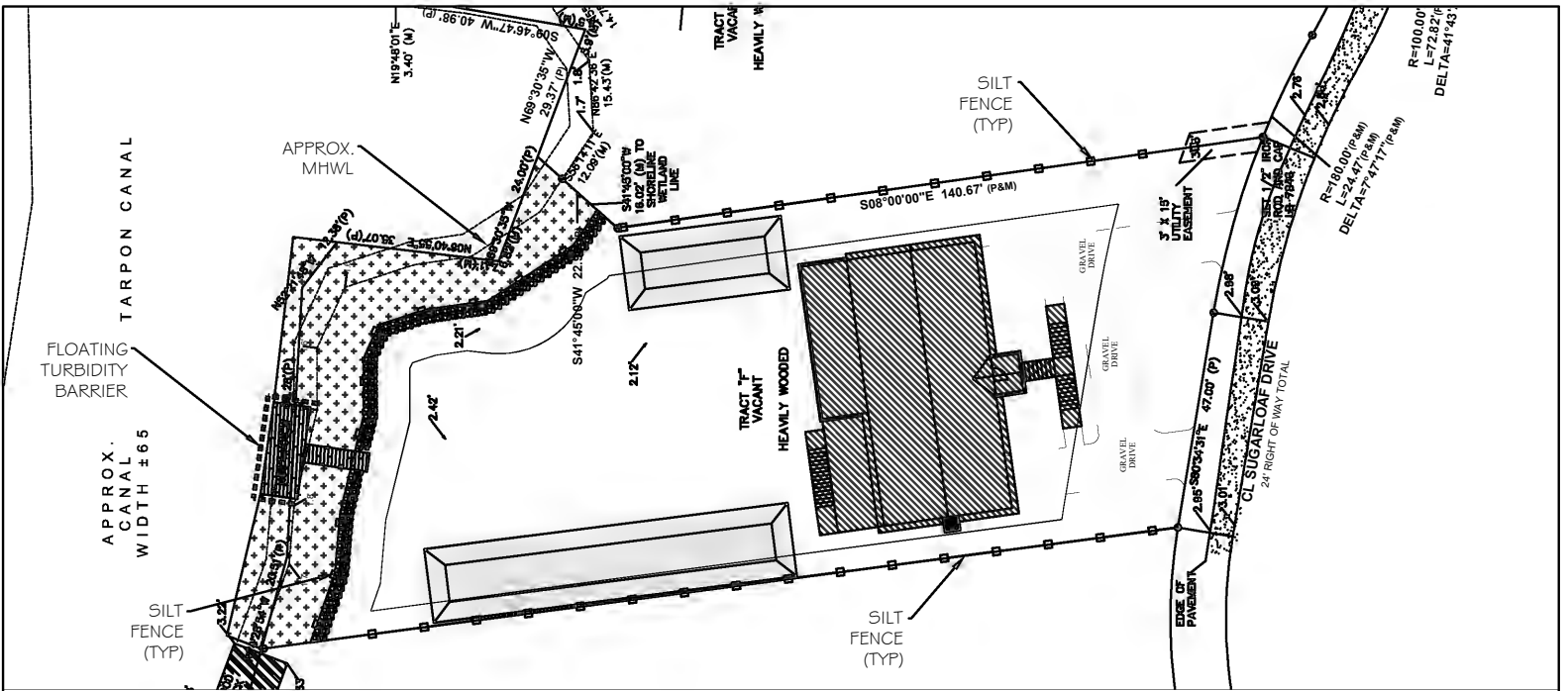
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- FLOATING TURBIDITY BARRIER GENERAL NOTES:**
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF DEPTH.
  2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
  3. DEPLOYMENT OF BARRIER AROUND TREE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION GUIDELINES.
  4. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

NOTICE: COMPONENTS OF TYPE I MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPE I SHALL BE AS APPROVED BY THE ENGINEER.

**FLOATING TURBIDITY BARRIER DETAIL**

**ATTACHING TWO SILT FENCES**

PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE

ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL

DIRECTION OF RUNOFF WATERS

DRIVE BOTH POSTS ABOUT 10 INCHES INTO THE GROUND AND BURY FLAP

NOTE: CONTRACTOR TO INSPECT SILT FENCE DAILY AND REPAIR IMMEDIATELY IF DAMAGED.

POST OPTIONS:  
SOFTWOOD 2" DIA.  
SOFTWOOD 2" x 4"  
HARDWOOD 1 1/2" x 1 1/2"  
STEEL 1.33 LBS/FT.

6' MAX.

3' OR MORE

15" TO 18"

8"

12" MIN.

FILTER FABRIC (IN COMPLIANCE WITH SEC. 985 FDOT SPEC.)

SILT FLOW

10 FT MAX SPACING WITH WIRE SUPPORT FENCE

6 FT MAX SPACING WITHOUT WIRE SUPPORT FENCE

STEEL OR WOOD POST 36" HIGH MAX

2 FEET MIN.

10" MIN.

6" MAX TRENCH WITH COMPACTED BACKFILL

SILT FENCE DETAIL  
TRENCH WITH NATIVE BACKFILL  
NTS

**1 FABRIC SILT FENCE DETAILS**  
NTS  
FDOT INDEX NO. 102  
TWO SECTIONS OF SILT FENCE SHALL BE JOINED AS SHOWN ON DETAIL TO LEFT.

- NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  2. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE TO OFFSITE SEDIMENTATION AND CAN BE PERMANENTLY STABILIZED.

**BITTNER PROPERTY  
NEW RESIDENCE**

VACANT LAND SUGARLOAF TRACT F  
SUGARLOAF KEY, FLORIDA 33042

Revisions:


**EROSION PLAN  
C-5.0**

Project No:      Scale: N.T.S.

CAD File: Tract F DEP Army Corps 9-8-20      Date: 9/8/2020

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PE #58315

#### GENERAL NOTES:

1. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO COMMENCING WORK. THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE ARMY CORPS OF ENGINEERS, & LOCAL REGULATIONS SHALL GOVERN ALL WORK.
2. WORK SHOWN ON DRAWINGS IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (LATEST EDITION). CONTRACTOR SHALL FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION.
3. THE PROPOSED STRUCTURE(S) IS DESIGNED FOR A LIVE LOAD OF 40 PSF. WIND LOADS ARE DESIGNED PER THE 2017 FLORIDA BUILDING CODE.
4. CONTRACTOR SHALL ADHERE TO THE STANDARD MANATEE CONSTRUCTION CONDITIONS (LATEST EDITION). IF NEEDED, THE CONTRACTOR CAN CONTACT THE ARMY CORPS OF ENGINEERS OR THE ENGINEER TO OBTAIN A COPY OF THE STANDARD MANATEE CONSTRUCTION CONDITIONS.
5. BEST MANAGEMENT PRACTICES, INCLUDING THE USE OF TURBIDITY BARRIERS, ARE REQUIRED TO ISOLATE THE CONSTRUCTION AREA FROM THE ADJACENT WATERS. CONTRACTOR SHALL INSTALL TURBIDITY BARRIERS AROUND THE IMMEDIATE PROJECT AREA PRIOR TO CONSTRUCTION. THE TURBIDITY BARRIERS SHALL REMAIN IN PLACE UNTIL WATER QUALITY CONDITIONS RETURN TO PRE-CONSTRUCTION CONDITIONS. WATER QUALITY MONITORING SHALL ADHERE TO STATE REGULATIONS.
6. ELECTRIC & WATER (DESIGN PROVIDED BY OTHERS UNLESS SHOWN) SHALL BE PROVIDED. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL PROPOSED UTILITIES WITH OWNER PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS & WATER DEPTHS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
8. THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS OF INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.
9. EXERCISE EXTREME CARE AND CAUTION WHEN EXCAVATING AND FILLING ADJACENT TO EXISTING STRUCTURES. UNDER NO CIRCUMSTANCES SHALL THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES BE IMPAIRED IN ANY WAY BY CONSTRUCTION OPERATIONS AND PROCEDURES. DO NOT EXCAVATE OR DISTURB SOIL ADJACENT TO OR BENEATH EXISTING FOOTINGS.
10. CONTRACTOR SHALL COORDINATE INSTALLATION OF CLEATS, LADDERS, PILE CAPS, AND OTHER DOCK ACCESSORIES WITH OWNER PRIOR TO CONSTRUCTION. ALL DOCK ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. STAINLESS STEEL HARDWARE SHALL BE USED FOR ALL CONNECTIONS TO DOCK.

#### TIMBER PILES:

1. ROUND TIMBER PILES SHALL BE SOUTHERN PINE AND SHALL CONFORM TO ASTM D 25, BE UNUSED, CLEAN PEELED, UNIFORMLY TAPERED, ONE PIECE FROM BUTT TO TIP, AND HAVE A MIN. TIP DIAMETER OF 10 INCHES.
2. PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH AWPA C3 AND C18, MARINE PILES.
3. MARINE TIMBER PILES SHALL BE TREATED WITH CCA 2.5 (PRESERVATIVE ASSAY RETENTION REQUIREMENTS).
4. TREAT FIELD CUTS, HOLES, AND OTHER PILE PENETRATIONS WITH FIELD-APPLIED WOOD PRESERVATIVE, IN ACCORDANCE WITH AWPA M4.
5. CONTRACTOR SHALL PROVIDE PILES OF THE TYPE INDICATED AND OF THE LENGTH AND CONFIGURATION NECESSARY TO EXTEND INTO CAPROCK TO THE DEPTH AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR IS RESPONSIBLE FOR MEASURING INDIVIDUAL PILES TO DETERMINE APPROPRIATE CAP SIZES.
7. DEVIATION FROM PLUMB AND ANGLE OF BATTER: 1/4 INCH PER FOOT OF PILE LENGTH, BUT NOT MORE THAN 6 INCHES OVERALL. MAX DEVIATION FROM LOCATION OF PILE TOP IS 6 INCHES.
8. WHEN TIMBER PILES ARE CUT OFF, TREAT CUT SURFACES IN ACCORDANCE WITH AWPA M4. REMOVE CUTOFF SECTIONS OF PILES FROM THE SITE AND LEGALLY DISPOSE.

#### LUMBER, DECKING, & FASTENERS:

STRINGERS: 2 x 10

BENTS: 2 x 10

DECKING (WALKWAY): FIBERGRATE OR 2 x 6 (1/2 INCH SPACING)

1. ALL BENTS AND STRINGERS SHALL BE SOUTHERN PINE NO. 2 OR DOUGLAS FIR NO. 2. LUMBER SHALL BE PRESSURE TREATED PER AWPA UC4B SPECIFICATIONS. MINIMUM RETENTION OF CCA SHALL BE 0.60 POUNDS / CUBIC FOOT.
2. ALL DECKING SHALL BE SOUTHERN PINE NO. 1 OR DOUGLAS FIR NO. 1 WITH ROUNDED EDGES. LUMBER SHALL BE PRESSURE TREATED. MINIMUM RETENTION OF ACQ SHALL BE 0.40 POUNDS / CUBIC FOOT.
3. ATTACH DECKING TO EACH STRINGER WITH TWO #10 3" STAINLESS STEEL DECK SCREWS OR TWO 16d RING SHANK STAINLESS STEEL NAILS AT EACH CONNECTION POINT.
4. ATTACH BENTS TO PILING WITH TWO 5/8" STAINLESS STEEL 316 BOLTS, WASHERS, AND NUTS AT EACH CONNECTION POINT. BORE HOLES SHALL BE 1/16" GREATER IN DIAMETER THAN THE BOLT. UPON COMPLETION OF THE INSTALLATION, CHECK ALL NUTS FOR TIGHTNESS.
5. ATTACH STRINGER TO BENT WITH STAINLESS STEEL SIMPSON STRONG-TIE HURRICANE STRAP OR APPROVED EQUAL. ALL CONNECTIONS SHALL BE HEAVY DUTY TYPE FOR MARINE ENVIRONMENT APPLICATIONS.
6. LAY THE PLANKS WITH THE BEST SIDE UP AND WITH ADJACENT EDGES IN CONTACT UNLESS OTHER SPACING IS SPECIFIED.
7. PERFORM COUNTERSINKING WHEREVER THE HEADS OF SCREWS OR BOLTS WOULD OTHERWISE INTERFERE WITH THE ASSEMBLY OF THE WORK.

## **BITTNER PROPERTY NEW RESIDENCE**

VACANT LAND SUGARLOAF TRACT F  
SUGARLOAF KEY, FLORIDA 33042

Revisions:

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## **CONSTRUCTION NOTES**

**C-6.0**

Project No:

Scale:

N.T.S.

CAD File:

Tract F DEP Army Corps  
9-8-20

Date:

9/8/2020

**Meridian Engineering LLC**

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NOT VALID FOR CONSTRUCTION UNLESS  
SIGNED AND SEALED IN THIS BLOCK

**RICHARD J. MILELLI**  
PE #58315

GENERAL NOTES:

1. FILTER FABRIC SILT FENCE SHALL BE IN CONFORMANCE WITH SECTION 985, FDOT SPECIFICATION AND INDEX NO. 199.
2. CONTRACTOR SHALL INSTALL EROSION CONTROLS NOTED ON DRAWINGS AND APPLICABLE PERMITS, EROSION CONTROLS SHALL BE MAINTAINED UNTIL A PERMANENT STAND OF GRASS IS PLANTED ONSITE.
3. SILT FENCE LOCATIONS SHOWN HEREON ARE FOR CLARITY ONLY AND SHOULD BE CONSTRUCTED WITHIN PROPERTY LINES.
4. PROVIDE EROSION CONTROL MEASURES CONSISTING OF STAKED SILT FENCES ALONG THE PROPOSED LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WETLANDS OR WATER BODIES) AND OFF-SITE LANDS AND WATERBODIES. MAINTAIN THESE MEASURES DAILY UNTIL CONSTRUCTION ACCEPTANCE BY THE OWNER AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.
5. EROSION CONTROL SHALL BE MAINTAINED WITHIN CONSTRUCTION AREA BY QUICKLY STABILIZING DISTURBED AREA TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING GRASS COVER AND OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER, AND REGULATORY AGENCIES.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL, AT THE REQUEST OF THE OWNER OR AS NECESSARY, MODIFY OR RELOCATE THE ENVIRO-FENCE AND/OR SILT FENCE TO ALLOW FOR ACCESS AND TO COMPLETE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE EROSION CONTROL AT ALL TIMES.
7. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING AND MULCHING FOR AREAS THAT HAVE BEEN CLEARED AND NOT REWORKED WITHIN 7 CALENDAR DAYS DURING THE WET SEASON (APRIL THROUGH SEPTEMBER) AND 14 CALENDAR DAYS DURING THE DRY SEASON (OCTOBER THROUGH MARCH). ALSO, ALL SIDE SLOPES SHALL BE SODDED OR SEEDED AND MULCHED WITHIN 7 DAYS DURING WET SEASON AND 14 DAYS DURING THE DRY SEASON.
8. ALL SURFACE WATER DISCHARGE FROM SITE, INCLUDING DEWATERING DISCHARGE, SHALL MEET STATE WATER QUALITY STANDARDS PRIOR TO REACHING ANY WATERS OF THE STATE, INCLUDING WETLANDS.
9. IN THE EVENT THAT THE EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THESE PLANS PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ANY ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE APPROVED BY THE VILLAGE OF ISLAMORADA AND THE ENGINEER PRIOR TO PLACEMENT.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING EROSION CONTROL MEASURES FOR THE DURATION OF THE INFRASTRUCTURE INSTALLATION.

GRADING NOTES:

1. BACKFILL BEHIND THE NEW RIPRAP REVETMENT SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES AND COMPACTED TO 96% MOD PROCTOR AND SHALL BE COMPACTED BY HAND OR WALK BEHIND EQUIPMENT ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING, OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.

RIPRAP NOTES:

1. RIPRAP RUBBLE SHALL MEET FDOT SPECIFICATIONS (SECTION 530-2.1). CONTRACTOR SHALL PROVIDE A SUBMITTAL FOR THE MATERIAL FROM THE RIPRAP SOURCE.
2. RIPRAP RUBBLE SHALL BE SOUND, HARD, AND DURABLE AND SHALL HAVE A ROUGH, ANGULAR SURFACE. THERE SHALL BE NO OPEN OR INCIPIENT CRACKS, SOFT SEAMS, OR OTHER STRUCTURAL DEFECTS.
3. RIPRAP RUBBLE SHALL CONSIST OF BROKEN STONE WITH A BULK SPECIFIC GRAVITY OF AT LEAST 2.30.
4. BEDDING STONE SHALL COMPLY WITH FDOT SPECIFICATION (SECTION 530-2.1.4).
5. INSTALL GEOTEXTILE FABRIC PER FDOT SPECIFICATIONS (SECTION 514).
6. GEOTEXTILE FABRIC SHALL BE A WOVEN MATERIAL MEETING 2018-2019 FDOT STANDARD PLANS INDEX 524 TYPE D-2 (STANDARD) SUCH AS MIRAFI RSI OR HP SERIES.
7. FDOT SPECIFICATIONS SHALL BE TAKEN FROM THE LATEST VERSION (2019), UNLESS NOTED OTHERWISE.

RIPRAP GRADATION AND THICKNESS REQUIREMENTS

	<u>MAX WEIGHT</u>	<u>50% WEIGHT</u>	<u>MIN WEIGHT</u>	<u>MIN BLANKET THICKNESS</u>
700 LBS	300 LBS	60 LBS	2.5 FT	

- ENSURE THAT AT LEAST 97% OF THE MATERIAL BY WEIGHT IS SMALLER THAN MAX WEIGHT.
- ENSURE THAT AT LEAST 50% OF THE MATERIAL BY WEIGHT IS GREATER THAN 50% WEIGHT.
- ENSURE THAT AT LEAST 85% OF THE MATERIAL BY WEIGHT IS GREATER THAN MIN WEIGHT.
- ENSURE THAT ALL ARMOR STONES USED HAVE A MINIMUM DRY UNIT WEIGHT OF 135 LBS/CF.

**BITTNER PROPERTY**  
**NEW RESIDENCE**

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SUGARLOAF KEY, FLORIDA 33042

Revisions:

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**CONSTRUCTION NOTES**

C-6.1

Project No:

Scale:

1"=20'-0"

CAD File:

Tract F DEP Army Corps  
9-8-20

Date:

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