



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
MIAMI REGULATORY OFFICE
9900 SOUTHWEST 107th Ave, SUITE 203
MIAMI, FLORIDA 33176

March 6, 2019

Regulatory Division
South Permits Branch
Miami Permits Section

PUBLIC NOTICE

Permit Application Number SAJ-2016-01935 (SP-AMK)

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 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: John McLaren
NHC-FL 132 LLC
27777 Franklin Road, Suite 200
Southfield, MI 48034

WATERWAY AND LOCATION: The project would affect navigable waters of the United States in the lower Florida Keys tributary to Cow Key Channel. The project site is located at 5001 5th Avenue, legally described as STOCK ISLAND MALONEY SUB PB1-55 PT UNNUMBERED BK 52 LT AND PT ADJ BAY BTM SQR 52 in Section 34, Township 67 South, Range 25 East, Key West, Florida (00126550-000100).

Directions to the site are as follows: Take U.S. 1 South to MM4.5± Oceanside; turn left onto Cross Street and turn right onto 5th Avenue; project site is located at the parking lot at the end of 5th Avenue at 5001 5th Avenue, Stock Island.

APPROXIMATE CENTRAL COORDINATES:

Latitude: 24.568917

Longitude: -81.748489

PROJECT PURPOSE:

Basic: The basic purpose is to update an existing marina by installing, relocating, and retaining already deployed floating docks.

Overall: The overall purpose is to update an existing marina by installing, relocating, and retaining already deployed floating docks on Stock Island, Monroe County, Florida.

EXISTING CONDITIONS: The property is comprised of approximately 0.24 acres of upland area, and 0.10+ acres of submerged land. The marina upland has a small

fishing and boating-oriented convenience store in the northeast corner of the main building on the parcel and has associated parking for the store and marina in a gravel parking lot to the east.

The southern shoreline of the marina borders a canal approximately 50-60 feet in width. Depths in this canal range from 2.96-feet near the seawall to 8 feet closer to the center. Seawall in the canal hosts a 13-foot wide by 75-foot long floating dock that facilitates personal watercraft mooring. There are no submerged aquatic resources in the canal, though the opposing shoreline is fringed with red mangroves. Water depths in the dock's current footprint do not achieve 4-foot water depths.

The northern shoreline of the marina borders a canal approximately 50-60 feet in width which leads into the Sunset Harbor Park to the east. A boat ramp is also located on the northern marina shoreline. Depths in this canal range from approximately 4 feet adjacent to the seawall to 8 feet closer to the center. In a benthic assessment report dated August 8, 2018, one seagrass bed measuring approximately 65 by 30 feet was found within the assessment area in the north canal. The patch is comprised of turtlegrass (*Thalassia testudinum*), Shoal grass (*Halodule wrightii*) and various macroalgae. It is not located near the proposed north canal floating dock.

There are four pontoons moored at the site and used for boat docking. Each pontoon is a registered vessel through the state of Florida. Water depths range from 3.23 feet MLW at the base of the seawall and progress to 12 feet continuing to the west. There are sporadic Starlet coral colonies present ranging from 1.5 cm to 30 cm in diameter. Many of the coral colonies have grown on the concrete deadman anchors that hold the pontoon-docks in place.

There are no corals or seagrasses in the proposed project footprint.

PROPOSED WORK: The applicant seeks authorization to update an existing marina by the following:

1. Relocating an existing 13-foot wide by 75-foot long marginal floating dock in the south canal by segmenting it and placing the new pieces in areas of adequate water depth (~4 feet MLW). Specifically, a 60 foot long segment will be placed adjacent/abutting a pontoon on the west side of the property, and the remaining 15 feet will be shifted to the mouth of the canal where adequate water depths exist. The proposed 60-foot floating dock portion will be affixed to a pontoon, and the pontoon will be stabilized via two 12-inch diameter timber support piles.
2. Installing a new personal watercraft docking location consisting of eight (8) floating docks measuring 85 square feet each and secured with PVC and timber piles. The PWC dock location is proposed in the north canal.

Additionally, the applicant seeks to legitimize the existing four western docks that consist of state-registered vessels (pontoons). These docks are secured to the seafloor with concrete deadmen measuring five feet by two feet. For items one and two, above, turbidity barriers will be used during construction and removed only when turbidity

subsidies to pre-construction conditions. Work is proposed within U.S. Navigable Waters.

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:

“Avoidance and minimization of impacts have been considered to the maximum extent practicable. The proposed floating dock footprints were chosen due to absence of special aquatic sites, and because they achieved -4 feet MLW depths required by the State. The submerged areas under the north and south canal proposed dock footprints do not support submerged aquatic resources.

During installation of the south and north canal dock pilings, turbidity barriers will be used during construction and removed only when turbidity subsides to pre-construction conditions. Piles will be installed via auger as opposed to drop hammer in order to circumvent noise impacts to wildlife rendered via drop hammer.”

COMPENSATORY MITIGATION: The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment: “No compensatory mitigation is proposed due to absence of resources in the project footprint.”

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 Corps has determined the project *may affect, but is not likely to adversely affect* (“MANLAA”) the West Indian manatee (*Trichechus manatus*). The project site is not within the species’ designated critical habitat. Potential and indirect 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 > J > L > N > O > P1, “*may affect, not likely to adversely affect (NLAA)*” for the West Indian manatee, where no further consultation with the Service is necessary. This determination is partially based on the implementation of the *Standard Manatee Conditions for In-Water Work, 2011*.

The project is not located within an American crocodile (*Crocodylus acutus*) critical habitat. By letter dated 28 October 2014, the FWS issued programmatic concurrence

for projects in the Keys south of the intersection of U.S. Highway 1 and State Road 905 in Key Largo. The letter states that projects located in this range are unlikely to adversely affect the American crocodile if it meets one or more of the listed criteria. By using the programmatic letter by paragraph 2, considering that the proposed project is adjacent or contiguous to waters accessible to the crocodile but does not contain suitable habitat for nesting accessible to the crocodile, the Corps' initial determination is the project *may affect but is not likely to adversely affect* the American crocodile and its critical habitat. Pursuant to Section 7 of the Endangered Species Act, no further consultation with the Service is required.

The Google Earth Resource at Risk (RAR) report for the subject parcel includes the Schaus swallowtail butterfly (*Heraclides aristodemus ponceanus*) consultation area. Potential impacts to the aforementioned species and its critical habitat were evaluated using the respective FWS Species Assessment Guides (SAGs), dated 29 July 2013. Use of the SAGs resulted in the following sequential determination: A > B (1), "*may affect, not likely to adversely affect (NLAA)*" the butterfly. This determination is partially based on the applicant proposing no removal or modification of the species' native habitat. The Corps received programmatic concurrence from the FWS for projects that have a "NLAA" determination; therefore, no incidental take will occur and no further consultation with the FWS is required.

The Google Earth Resource at Risk (RAR) report for the subject parcel includes the piping plover (*Charadrius melodus*) consultation area. Potential impacts to the piping plover were evaluated using the Programmatic Piping Plover Biological Opinion (BO), dated May 22, 2013. Using the BO resulted in the Corps making a "no effect" determination for the piping plover. This determination is based on there being no sandy beaches within the project area, as well as the project not being located within a designated piping plover Critical Habitat Unit or areas that are considered optimal piping plover habitat; therefore, no further consultation with the FWS is required.

The Google Earth Resource at Risk (RAR) report for the subject parcel includes the roseate tern (*Sterna dougallii*) consultation area. The Corps has determined the proposed project will have "no effect" on the roseate tern. This determination is partially based on roseates being highly sensitive to disturbances, such as human activity, making developed areas undesirable for nesting, and protected areas, such as the Key West National Wildlife Refuge, the more desirable location for nesting and foraging near the project area.

The Corps has determined the proposed project *may affect, but is not likely to adversely affect* the swimming green sea turtles (*Chelonia mydas*), loggerhead sea turtles (*Caretta caretta*) and its designated critical habitat, hawksbill sea turtles (*Eretmochelys imbricata*), Kemp's ridley sea turtles (*Lepidochelys kempii*), leatherback sea turtles (*Dermochelys coriacea*), and the smalltooth sawfish (*Pristis pectinata*) species. A *no effect* determination was reached on smalltooth sawfish designated critical habitat, Acropora spp. (*Acropora cervicornis* and *Acropora palmata*) and its designated critical habitat, and listed coral species: pillar coral (*Dendrogyra cylindrus*),

lobed star coral (*Orbicella annularis*), mountainous star coral (*Orbicella faveolata*), boulder star coral (*Orbicella franksi*), and rough cactus coral (*Mycetophyllia ferox*). The Corps will request National Marine Fisheries Service concurrence with this determination pursuant to Section 7 of the Endangered Species Act via separate consultation.

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 1,226± square feet of submerged bottom utilized by various life stages of marine life. 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 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 SW 107th Avenue, Suite 203, Miami, Florida, 33176 within 21 days from the date of this notice.

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, Allyse Keel, in writing at the Miami Permits Section, 9900 SW 107th Avenue, Suite 203, Miami, Florida 33176; by electronic mail at allyse.m.keel@usace.army.mil; by facsimile transmission at (305) 526-7184; or, by telephone at (305) 526-7183.

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 decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

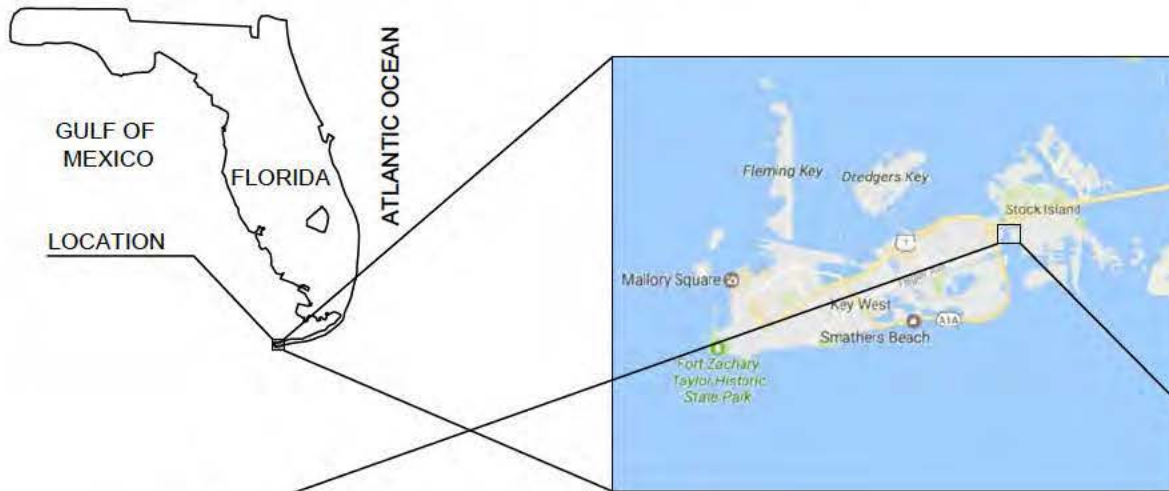
COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board, in the Virgin Islands, the Department of Planning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

COW KEY MARINA

ATTACHMENT 2

5031 5TH AVENUE
KEY WEST, FLORIDA 33040



CUMMINS | CEDERBERG
Coastal & Marine Engineering

7550 RED ROAD, SUITE 217
SOUTH MIAMI, FLORIDA 33143
T: 305-741-6155 F: 305-974-1969
WWW.CUMMINSCEDERBERG.COM

CLIENT:

COW KEY MARINA
5031 5TH AVENUE
KEY WEST, FLORIDA. 33040

SEAL

JASON S. TAYLOR, P.E. #60277

**COVER PAGE/
LOCATION MAP**

PERMIT SKETCHES

JOB NO:

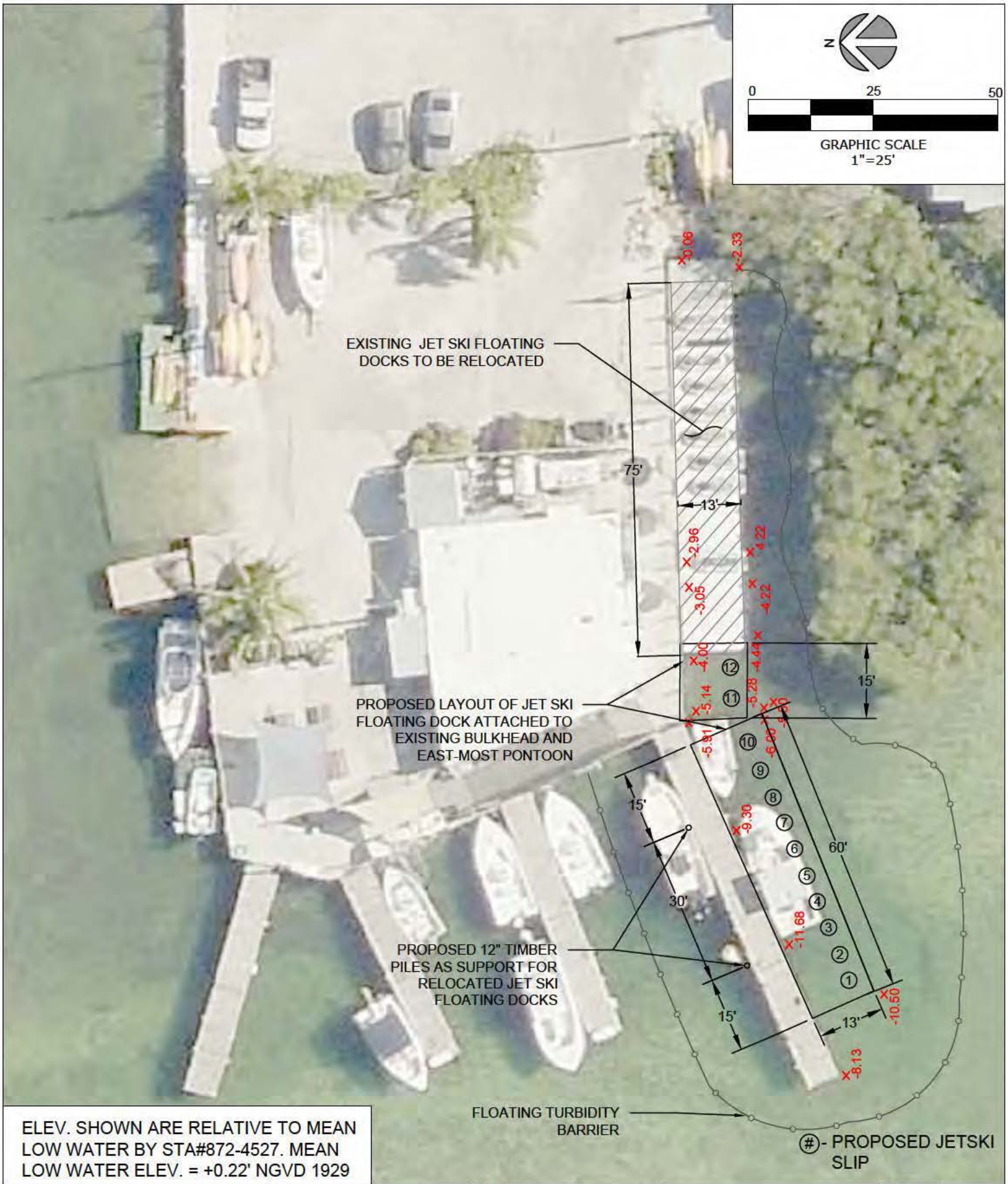
DATE:

08/24/18

DRN BY:

CHK BY:

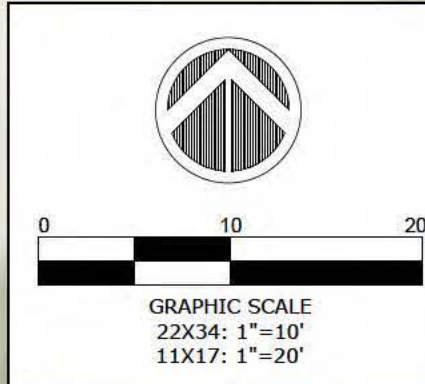
Page 1/9



ELEV. SHOWN ARE RELATIVE TO MEAN LOW WATER BY STA#872-4527. MEAN LOW WATER ELEV. = +0.22' NGVD 1929

<div>CUMMINS CEDERBERG</div> <div>Coastal & Marine Engineering</div> <div>7550 RED ROAD, SUITE 217 SOUTH MIAMI, FLORIDA 33143 T: 305-741-6155 F: 305-974-1969 WWW.CUMMINSCEDERBERG.COM</div>	CLIENT:	SEAL	PROPOSED FLOATING DOCK LAYOUT	JOB NO:	DATE:
	COW KEY MARINA 5031 5TH AVENUE KEY WEST, FLORIDA. 33040	JASON S. TAYLOR, P.E. #60277		45100	
				DRN BY:	CHK BY:
			PERMIT SKETCHES	Page 3/9	

N:\Work Files\Cow Key Marina\Working\2019-01-08_45100_Cow Key Marina.dwg



PROJECT
**COW KEY MARINA
HURRICANE IRMA
SHORELINE REPAIR**

5031 5th AVENUE
KEY WEST, FLORIDA 33040

CLIENT
SUN COMMUNITIES

27777 FRANKLIN RD., SUITE 200
SOUTHFIELD, MI 48034

ENGINEER
CUMMINS CEDERBERG
COASTAL & MARINE ENGINEERING

7550 RED ROAD, SUITE 217
SOUTH MIAMI, FLORIDA 33143
TEL: +1 305 741-6155 FAX: +1 305-974-1969
WWW.CUMMINSCEDERBERG.COM
COA # 29062

FLOATING TURBIDITY BARRIERS WITH WEIGHTED SKIRTS THAT EXTEND TO WITHIN 1 FT. OF THE SEA BOTTOM WILL BE DEPLOYED AROUND ALL IN-WATER WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. BARRIERS WILL BE REMOVED WHEN TURBIDITY SUBSIDES AND WATER CLARITY RETURNS TO AMBIENT CONDITIONS. TURBIDITY CURTAINS AND IN-WATER EQUIPMENT WILL BE SECURED WITH TAUGHT AND NON-LOOPING LINES TO PREVENT WILDLIFE ENTANGLEMENT.

PROPOSED 85 SF MAX.
FLOATING VESSEL
PLATFORM, TYP.

NO RIPARIAN LINE SHOWN AS THIS PARCEL IS
CONTINUOUS TO COW KEY CHANNEL WATERS AND IS
THE ONLY PARCEL ADJACENT TO THE CANAL

MEAN HIGH WATER ELEVATION
(-0.30'), NAVD 1988
1.04', NGVD1929

MEAN HIGH WATER ELEVATION
(-0.30'), NAVD 1988
1.04', NGVD1929

CANAL

CANAL

BEGIN MWWL

SEAWALL/CONC DOCK

SEAWALL/CONC DOCK

SEAWALL/CONC DOCK

CONC
SEAWALL

(7) 12"Ø TIMBER
PILES, TYP.

PROTECTED
SPECIES SIGN
64'-1"

(8) PVC GLIDE
PILES, TYP.

SET NAIL &
DISK, LB7846
0.4' TO WATER

SET NAIL &
DISK, LB7846
0.8' TO WATER

COVERED
PORCH

"SUNSET
RE 001265"

FLOATING DOCK, TYP.

CLIENT OWNED
SUBMERGED LAND
LIMITS

FLOATING DOCK, TYP.

MONOFILAMENT RECYCLING BIN
ATTACHED TO SIGN
(SHOWN SEPARATE FOR CLARITY)

ICE MACHINE

FFE = 4.01
NGVD1929'

"COW KEY MARINA"
RE 0126550-000100

GRAVEL PARKING AREA

UNIMPROVED

UNIT 19

BENCHMARK:
FND NAIL & DISK, LB7846
AT 98.00', 1.4' TO WATER
EL. 3.30' NGVD1929
(EL. 1.96' NAVD1988)

MEAN HIGH WATER ELEVATION
(-0.30'), NAVD 1988
1.04', NGVD1929
AS LOCATED ON 3/8/16 FALLS
ON FACE OF STACKED CONC BAGS
UNDER CANTILEVERED CONCRETE DOCK

SCO

EXISTING FLOATING DOCK, TYP.

PROPOSED FLOATING
DOCK RELOCATION
AUTHORIZED UNDER
0351554-001-EL

CANTILEVERED CONC DOCK

EXISTING FLOATING DOCK

PAVEMENT

BENCHMARK:
FND NAIL & DISK
LB #7846
EL. = 2.85' NGVD1929
(EL. = 1.51' NAVD1988)

SUMMARY TABLE

FLOATING VESSEL PLATFORM	666 SF
TIMBER FENDER PILES	7
PVC ANCHOR PILES	8
VESSEL SLIP TOTAL	8

JASON S. TAYLOR, P.E. #60277

ENVIRONMENTAL COMMENTS	ENVIRONMENTAL PERMIT	SUBMISSION / REVISION
1	01/04/2018	08/17/2018
2	01/04/2018	08/17/2018

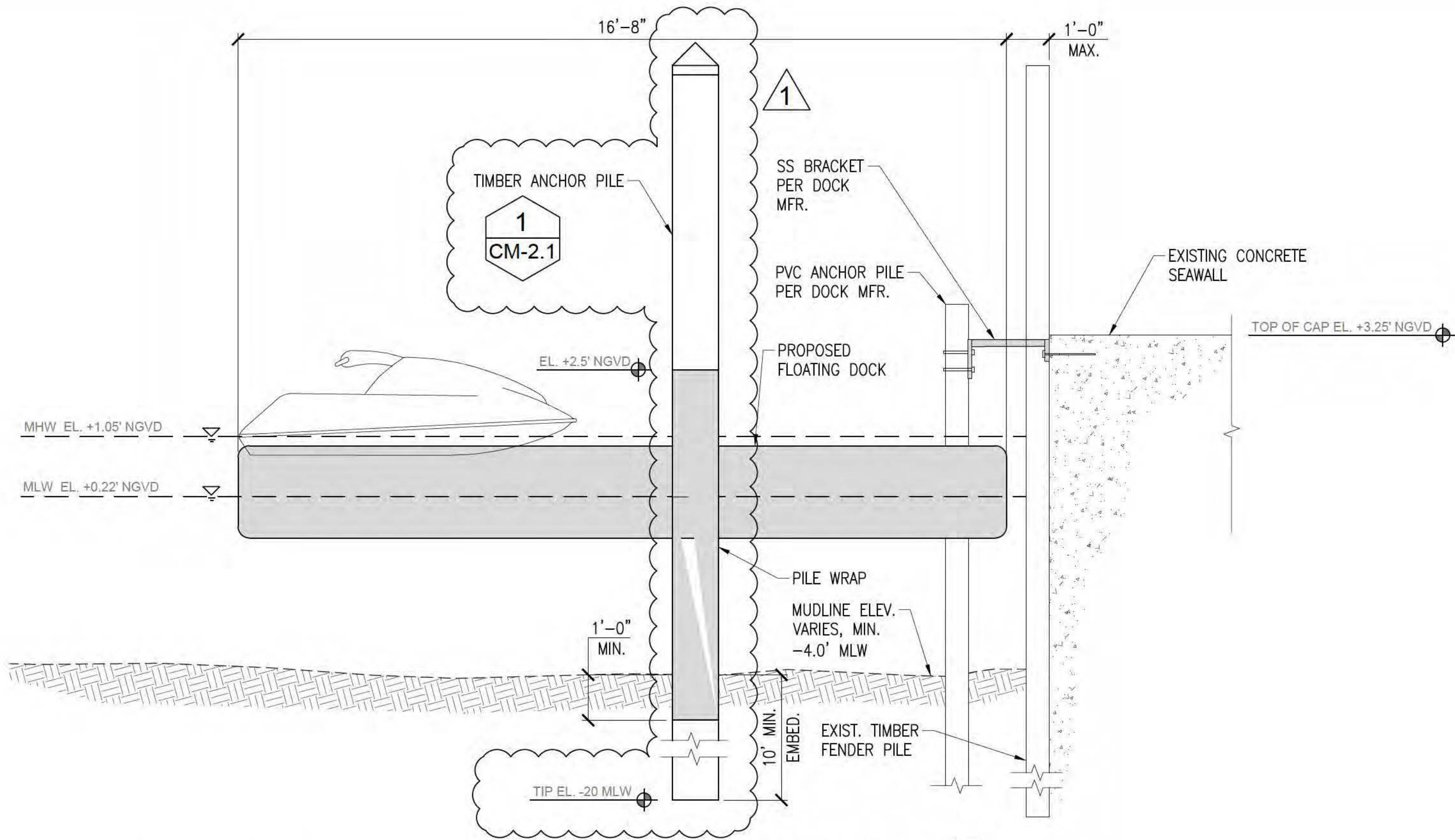
CC PROJECT NO.	45100
DRAWN	VC
CHECKED	JSC
SCALE	AS SHOWN

SHEET TITLE

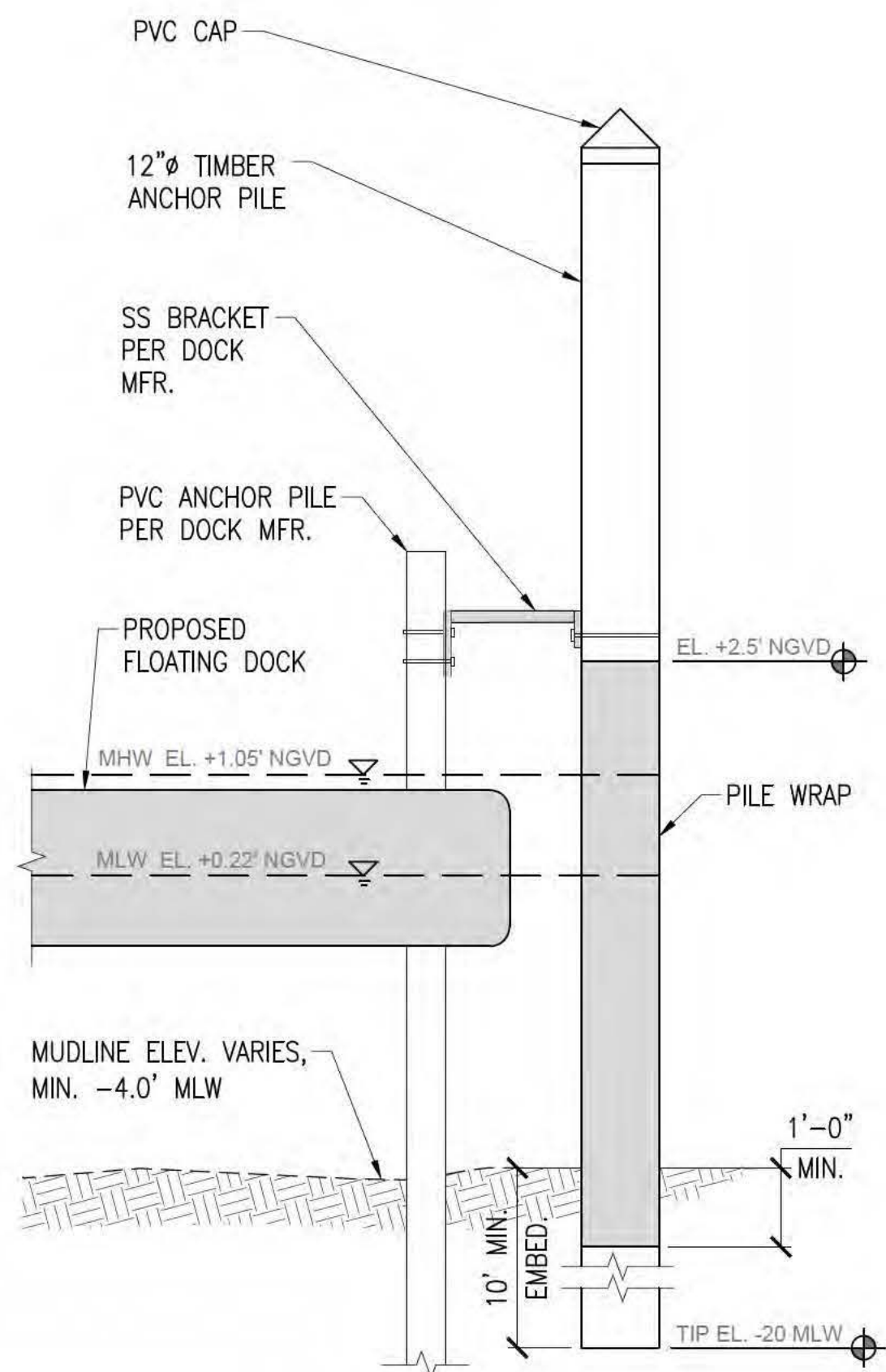
PROPOSED PLAN

SHEET 4 OF 5

CM-2.0



DOCK CROSS SECTION A
SCALE: 22x34: 1" = 2'
11x17: 1" = 4'



TIMBER PILE DETAIL
SCALE: 22x34: 1" = 2'
11x17: 1" = 4'



MONOFILAMENT RECYCLING BIN DETAIL
NTS

Save Sea Turtles, Sawfish, and Dolphins

While Fishing, Following These Tips:

- Report injured, entangled, hooked, or stranded dolphins and sea turtles to the 24-hour hotline: **1-877-942-5343**
- Never cast towards dolphins, sea turtles, or sawfish.
- Change location or reel in your line if a dolphin, sea turtle, or sawfish shows interest in your bait or catch.
- Release catch away from dolphins when and where possible without violating any state or federal fishing regulations.
- Do not feed or attempt to feed wild dolphins or sea turtles - it's harmful and illegal.
- Do not dispose of leftover bait or cleaned fish remains in water.
- Use circle or corrodible (non-stainless steel) hooks to reduce injury.
- Use recycling bins for fishing line and do not throw trash or unwanted line in the water.
- If you hook a **SEA TURTLE**, immediately call the 24-hour hotline at **1-877-942-5343** and follow response team instructions.
 - If you cannot reach a response team, follow these guidelines to reduce injuries:
 - If possible, use a net or lift by the shell to bring the turtle on pier or land. Do NOT lift by hook or line.
 - Cut the line close to the hook, removing as much line as possible.
 - Release turtle.
- If you hook a **SAWFISH**:
 - Do not remove the fish from the water.
 - Cut the line close to the hook.
 - Release it as quickly as possible.
 - Report it immediately to **1-941-255-7403**.

PROJECT
COW KEY MARINA
HURRICANE IRMA
SHORELINE REPAIR

5031 5th AVENUE
KEY WEST, FLORIDA 33040

CLIENT
SUN COMMUNITIES

27777 FRANKLIN RD., SUITE 200
SOUTHFIELD, MI 48034

ENGINEER
CUMMINS CEDERBERG
COASTAL & MARINE ENGINEERING
7550 RED ROAD, SUITE 217
SOUTH MIAMI, FLORIDA 33143
TEL: +1 305 741-6155 FAX: +1 305-974-1969
WWW.CUMMINSCEDERBERG.COM
COA # 29062

SEAL

JASON S. TAYLOR, P.E. #60277

ENVIRONMENTAL COMMENTS	ENVIRONMENTAL PERMIT	SUBMISSION / REVISION
1	08/17/2018	DATE
2	01/04/2018	ISSUE

CC PROJECT NO. 45100

DRAWN VC

CHECKED JSC

SCALE AS SHOWN

SHEET TITLE

SECTION &
SIGNAGE DETAILS

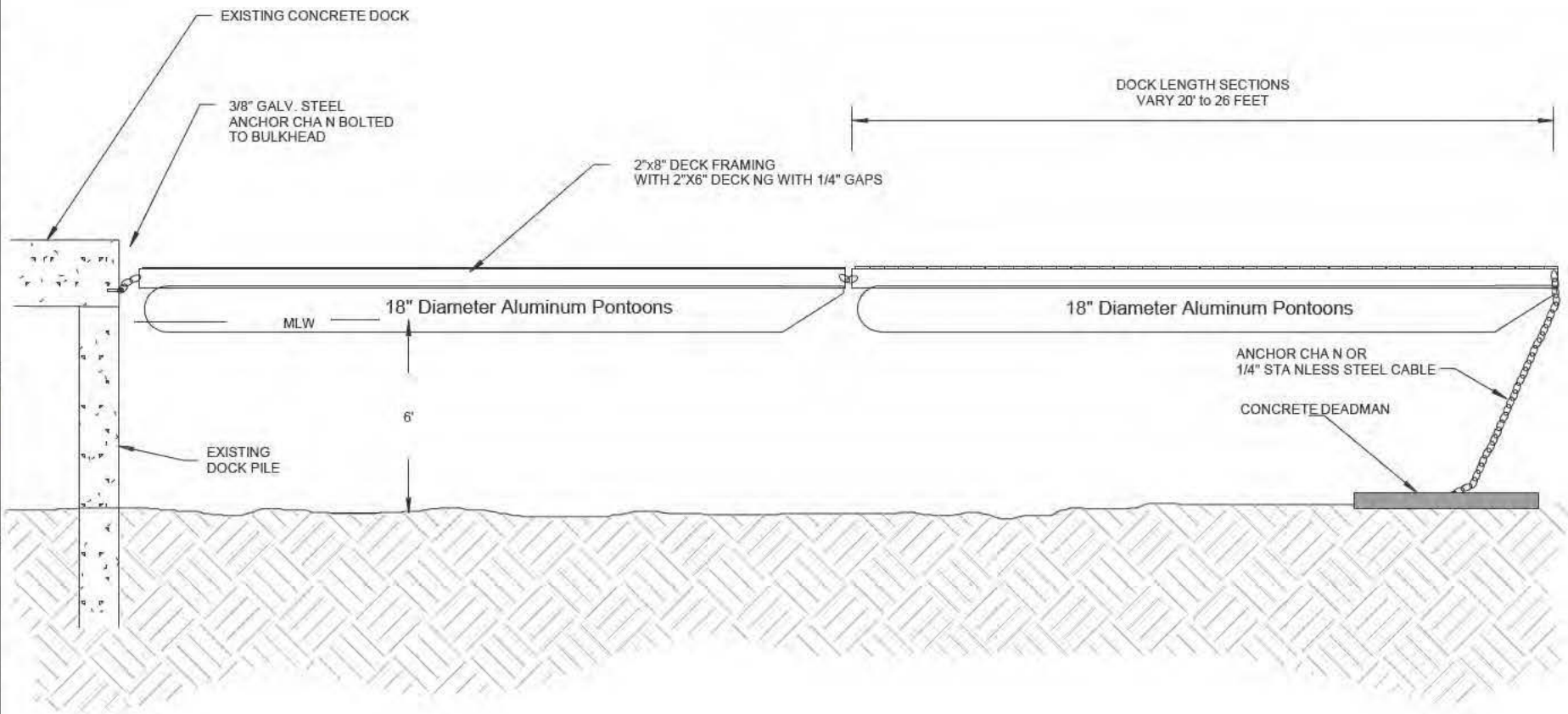
SHEET 6 OF 5

CM-2.1

Title
WESTERN FLOATING DOCKS
for
Cow Key Marina
5031 5th Avenue, Stock Island, FL 33040

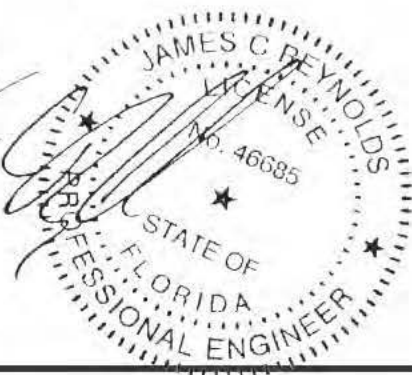


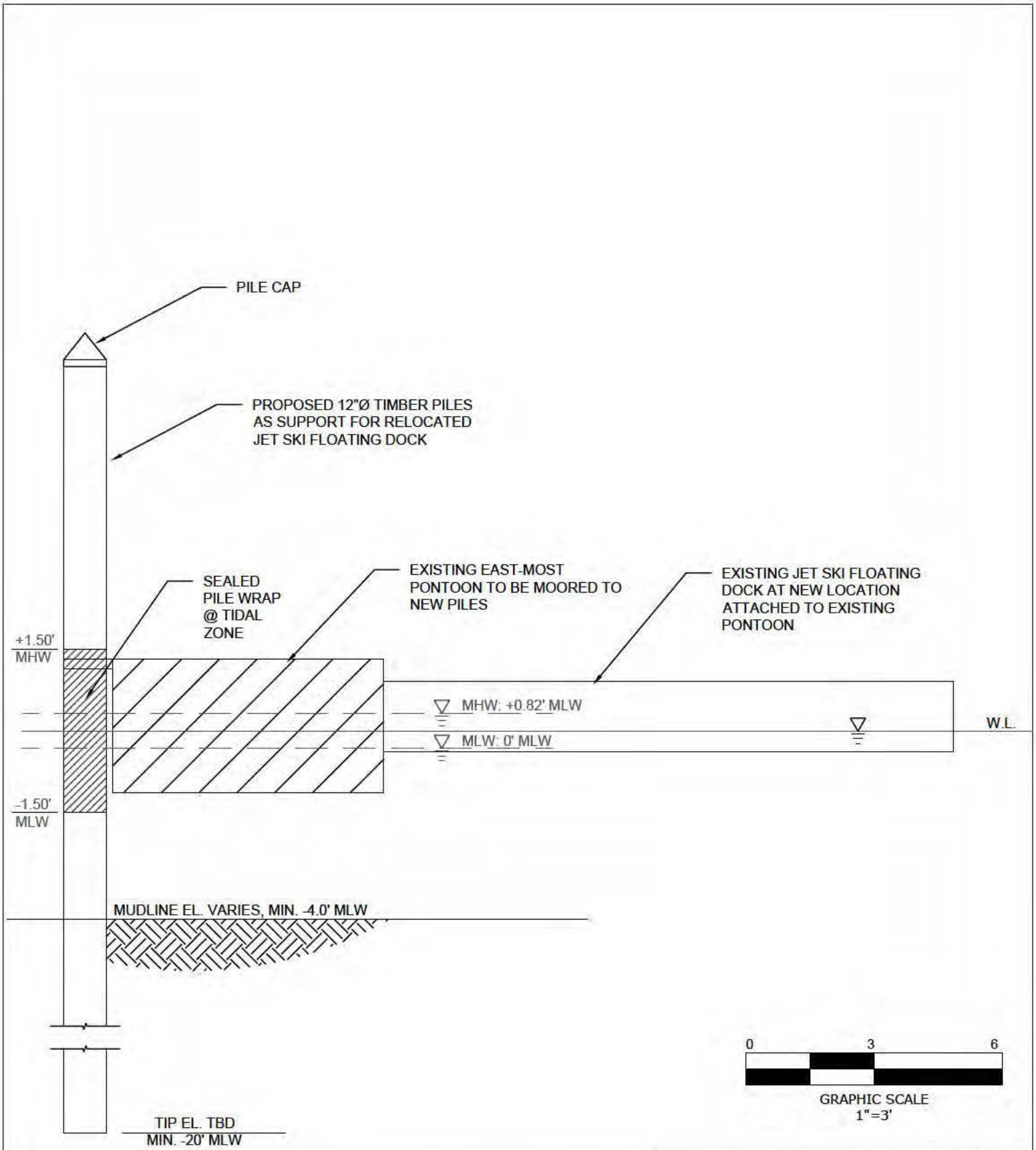
James C. Reynolds, PE
Fla. Lic. No. 46685
22972 Overseas Hwy
Cudjoe Key, FL 33042
jim@reynoldsengeering.com
305-394-5987



TYPICAL DOCK SECTION

Scale: 3/16" = 1'





NOTE: REFER TO SURVEY BY REECE & ASSOCIATES FOR TIDES REFERENCE

CUMMINS | CEDERBERG
Coastal & Marine Engineering

7550 RED ROAD, SUITE 217
SOUTH MIAMI, FLORIDA 33143
T: 305-741-6155 F: 305-974-1969
WWW.CUMMINSCEDERBERG.COM

CLIENT:

COW KEY MARINA
5031 5TH AVENUE
KEY WEST, FLORIDA. 33040

SEAL

JASON S. TAYLOR, P.E. #60277

**PROPOSED SECTION
DETAIL, South Canal
dDock**

PERMIT SKETCHES

JOB NO:

DATE:

DRN BY:

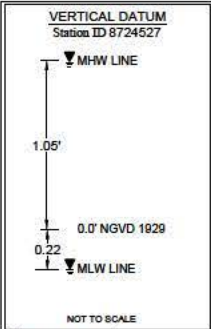
CHK BY:

PAGE 7/9

South Canal Dock Relocation Notes:

- 1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH CONSTRUCTION OF DOCK IMPROVEMENTS AS SHOWN ON THESE DRAWINGS AND SPECIFIED IN THE CONTRACT DOCUMENTS. (AS APPLICABLE)
- 2. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR HAS BEEN ISSUED NOTICE TO PROCEED.
- 3. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE CHANGED IN SIZE BY REPRODUCTION. THIS SHOULD BE CONSIDERED WHEN OBTAINING SCALED DATA. ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.
- 4. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES IN THE PLANS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.
- 5. ENVIRONMENTAL PERMITS. FDEP, USACE, AND MONROE COUNTY PERMITS COVER THE PROJECT. ALL CONDITIONS OF THE PERMITS, AND EXEMPTIONS SHALL BE ADHERED TO.
- 6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER CLEARANCE AND PROTECTION TO ALL OVERHEAD WIRES.
- 7. CONTRACTOR MAY NEED TO ADJUST HIS WORK PLAN TO ACCOUNT FOR ACTUAL WATER LEVELS AND CHANGING WATER LEVELS.
- 8. TURBIDITY CONTROL. CONTRACTOR SHALL MAINTAIN A TURBIDITY CURTAIN AROUND ALL TURBIDITY GENERATING WORK, OR AS REQUIRED IN PERMIT CONDITIONS.
- 9. UTILITIES. CONTRACTOR SHALL CALL SUNSHINE 1-800-432-4770, PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR LOCATING ALL PRESENT UTILITIES PRIOR TO CONSTRUCTION. NO PILE DRIVING SHALL TAKE PLACE WITHIN THE DESIGNATED CONSTRUCTION AREA UNTIL UTILITY LOCATIONS HAVE BEEN FIELD VERIFIED.
- 10. DESIGN LOADS:
 - 10.1. DOCK LIVE LOAD IS 60 PSF
 - 10.2. DESIGN CURRENT: 1 m/s
- 11. SURVEY
 - 11.1. SURVEY DATA PROVIDED BY REECE & ASSOCIATES, UPDATED 12/12/16
- 12. PILES
 - 12.1. TIMBER PIER PILES TO BE SOUTHERN YELLOW PINE (SYP) AND COMPLY WITH ASTM D25-79 AND BE PRESSURE TREATED W/ CCA FEDERAL SPECS TT-W-550D(1) OR TT-W-00550E(1) AND AWFA-P-4.
 - 12.2. PILES SHALL HAVE A MINIMUM DIAMETER OF 12 INCHES, MEASURED 3 FT. FROM BUTT.
 - 12.3. PILES SHALL BE AUGERED A MINIMUM OF 15 FEET INTO LIMESTONE AND PROVIDE A MINIMUM BEARING CAPACITY OF 10 TONS/PILE.
 - 12.4. PILE INSTALLATION LOGS SHALL BE RECORDED.
 - 12.5. PILES SHALL BE CUT OFF 6 FEET ABOVE DECK.
 - 12.6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT SPEC SHEETS FOR APPROVAL BY ENGINEER OF RECORD FOR THE FOLLOWING ITEMS:
 - PILES
 - WRAPS
 - CAPS
 - 12.7. PILE WRAPS SHALL BE DENSO SEA SHIELD SERIES 50 OR EQUIVALENT PVC SYSTEM
- 13. HARDWARE
 - 13.1. ALL HARDWARE, BOLTS, AND OTHER MISC. STEEL COMPONENTS SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE NOTED.

ABBREVIATIONS	
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CONT	CONTINUOUS
CONT'D	CONTINUED
DIAM	DIAMETER
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
GALV	GALVANIZED
KSI	KIPS PER SQUARE INCH
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
PERA	PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS
PSI	POUNDS PER SQUARE INCH
SS	STAINLESS STEEL
TYP	TYPICAL
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
W/C	WATER/CEMENT RATIO



<div>CUMMINS CEDERBERG</div> <div>Coastal & Marine Engineering</div> <div>7550 RED ROAD, SUITE 217 SOUTH MIAMI, FLORIDA 33143 T: 305-741-6155 F: 305-974-1969 WWW.CUMMINSCEDERBERG.COM</div>	CLIENT: COW KEY MARINA 5031 5TH AVENUE KEY WEST, FLORIDA. 33040	SEAL JASON S. TAYLOR, P.E. #60277	GENERAL NOTES South Canal Dock PERMIT SKETCHES	<div>JOB NO: DATE:</div> <div>DRN BY: CHK BY:</div> <div>PAGE 9/9</div>