



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

March 10th, 2020

Regulatory Division
South Permits Branch
Miami Permits Section

PUBLIC NOTICE

Permit Application No. SAJ-2003-01759-(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: James and Eleanor Dan
430 Rainbow Street
Lehigh Acres, Florida 33974

WATERWAY AND LOCATION: The project would affect waters of the United States associated with the Atlantic Ocean. The project site is located at 22914 Buccaneer Lane, immediately adjacent to a 40' wide man-made canal, tributary to the Atlantic Ocean; legally described as Block 22, Lot 23 of Cutthroat Harbor Estates subdivision; PB4-165; in Section 28, Township 66 South, Range 28 East, Cudjoe Key, Monroe County, Florida 33042. (RE# 00181480-000000) (MM± 23-Ocean).

Directions to the site are as follows: From Miami, drive south on U.S. 1 Overseas Highway to approximately mile marker 23; turn left onto Cutthroat Drive, right onto Jolly Rodger Drive and left at Buccaneer Lane. The project site would be an undeveloped parcel on the right hand of the road, adjacent to 22882 Buccaneer Lane.

APPROXIMATE CENTRAL COORDINATES: Latitude 24.659729° North
Longitude 81.476346° West

PROJECT PURPOSE:

Basic: The basic project purpose is to construct a single-family residence with associated infrastructures and boating access.

Overall: The overall project purpose is for the development of a single-family residence with a dock for boating access in Cudjoe Key, Monroe County, Florida.

EXISTING CONDITIONS: The property is located within a partially developed subdivision of Cudjoe Key, Monroe County, Florida. The property is situated between a developed lot on the west and an undeveloped lot with similar conditions to the subject parcel on the east. On the north, the property is bordered by a paved road, Buccaneer Lane, and on the south the parcel is immediately adjacent to a 40' wide man-made canal that flows directly into the Atlantic Ocean. The project site is a jurisdictional wetland lot that supports approximately 100% vegetation coverage. The subject parcel is classified as a saltmarsh buttonwood dominated wetland lot listed on the ADID wetland list with a 3.55 score. Some of the wetland vegetation present on site included red mangrove (*Rhizophora mangle*), black mangrove (*Avicennia germinans*), green buttonwood (*Conocarpus erectus*) and Baycedar (*Suriana maritima*). A band of Brazilian-pepper (*Schinus terebinthifolius*) occurred on the parcel. Herbaceous wetland vegetation included samphire (*Blutaparon vermiculare*) and sea-oxeye-daisy (*Borrchia arborescens*). The shoreline is 100% vegetated with mature and shrub red mangrove (*Rhizophora mangle*), black mangrove (*Avicennia germinans*), and green buttonwood (*Conocarpus erectus*) creating a 20 foot-wide vegetated stand perimeter. Submerged aquatic resources include prop roots; these resources confer approximately 50% coverage on the canal bottom at the project site.

PROPOSED WORK: The applicant seeks authorization to place 105 cubic yards (y³) of clean fill material within in 5,695 square feet (ft²) of jurisdictional wetlands for the construction of a residence and associated appurtenances; to install a 320 ft² (40 foot long by 8 foot wide) marginal concrete dock with ten supporting concrete pilings; to install a set of concrete davit pads; to install approximately 120 linear feet of limerock boulders along the shoreline and on the east end of the property line and to install temporary filter fencing to isolate the construction site from adjacent U.S. waters, including adjacent wetlands; as depicted on the enclosed drawings (6 pages). Temporary turbidity curtains will be deployed for the duration of all construction activities, in/over waters of the United States. Work is in U.S. navigable waters in accordance with the enclosed site plans (6 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 install prior to the discharge of any fill material as to prevent the spillage of fill material into the adjacent wetlands.

Additionally, the applicant proposes to avoid and preserve in perpetuity 175 ft² area of wetland vegetation.

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. 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 00181480-000000 and is on the U.S. Fish and Wildlife Service Suitable Habitat List, dated August 2010, for Monroe County for the following species Focus Area: Eastern Indigo snake (*Drymarchon corais couperi*) the Lower Keys marsh rabbit (*Sylvilagus palustris hefneri*) and Silver rice rat (*Oryzomys palustris natator*).

Potential impacts to the Eastern indigo snake (*Drymarchon corais couperi*) and its habitat were evaluated using the eastern indigo snake key (key) dated 1 August 2017. Use of the key resulted in the following sequential determination: A > B > C > D > E (1), “may affect, not likely to adversely affect (NLAA)” the snake. This determination was based on the permit being conditioned for use of the Service’s most current guidance for Standard Protection Measures for The Eastern Indigo Snake (currently 2013) during site preparation and project construction. Pursuant to Section 7 of the Endangered Species Act, no further consultation with the Service is required.

Potential impacts to the Lower Keys marsh rabbit (*Sylvilagus palustris hefneri*) and its 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 > C > D (2), “may affect, not likely to adversely affect (NLAA)” the marsh rabbit. This determination is based on the applicant mitigating for proposed removal of the species’ native habitat, the property being within a developed canal subdivision and the area within 500 feet of the parcel is greater than 60 percent developed or scarified. Pursuant to Section 7 of the Endangered Species Act, no further consultation with the Service is required.

The subject parcel is listed on the FWS 2011 Suitable Habitat List as being located within the focus area for the silver rice rat (*Oryzomys palustris natator*). 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 > C > E (2), “may affect, not likely to adversely affect (NLAA)” the rice rat. This determination is based on the property being within a developed canal subdivision and the area within 500 feet of the parcel is greater than 60 percent developed or scarified, as well as the proposal being for a new residence with enforceable cat restrictions and the cat brochure being provided. Although the subject parcel is not located within the designated critical habitat, use of the SAGs resulted in the following sequential determination: A > B > C > D (1), “NLAA” the rice rat’s critical habitat. This determination is based on the applicant proposing removal of the species’ native habitat and the property not containing or being adjacent to contiguous tracts of the species’ native habitat greater than one acre in size, the permit being conditioned with habitat compensation, and the cat brochure

being provided. 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 Key deer (*Odocoileus virginianus clavium*). Potential impacts to the aforementioned species and its 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 > C > E > F > G > H > I (1), “*may affect, not likely to adversely affect (NLAA)*” the deer. This determination is based on the proposed action removing native habitat, the property not being greater than one acre in size or being adjacent to contiguous native habitat greater than one acre in size, the applicant proposing either on-site or off-site habitat compensation commensurate with the amount of native habitat lost, and the proposed action not including fencing. 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 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

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 kempi*), 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 6,015 square feet of wetland resources utilized by various life stages of land and 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 107th Avenue, Suite 203, Miami, Florida, 33176, within 21 days from the date of this notice (i.e. on or before March 31, 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.

PROJECT LOCATION

PARCEL ID 00181480-000000

BK22 LT 23 CUTTHROATHARBOR ESTATES PB4-165

SEC/TWP/RNG 28/66/28

CUDJOE KEY

LATITUDE: 24.659576°N LONGITUDE: 81.476418°W

DIRECTIONS:

US HIGHWAY NO 1 SOUTH TO MM 23±. LEFT ONTO

CUTTHROAT DRIVE. LEFT ONTO BUCCANEER LANE.

PROPERTY ADDRESS 22914 BUCCANEER LN

ADJOINING OWNERS

PIERRE BOUMERHI

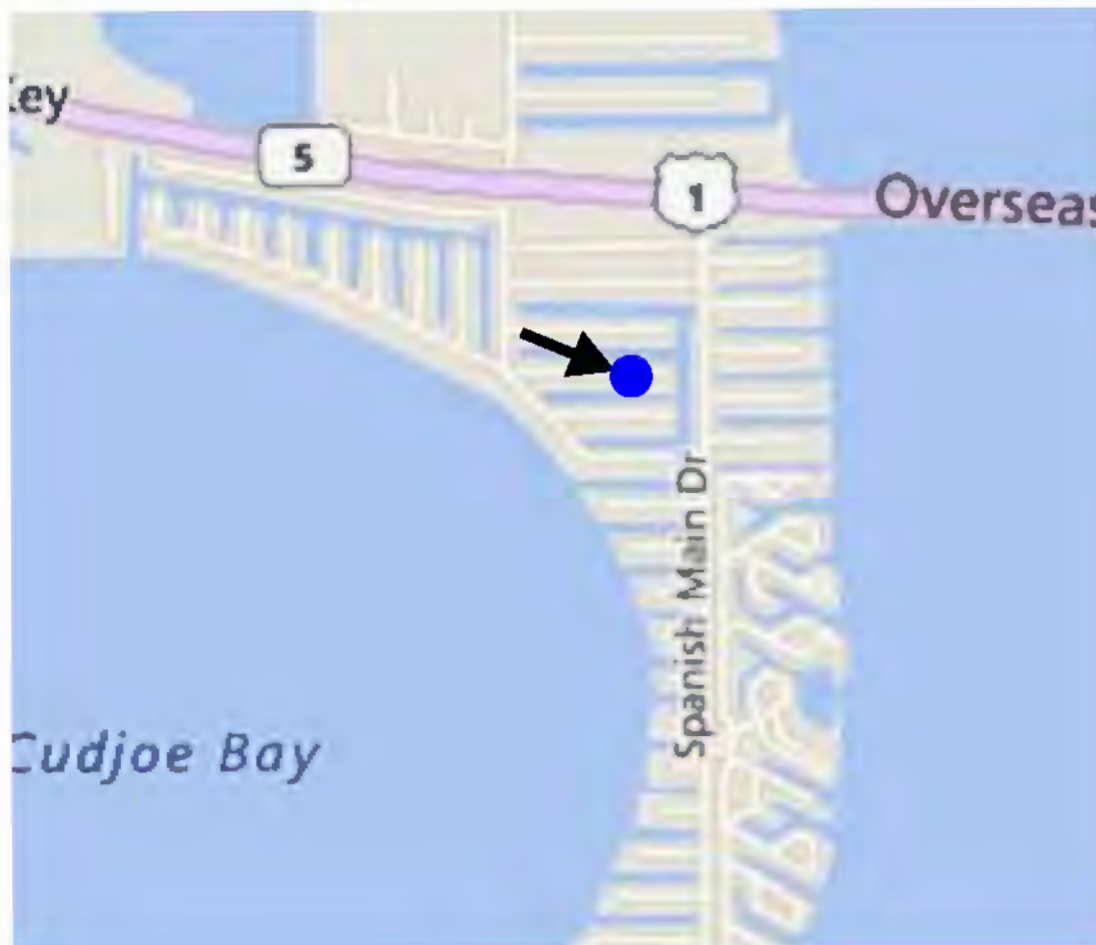
439 SPRING ST

HOUTZDALE PA 16651

JOHN QUINCY ADAMS

22882 BUCCANEER LN

SUMMERLAND KEY FL 33042



REVISIONS:

LOCATION & VICINITY MAP
SCALE: AS SHOWN

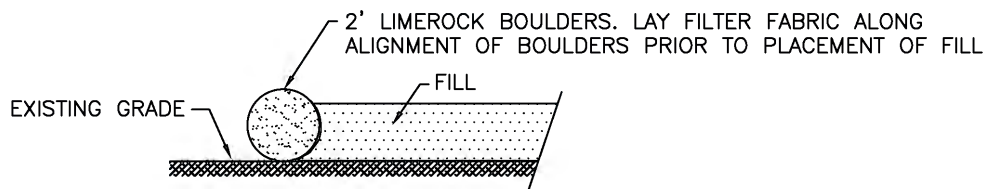
DOCK & FILL FOR RESIDENCE - JAMES & ELEANOR DEAN
22914 BUCCANEER LANE
CUDJOE KEY, MONROE COUNTY, FL

GLEN BOE AND ASSOCIATES, INC. # 4061
5600 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050
Telephone (800) 743-9121 Fax (800) 743-9197
Email: glenboe@glennboe.net

DATE: 08/08/20



SITE PLAN
SCALE: 1" = 30'



TYPICAL SECTION
SCALE: 3/16" = 1'-0"

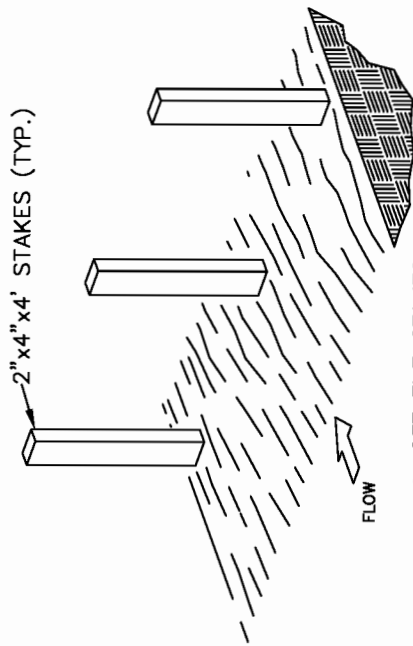
REVISIONS:

CERTIFIED BY:
SEAN KIRWAN, P.E. #57506

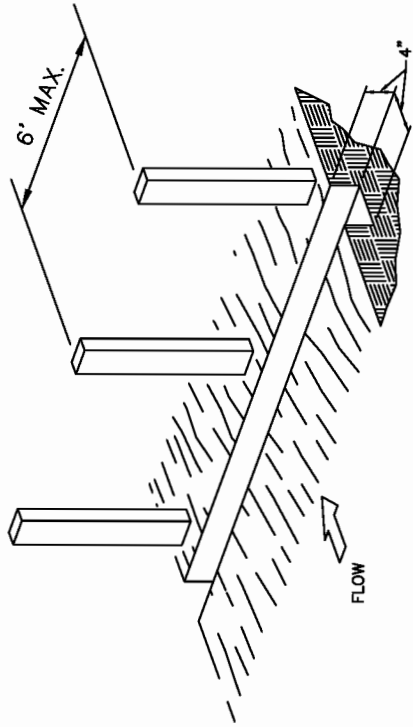
DOCK & FILL FOR RESIDENCE - JAMES & ELEANOR DEAN
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GLEN BOE AND ASSOCIATES, INC. # 4061
5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050
Telephone (305) 743-9121 Fax (305) 743-9197
Email: glenboe@bellsouth.net

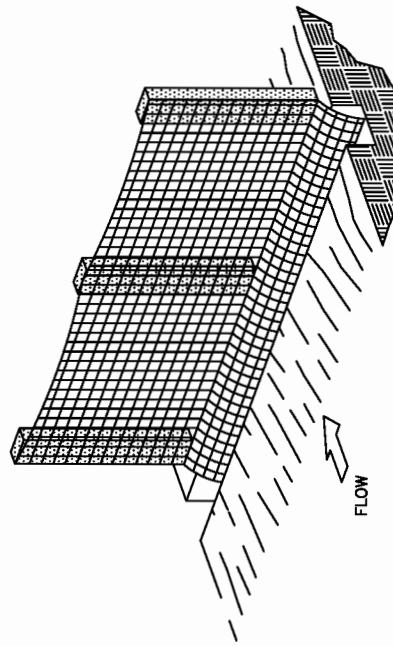
DATE: 02/05/20



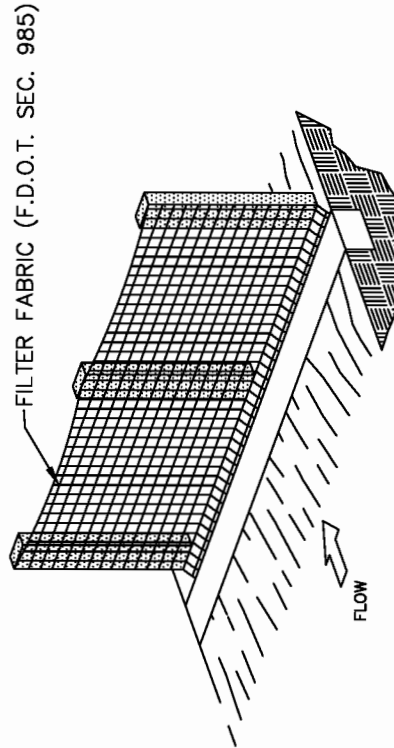
1. SET THE STAKES



2. EXCAVATE A 4"X4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

F.D.O.T. TYPE III FILTER FENCE

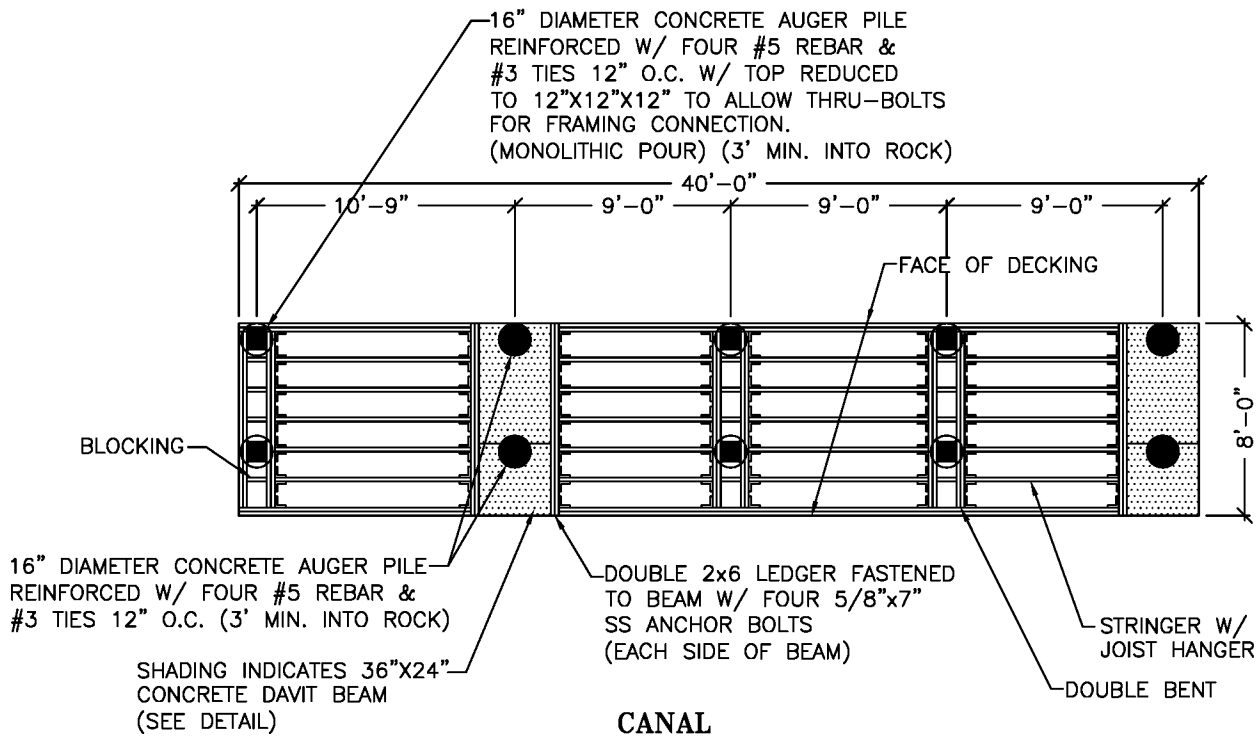
DATE: 02/05/20

GLEN BOE AND ASSOCIATES, INC. # 4061
5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33060
Telephone (305) 743-9121 Fax (305) 743-9187
Email: glenboe@bellsouth.net

DOCK & FILL FOR RESIDENCE - JAMES & ELEANOR DEAN
22914 BUCCANEER LANE
CUDJOE KEY, MONROE COUNTY, FL

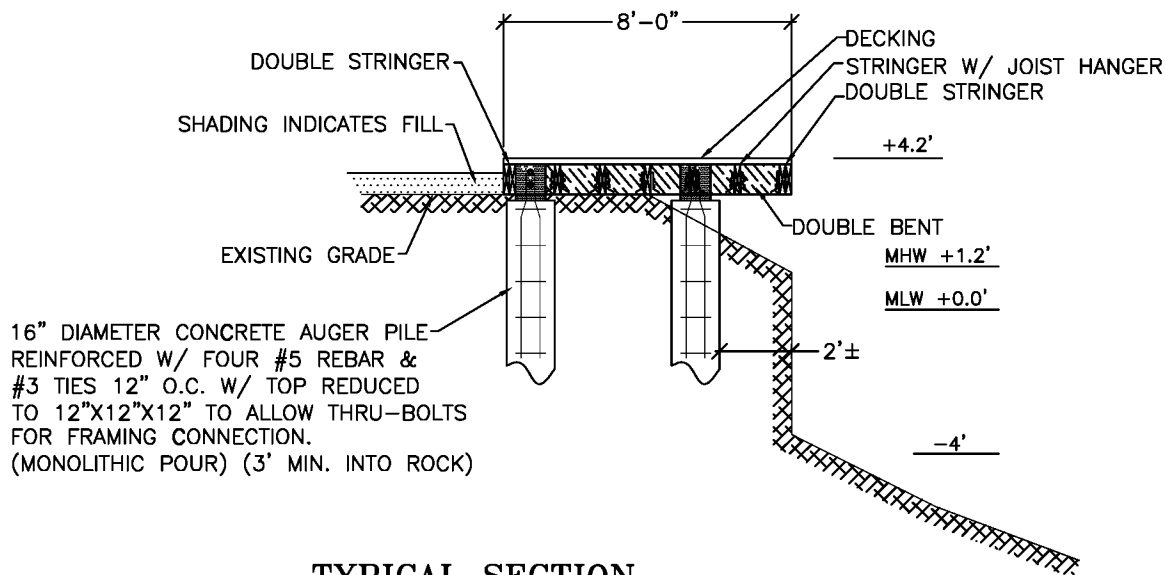
REVISIONS:

CERTIFIED BY:
SEAN KIRWAN, P.E. #57506



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



TYPICAL SECTION

SCALE: 3/16" = 1'-0"

REVISIONS:

CERTIFIED BY:
SEAN KIRWAN, P.E. #57508

DOCK & FILL FOR RESIDENCE - JAMES & ELEANOR DEAN
22914 BUCCANEER LANE
CUDJOE KEY, MONROE COUNTY, FL

GLEN BOE AND ASSOCIATES, INC. # 4061
5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050
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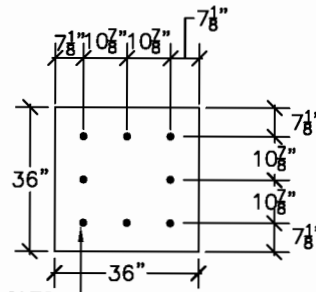
DATE: 02/05/20

110V/30 AMP G.F.C.I. ELECTRIC OUTLET
@ EACH DAVIT PAD

ALL STEEL SHALL BE ASTM GRADE 60 (MIN)
WITHIN 5,000 PSI (MIN) CONC.

VERIFY BOLT SIZE & PATTERN WITH DAVIT
MANUFACTURER PRIOR TO PLACING CONCRETE.

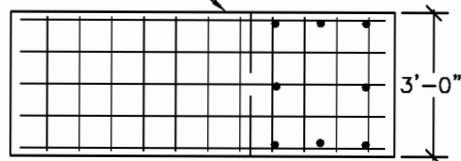
VERIFY BOLT SIZE & PATTERN WITH DAVIT
MANUFACTURER PRIOR TO PLACING CONCRETE.



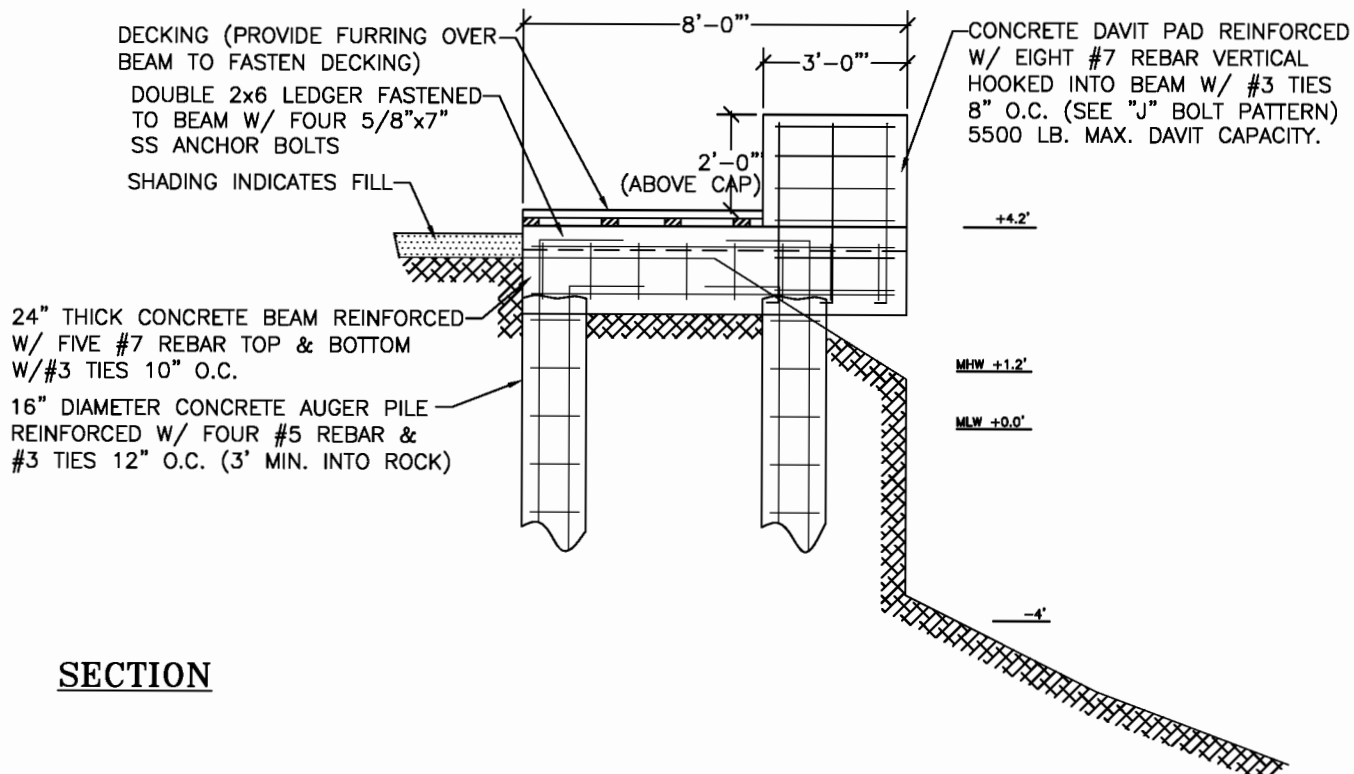
(8) $\frac{3}{4}$ "x16" GALV. "J" BOLTS
HOOKED UNDER #3 TIE.

BOLT PATTERN DETAIL

24" THICK CONCRETE BEAM
REINFORCED W/ FIVE #7
REBAR TOP & BOTTOM
W/#3 TIES 10" O.C.



PLAN VIEW



SECTION

DAVIT DETAIL

SCALE: 1/4" = 1'-0"

CONSTRUCTION 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 2017. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. THE PROPOSED STRUCTURE(S) IS DESIGNED FOR A MINIMUM LIVE LOAD OF 40 PSF/DEAD LOAD 10 PSF, 180 MPH (3 SECOND GUST), EXPOSURE D, RISK CATEGORY 1, ASCE 7-10.
3. CONTRACTOR SHALL ADHERE TO THE STANDARD MANATEE CONSTRUCTION CONDITIONS (LATEST EDITION). IF NEEDED, THE CONTRACTOR CAN CONTACT THE ARMY CORPS OF ENGINEERS OR THIS OFFICE TO OBTAIN A COPY OF THE STANDARD MANATEE CONSTRUCTION CONDITIONS.
4. BEST MANAGEMENT PRACTICES, INCLUDING THE USE OF TURBIDITY SCREENS, ARE REQUIRED TO ISOLATE THE CONSTRUCTION AREA FROM THE ADJACENT WATERS. CONTRACTOR SHALL INSTALL TURBIDITY SCREENS AROUND THE IMMEDIATE PROJECT AREA PRIOR TO CONSTRUCTION. THE TURBIDITY SCREENS REMAIN IN PLACE UNTIL WATER QUALITY CONDITIONS RETURN TO PRECONSTRUCTION CONDITIONS. WATER QUALITY MONITORING SHALL ADHERE TO STATE REGULATIONS.
5. ELECTRIC & WATER (DESIGN PROVIDED BY OTHERS) SHALL BE PROVIDED AS DIRECTED BY OWNER. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL PROPOSED UTILITIES WITH OWNER PRIOR TO CONSTRUCTION.
6. 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.
7. THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.
8. 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.
9. 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.

CONCRETE BEAMS & AUGER PILES

CAST IN PLACE CONCRETE SHALL BE TYPE II CONCRETE WITH A COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. MAXIMUM WATER-CEMENTIOUS MATERIALS RATIO BY WEIGHT RATIO SHALL BE 0.40. SLUMP SHALL NOT EXCEED 5" (1"±).

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A 615, GRADE 60. ALL DETAILING AND ACCESSORIES TO CONFORM TO ACI DETAILING MANUAL (LATEST ADDITION).

PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE SLABS.

REINFORCED CONCRETE CONSTRUCTION TO CONFORM TO ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

PROVIDE SLEEVES FOR ALL PIPES, CONDUITS, ETC. THAT PENETRATE CONCRETE STRUCTURAL MEMBERS PRIOR TO PLACEMENT OF CONCRETE. CUTTING OR DRILLING OF HARDENED CONCRETE NOT PERMITTED.

DO NOT EMBED HORIZONTAL CONDUITS, PIPES, ETC., IN HORIZONTAL CONCRETE STRUCTURAL MEMBERS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):
TOP 3" MINIMUM, BOTTOM 3" MINIMUM, SIDES 3" MINIMUM

PROVIDE CHAIRS, SPACERS, TIES, AND ALL DEVICES NECESSARY FOR PROPER PLACING, SPACING, SUPPORTING, AND FASTENING REINFORCEMENT AS REQUIRED BY ACI 315. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS.

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS BY WIRING TOGETHER IN CONTACT IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS.

CONCRETE AUGER PILES SHALL PENETRATE FIRM ROCK 3' MIN.

LUMBER, DECKING, & FASTENERS:

ALL BENTS AND STRINGERS SHALL BE SOUTHERN PINE NO. 2. LUMBER SHALL BE PRESSURE TREATED PER AWPA UC4B SPECIFICATIONS. MINIMUM RETENTION OF CCA SHALL BE 0.60 POUNDS/CUBIC FOOT.

ALL DECKING SHALL BE SOUTHERN PINE NO. 1 WITH ROUNDED EDGES. LUMBER SHALL BE PRESSURE TREATED. MINIMUM RETENTION OF ACQ SHALL BE 0.40 POUNDS/CUBIC FOOT. ATTACH DECKING TO EACH STRINGER WITH TWO #10 3" STAINLESS STEEL DECK SCREWS AT EACH CONNECTION POINT. PRESSURE TREATED DECKING MAY BE SUBSTITUTED WITH SYNTHETIC DECKING OR FIBERGLASS GRATING AS DIRECTED BY OWNER. SYNTHETIC DECKING & FIBERGLASS GRATING SHALL BE CAPABLE OF SUPPORTING THE LIVE LOAD & DEAD LOAD LISTED ABOVE AND BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

STRINGERS: 2x10 @ 16" CENTERS MAX. (Fb=800 MIN.)

BENTS: 2x10 (Fb=800 MIN.)

DECKING: 2x6 (1/2" SPACING) (Fb=1,350 MIN.)

ATTACH BENTS TO PILING WITH TWO 5/8" 316 STAINLESS STEEL BOLTS, WASHERS, AND NUTS AT EACH CONNECTION POINT. BORE HOLES SHALL BE 1/16 INCH GREATER IN DIAMETER THAN THE BOLT. UPON COMPLETION OF THE INSTALLATION, CHECK ALL NUTS FOR TIGHTNESS. PROVIDE BITUMINOUS PAINT, CAULK, OR SIMILAR FOR TO PREVENT DISSIMILAR METAL CONTACT.

ATTACH EACH STRINGER TO EACH BENT WITH STAINLESS STEEL STRAPS AT EACH CONTACT POINT. PROVIDE SIMPSON STRONG-TIE LTS12, ALPINE MTS12, OR APPROVED EQUAL. ALL CONNECTORS SHALL BE HEAVY DUTY TYPE FOR MARINE ENVIRONMENT APPLICATIONS.

LAY THE PLANKS WITH THE BEST SIDE UP AND WITH ADJACENT EDGES IN CONTACT UNLESS OTHER SPACING SPECIFIED.

PERFORM COUNTERSINKING WHEREVER THE HEADS OF SCREWS OR BOLTS WOULD OTHERWISE INTERFERE WITH THE ASSEMBLY OF THE WORK.

REVISIONS:

CERTIFIED BY:
SEAN KIRWAN, P.E. #57506

DOCK & FILL FOR RESIDENCE - JAMES & ELEANOR DEAN
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