



30 March 2021

Georgia Department of Natural Resources
Coastal Resource Division
Attn: Deb Barreiro
deb.barreiro@dnr.ga.gov

**Subject: Response to Request for Additional Information
Tybee 4-H Dock
Chatham County, Georgia**

RLC# 19-098

Dear Ms. Barreiro:

In a letter dated 2 February 2021, the Georgia Department of Natural Resources Coastal Resource Division (CRD) requested additional information to continue processing the Tybee 4-H Camp Dock Application. The following provides a response to each comment in the order outlined in the CRD letter.

Comment 1. *Existing impacts to coastal marshlands including impacts for the existing platform on the western side of the parcel, and the existing bank stabilization / living shoreline;*

Response 1. The existing structures include 30 linear feet of living shoreline approved in 2011, 390 linear feet of living shoreline approved in 2014 (336 linear feet was approved in 2013 but the project revised and extended) and existing 13.5'x22' deck that predates the Coastal Marshlands Protection Act (we understand the structure was a section of bridge crossing Horse Pen Creek), and the existing dock described in the permit application package. An exhibit depicting the location of each structure and photographs of each structure are attached.

Comment 2. *Clarify the height of the roof over the fixed deck for terminal end of structure and observation deck in CMPA jurisdiction (decking to peak). Note that the fixed terminal platform may be roofed; provided, however, the roof may not exceed a maximum height of 12 feet above the fixed terminal platform decking at the lowest deck height. Shading impacts associated with the proposed observation deck should be discussed;*

Response 2. The height of the roofs for each deck will not exceed 12' and the detail of the structures are provided on page C06.

Comment 3. *Clarify impacts of proposed structure: note that measurement of the walkway with a 6.66ft. x 23.3ft. terminal end could decrease impacts for the terminal end fixed deck to 155.5 sq. ft. (and increase the walkway length by 11.66ft);*

Response 3. The length of the terminal dock platform was reduced from 30' to 23.3' and the revisions have been reflected in the attached revised exhibits and project description.

Comment 4. *Confirm the 17ft. x 4ft. ramp is included in the proposed impacts totaling 1,872 sq.ft.;*

Response 4. The attached exhibits and revised project description include the ramp in the total 1,802.8 square foot marshlands impact calculations.

Comment 5. *MLW-MLW at the terminal end location;*

Response 5. MLW-MLW at the terminal end location is depicted on the attached revised exhibits. See drawing 4.

Comment 6. *MHW-MHW at the terminal end location;*

Response 6. MHW-MHW at the terminal end location is depicted on the attached revised exhibits. See drawing 4.

Comment 7. *Distance of seaward most face of floating dock into the waterway at MLW;*

Response 7. The distance of seaward most face of floating dock into the waterway at MLW is 5'. See drawing 4.

Comment 8. *Provide the distance to extended property lines for the proposed in-water structure;*

Response 8. The distance to the extended property line is 575' upstream and 1821' downstream. See drawing 4.

Comment 9. *Provide dimensions for the proposed float cradle and include in the proposed impacts for the project;*

Response 9. We have indicated the cradle on drawing 4, and added a detail on drawing C6 with regards to the cradle.

Comment 10. Clarify if the “wood walk” is existing or proposed and is it associated with the upland component or is it in CMPA jurisdiction (Refer to Drawing 3 of 6 Aerial Overlay of existing and Proposed Dock);

Response 10. The “wooden walkway” is proposed (not existing) and is not located within CMPA jurisdiction. The small walkway will accommodate for existing topography/steep grade and provide ADA access within upland.

Comment 11. *Description of proposed activities associated with the upland component (including land-disturbing activities within the project boundaries associated with construction of the fixed deck and walkway)*

Response 11. As noted in the project description, installation of the wooden pedestrian dock access and the wooden observation deck will occur within the 50-foot buffer and would be considered the upland component for the project. No land disturbing activities will be required for the project. Construction activities within upland areas will not require mechanized earth moving equipment nor land disturbing activities. Construction activities within the upland areas will be limited to hand clearing of vegetation and manual labor associated with fabrication of the deck and walkway using post hole diggers, electric saws, hammers, nails, screws, etc. Following completion of deck and walkway construction, pedestrian, educational, and recreational activities associated with the existing facility will occur within the upland area adjacent to the marsh.

Comment 12. *Provide proof that a Buffer Variance has been applied for, if required for the project;*

Response 12. A buffer variance is not required.

Comment 13. *Please provide additional discussion on how the proposed project design addresses the State's Public Interest consideration specifically related to increased erosion, shoaling of the channels, or stagnant areas of water that may be created as a result of this project;*

Response 13. The proposed project includes removal of an existing floating dock, gangway, deck and portion of the walkway for the existing dock within coastal marshlands, the installation of a wooden walkway and observation deck within upland, and the installation of a new walkway, observation deck with roof, deck with roof, gangway, float and cradle within coastal marshlands. Combining both the new dock and the remaining section of existing walkway, the 4-H dock facilities will total 1,992.7 square feet over coastal marshlands resulting in a 183.7 square foot (0.004 acre) increase in structures within coastal marshlands. The proposed project will continue to provide environmental educational and recreational opportunities for students and campers. The proposed project results in a minimal increase in structure within tidal waters, includes the removal of an existing dock and float to maintain navigation and will incorporate CRD design guidelines/standards to avoid increased erosion, shoaling of the channels, or stagnant areas of water.

Comment 14. *Provide a copy of the water quality certification issued by the Department, if required for the proposed project.*

Response 14. 401 water quality certification is not required.

If you have any questions or require an additional information, please do not hesitate to contact us at (912) 443-5896.

Sincerely,



Alton Brown, Jr.
Principal
Resource & Land Consultants
Enclosures

cc: Mr. Chuck Cartwright – University of Georgia
Mr. Paul Coote – University of Georgia
Ms. Melanie Biersmith – University of Georgia
Mr. Tom Havens – Coastal Civil Engineering

Burton 4-H Center

Dock Installation

Chatham County, Georgia

Project Description

July 2019/August 2020/March 2021

1.0 INTRODUCTION & BACKGROUND:

The University of Georgia (UGA) is proposing the installation of a new dock and removal of portions of the existing dock at the Burton 4-H Center located at 9 Lewis Avenue on Tybee Island, Georgia (32.007422°, -80.851285°). The Burton Center is one of six 4-H facilities across the state and administered by UGA Extension. This facility reaches more than 8,000 students and adults annually through Environmental Education and Summer Camp programs. The Environmental Education Program provides biological and environmental education opportunities for school groups, while Summer Camp provides Georgia 4-H agents and campers a 5-day learning adventure. The program offers hands-on learning experiences for all school types and grades, with a focus on local coastal ecosystems. Each year thousands of guests from all over the southeast learn about the natural world around them. The objectives of the Environmental Education Program are to:

- Develop an awareness, knowledge and appreciation for the natural environment.
- Cultivate curiosity, critical reasoning and evaluation skills.
- Develop positive relationships between students and their teachers.
- Make the school program more meaningful by applying knowledge and skills required in the classroom to real-life situations.
- Provide experiences in scientific processes, such as observing, measuring, classifying, etc.
- Develop self-confidence and physical fitness.
- Develop an appreciation for the local and natural history of an area.

Because access to the coastal environment is critical to the 4-H hands on experience, the existing dock has been an important component of the program. Guests, students and campers discuss general ecosystem functions as well as participate in experiences unique to the coastal marshlands environment from the boardwalk, decks and floats associated with the existing dock.

For over 30 years, the existing dock has satisfied the marsh and water access needs of the facility and this dock continues to meet the needs of the facility today. However, the dock is located within a bend in the creek and the channel continues to migrate east. Due to this channel migration, portions of the existing dock are now located within the deepest part of the channel and navigational issues for upstream residents is now a concern. To alleviate the navigation concern and to position the dock in a less dynamic location, the applicant has proposed to construct a new dock within the property.

2.0 PROJECT PURPOSE:

The purpose of the project is to construct a new dock at a location along Horse Pen Creek that will continue to meet the marsh and water access needs of the Burton 4-H Center educational and recreational program but that does not present erosional and navigational challenges associated with the current dock location.

3.0 PROPOSED PROJECT:

The proposed project includes construction of a wooden dock approximately 160 feet east of the existing dock and removal of the majority of the existing dock. The following provides a summary of the proposed structures associated with the project:

Proposed Dock: The first phase of the project will include construction of a new dock and as noted above, the new dock will be constructed approximately 160 feet east of the existing dock. This will enable the camp to operate from the existing dock while the new dock is under construction. The new dock will include the following:

- 20'x4' wooden walkway within upland (115 sf)
- 10'x20' observation deck within upland at the marsh/upland interface (200 sf)
- 6'8"x179' wooden walkway (1,192.1 sf including 1154.1 sf over coastal marshland and 38 sf over upland)
- Approximately halfway down the walkway a 10'x20' (200 sf) covered observation deck will be constructed on the west side of the walkway for view and educational purposes



- 23.4'x6'8" covered observation deck (155.4 sf)
- 6'8"x5' platform (33.3 sf) with a 17'x 4' gangway (68 sf)
- 8'x 24' floating dock (192 sf)

The new facility will total 2,155.8 square feet of which 1,802.8 square feet will be over coastal marshlands. The new dock will extend 5 feet into the channel beyond MLW. The creek is approximately 30 feet wide at MLW and 46 feet wide from grass to grass at MHW.

Existing Dock: The existing dock currently totals approximately 1809 square feet and includes an 6'4" by 152'8" (966.3 square foot) walkway leading to the first 12'3" by 20' (247.2 square foot) deck and an 4' by 49'6" (198 square foot) walkway leading from the first deck to a 14'3" by 10'3" (146.1 square foot) second deck. A 3'6" by 24' (84 square foot) gangway provides access from the first deck to a 16'1" by 10'5" (167.4 square foot) float. Except for a 30' by 6'4" (189.9 square foot) section of existing walkway extending from upland into the marsh, the existing dock will be removed once new dock construction is completed. The section of walkway to remain will continue to be used for program education.

Combining both the new dock and the remaining section of existing walkway, the 4-H dock facilities will total 1,992.7 square feet over coastal marshlands and will continue to provide environmental educational and recreational opportunities for students and campers.

3.1 Marshlands Component:

The marshlands component of the project is defined as the part of the project in an estuarine area or any structure on or over an estuarine area, including but not limited to marinas, community docks, bridges, piers and bulkheads, requiring a permit under the Coastal Marshlands Protection Act. The marshlands component of the project includes the proposed dock facility.

3.2 Upland Component:

The upland component of the project is defined as all those service areas, amenities and recreational areas located inland of the Coastal Marshlands Protection Act jurisdiction line, that serve or augment the functioning of the marshlands component of the project such as but not limited to dry stack boat storage, dock master shop, fuel storage and delivery facilities to serve the marshlands component of the project. As stated in the Coastal Marshlands Protection Rules, land disturbance and construction of structures within the 50-foot marshlands buffer in the upland component of the project shall be limited to the following: Construction and maintenance of permanent structures that are required for the functionality of and/or provide permanent access to the marshlands component for the project. For this project, installation of the wooden pedestrian dock access and the wooden observation deck will occur within the 50-foot buffer and would be considered the upland component for the project. These wooden structures will total 300 square feet. No activities other activities within the upland are associated with this project.

3.3 Stormwater Management:

The proposed project does not include site development activities and development of a stormwater management plan is not required. The project will implement standard BMP's during the construction phase for sedimentation and erosion control purposes and to protect adjacent tidal waters and marsh.

4.0 ALTERNATIVES ANALYSIS:

The applicant reviewed several dock location alternatives and has proposed a location that requires the least amount of disturbance and minimal amount of dock square footage while achieving the overall project purpose. The first dock corridor proposed extended from the facility due east but due to ownership issues, this corridor was not feasible. Other corridors available within the UGA property would require longer boardwalks to provide access to the creek. Following review of each alternative, the applicant determined that the proposed location was the least damaging practicable alternative.

The applicant also considered opportunities to minimize the size and dimensions of the facilities within coastal marshlands jurisdiction. As documented by the University of Georgia Extension 4-H Director and Burton 4-H Center, preserving a portion of the old dock and construction of the new dock is required to support the educational and recreational activities for the 8,000 annual visitors associated with the Burton 4-H Center. Detailed information documenting the need and use of these facilities is provided in the attached letters.

5.0 ESSENTIAL FISH HABITAT:

The proposed project includes demolition of a portion of an existing dock and installation of a wooden dock for recreation and educational purposes. The proposed project will not adversely affect essential fish habitat.

6.0 THREATENED AND ENDANGERED SPECIES:

RLC conducted a threatened and endangered species survey to determine the potential occurrence of animal and plants species (or their preferred habitats) currently listed as threatened or endangered by state and federal regulations [Federal Endangered Species Act of 1973 (16 USC 1531-1543)]. The U.S. Fish and Wildlife Service (USFWS) lists the following plant and animal species as endangered or threatened in Chatham County, Georgia:

PLANTS

Pondberry (*Lindera melissifolia*)

MAMMALS

Humpback Whale (*Megaptera novaeanglie*)

Northern Atlantic Right Whale (*Eubalaena glacialis*)

Manatee (*Trichechus manatus*)

BIRDS

Bachman's Warbler (*Vermivora bachmanii*)

Bald Eagle (*Haliaeetus leucocephalus*)

Piping Plover (*Charadrius melodus*)

Red-Cockaded Woodpecker (*Picoides borealis*)

Wood Stork (*Mycteria americana*)

REPTILES

Eastern Indigo Snake (*Drymarchon corais couperi*)

Green Sea Turtle (*Chelonia mydas*)

Hawksbill Sea Turtle (*Eretmochelys imbricate*)

Kemp's Ridley Sea Turtle (*Lepidochelys kempii*)

Leatherback Sea Turtle (*Dermochelys coriacea*)

Loggerhead Sea Turtle (*Caretta caretta*)

AMPHIBIAN

Flatwoods Salamander (*Ambystoma cingulatum*)

FISH

Shortnose Sturgeon (*Acipenser brevirostrum*)

Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*)

Several protected species frequent coastal waters of Georgia, including the Northern Atlantic Right Whale, West Indian Manatee, five species of sea turtle, the Shortnose Sturgeon and the Atlantic Sturgeon. Based on the location of the proposed project, no adverse impacts to any individual or population of protected species is anticipated.

7.0 COMMERCIAL BAIT SHRIMP, OYSTER, AND CRABBING AREAS

The proposed project is not located in a designated bait shrimp zone according to Georgia Department of Natural Resources *Commercial and Recreational Bait Shrimp Zones, Coastal Georgia* map. The project area is not listed on the *Georgia Harvester Reported Crabbing Areas* list, and the project area is not located in designated commercial or recreational oyster harvest areas.

8.0 IMPAIRED WATERS

The subject waterway is not listed on the U.S. Environmental Protection Agency 303(d) list for impaired water bodies.

9.0 SUPPLEMENTAL INFORMATION

This additional information is provided for compliance with Coastal Marshlands Protection Act of 1970 information requirements:

OCGA 12-5-286. Permits to fill, drain, etc., marshlands.

(b) Each application for such permit shall be, properly executed, filed with the department on forms as prescribed by the department, and shall include:

- (1) *The name and address of the applicant-*
University of Georgia Environmental Safety Division



Attn: John McCollum
240A Riverbend Road
Athens, Georgia 30602
706-542-5801
mccollum@uga.edu

- (2) *A plan or drawing showing the applicant's proposal and the manner or method by which such proposal shall be accomplished. Such plan shall identify the coastal marshlands affected-* Please refer to attached construction plan.
- (3) *A plat of the area in which the proposed work will take place-* See attached.
- (4) *A copy of the deed or other instrument under which the applicant claims title to the property or, if the applicant is not the owner, then a copy of the deed or other instrument under which the owner claims title together with written permission from the owner to carry out the project on his land. In lieu of a deed or other instrument referred to in this paragraph, the committee may accept some other reasonable evidence of ownership of the property in question or other lawful authority to make use of the property; The committee will not adjudicate title disputes concerning the property which is the subject of the application; provided, however, the committee may decline to process an application when submitted documents show conflicting deeds-* See attached.
- (5) *A list of all adjoining landowners together with such owners' addresses, provided that if the names or addresses of adjoining landowners cannot be determined, the applicant shall file in lieu thereof a sworn affidavit that a diligent search, including, without limitation, a search of the records for the county tax assessor's office, has been made but that the applicant was not able to ascertain the names or addresses, as the case may be, of adjoining landowners-* See attached.
- (6) *A letter from the local governing authority of the political subdivision in which the property is located, stating that the applicant's proposal is not in violation of any zoning law;* Not applicable. The Board of Regents property is not subject to any municipal zoning, including the City of Tybee.
- (7) *A non-refundable application fee to be set by the board in an amount necessary to defray the administrative cost of issuing such permit. Renewal fees shall be equal to application fees, which shall not exceed \$1,000.00 for any one proposal and shall be paid to the department.* See attached.
- (8) *A description from the applicant of alternative sites and why they are not feasible and a discussion of why the permit should be granted-* See attached project description.
- (9) *A statement from the applicant that he has made inquiry to the appropriate authorities that the proposed project is not over a landfill or hazardous waste site and that the site is otherwise suitable for the proposed project-* A review of the Hazardous Site Index for Chatham County, Georgia indicates that the subject property does not contain hazardous waste sites or landfills. A copy is attached.
- (10) *A copy of the water quality certification issued by the department if required for the proposed project-* Not applicable.
- (11) *Certification by the applicant of adherence to soil and erosion control responsibilities if required for the proposed project-* The project will conform to all building, land disturbing, and stormwater management requirements of Chatham County.
- (12) *Such additional information as is required by the committee to properly evaluate the application-* This application has been prepared with consideration for the interests of the general public of the State of Georgia as defined in OCGA 12-5-286(g):

OCGA 12-5-286. Permits to fill, drain, etc. marshlands.

(g) In passing upon the application for permit, the committee shall consider the public interest, which, for purposes of this part shall be deemed to be the following considerations:

- (1) Whether or not unreasonably harmful obstruction to or alteration of the natural flow of navigational water within the affected area will arise as a result of the proposal-*** The proposed project will not alter natural flow of navigable waters or obstruct public navigation.
- (2) Whether or not unreasonably harmful or increased erosion shoaling of channels, or stagnant areas of water will be created-*** The proposed project will not increase erosion, shoaling of channels, or create stagnant areas of water.
- (3) Whether or not the granting of a permit and the completion of the applicant's proposal will unreasonably interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, or wildlife, or other resources, including but not limited to water and oxygen supply-*** The proposed project will not interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, wildlife, or other resources, nor affect water and oxygen supply.

Burton 4-H Center

Dock Installation

Chatham County, Georgia

Project Description
July 2019/August 2020

1.0 INTRODUCTION & BACKGROUND:

The University of Georgia (UGA) is proposing the installation of a new dock and removal of portions of the existing dock at the Burton 4-H Center located at 9 Lewis Avenue on Tybee Island, Georgia (32.007422°, -80.851285°). The Burton Center is one of six 4-H facilities across the state and administered by UGA Extension. This facility reaches more than 8,000 students and adults annually through Environmental Education and Summer Camp programs. The Environmental Education Program provides biological and environmental education opportunities for school groups, while Summer Camp provides Georgia 4-H agents and campers a 5-day learning adventure. The program offers hands-on learning experiences for all school types and grades, with a focus on local coastal ecosystems. Each year thousands of guests from all over the southeast learn about the natural world around them. The objectives of the Environmental Education Program are to:

- Develop an awareness, knowledge and appreciation for the natural environment.
- Cultivate curiosity, critical reasoning and evaluation skills.
- Develop positive relationships between students and their teachers.
- Make the school program more meaningful by applying knowledge and skills required in the classroom to real-life situations.
- Provide experiences in scientific processes, such as observing, measuring, classifying, etc.
- Develop self-confidence and physical fitness.
- Develop an appreciation for the local and natural history of an area.

Because access to the coastal environment is critical to the 4-H hands on experience, the existing dock has been an important component of the program. Guests, students and campers discuss general ecosystem functions as well as participate in experiences unique to the coastal marshlands environment from the boardwalk, decks and floats associated with the existing dock.

For over 30 years, the existing dock has satisfied the marsh and water access needs of the facility and this dock continues to meet the needs of the facility today. However, the dock is located within a bend in the creek and the channel continues to migrate east. Due to this channel migration, portions of the existing dock are now located within the deepest part of the channel and navigational issues for upstream residents is now a concern. To alleviate the navigation concern and to position the dock in a less dynamic location, the applicant has proposed to construct a new dock within the property.

2.0 PROJECT PURPOSE:

The purpose of the project is to construct a new dock at a location along Horse Pen Creek that will continue to meet the marsh and water access needs of the Burton 4-H Center educational and recreational program but that does not present erosional and navigational challenges associated with the current dock location.

3.0 PROPOSED PROJECT:

The proposed project includes construction of a wooden dock approximately 160 feet east of the existing dock and removal of the majority of the existing dock. The following provides a summary of the proposed structures associated with the project:

Proposed Dock: The first phase of the project will include construction of a new dock and as noted above, the new dock will be constructed approximately 160 east of the existing dock. This will enable the camp to operate from the existing dock while the new dock is under construction. The new dock will include the following:

- 20'x5' wooden walkway within upland (100 square feet)
- 10'x20' observation deck (200 square feet) within upland at the marsh/upland interface.
- 6'8"x179' wooden walkway (33.2 square feet in upland and 1,159.2 square feet over marsh).
- Approximately halfway down the walkway a 10'x20' observation deck (200 square foot) will be constructed on the west side of the walkway for view and educational purposes.



- 30'x6'8" deck (199.8 square foot)
- 6'8"x5' platform (33.3 square foot) with a 17'x 4' gangway (68 square foot)
- 8'x 24' floating dock (192 square foot)

The new facility will total 2,185.2 square feet of which 1,852 square feet will be over coastal marshlands. The new dock will extend 8 feet into the channel beyond MLW. The creek is approximately 30 feet wide at MLW and 55 feet wide from grass to grass at MHW.

Existing Dock: The existing dock currently totals approximately 1809 square feet and includes an 6'4" by 152'8" (966.3 square foot) walkway leading to the first 12'3" by 20' (247.2 square foot) deck and an 4' by 49'6" (198 square foot) walkway leading from the first deck to a 14'3" by 10'3" (146.1 square foot) second deck. A 3'6" by 24' (84 square foot) gangway provides access from the first deck to a 16'1" by 10'5" (167.4 square foot) float. Except for a 30' by 6'4" (189.9 square foot) section of existing walkway extending from upland into the marsh, the existing dock will be removed once new dock construction is completed. The section of walkway to remain will continue to be used for program education.

Combining both the new dock and the remaining section of existing walkway, the 4-H dock facilities will total 2,041.9 square feet over coastal marshlands and will continue to provide environmental educational and recreational opportunities for students and campers.

3.1 Marshlands Component:

The marshlands component of the project is defined as the part of the project in an estuarine area or any structure on or over an estuarine area, including but not limited to marinas, community docks, bridges, piers and bulkheads, requiring a permit under the Coastal Marshlands Protection Act. The marshlands component of the project includes the proposed dock facility.

3.2 Upland Component:

The upland component of the project is defined as all those service areas, amenities and recreational areas located inland of the Coastal Marshlands Protection Act jurisdiction line, that serve or augment the functioning of the marshlands component of the project such as but not limited to dry stack boat storage, dock master shop, fuel storage and delivery facilities to serve the marshlands component of the project. As stated in the Coastal Marshlands Protection Rules, land disturbance and construction of structures within the 50-foot marshlands buffer in the upland component of the project shall be limited to the following: Construction and maintenance of permanent structures that are required for the functionality of and/or provide permanent access to the marshlands component for the project. For this project, installation of the wooden pedestrian dock access and the wooden observation deck will occur within the 50-foot buffer and would be considered the upland component for the project. These wooden structures will total 300 square feet. No activities other activities within the upland are associated with this project.

3.3 Stormwater Management:

The proposed project does not include site development activities and development of a stormwater management plan is not required. The project will implement standard BMP's during the construction phase for sedimentation and erosion control purposes and to protect adjacent tidal waters and marsh.

4.0 ALTERNATIVES ANALYSIS:

The applicant reviewed several dock location alternatives and has proposed a location that requires the least amount of disturbance and minimal amount of dock square footage while achieving the overall project purpose. The first dock corridor proposed extended from the facility due east but due to ownership issues, this corridor was not feasible. Other corridors available within the UGA property would require longer boardwalks to provide access to the creek. Following review of each alternative, the applicant determined that the proposed location was the least damaging practicable alternative.

The applicant also considered opportunities to minimize the size and dimensions of the facilities within coastal marshlands jurisdiction. As documented by the University of Georgia Extension 4-H Director and Burton 4-H Center, preserving a portion of the old dock and construction of the new dock is required to support the educational and recreational activities for the 8,000 annual visitors associated with the Burton 4-H Center. Detailed information documenting the need and use of these facilities is provided in the attached letters.



RECEIVED

5.0 ESSENTIAL FISH HABITAT:

The proposed project includes demolition of a portion of an existing dock and installation of a wooden dock for recreation and educational purposes. The proposed project will not adversely affect essential fish habitat.

6.0 THREATENED AND ENDANGERED SPECIES:

RLC conducted a threatened and endangered species survey to determine the potential occurrence of animal and plants species (or their preferred habitats) currently listed as threatened or endangered by state and federal regulations [Federal Endangered Species Act of 1973 (16 USC 1531-1543)]. The U.S. Fish and Wildlife Service (USFWS) lists the following plant and animal species as endangered or threatened in Chatham County, Georgia:

PLANTS

Pondberry (*Lindera melissifolia*)

MAMMALS

Humpback Whale (*Megaptera novaeanglie*)

Northern Atlantic Right Whale (*Eubalaena glacialis*)

Manatee (*Trichechus manatus*)

BIRDS

Bachman's Warbler (*Vermivora bachmanii*)

Bald Eagle (*Haliaeetus leucocephalus*)

Piping Plover (*Charadrius melodus*)

Red-Cockaded Woodpecker (*Picoides borealis*)

Wood Stork (*Mycteria americana*)

REPTILES

Eastern Indigo Snake (*Drymarchon corais couperi*)

Green Sea Turtle (*Chelonia mydas*)

Hawksbill Sea Turtle (*Eretmochelys imbricate*)

Kemp's Ridley Sea Turtle (*Lepidochelys kempii*)

Leatherback Sea Turtle (*Dermochelys coriacea*)

Loggerhead Sea Turtle (*Caretta caretta*)

AMPHIBIAN

Flatwoods Salamander (*Ambystoma cingulatum*)

FISH

Shortnose Sturgeon (*Acipenser brevirostrum*)

Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*)

Several protected species frequent coastal waters of Georgia, including the Northern Atlantic Right Whale, West Indian Manatee, five species of sea turtle, the Shortnose Sturgeon and the Atlantic Sturgeon. Based on the location of the proposed project, no adverse impacts to any individual or population of protected species is anticipated.

7.0 COMMERCIAL BAIT SHRIMP, OYSTER, AND CRABGING AREAS

The proposed project is not located in a designated bait shrimp zone according to Georgia Department of Natural Resources *Commercial and Recreational Bait Shrimp Zones, Coastal Georgia* map. The project area is not listed on the *Georgia Harvester Reported Crabbing Areas* list, and the project area is not located in designated commercial or recreational oyster harvest areas.

8.0 IMPAIRED WATERS

The subject waterway is not listed on the U.S. Environmental Protection Agency 303(d) list for impaired water bodies.

9.0 SUPPLEMENTAL INFORMATION

This additional information is provided for compliance with Coastal Marshlands Protection Act of 1970 information requirements:

OCGA 12-5-286. Permits to fill, drain, etc., marshlands.

(b) Each application for such permit shall be, properly executed, filed with the department on forms as prescribed by the department, and shall include:

(1) *The name and address of the applicant-*

University of Georgia Environmental Safety Division



RECEIVED

3 | Page

SEP 04 20

GA-DNR

Attn: John McCollum
240A Riverbend Road
Athens, Georgia 30602
706-542-5801
mccollum@uga.edu

- (2) ***A plan or drawing showing the applicant's proposal and the manner or method by which such proposal shall be accomplished. Such plan shall identify the coastal marshlands affected-*** Please refer to attached construction plan.
- (3) ***A plat of the area in which the proposed work will take place-*** See attached.
- (4) ***A copy of the deed or other instrument under which the applicant claims title to the property or, if the applicant is not the owner, then a copy of the deed or other instrument under which the owner claims title together with written permission from the owner to carry out the project on his land. In lieu of a deed or other instrument referred to in this paragraph, the committee may accept some other reasonable evidence of ownership of the property in question or other lawful authority to make use of the property; The committee will not adjudicate title disputes concerning the property which is the subject of the application; provided, however, the committee may decline to process an application when submitted documents show conflicting deeds-*** See attached.
- (5) ***A list of all adjoining landowners together with such owners' addresses, provided that if the names or addresses of adjoining landowners cannot be determined, the applicant shall file in lieu thereof a sworn affidavit that a diligent search, including, without limitation, a search of the records for the county tax assessor's office, has been made but that the applicant was not able to ascertain the names or addresses, as the case may be, of adjoining landowners-*** See attached.
- (6) ***A letter from the local governing authority of the political subdivision in which the property is located, stating that the applicant's proposal is not in violation of any zoning law;*** Not applicable. The Board of Regents property is not subject to any municipal zoning, including the City of Tybee.
- (7) ***A non-refundable application fee to be set by the board in an amount necessary to defray the administrative cost of issuing such permit. Renewal fees shall be equal to application fees, which shall not exceed \$1,000.00 for any one proposal and shall be paid to the department.*** See attached.
- (8) ***A description from the applicant of alternative sites and why they are not feasible and a discussion of why the permit should be granted-*** See attached project description.
- (9) ***A statement from the applicant that he has made inquiry to the appropriate authorities that the proposed project is not over a landfill or hazardous waste site and that the site is otherwise suitable for the proposed project-*** A review of the Hazardous Site Index for Chatham County, Georgia indicates that the subject property does not contain hazardous waste sites or landfills. A copy is attached.
- (10) ***A copy of the water quality certification issued by the department if required for the proposed project-*** Not applicable.
- (11) ***Certification by the applicant of adherence to soil and erosion control responsibilities if required for the proposed project-*** The project will conform to all building, land disturbing, and stormwater management requirements of Chatham County.
- (12) ***Such additional information as is required by the committee to properly evaluate the application-*** This application has been prepared with consideration for the interests of the general public of the State of Georgia as defined in OCGA 12-5-286(g):

OCGA 12-5-286. Permits to fill, drain, etc. marshlands.



(g) *In passing upon the application for permit, the committee shall consider the public interest, which, for purposes of this part shall be deemed to be the following considerations:*

- (1) *Whether or not unreasonably harmful obstruction to or alteration of the natural flow of navigational water within the affected area will arise as a result of the proposal-* The proposed project will not alter natural flow of navigable waters or obstruct public navigation.
- (2) *Whether or not unreasonably harmful or increased erosion shoaling of channels, or stagnant areas of water will be created-* The proposed project will not increase erosion, shoaling of channels, or create stagnant areas of water.
- (3) *Whether or not the granting of a permit and the completion of the applicant's proposal will unreasonably interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, or wildlife, or other resources, including but not limited to water and oxygen supply-* The proposed project will not interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, wildlife, or other resources, nor affect water and oxygen supply.



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex

Athens, Georgia 30602

TEL 706-542-4444 | FAX 706-542-4373

asmith@uga.edu

www.georgia4h.org

February 21, 2020

RE: Application for a Coastal Marshlands Protection Act for the Construction and Maintenance of an educational dock facility, 9 Lewis Avenue, Tybee Island, Horsepen Creek, Chatham County

This letter serves to provide clarification to and seek approval for a response to Policy Memorandum No. 2002-010 as stated in the 11/5/19 letter from the DNR Coastal Permit Coordinator, which states: "During pre-construction planning and compliance inspections, a riparian owner shall be limited to one dock per lot. In the event that there is more than one existing dock per lot, none of the existing docks may be expanded until only one dock remains."

The Burton 4-H Center currently maintains a 22 x 14 foot platform as well as a boardwalk/floating dock structure at the south end of the property giving students access to Horsepen Creek. Due to natural movement over time of the creek channel, the current application on file requests permission to build a new boardwalk and floating dock structure at a different location on Horsepen Creek. This relocation will prevent the further erosion of the support system of the current boardwalk and will also be less intrusive to the creek channel while still providing access to creek for educational purposes. Prior to the construction of this new structure, Burton 4-H Center will first remove the existing floating dock and the majority of the existing boardwalk, requesting to leave no more than 60 feet of boardwalk without direct water access. Once this demolition is completed, and upon all necessary approvals, Burton would proceed with the construction of the new dock.

Preserving the 22 x 14 foot overlook as well as a portion of the older boardwalk provides additional teaching stations for use by the nearly 8,000 visitors a year who come to Burton for youth development and educational programs. The programming at the Burton 4-H Center is centered upon marine science, so access to the marsh is an important aspect of the programming that provided.

A simple graphic is provided for a quick visual reference for the requests.

Thank you for the consideration,

Arch Smith

State 4-H Leader / Director of 4-H

RECEIVED

SEP 04 20

GA-DNR



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex
Athens, Georgia 30602
TEL 706-542-4444 | FAX 706-542-4373
asmith@uga.edu
www.georgia4h.org



RECEIVED

SEP 04 20

GA-DNR



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex
Athens, Georgia 30602
TEL 706-542-4444 | FAX 706-542-4373
asmith@uga.edu
www.georgia4h.org

July 30, 2020

RE: Application for a Coastal Marshlands Protection Act for the Construction and Maintenance of an educational dock facility, 9 Lewis Avenue, Tybee Island, Horsepen Creek, Chatham County

This letter serves to provide clarification to and seek approval for a response to Policy Memorandum No. 2002-010 as stated in the 11/5/19 letter from the DNR Coastal Permit Coordinator, which states: "During pre-construction planning and compliance inspections, a riparian owner shall be limited to one dock per lot. In the event that there is more than one existing dock per lot, none of the existing docks may be expanded until only one dock remains."

The Burton 4-H Center currently maintains a boardwalk and floating dock structure at the south end of the property giving students access to Horsepen Creek. Due to natural movement over time of the creek channel, the current application on file requests permission to build a new boardwalk and floating dock structure at a different location on Horsepen Creek. This relocation will prevent the further erosion of the support system of the current boardwalk and will also be less intrusive to the creek channel while still providing access to the creek for educational purposes. Prior to the construction of this new structure, Burton 4-H Center will first remove the existing floating dock and the majority of the existing boardwalk, requesting to leave 30 feet of boardwalk without direct water access. Once this demolition is completed, and upon all necessary approvals, Burton would proceed with the construction of the new dock.

As noted in the rules governing projects like these, "nothing in these rules shall be construed to preclude the Committee from developing or issuing permits suitable to the circumstances of a particular application". This project proposed by the University System of Georgia is educational in nature rather than commercial or recreational so design specifications are not equivalent to those of a non-public or non-educational facility. Preserving a portion of the older boardwalk provides an additional teaching station for use by the nearly 8,000 visitors a year who come to Burton for youth development and educational programs. The programming at the Burton 4-H Center is centered upon marine science, so access to the marsh is an important aspect of the programming that is provided. This programming is small group, hands-on and outdoor in all manner of weather with as many as 4 and 5 groups at a time so it is very important that we have multiple options for programming locations on the property. With the existing structure there are often times when more than one group needs to conduct a program on our boardwalk leading to interruptions in programs as a group is coming or going from the boardwalk. Maintaining the 30' portion of the existing structure provides an additional teaching station on Horsepen Creek and would help us improve the educational experience of our students.

RECEIVED

SEP 04 20

GA-DNR



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex
Athens, Georgia 30602
TEL 706-542-4444 | FAX 706-542-4373
asmith@uga.edu
www.georgia4h.org

The interruptions in programming mentioned above are also addressed by the teaching platform currently located half way down the proposed boardwalk. Having an area where a group of perhaps 15-18 youth and adults can gather while conducting a program without blocking travel up or down the boardwalk will improve the educational experience of our guests. With the current proposal the education staff at the Burton 4-H Center could have a group doing belly biology on the proposed floating dock while at the teaching platform mid-way down the boardwalk another group is engaging in a bird watching experience for the first time in their life while a third group is meeting at the head of the boardwalk for a marsh ecology program. A fourth group could be meeting on the retained 30' of the existing boardwalk collecting and exploring live invertebrates before taking them back to our invertebrate lab for closer examination under a microscope.

The current proposed project, both retaining a portion of the existing boardwalk as well as the teaching platform on the new boardwalk, will significantly improve the experience that we can provide our students.

A simple graphic is provided for a quick visual reference for the requests.

Thank you for the consideration,

Arch Smith

State 4-H Leader / Director of 4-H

RECEIVED

SEP 04 20

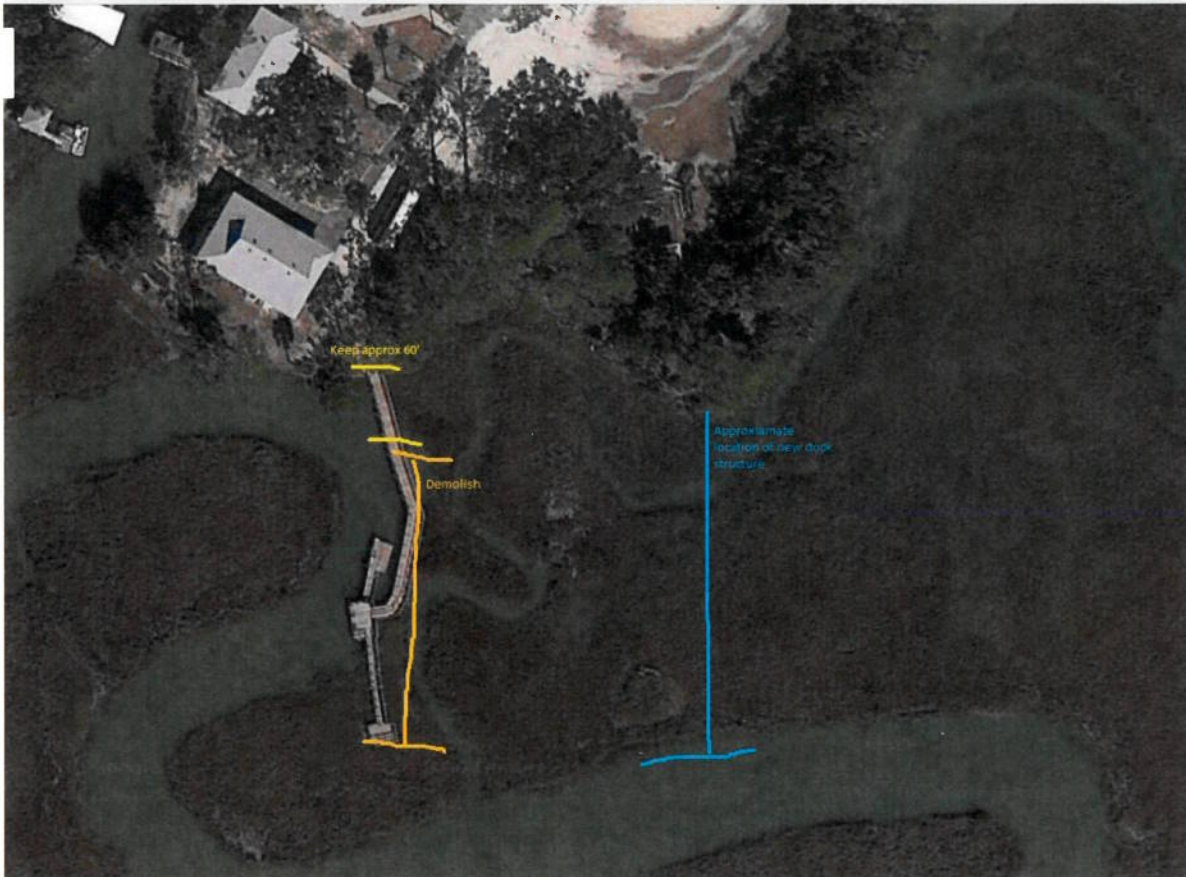
GA-DNR



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex
Athens, Georgia 30602
TEL 706-542-4444 | FAX 706-542-4373
asmith@uga.edu
www.georgia4h.org



RECEIVED

SEP 04 20

GA-DNR



6 June 2020

Georgia Department of Natural Resources
Coastal Resource Division
Attn: Mr. Sam Labarba
Sam.labarba@dnr.ga.gov

**Subject: Request for Letter of Permission
Tybee 4-H Dock
Chatham County, Georgia**

RLC# 19-098

Dear Mr. Labarba:

In a letter dated 5 November 2019, the Georgia Department of Natural Resources Coastal Resource Division (CRD) requested additional information to continue processing the Tybee 4-H Camp Dock Application. The following provides a response to each comment in the order outlined in the CRD letter.

The following is required prior to issuance of the public notice:

Comment 1. *A survey of the project area showing the CMPA jurisdiction line and verification letter;*

Response: See attached.

Comment 2. *Total impacts in CMPA jurisdiction and within the 50-foot marshlands buffer;*

Response: As depicted and noted on the attached exhibits, A total of 2,082 sf of structure will be located within CMPA jurisdiction including 1,872 sf of new structure and 210 sf of existing structure to remain. A total of 280 sf of wooden structure (walkway and observation deck) will be constructed with the 50' buffer.

Comment 3. *Property boundary plat showing all existing and proposed structures;*

Response: The permittee does not have a boundary plat or ALTA survey depicting all the structures for the property. We have attached an Ortho image depicting the property boundary and existing structures. Proposed structures are depicted on the permit drawings.

Comment 4. *Please address staffs comments on the attached drawing;*

Response: See attached revised drawings.

Comment 5. *A description and depiction of the upland component of the project;*

Response: The upland component of the project is defined as all those service areas, amenities and recreational areas located inland of the Coastal Marshlands Protection Act jurisdiction line, that serve or augment the functioning of the marshlands component of the project such as but not limited to dry stack boat storage, dock master shop, fuel storage and delivery facilities to serve the marshlands component of the project. As stated in the Coastal Marshlands Protection Rules, land disturbance and construction of structures within the 50-foot marshlands buffer in the upland component of the project shall be limited to the following: Construction and maintenance of permanent structures that are required for the functionality of and/or provide permanent access to the marshlands component for the project. As depicted on the attached exhibit, only the access walkway and observation deck construction will occur within the 50 foot buffer.

Comment 6. *A calculation of the effective impervious coverage of the upland component of the project;*

Response: 100% of the upland component will be pervious. No impervious surfaces are proposed. All walkway and observation deck will be pervious.

Comment 7. *A stormwater management plan for the upland component of the project;*

RECEIVED

JUN 09 2020

GA DNR

Response: As noted above, the dock access is the only activity within upland associated with this project. No changes to any of the existing facilities are proposed. For this reason, a storm water management plan is not required.

Comment 8. *A zoning letter from the appropriate department stating that the proposed project does not violate any zoning laws;*

Response: See attached.

Comment 9. *The proposed application is classified as a moderate structure application in relationship to the application fee schedule. Please provide \$250.00, such check or money order made payable to the Georgia Department of Natural Resources.*

Response: See attached.

Comment 10. *Policy Memorandum No. 2002-010 states that "During pre-construction planning and compliance inspections, a riparian owner shall be limited to one dock per lot. In the event University of Georgia, Burton 4H Page 2 of 2 that there is more than one existing dock per lot, none of the existing docks may be expanded until only one dock remains." Please revise your plan to adhere to this policy.*

Response: The Coastal Marshlands Act does not prohibit multiple structures. The property is operated by the University of Georgia as an educational facility and all existing and proposed structures (both non-marshland and marshland related) will be used to facilitate and optimize the coastal Georgia experience for the campers. For many of these Georgia youth, the Tybee 4-H camp is the only coastal experience afforded. See attached letter from the State Director of 4-H/4-H Leader.

Comment 11. *OCGA 12-5-288(a) states: If the project is not water related or dependent on waterfront access or can be satisfied by the use of an alternative nonmarshland site or by use of existing public facilities, a permit usually should not be granted pursuant to Code Section 12-5-286." Furthermore subparagraph (b) states: "The amount of marshlands to be altered must be minimum in size." It is the opinion of the Department that three fixed decks over vegetated marsh, two of which are not for water-dependent activities does not show an effort to minimize impacts to the marsh. Please provide a new alternatives analysis that addresses the non-water dependent components of the proposed project.*

Response: As previously stated, property is operated by the University of Georgia as an educational facility and all existing and proposed structures (both non-marshland and marshland related) will be used to facilitate and optimize the coastal Georgia experience for the campers. All proposed structures have been designed to provide access to the marsh for educational purposes. This would be similar to the walkway down at CRD headquarters that does not access the water. See attached aerial image.

Comment 12. *Ga. Comp. R. & Regs. r. 391-2-3-.02.(b)(2) states: Land disturbance and construction of structures within the 50-foot marshlands buffer in the upland component of the project shall be limited to the following: (i) Construction and maintenance of temporary structures necessary for construction of the marshlands component of the project; (ii) Construction and maintenance of permanent structures that are required for the functionality of and/or provide permanent access to the marshlands component of the project; and (iii) Planting and grading with vegetated materials within the marshlands buffer to enhance stormwater management, such as erosion and sediment control measures, and to allow pedestrian access for passive recreation. Please address how the proposed observation platform located partially within the 50-foot marshland buffer meets the criteria of the rule for the upland component.*

Response: The walkway and deck proposed in the buffer are required for the functionality of the 4-H camp. As depicted on the attached aerial, the 50' buffer at CRD Headquarters is used for boat storage, trailer storage, and vehicle storage as well as a general laydown area for a variety of equipment and supplies from time to time. Although the 4-H camp proposal is far less invasive and only proposing construction of a walkway and observation deck, the minimal buffer impact is required for this project is presumably the same as that of CRD, for functionality.

If you have any questions or require an additional information, please do not hesitate to contact us at (912) 443-5896.

Sincerely,



Alton Brown, Jr.
Principal
Resource & Land Consultants
Enclosures

cc: Mr. Chuck Cartwright – University of Georgia
Mr. Tom Havens – Coastal Civil Engineering



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex

Athens, Georgia 30602

TEL 706-542-4444 | FAX 706-542-4373

asmith@uga.edu

www.georgia4h.org

February 21, 2020

RE: Application for a Coastal Marshlands Protection Act for the Construction and Maintenance of an educational dock facility, 9 Lewis Avenue, Tybee Island, Horsepen Creek, Chatham County

This letter serves to provide clarification to and seek approval for a response to Policy Memorandum No. 2002-010 as stated in the 11/5/19 letter from the DNR Coastal Permit Coordinator, which states: "During pre-construction planning and compliance inspections, a riparian owner shall be limited to one dock per lot. In the event that there is more than one existing dock per lot, none of the existing docks may be expanded until only one dock remains."

The Burton 4-H Center currently maintains a 22 x 14 foot platform as well as a boardwalk/floating dock structure at the south end of the property giving students access to Horsepen Creek. Due to natural movement over time of the creek channel, the current application on file requests permission to build a new boardwalk and floating dock structure at a different location on Horsepen Creek. This relocation will prevent the further erosion of the support system of the current boardwalk and will also be less intrusive to the creek channel while still providing access to creek for educational purposes. Prior to the construction of this new structure, Burton 4-H Center will first remove the existing floating dock and the majority of the existing boardwalk, requesting to leave no more than 60 feet of boardwalk without direct water access. Once this demolition is completed, and upon all necessary approvals, Burton would proceed with the construction of the new dock.

Preserving the 22 x 14 foot overlook as well as a portion of the older boardwalk provides additional teaching stations for use by the nearly 8,000 visitors a year who come to Burton for youth development and educational programs. The programming at the Burton 4-H Center is centered upon marine science, so access to the marsh is an important aspect of the programming that provided.

A simple graphic is provided for a quick visual reference for the requests.

Thank you for the consideration,

Arch Smith

State 4-H Leader / Director of 4-H

RECEIVED

JUN 09 20

GA-DNR



UNIVERSITY OF GEORGIA
EXTENSION



Georgia 4-H
302 Hoke Smith Annex

Athens, Georgia 30602

TEL 706-542-4444 | FAX 706-542-4373

asmith@uga.edu

www.georgia4h.org



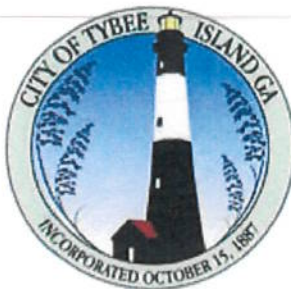
RECEIVED

JUN 08 20

GA-DNR

MAYOR
Shirley Sessions

CITY COUNCIL
Barry Brown, Mayor Pro Tem
John Branigin
Jay Burke
Nancy DeVetter
Monty Parks
Michael "Spec" Hosti



CITY MANAGER
Shawn Gillen

CITY CLERK
Janet LeViner

CITY ATTORNEY
Edward M. Hughes

CITY OF TYBEE ISLAND

May 18, 2020

Alton Brown
Resource and Land Consultants
41 Park of Commerce Way, Suite 101
Savannah, GA 31405

Re: GADNR CMPA Application
UGA Tybee 4-H Facility
Chatham County, GA

Dear Mr. Brown:

The property at 4 Lewis Ave. (PIN # 40015 01011) on Tybee Island is located in the E-C zoning district. The construction of a dock is allowed by right in this district. The construction of a dock would not conflict with any zoning laws in the City of Tybee Island.

Sincerely,

George Shaw
Community Development Director
gshaw@cityoftybee.org
912-472-5031

P.O. Box 2749 – 403 Butler Avenue, Tybee Island, Georgia 31328-2749
(866) 786-4573 – FAX (866) 786-5737
www.cityoftybee.org

RECEIVED

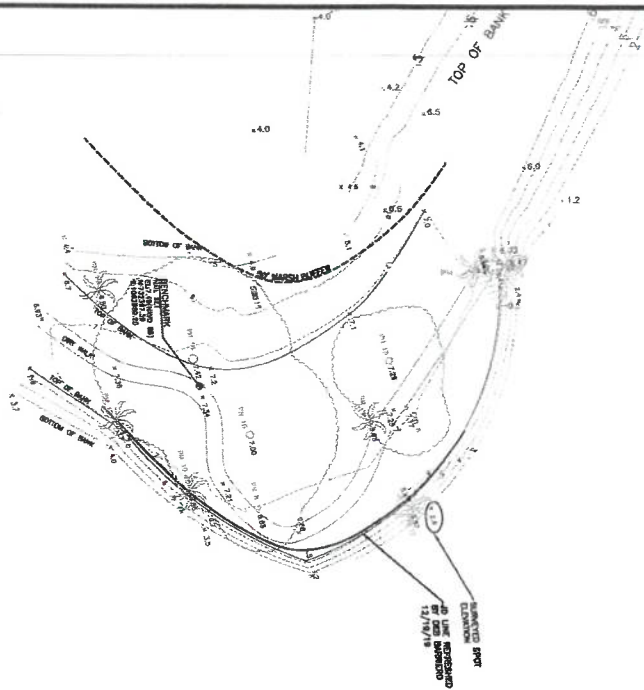
JUN 08 20

GA-DNR

ONLY ABOVEGROUND, READILY VISIBLE STRUCTURES AND UTILITIES WERE LOCATED FOR THIS SURVEY. THIS SURVEYOR MAKES NO WARRANTY OR GUARANTEE AS TO THE LOCATION, EXISTENCE, OR NON-EXISTENCE OF ANY BELOWGROUND, NON-VISIBLE UTILITIES OR STRUCTURES.

GA-DNR

OK
GAS



SALT MARSH



HORSE PEN CREEK

NO.	DATE	REVISION
1	4/13/20	UPDATES FOR PERMITTING
2		
3		
4		
5		
6		
7		
8		
9		
10		



STATE OF GEORGIA
DIVISION OF PROFESSIONAL REGULATION
REGISTERED PROFESSIONAL ENGINEER
NO. 11111
EXPIRATION DATE 12/31/2024



BURTON 4H CENTER - DOCK PROJECT
TYBEE ISLAND
CHATHAM COUNTY GEORGIA
EXISTING CONDITIONS



RECEIVED
JUN 09 20
GA-DNR

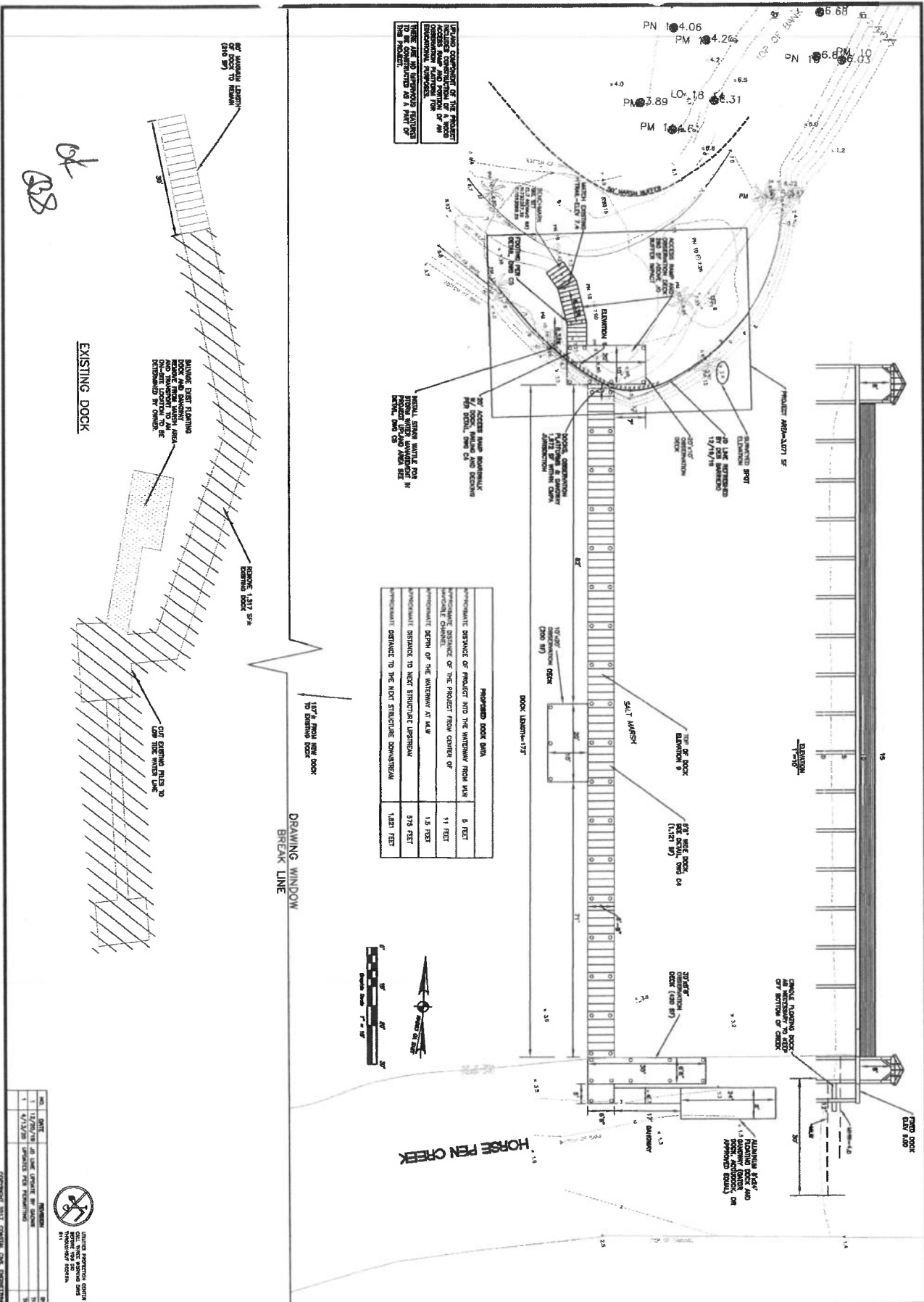
038
19



RECEIVED

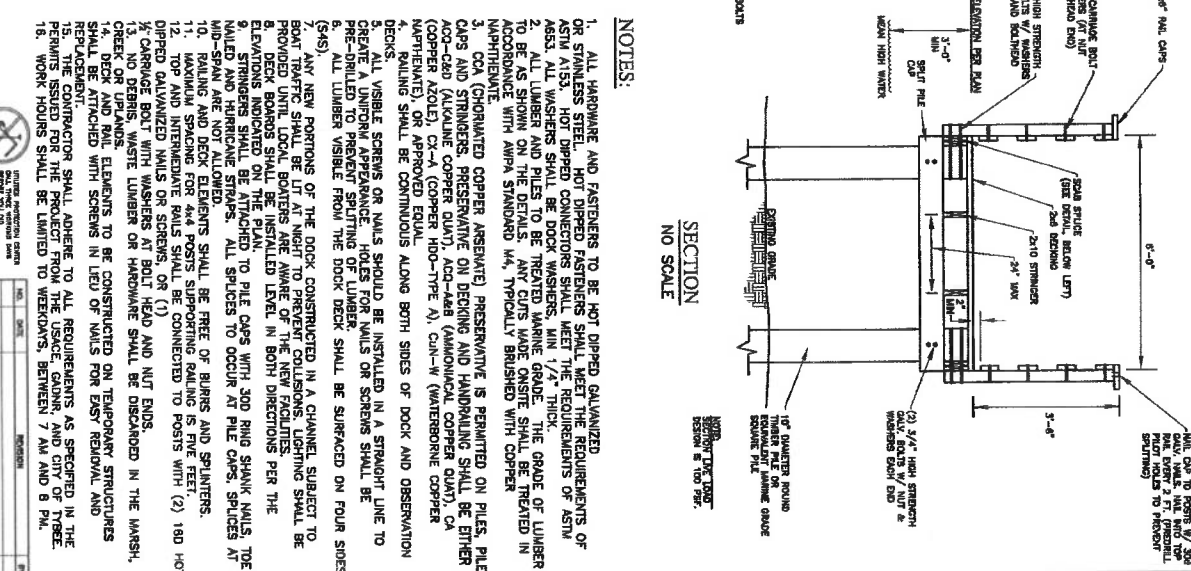
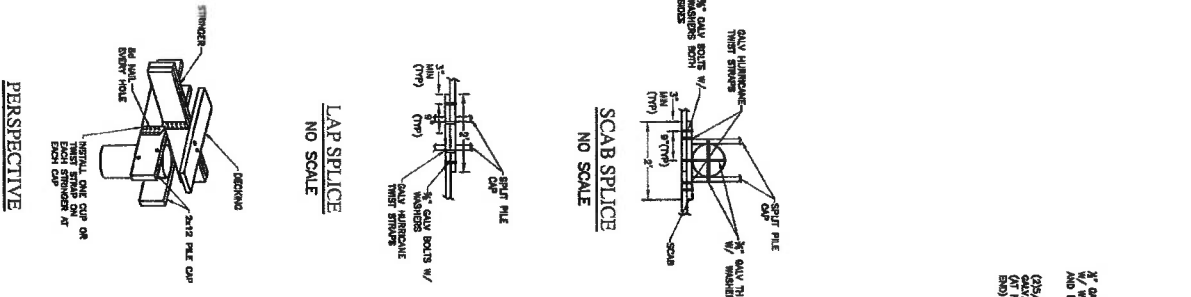
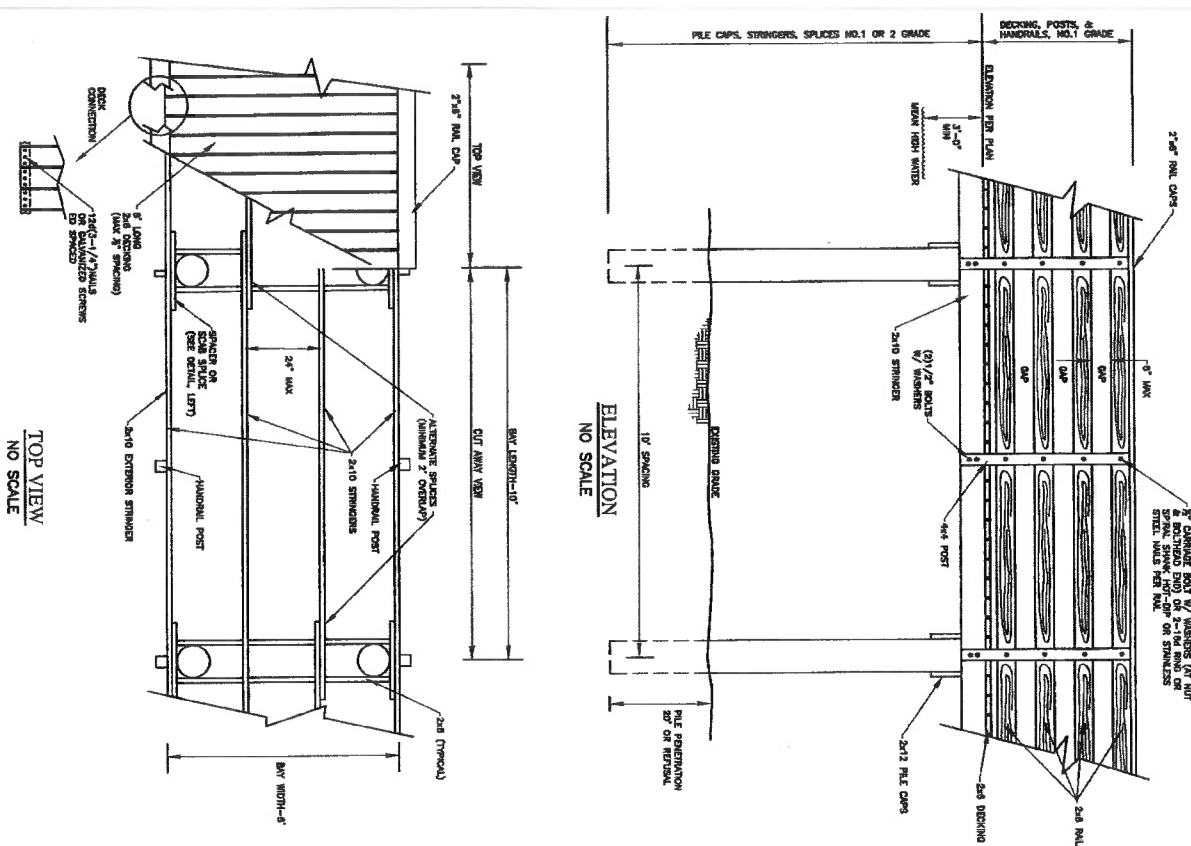
JUN 09 20

GA-DNR

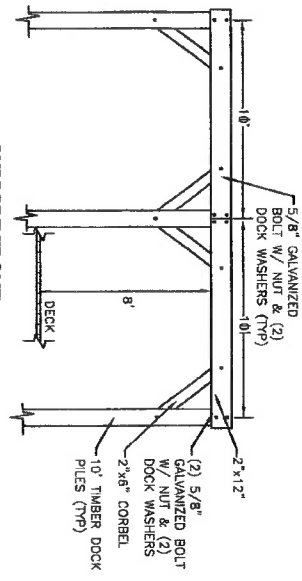


RECEIVED
JUN 09 20
GA-DNR

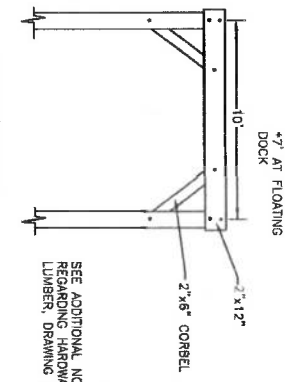
67
038



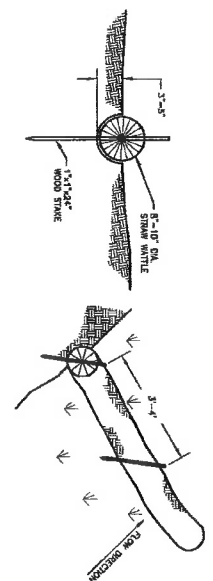
RECEIVED
JUN 09 20
GA-DNR



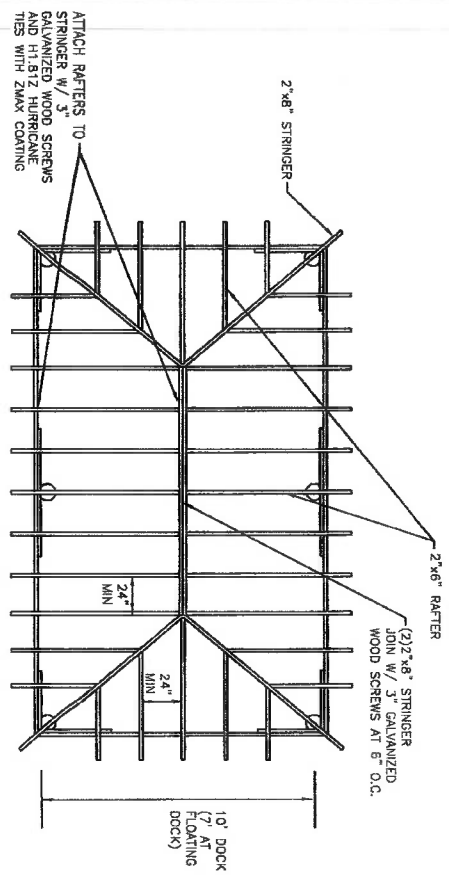
SUPPORT FRONT
NO SCALE



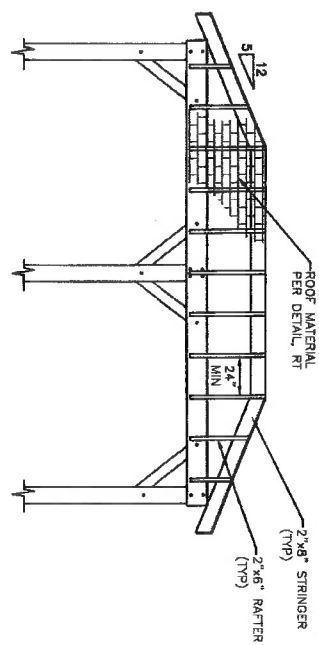
SUPPORT SIDE
NO SCALE



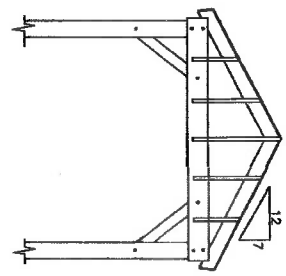
STRAW WATTLE
NO SCALE



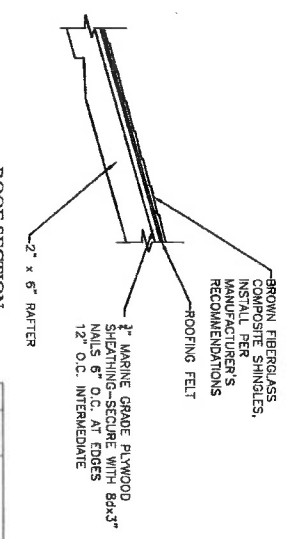
ROOF PLAN



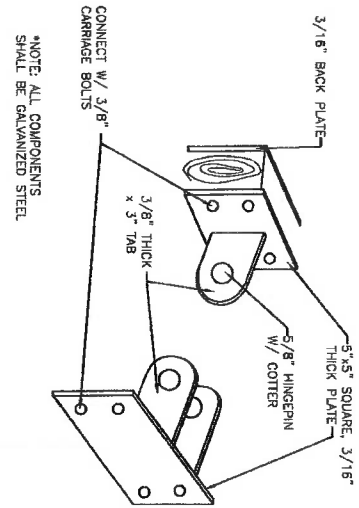
ROOF SIDE



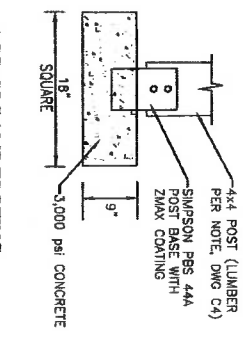
ROOF FRAMING PLAN
NO SCALE



ROOF SECTION
NO SCALE



GANGWAY CONNECTION AT PIER
NO SCALE



ACCESS RAMP FOOTING
NO SCALE

*NOTE: ALL COMPONENTS SHALL BE GALVANIZED STEEL

OK
GAS

REV	DATE	BY	CHKD	DESCRIPTION
1	4/13/20	UNIVERSITY	PER	REVISION
2				

DATE: 3/24/20
DRAWN BY: JH
CHECKED BY: TH
DESIGNED BY: TH
C6 OF C6

COASTAL
Civil Engineering
1000 1/2 Road 200
Chatham County, GA 30414
www.coastalcivil.com

BURTON 4H CENTER - DOCK PROJECT
TYBEE ISLAND
CHATHAM COUNTY
GEORGIA
MISCELLANEOUS DETAILS



RECEIVED
JUN 09 20
GA-DNR

Coastal Marina, Community or Commercial Dock Checklist

(fill in the blanks as indicated or answer yes or no)

LOCATION:

County Chatham
Municipality Tybee

Landmarks _____
Waterway Horsepen Creek

FACILITY:

Facility Type _____ Private _____ Public X Commercial _____ Other
Dock Space _____ Leased _____ Sold _____ Rented _____ Other

Size of Upland Area (sq. ft.) _____ Size of Submerged Area (sq. ft.) _____

WATERWAY INFORMATION:

open water _____ river _____ creek X basin _____

Tidal Range (ft. MLW) +/- 6 feet Water Depth (ft. MLW) +/- 4 feet
Channel Width (ft. MLW) +/- 30 feet Depth of Dredging (ft. MLW) N/A

Distance facility will extend into the waterway beyond MLW +/- 8 feet

EXISTING OR PLANNED SERVICES IN JURISDICTION:

_____ boat ramp	_____ hoist	_____ mobile lift	_____ vessel TV hookup
_____ railway	_____ fuel	_____ propeller repair	_____ electrical repair
_____ pump-out vessels	_____ hull repair	_____ engine repair	_____ vessel electric hookup
_____ boat building	_____ ship's store	_____ dockmaster's office	_____ fire protection
_____ restrooms	_____ showers	_____ restaurant	_____ laundromat
_____ hotel	_____ # of vehicle parking spaces		_____ # of trailer parking spaces

DREDGING/FILLING/ShORELINE STABILIZATION:

No Will dredging be required for the access channel?
No Will dredging be required for boat basin?
No Is filling proposed in tidal wetlands?
No Is filling proposed in open water?
No Will dredge disposal sites be required?
No Have future dredge disposal sites been identified?
N/A Have future dredge spoil sites been set aside with deeds or easements?
No Is shoreline stabilization proposed? If so, what type? _____
No Is the project in or near a US Army Corps of Engineers maintained channel or basin with an authorization depth of 12 feet or greater? (if so, contact the Corps of Engineers)

RECEIVED

JUL 26 2019

GADNR

HABITAT/WILDLIFE/CULTURAL RESOURCES: (contact GADNR Wildlife Resources Division, US Fish & Wildlife Service, GADNR Coastal Resources Division- Marine Fisheries, National Marine Fisheries Service OR GADNR Historic Resources)

No Is this site located near a wildlife refuge, wilderness area, special management area, or other area specifically located for the protection of fish and wildlife?
If yes, what is the distance? _____

Yes *Is this habitat identified as "essential fish habitat"?

No Are rare, threatened, endangered or otherwise designated unique or outstanding aquatic or terrestrial species or their habitats known to be present at or near the project site?

No Do oyster or clam beds occur in or near the project site or access channels?
If yes, what is the distance? _____ If yes, what is the acreage? _____

No *Is project site near active crabbing areas?

No *Is the project site in designated bait zones?

No Is the project site in or near an area of historic, archeological, or scenic value?
If yes, explain _____

* GA DNR Coastal Resources Division's Marine Fisheries staff can direct the applicant to appropriate source materials.

List of Sites on HSI by County

HSI ID	Site Name	Site County
10060	Southwire - Copper Division	Carroll
10061	Southwire - Wire & Cable Division	Carroll
10360	Douglas & Lomason Company	Carroll
10413	Muse Scrap Metals	Carroll
10604	Trent Tube Division	Carroll
10648	Carroll County / Carrollton SR 166 LF	Carroll
10780	Dixie/Candlewick Hurst Yarn Mill (Former)	Catoosa
10218	Union Camp Corp - DBA Thomas Treating	Charlton
10003	CSX Transportation - Savannah (Tremont Road)	Chatham
10018	Atlantic Wood Industries	Chatham
10045	Colonial Terminals, Plant #1	Chatham
10091	Travis Field/Savannah International Airport	Chatham
10095	Central of GA RR/Bernuth-Lembcke Site	Chatham
10098	Colonial Terminals, Plant #2	Chatham
10114	Union Camp Corp - Former Amoco Property	Chatham
10128	Atlanta Gas Light Company - Savannah MGP Site	Chatham
10162	Ashland Chemical Company	Chatham
10179	Deptford Tract Landfill	Chatham
10208	139 Brampton Road	Chatham
10241	Union Camp Corp - Allen Blvd Landfill	Chatham
10351	ARAMARK Uniform Services	Chatham
10371	Southern States Phosphate & Fertilizer Co.	Chatham
10372	Truman Parkway, Phase II	Chatham
10395	Hunter Army Airfield, Fire Training Area	Chatham
10406	McKenzie Tank Lines, Inc.	Chatham
10415	Savannah Electric - Plant Kraft	Chatham
10440	Blue Ribbon Dry Cleaners	Chatham
10464	Vopak Terminal Savannah	Chatham
10497	Savannah Dry Cleaners	Chatham
10521	Hunter Army Airfield - MCA Barracks	Chatham
10553	Georgia Air National Guard/Savannah/Site 8	Chatham
10579	Abercorn & Largo Development	Chatham
10590	Central of Georgia Railroad Company - Battlefield Park	Chatham
10591	Southern Motors of Savannah, Inc.	Chatham
10611	CSXT Depriest Signal Shop	Chatham
10641	Tronox (fka Kerr McGee Pigments, Inc.)	Chatham
10649	Chatham County Landfill	Chatham
10696	Hercules, Inc.	Chatham
10698	Norfolk Southern - Natrochem, Inc., Site	Chatham
10788	Southside Cleaners	Chatham
10789	Dry Clean, USA	Chatham
10849	Toto Distribution (Former)	Chatham
10867	Coastal Concrete, Inc.	Chatham
10903	Hunter Army Airfield/TCE Plume	Chatham
10905	CSXT Property on Feeley Avenue	Chatham
10919	2217 West Bay Street	Chatham
10454	Chattooga County - Penn Bridge Rd Ph 1 (SL)	Chattooga
10650	Cherokee County - Blalock Road Landfill	Cherokee
10014	Westinghouse Electric Corp	Clarke
10052	Georgia Power - Athens Foundry Street Property	Clarke

RECEIVED

JUL 26 2019

CARR

FREDERICK THOMAS SCHOLL
175 LEWIS AVE TYBEE ISLAND, GA 31328

AUDREY D RHANGOS
PO BOX 9848 SAVANNAH, GA 31412-0048

RECEIVED
.III 26 2019
GADNR



25 July 2019

Georgia Department of Natural Resources
Coastal Resources Division
Attn: Mr. Josh Noble
One Conservation Way
Brunswick, Georgia 31520-8687

**RE: CMPA Authorization Request
Burton 4-H Center Dock Construction
Chatham County, Georgia**

RLC#: 19-098

Dear Mr. Noble:

Resource & Land Consultants (RLC), on behalf of the University of Georgia, is submitting the attached information requesting Coastal Marshlands Permit Act authorization to facilitate construction of a new dock on the Tybee 4-H Camp property located at 4 Lewis Avenue, Tybee Island, Georgia (32.007422°, -80.851285°). For your review and use, the attached information includes the following:

- Permit Application Form & Project Description
- RLC Figures
- Construction Plans
- Hazardous Site Index
- Property Ownership Documentation
- List of Adjacent Property Owners

We greatly appreciate your assistance with this project. If you have any questions or require additional information, please do not hesitate to contact us at (912) 443-5896.

Sincerely,

Alton Brown, Jr.
Principal
Resource & Land Consultants

Enclosures

cc: Mr. Chuck Cartwright – University of Georgia
Mr. Tom Havens – Coastal Civil Engineering
Mr. Bill Rutlin - USACE



25 July 2019

US Army Corps of Engineers
Savannah District / Regulatory Division
Attention: CESAS-RD (William M. Rutlin, Coastal Branch Chief)
100 West Oglethorpe Avenue
Savannah, Georgia 31401-3640

**RE: USACE Permit Authorization Request
Burton 4-H Center Dock Construction
Chatham County, Georgia**

RLC#: 19-098

Dear Mr. Rutlin:

Resource & Land Consultants (RLC), on behalf of the University of Georgia, is submitting the attached information requesting authorization to facilitate construction of a new dock on the Tybee 4-H Camp property located at 4 Lewis Avenue, Tybee Island, Georgia (32.007422°, -80.851285°). For your review and use, the attached information includes the following:

- Permit Application Form & Project Description
- RLC Figures
- Construction Plans
- Hazardous Site Index
- Property Ownership Documentation
- List of Adjacent Property Owners

We greatly appreciate your assistance with this project. If you have any questions or require additional information, please do not hesitate to contact us at (912) 443-5896.

Sincerely,

Alton Brown, Jr.
Principal
Resource & Land Consultants

Enclosures

cc: Mr. Chuck Cartwright – University of Georgia
Mr. Tom Havens – Coastal Civil Engineering
Mr. Josh Noble – GADNR-CRD

RECEIVED

JUL 26 2019

GA DNR

Burton 4-H Center Dock Installation

Chatham County, Georgia

Project Description

July 2019

1.0 INTRODUCTION & BACKGROUND:

The University of Georgia (UGA) is proposing the installation of a new dock and removal of portions of the existing dock at the Burton 4-H Center located at 9 Lewis Avenue on Tybee Island, Georgia (32.007422°, -80.851285°). The Burton Center is one of six 4-H facilities across the state and administered by UGA Extension. This facility reaches more than 8,000 students and adults annually through Environmental Education and Summer Camp programs. The Environmental Education Program provides biological and environmental education opportunities for school groups, while Summer Camp provides Georgia 4-H agents and campers a 5-day learning adventure. The program offers hands-on learning experiences for all school types and grades, with a focus on local coastal ecosystems. Each year thousands of guests from all over the southeast learn about the natural world around them. The objectives of the Environmental Education Program are to:

- Develop an awareness, knowledge and appreciation for the natural environment.
- Cultivate curiosity, critical reasoning and evaluation skills.
- Develop positive relationships between students and their teachers.
- Make the school program more meaningful by applying knowledge and skills required in the classroom to real-life situations.
- Provide experiences in scientific processes, such as observing, measuring, classifying, etc.
- Develop self-confidence and physical fitness.
- Develop an appreciation for the local and natural history of an area.

Because access to the coastal environment is critical to the 4-H hands on experience, the existing dock has been an important component of the program. Guests, students and campers discuss general ecosystem functions as well as participate in experiences unique to the coastal marshlands environment from the boardwalk, decks and floats associated with the existing dock.

For over 30 years, the existing dock has satisfied the marsh and water access needs of the facility and this dock continues to meet the needs of the facility today. However, the dock is located within a bend in the creek and the channel continues to migrate east. Due to this channel migration, portions of the existing dock are now located within the deepest part of the channel and navigational issues for upstream residents is now a concern. To alleviate the navigation concern and to position the dock in a less dynamic location, the applicant has proposed to construct a new dock within the property.

2.0 PROJECT PURPOSE:

The purpose of the project is to construct a new dock at a location along Horse Pen Creek that will continue to meet the marsh and water access needs of the Burton 4-H Center educational and recreational program but that does not present erosional and navigational challenges associated with the current dock location.

3.0 PROPOSED PROJECT:

The proposed project includes construction of a wooden dock approximately 160 feet east of the existing dock and removal of the majority of the existing dock. The following provides a summary of the proposed structures associated with the project:

Proposed Dock: The first phase of the project will include construction of a new dock and as noted above, the new dock will be constructed approximately 160 east of the existing dock. This will enable the camp to operate from the existing dock while the new dock is under construction. The new dock will include the following:

- 10'x20' observation deck (200 square feet) at the marsh/upland interface. Approximately 44 square feet will be over coastal marshland.
- 6'8" x 168' wooden walkway (1119.8 square feet).
- Approximately halfway down the walkway a 10'x20' observation deck (200 square foot) will be constructed on the west side of the walkway for view and educational purposes.
- 30'x14' deck (420 square foot)



RECEIVED

JUL 26 2019

GADNR

- 6'8"x5' platform (33.3 square foot) with a 17'x 4' gangway (68 square foot)
- 8'x 24' floating dock (192 square foot)

The new dock will total 2199.8 square feet of which 2043.8 square feet will be over coastal marshlands. The new dock will extend 8 feet into the channel beyond MLW. The creek is approximately 30 feet wide at MLW and 55 feet wide from grass to grass at MHW.

Existing Dock: The existing dock currently totals approximately 1809 square feet and includes an 6'4" by 152'8" (966.3 square foot) walkway leading to the first 12'3" by 20' (247.2 square foot) deck and an 4' by 49'6" (198 square foot) walkway leading from the first deck to a 14'3" by 10'3" (146.1 square foot) second deck. A 3'6" by 24' (84 square foot) gangway provides access from the first deck to an 16'1" by 10'5" (167.4 square foot) float. With the exception of a 30' by 6'4" (189.9 square foot) section of existing walkway extending from upland into the marsh, the existing dock will be removed once new dock construction is completed. The section of walkway to remain will continue to be used for program education.

Between the new dock and the remaining section of existing walkway, the 4-H dock facilities will total 2233.7 square feet over coastal marshlands and will continue to provide environmental educational and recreational opportunities for students and campers.

3.1 Marshlands Component:

The marshlands component of the project is defined as the part of the project in an estuarine area or any structure on or over an estuarine area, including but not limited to marinas, community docks, bridges, piers and bulkheads, requiring a permit under the Coastal Marshlands Protection Act. The marshlands component of the project includes the proposed dock facility.

3.2 Upland Component:

The upland component of the project is defined as all those service areas, amenities and recreational areas located inland of the Coastal Marshlands Protection Act jurisdiction line, that serve or augment the functioning of the marshlands component of the project such as but not limited to dry stack boat storage, dock master shop, fuel storage and delivery facilities to serve the marshlands component of the project. As stated in the Coastal Marshlands Protection Rules, land disturbance and construction of structures within the 50-foot marshlands buffer in the upland component of the project shall be limited to the following: Construction and maintenance of permanent structures that are required for the functionality of and/or provide permanent access to the marshlands component for the project. No activities within the upland area are associated with the project beyond minimal clearing for pedestrian access. For this project, installation of pervious pedestrian dock access will occur within the 50 foot buffer and would be considered the upland component for the project.

3.3 Stormwater Management:

The proposed project does not include site development activities and development of a stormwater management plan is not required. The project will implement standard BMP's during the construction phase for sedimentation and erosion control purposes and to protect adjacent tidal waters and marsh.

4.0 ALTERNATIVES ANALYSIS:

The applicant reviewed several dock location alternatives and has proposed a location that requires the least amount of disturbance and minimal amount of dock square footage while achieving the overall project purpose. The first dock corridor proposed extended from the facility due east but due to ownership issues, this corridor was not feasible. Other corridors available within the UGA property would require longer boardwalks to provide access to the creek. Following review of each alternative, the applicant determined that the proposed location was the least damaging practicable alternative.

5.0 ESSENTIAL FISH HABITAT:

The proposed project includes installation of a wooden dock for recreation and educational purposes. The proposed project will not adversely affect essential fish habitat.

6.0 THREATENED AND ENDANGERED SPECIES:

RLC conducted a threatened and endangered species survey to determine the potential occurrence of animal and plants species (or their preferred habitats) currently listed as threatened or endangered by state and federal regulations [Federal Endangered Species Act of 1973 (16 USC 1531-1543)]. The U.S. Fish and Wildlife Service (USFWS) lists the following plant and animal species as endangered or threatened in Chatham County, Georgia:



RECEIVED

2 | Page

JUL 26 2019

GADNR

PLANTS

Pondberry (*Lindera melissifolia*)

MAMMALS

Humpback Whale (*Megaptera novaeanglie*)

Northern Atlantic Right Whale (*Eubalaena glacialis*)

Manatee (*Trichechus manatus*)

BIRDS

Bachman's Warbler (*Vermivora bachmanii*)

Bald Eagle (*Haliaeetus leucocephalus*)

Piping Plover (*Charadrius melodus*)

Red-Cockaded Woodpecker (*Picoides borealis*)

Wood Stork (*Mycteria americana*)

REPTILES

Eastern Indigo Snake (*Drymarchon corais couperi*)

Green Sea Turtle (*Chelonia mydas*)

Hawksbill Sea Turtle (*Eretmochelys imbricate*)

Kemp's Ridley Sea Turtle (*Lepidochelys kempii*)

Leatherback Sea Turtle (*Dermochelys coriacea*)

Loggerhead Sea Turtle (*Caretta caretta*)

AMPHIBIAN

Flatwoods Salamander (*Ambystoma cingulatum*)

FISH

Shortnose Sturgeon (*Acipenser brevirostrum*)

Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*)

Several protected species frequent coastal waters of Georgia, including the Northern Atlantic Right Whale, West Indian Manatee, five species of sea turtle, the Shortnose Sturgeon and the Atlantic Sturgeon. Based on the location of the proposed project, no adverse impacts to any individual or population of protected species is anticipated.

7.0 COMMERCIAL BAIT SHRIMP, OYSTER, AND CRABING AREAS

The proposed project is not located in a designated bait shrimp zone according to Georgia Department of Natural Resources *Commercial and Recreational Bait Shrimp Zones, Coastal Georgia* map. The project area is not listed on the *Georgia Harvester Reported Crabbing Areas* list, and the project area is not located in designated commercial or recreational oyster harvest areas.

8.0 IMPAIRED WATERS

The subject waterway is not listed on the U.S. Environmental Protection Agency 303(d) list for impaired water bodies.

9.0 SUPPLEMENTAL INFORMATION

This additional information is provided for compliance with Coastal Marshlands Protection Act of 1970 information requirements:

OCGA 12-5-286. Permits to fill, drain, etc., marshlands.

(b) Each application for such permit shall be, properly executed, filed with the department on forms as prescribed by the department, and shall include:

(1) *The name and address of the applicant-*

University of Georgia Environmental Safety Division
Attn: John McCollum
240A Riverbend Road
Athens, Georgia 30602
706-542-5801
mccollum@uga.edu

(2) *A plan or drawing showing the applicant's proposal and the manner or method by which such proposal shall be accomplished. Such plan shall identify the coastal marshlands affected- Please refer to attached construction plan.*



RECEIVED

3 | Page

JUL 26 2019

GADNR

- (3) *A plat of the area in which the proposed work will take place-* See attached.
- (4) *A copy of the deed or other instrument under which the applicant claims title to the property or, if the applicant is not the owner, then a copy of the deed or other instrument under which the owner claims title together with written permission from the owner to carry out the project on his land. In lieu of a deed or other instrument referred to in this paragraph, the committee may accept some other reasonable evidence of ownership of the property in question or other lawful authority to make use of the property; The committee will not adjudicate title disputes concerning the property which is the subject of the application; provided, however, the committee may decline to process an application when submitted documents show conflicting deeds-* See attached.
- (5) *A list of all adjoining landowners together with such owners' addresses, provided that if the names or addresses of adjoining landowners cannot be determined, the applicant shall file in lieu thereof a sworn affidavit that a diligent search, including, without limitation, a search of the records for the county tax assessor's office, has been made but that the applicant was not able to ascertain the names or addresses, as the case may be, of adjoining landowners-* See attached.
- (6) *A letter from the local governing authority of the political subdivision in which the property is located, stating that the applicant's proposal is not in violation of any zoning law;* Not applicable. The Board of regents property is not subject to any municipal zoning, include the City of Tybee.
- (7) *A non-refundable application fee to be set by the board in an amount necessary to defray the administrative cost of issuing such permit. Renewal fees shall be equal to application fees, which shall not exceed \$1,000.00 for any one proposal and shall be paid to the department.* See attached.
- (8) *A description from the applicant of alternative sites and why they are not feasible and a discussion of why the permit should be granted-* See attached project description.
- (9) *A statement from the applicant that he has made inquiry to the appropriate authorities that the proposed project is not over a landfill or hazardous waste site and that the site is otherwise suitable for the proposed project-* A review of the Hazardous Site Index for Chatham County, Georgia indicates that the subject property does not contain hazardous waste sites or landfills. A copy is attached.
- (10) *A copy of the water quality certification issued by the department if required for the proposed project-* Not applicable.
- (11) *Certification by the applicant of adherence to soil and erosion control responsibilities if required for the proposed project-* The project will conform to all building, land disturbing, and stormwater management requirements of Chatham County.
- (12) *Such additional information as is required by the committee to properly evaluate the application-* This application has been prepared with consideration for the interests of the general public of the State of Georgia as defined in OCGA 12-5-286(g):

OCGA 12-5-286. Permits to fill, drain, etc. marshlands.

- (g) *In passing upon the application for permit, the committee shall consider the public interest, which, for purposes of this part shall be deemed to be the following considerations:*
- (1) *Whether or not unreasonably harmful obstruction to or alteration of the natural flow of navigational water within the affected area will arise as a result of the proposal-* The proposed project will not alter natural flow of navigable waters or obstruct public navigation.
- (2) *Whether or not unreasonably harmful or increased erosion shoaling of channels, or stagnant areas of water will be created-* The proposed project will not increase erosion, shoaling of channels, or create stagnant areas of water.



RECEIVED
JUL 26 2019
GADNR

- (3) ***Whether or not the granting of a permit and the completion of the applicant's proposal will unreasonably interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, or wildlife, or other resources, including but not limited to water and oxygen supply-*** The proposed project will not interfere with the conservation of fish, shrimp, oysters, crabs, clams, or other marine life, wildlife, or other resources, nor affect water and oxygen supply.