



PUBLIC WORKS
& ENGINEERING

GLYNN COUNTY PUBLIC WORKS DEPARTMENT

4145 Norwich Street – Brunswick, Georgia 31520

Phone: (912) 554-7746 / Fax: (912) 267-5774

www.glynncounty.org

St. Simons Island Gateway St. Simons Island, Glynn County

PROJECT SUMMARY:

Glynn County Public Works will be performing maintenance on the outfall ditch on the west side of St. Simon Island and upstream from the tide gates at the Gateway of St. Simons (See attached site plan). There is currently a buildup of sediment in the ditch area that is critically reducing the effectiveness in the draining the upland areas. Our plan is to increase the area of flow by dredging the channel to reestablish the channel to a fully operational capacity. The removal of sediment from the project area will return the site back to the original design.

For Glynn County Public Works to perform this project, vegetation will be needed to be removed from the upland areas and within jurisdiction to access the project location (See attached site plan for work area locations). The total amount of vegetation could be up to 16,028 square feet if needed. The vegetation to be removed is broken down in table 1.

Table 1

Square feet of Vegetation to be Removed			
Project Area	Upland Component (sq. ft.)	Marshland Component (sq. ft.)	Total (sq. ft.)
1	7,340	5,964	13,304
2	452	400	852
3	614	60	674
4	1,138	60	1,198

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The equipment that will be used for this project will be a long boom excavator, dump trucks, a vaccon, construction matting and any other equipment as needed. All equipment will access the site from the upland area. We are estimating that the total amount of sediment removed from the project areas is approximately 235 cubic yards. The sediment to be removed is broken down by project area in table 2.

Table 2

Cubic Yards of Sediment Removed from Project Areas in the Marshland Component	
Project Area	Cubic Yards
1	187
2	38
3	5
4	5

The culverts will be cleaned out once the sediment is removed around the culverts. The total sediment removal from the 4 areas will be 235 cubic yards. All material removed from the site will be transported off site to Blythe Island Regional Park where it will be dewatered by overland flow.

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MARSHLAND COMPONENT OF PROJECT

There are two 36" RCP pipes located underneath Demere Rd, two 36" RCP pipes located underneath Sea Island Rd, one 24" RCP pipe located underneath the causeway onramp, and one 48" Box culvert with tide gates to the south. The 24" RCP pipe appears to be the only source of tidal influence to this area. The total volume of sediment that will be removed will be 235 cubic yards. The square yardage for the project areas within the marshland component are given in table 3.

Table 3

Square Yardage for Project Areas in the Marshland Component	
Project Area	Square Yards
1	871
2	44
3	7
4	7

The total square yardage of the 4 project areas in the marshland component is approximately 929 square yards. A total of 0.0898 acres will be permanently impacted within the marshland component which is broken down in table 4.

Table 4

Acres of the project areas in the marshland component that will be permanently impacted.	
Project Area	Acres
1	.0781
2	.0091
3	.0013
4	.0013

Any vegetation within the project areas shall be removed as needed. Any roots of the removed trees will remain. The future maintenance plan for this site will include removing sediment deposits down to the -1.23 ft. elevation, mobilizing in the upland area to maintain the site, and periodic inspections to ensure proper drainage flow.

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UPLAND COMPONENT OF THE PROJECT

Sea Island Road and Demere Road are all located in the upland area of the project. Sea Island Road is approximately 35 feet from the jurisdiction line. Demere Road is approximately 35 feet from the jurisdiction line. There will be temporary staging of equipment and debris outside of the jurisdiction line in project area 1 in the upland area. The square yardage for the project areas within the upland component are given in table 5.

Table 5

Square Yardage for Project Areas in the Upland Component	
Project Area	Square Yards
1	1,523.0
2	70.0
3	68.5
4	131.5

The total square yardage of the 4 project areas in the upland component is approximately 1793 square yards. Any vegetation within the project areas shall be removed as needed. Any roots of the removed trees will remain.

MARSHLAND BUFFER FOR UPLAND COMPONENT

The buffer area outside jurisdiction has trees and small bushes. All vegetation along the project area will be removed as needed. The buffer area will include the placement of erosion protection devices after the project is completed in accordance with the Georgia Storm water Management Manual. There are no planned permanent features to be placed in the buffer area; there are existing pedestrian facilities in the vicinity along the East side of Sea Island Road and on the North side of Demere East of Sea Island Road. The pre-existing impervious area in the upland buffer area is Sea Island Road, Demere Road and the off ramp from the Island. This roadway is asphalt and will not be impacted for this project.

STORMWATER MANAGEMENT PLAN FOR THE UPLAND COMPONENT

Once the project is completed, the naturally treated storm water will be able to flow freely through the ditch along west side of Sea Island Road, through the culvert beneath Demere Road continuing through the proposed cleared out outfall ditch where the water will temporarily build up and exit out of tide gates into the marshland. During a heavy rainfall event the tide gates will remain open due to the heavy flow of storm water. No stagnate water is anticipated with this design as water will be constantly flowing into the marshland, building up and exiting out of the tide gates.

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IMPERVIOUS SURFACE CALCULATION OF THE UPLAND COMPONENT

There are no changes to the impervious or pervious area calculations associated with this project. Those runoff calculations will remain constant.

DEED OR OTHER LEGAL INSTRUMENT

A copy of the deed and various plats are included in the application. A diligent search was conducted to acquire all relevant deeds and plats. A temporary right of entry form is also attached to the application giving Glynn County permission to perform the project on private property.

ADJOINING LAND OWNERS

Gascoign Commons
1000 Sea Island Road
Saint Simons Island, GA 31522

Glynn County
1031 Sea Island Road
Saint Simons Island, GA 31522

Glynn Brunswick Memorial
3000 Wellness Way
Saint Simons Island, GA 31522

Frederica Academy Inc.
200 Murray Way
Saint Simons Island, GA 31522

ALTERNATIVE ANALYSIS

An alternative analysis would be to entirely redesign the drainage system along Sea Island Road, creating an outfall to the Frederica River down Hamilton Road. This option is not suggested being that it would go against the natural flow of storm water, cause a greater impact to the environment and would be very costly to execute.

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LANDFILL OR HAZARDOUS WASTE STATEMENT

The Glynn County Engineer has been contacted and has verified that this site is not over a landfill or hazardous waste site.

EROSION AND SEDIMENTATION STATEMENT

This project will be conducted in compliance with applicable erosion and sediment control responsibilities.

PUBLIC INTEREST STATEMENT

- a) This project is within the public drainage interests. There will be no harmful obstructions to or alterations of the natural flow of navigational water within the affected area.
- b) There will be no harmful or increased erosion, shoaling of channels, or stagnant areas resulting from this project.
- c) This project proposal will not interfere with conservation of fish, shrimp, oysters, crabs, clams, or other marine life, wildlife, or other resources, including but not limited to water and oxygen supply.

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COMMUNITY DEVELOPMENT DEPARTMENT

1725 Reynolds Street, Second Floor, Brunswick, GA 31520

May, 15 2017

Mrs. Skye Stockel
Permit Coordinator
GA DNR/Coastal Resources Division
1 Conservation Way
Brunswick, GA 31520

Re: Zoning Certification for St. Simons Island Gateway Ditch Maintenance

Dear Mrs. Stockel,

The St. Simons Island Gateway Ditch Maintenance project is located at 1000 Sea Island Road in Glynn County and has no current zoning because it is in Glynn County Right of Way. The proposed project does not violate Glynn County's Zoning Ordinance.

If you have any questions please call 912-554-7428

Sincerely,

Pamela Thompson
Director of Community Development



PREPARED BY:
GLYN COUNTY PUBLIC WORKS
415 NORTWICH STREET - BRUNSWICK, GEORGIA 31520
PHONE: (912) 554-7766 / FAX: (888) 558-1549
WWW.GLYNNCOUNTY.ORG



SAINT SIMONS ISLAND
GATEWAY DITCH MAINTENANCE
SITE PLAN
GLYNN COUNTY, GEORGIA

DATE: 12 APR. 17
SCALE: 1:40
DESIGN BY: PJ
DRAWN BY: PJ
REVIEWED BY:

GA DNR

MAY 22 2017
STEEL | DEPT.

Pamela Thompson
Director of Community Development

NOTE: SEE CROSS-SECTION
VIEWS ON SHEET 2 OF 3

**Total Saltmarsh
Impacts: 0.0898 AC.**



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Dodson, Jordan

From: Anthony Vicent <avicent@glynncounty-ga.gov>
Sent: Monday, June 18, 2018 11:12 AM
To: Dodson, Jordan
Cc: Andrews, Jill; Noble, Josh; Ben Pierce
Subject: RE: Gateway CMPA Project
Attachments: Gateway Elevations.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning Jordan,

I have attached elevations for the area as requested. The 24" RCP (located west of work area 1) that is referenced in the previous email does not have a tide gate installed with it. We do not anticipate any change in this area due to the majority of the water flowing through the redefined ditch and towards the 48" box culvert all within work area 1. There is a tide gate located at the 48" box culvert. The reestablished flowline towards the 48" box culvert will handle the majority of the water due to its lower elevations and higher capacity than the flowline the leads towards the 24" RCP. If sediment were to build up in front of the 48" box culvert again, we would be able to perform the needed maintenance under this revocable license.

If you have any others concerns regarding this project, we will be more than happy to schedule a meeting or conference call.

Sincerely,

Tony Vicent, EIT
Engineer I
Glynn County Public Works
4145 Norwich St. Brunswick, GA. 31520
912-554-7742 Office

From: Dodson, Jordan [mailto:jordan.dodson@dnr.ga.gov]
Sent: Wednesday, June 13, 2018 8:20 AM
To: Anthony Vicent
Cc: Andrews, Jill; Noble, Josh
Subject: Gateway CMPA Project

Good Morning Tony,

Upon review of the Public Notice draft by upper management, the Department has a few additional questions concerning the existing conditions of the tidegate area southwest of the ramp leading to Torras causeway and the secondary impacts of the proposed project to this area. Please provide the existing elevations for the area around this tidegate to provide a better understanding of the existing conditions that may be impacted by the proposed project.

Also, what would be the effect on the elevations in this area, if the proposed project was completed? Based on the information provided, once the project is completed, what would prevent the sediment that flows from the upstream project area 1 through the 24" RCP pipe from causing higher elevations around the tidegate and consequentially causing a buildup of sediment at this tidegate and result in potential pooling of stagnant water in project area 1?

Once this information has been provided, the Department will continue working towards the Public Notice process for this project. If you have any questions, please let me know.

Sincerely,

Jordan Dodson

Coastal Permit Coordinator

Coastal Resources Division

(912) 262-3109 | M: (912) 266-0642

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File: CMP20150038



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