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THE STATE OF SOUTH CAROLINA

IN THE COURT OF APPEALS

APPEAL FROM BEAUFORT COUNTY
Court of Common Pleas

The Honorable Carmen T. Mullen, Circuit Court Judge
Circuit Court Case No. 2022-CP-07-01978

Appellate Case No. 2025-000615

Broad Creek Development, LLC,

Appellant,

v.

Beaufort County,

Respondent.

RECORD ON APPEAL
VOLUME 5 (Pages 1484-1769)

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IN THE COURT OF COMMON PLEAS
FOR THE STATE OF SOUTH CAROLINA
BEAUFORT COUNTY

30(b)(6) DEPOSITION OF BEAUFORT COUNTY
HENRY "HANK" AMUNDSON
VOLUME 3

TMS: R552 010 000 0648 0000
R552 010 000 0649 0000

BROAD CREEK DEVELOPMENT, LLC,

Plaintiff/Landowner,

vs.

Case No. 2022-CP-07-01978

BEAUFORT COUNTY,

Defendant/Condemnor.

DEPONENT: HENRY "HANK" AMUNDSON
DATE: September 24, 2024
TIME: 10:03 a.m.
LOCATION: VIA VIDEOCONFERENCE
REPORTED BY: JESSICA BOLANOS
CLARK BOLEN
PO Box 12189
Charleston, SC 29405
843-762-6294
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A P P E A R A N C E S

(All appearances via videoconference)

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REQUESTS

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HENRY "HANK" AMUNDSON,
having been first duly sworn, was examined and testified as follows:
EXAMINATION
BY MR. BYBEE:
Q. Good morning, Hank. How are you?
A. Pretty well. How are you today?
Q. Good. This is a continuation of a deposition we took a couple of weeks ago of you. The same rules apply. The basic rule is that if you don't understand a question, you tell me, and I'll rephrase the question. Is that understood?
A. Yes.
Q. And if you need to take a break, you can have a break any time, and that is offered to all the participants in this deposition. Is that understood?
A. Yes.
Q. And if you have -- if we take breaks, you can't talk with Mr. Murphy or Ms. Ward relative to your testimony. Do you understand that?
A. Yes.
Q. And so the first question I have for you is whether -- what you did to prepare for this

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deposition?
A. I've went to work every day since the last time we spoke.
Q. Okay. Did you look at any documents since the last deposition?
A. I looked at, I think, some -- you guys sent some plans. So I looked back at those plans that I was aware of for the Helmsman Way area.
Q. Aside from the plan document review, did you do anything else?
A. No.
Q. I wanted to ask a few questions about the -- your participation in searches for documents. Have you had any contact with the IT people for Beaufort County since the last time we took this deposition?
A. I work with IT. But relative to this case? No.
Q. Yes, relative to this case.
A. No.
Q. Did they talk to you about searching your emails?
A. I believe that they searched my emails. I don't know. I didn't search my emails.
Q. Okay. And did you talk to

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anybody -- I've asked you about looking at documents. Have you talked to anybody in an effort to prepare for this deposition?
A. No, except for just to wonder what you might -- I mean, I've just been wondering what you might ask because we spoke so long last time.
Q. Yep. Well, we'll get there.
Let me ask one other preliminary question: How do you organize your files relative to this project?
A. I do -- I just search by keywords.
Q. When you say search, you're searching emails?
A. Emails.
Q. Do you not keep computer files?
A. Oh, there are files, absolutely. Those are in organized files for ferry embarkations.
Q. And is that the heading, the title is ferry embarkations?
A. You want me to look at it?
Q. Yes.
A. Yes, ferry embarkation.
Q. And all of the documents that you would have ever seen in the file are somewhere in there?

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A. Somewhere in that ferry file. There's ferry, ferry embarkation, ferry operation.
Q. Do you know whether the IT people searched those files when they searched the documents?
A. I would assume so. I do not know that. I can't confirm that bit. It's on the public network. It's not on my hard computer.
Q. Okay. That's helpful.
MR. BYBEE: All right. Madam Court Reporter, you've got Exhibit 1. Can you pull that up for the witness, please? And let's scroll to the page with the list of topics.
(Exhibit 1 marked for identification.)
Q. Mr. Amundson, look at the topics that are displayed.
A. Yes, I'm familiar with those topics.
Q. Have you seen these topics?
A. I've seen this piece of paper right there, yes.
Q. And you're prepared to testify with respect to topics one through five?
A. As much as possible, yes, sir.
Q. Thank you.

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MR. BYBEE: Madam Court Reporter, the next exhibit is 2, please.
(Exhibit 2 marked for identification.)
Q. Mr. Amundson, this is a letter dated December 15, 2023, to Adam Martin --
A. Yes.
Q. -- at Haig Point from John Robinson, the interim County administrator, and you were copied on it. Do you recall this?
A. Yes.
Q. What was the purpose of this letter?
A. To comply with the court order to get out of Buckingham.
Q. And the re line indicates that it's notification of an embarkation site change from Buckingham to CC Haigh Junior Landing --
A. Right.
Q. -- on January 1, 2024?
A. Yes.
Q. So this was official notice to Haig Point relative to that --
A. Yes.
Q. -- decision?
A. This is -- as you can see, that's a

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pretty short notice.
Q. And in the second paragraph --
MR. TYBEE: Madam Court Reporter, if you would scroll down just a bit, please.
Q. It says, As you're aware, the County has been working to move the ferry embarkation to the Cross Island landing area on Helmsman Way?
A. Yes.
Q. Then I'm going to just skip some sentences, but here we go. The County has determined that the new site for embarkation and disembarkation for commercial ferry services for Daufuskie Island will be on Pinckney Island beginning no later than January 1, 2024.
A. Mm-hmm.
Q. Is that decision still in force?
A. It operates there today, yes, sir.
Q. And is there any intention to return to Buckingham?
A. Oh, we're not allowed to return to Buckingham. The goal would be to go to Helmsman Way.
Q. But at this point in time there's no intention to go back to Buckingham?
A. No.

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Q. And is there any intention to go back to Broad Creek's property on Helmsman Way?
A. Yes. That's what this -- yes, that's what this states, and that's still what we're working towards.
Q. And do you have any estimate as to when you may be able to return to the location of Broad Creek?
A. No. I have no estimate for that because without the property that we discussed here today that Broad Creek Development owns, it's not a possibility to operate the ferry there.
Q. Okay. And we've already discussed you would have problems actually establishing a dock at that location, correct?
A. No, not with the condemn -- not if we had properly condemned the property we condemned.
Q. Have you got an OCRM permit or a --
A. No, we do not because we cannot apply for a permit without -- you can't apply for hypothetical permits.
Q. And where did you -- where did you get that understanding?
A. When we applied for our OCRM permit for the improvements at the Cross Island boat landing

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that actually can hold the ferry.
Q. So it's your understanding that you could not apply or even investigate a likelihood of a permit being issued?
A. Oh, we discussed the likelihood of there being a permit issued if we could acquire there at Cross. But you can't apply for a hypothetical -- you can't make an application.
Q. And what was the outcome of you getting a permit at the Broad Creek location for a dock, a commercial dock?
A. Well, it's a -- that it was possible but not -- but nobody could -- I mean, it's not confirmed. Nobody could -- like I said, nothing is confirmed until there's an application and an award. So --
Q. Understood. But did you undertake and get an opinion from some consultant that you could actually get a dock permit at that location?
A. Not to official permit level.
Q. I'm not asking from an OCRM blessing. I'm asking whether you consulted with any professional to determine whether you could get a dock permit?

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A. Yes, when we were in discussion for phase one, which you have the plans for, which is on the Cross Island and DOT property in and around that bridge, we discussed the possibility of a phase two, which would be to put the dock on the other side of that bridge.
Q. And did you have any professional advise that that phase two application with OCRM would be approved?
A. They would not say that it would be approved because that would be approval, but they said that it looked like a good possibility.
Q. And who was the --
A. They were together with Duncan O'Quinn, Steve Andrews, which is now Davis & Floyd and OCRM Blair Williams.
MR. BYBEE: Next exhibit, Madam Court Reporter.
(Exhibit 3 marked for identification.)
Q. Mr. Amundson, I'm displaying to you a copy of a news article in the Post and Courier on June 29, 2024. In that article, it refers to memorandums of agreement with Beaufort County and South Carolina Department of Transportation and

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also municipal consent from the Town of Hilton Head. Have you looked, seen, are you aware of such memorandums or agreement with DOT and/or the Town of Hilton Head?
A. The only one I would know of would be with the Town of Hilton Head, and that has not been signed.
Q. Okay. I have that. I'm going to show it to you later.
Have you ever seen a memorandum of agreement with the Department of Transportation?
A. No.
Q. So on the US-278 corridor project, to your knowledge, Beaufort County has not entered into such an agreement with the Department of Transportation?
A. To my knowledge, you're correct.
Q. Anybody else within Beaufort County who would have better knowledge than you?
A. Jared Fralix.
MR. BYBEE: Madam Court Reporter, would you go to Exhibit 4, please.
(Exhibit 4 marked for identification.)
Q. Do you recognize this document,

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Mr. Amundson?
MR. BYBEE: You may need to scroll for him, Madam Court Reporter.
A. No, I see it. I haven't held the physical document, but I'm aware of this.
Q. Okay. So this is a resolution from the Town of Hilton Head.
A. Mm-hmm.
Q. It has attached to it a memorandum of agreement concerning the William Hilton Parkway Gateway Corridor Project, which is an acronym or substitute for the 278 project, correct?
A. Yes, sir.
MR. BYBEE: And then if we flip through to page 6, Madam Court Reporter.
Q. You see that page there, Hank?
A. Yes. Which part of it?
Q. Well, the beginning of it is a preface, a preamble that says, Now, therefore?
A. Right.
Q. And this sets out how the County and the Town are intending to agree concerning that project; is that correct?
A. That's what the Town proposed, yes.
Q. And the document has yet to be signed by

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the County. Is that my understanding?
A. That is my understanding.
Q. And do you know -- can you tell me why it has yet to be signed?
A. I do not know. Like I said, this was sent by the Town without negotiation prior to sending it. And I think the County's reviewing it for agreement or negotiation purposes.
Q. This is --
MR. BYBEE: Would you go to the last page, Madam Court Reporter?
Q. So the signature is blank for Beaufort County, correct?
A. Yes.
Q. And to your knowledge, it's not been executed?
A. To my knowledge, it has not been executed.
Q. It's been in Beaufort County's possession at least since June; is that correct?
A. If that's what the date on the document is, yes.
Q. And can you tell me why it has not been executed?
A. Doesn't appear that there's agreement.

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Q. And what is there disagreement about?
A. I don't know that.
Q. Who does know that?
A. Jared Fralix.
Q. Have you spoken to Mr. Fralix about those disagreements?
A. No, I have not.
Q. Would any of your file contents contain a summary or an explanation about what you have disagreement about with respect to the Town's proposed agreement?
A. Not that I know of.
Q. Okay.
MR. BYBEE: Madam Court Reporter, would you then now go to Exhibit 5?
(Exhibit 5 marked for identification.)
Q. Have you seen this document before, Mr. Amundson?
A. I believe so. This was what was filed. Let me read through it for a second.
Q. All right. The very first page reflects that it was filed by Mr. Fralix; is that correct?
A. Yes. For the Cross Island, yep.
Q. And this is for the project address of

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68 Helmsman Way, correct?
A. Yes.
Q. And you see his signature at the bottom of the page?
A. I can't see it yet, but I'm --
MR. BYBEE: Scroll down, please, ma'am for him.
A. That's his signature, yes.
Q. And I only have a question -- it's in a multipage document, and I only have a question about the parking plan.
A. Yes, sir.
MR. BYBEE: Madam Court Reporter, we sent to you an Exhibit 5A, which is just the parking plan alone.
(Exhibit 5A marked for identification.)
Q. You see the screen, Mr. Amundson?
A. Yes.
Q. Are you familiar with this parking plan?
A. I believe so. I remember it being attached to it, yes.
Q. And --
A. Let me get my other glasses. Hold on.
Q. Yep.

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A. All right. Yep.
Q. And the first paragraph, I'm just going to publish it. It says, The proposed project consists of construction of an 1,800-square foot pavilion that will house a restroom and ticket sales area for the Daufuskie Ferry. The site is currently used as a boat landing with 36 trailers and 10 vehicle-only spaces. It is assumed that the boat landing is sufficiently parked. Additional parking is proposed to support the added use of the property as a ferry embarkation point and to not impact the existing spaces located on-site.
And then it says, Typical day of the parking needs of the Daufuskie Ferry is represented in the table below. Did I read all of that correctly?
A. I believe so.
Q. Is that factually accurate?
A. No, those numbers aren't even close to what would be needed for a ferry.
Q. Let me ask you why -- you engaged Davis & Floyd to make the application, and you're telling me that Davis & Floyd's calculations and estimates are not correct?

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A. My memory is that we proposed offsite parking to supplement this, and this would be for residents, I believe. But that's my memory of it.
Q. Well, looking at it, I saw no additional submission to this package. And this is the only parking plan I've ever seen. You say there's another one?
A. No, I'm not sure if it was in discussion or if it was ever written down, but that was the plan, was to still do the park and ride as we did in Buckingham.
Q. So the -- does the document from Davis & Floyd reflect a present need?
A. Oh, I can tell you right now that at Pinckney Island you would probably have 150 to 200 cars parked there.
Q. Listen. That's not my question. This is relative to the Cross Island Ferry and the calculations that your consultant, Davis & Floyd, has put together for this application. I'm asking is that for the current needs as opposed to the future needs?
A. That appears to be incorrectly proposed for the current needs. But I'm not an engineer,

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so I'm not here to refute them, so it would be current.
Q. So my interpretation is that this is their representation of the current needs. Are we in agreement on that?
A. I don't see anything talking about future in this document. So --
Q. No, sir, I don't either. But let's focus on the document. Look at the box, and then you will see that the Daufuskie Ferry Embarkation Parking Needs Analysis reflects both passengers arriving by vehicle and passengers arriving on the ferry.
A. Okay.
Q. And then they make extrapolations therefrom based on exhibiting data. Is that not correct?
A. I mean, I would contest that they're wrong.
Q. Okay. I understand that. But as far as interpreting the document, what they say is that they've looked at your contracts with your ferry provider, they've calculated the number of passengers arriving from both ways, and then they've made an estimate of the present need for

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the dock. Is that not correct?
MR. MURPHY: Object to the form.
A. I mean, I would say -- I would say that they have obviously made an estimate based on something, but this is not even close to reality.
Q. Do you have another consultant that's going to --
A. No. I can tell you just by real world that even if just 20 people show up and 20 people leave, the same people don't show up and leave, and some people only go once a week, so there's hundreds of cars in the parking lot.
Q. So let's go to the --
MR. BYBEE: Would you scroll down, Madam Court Reporter, just a bit.
Q. The concluding paragraph indicates, At any one time, it is estimated that the maximum number of spaces used on a typical day would be 60 spaces for ferry passengers. This accounts for overlap in passengers who are waiting to depart. You can also see that it is estimated that five spaces will be necessary for staff to operate the ferry, resulting in a need for approximately 65 spaces. A total of 68 new vehicle spaces are proposed.

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A. On that site, yes.
Q. And does that reflect the present need at that site?
A. Not correctly.
Q. And --
MR. MURPHY: Object to the form.
Q. -- what is the -- what data do you have or projections of passengers do you have from another professional that would indicate that this is incorrect?
A. I don't have -- I -- because I know how many cars are in the parking lot right now, and it's never below 60.
Q. Mr. Amundson, this question that I'm asking about is whether you have another professional such as Davis & Floyd that has provided you with different estimates as to present day need?
A. No, not that I know of.
Q. All right. And now do you have another estimate from Davis & Floyd with respect to future needs?
A. Not that I know of.
Q. Okay. So can we at least agree that at the time you submitted this application that this

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was the need that was determined to be presently necessary?
MR. MURPHY: Object to the form.
A. I can't agree with that.
Q. I didn't ask you to agree with it. Is that not what the document reflects?
A. The document says that incorrectly.
Q. And you cannot point to me a different engineer or professional consultant document to demonstrate any other present need or future need, can you?
A. Well, I can tell you this is why the -- I think the Town turned this down as insufficient, which is why it didn't work. But I don't have any professional that would sign and stamp a piece of paper. I don't have a stamped piece of paper with different data. I just have a parking lot full of people that's never been less than this number.
MR. BYBEE: All right. Madam Court Reporter, the next exhibit is Exhibit 6.
(Exhibit 6 marked for identification.)
MR. BYBEE: Apparently that document's taking a while to load.

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Chris?
MR. MURPHY: Yeah.
MR. BYBEE: All right. What this document is are the plans that back up the application on Exhibit 5.
MR. MURPHY: Yep.
MR. BYBEE: And I'm just identifying -- I just want him to identify it for the record. We can sit here and wait for it to populate the plans, or we can just agree to mark it as Exhibit 6 and move on.
MR. MURPHY: Yeah, let's mark it. And this is part of the fourth request to admit I think you sent.
MR. BYBEE: It could be. Yes, yes, yes.
MR. MURPHY: Yeah, so I mean -- and we're admitting that. So --
MR. BYBEE: Okay. Madam Court Reporter, if you would direct your attention or put on the screen Exhibit 7.
(Exhibit 7 marked for identification.)
Q. Do you recognize Exhibit 7, Mr. Amundson?

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A. I believe so. This was the replies with comments.
Q. And the replies with comments are self-explanatory, are they not?
A. One second. Let's see.
Q. It's got 25 things that are -- that you need to do in order to pursue that permission with the Town, correct?
A. Looks like it, yes.
Q. And I think you just a minute ago referred to this document in explanation of what the Davis & Floyd parking plan was; is that correct?
A. I'm not sure. That's a pretty unclear question. Can you say that again?
Q. If I understood the last response where we were talking about the Davis & Floyd parking plan, you indicated that that plan was rejected because -- by the Town?
A. Yes.
Q. And --
A. That's my --
Q. -- is this the document you were referring to?
A. Well, let's scroll down through it real quick and let's refresh my memory.

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Q. Yes, sir.
A. You see in number four where it talks about offsite parking?
Q. Yes.
A. That's one thing. Okay. I agree.
Q. Let's stick with that number four for just a second because it reflects we've noted that an agreement is under review with the DOT. Is that review still under -- being undertaken?
A. No. We've got an easement to park in and around the bridge.
Q. And that's for how many parking spots?
A. That's how we got those 68 spots in there.
Q. Okay. Then the next paragraph you find relevant?
A. Let's see. You mean number five, the encroachment permit approvals?
Q. Yes. Is that not an outstanding item?
A. Yes.
Q. And that's part of the problem, that it was --
A. No, that's not true. We actually got OCRM permit for the dock and all -- and I believe we got all the permits in place from everyone, and DOT gave us the encroachment permit to put everything under there.

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Q. Okay. But has any of that data been submitted to the Town in furtherance of this request?
A. I believe so, but I wouldn't have been the one to send it, I don't believe.
Q. And who would that have been?
A. Probably Jared or delivered by the contractor who delivered that permit for Jared, I believe.
Q. And do you know the status of that delivery?
A. No, I don't, if I don't know who sent it.
Q. Okay. There's a number of other conditions. Let me call your attention to the bottom of the document, items 24 and 25 and 26, all dealing with parking.
A. All right.
Q. Have those information requests been provided to the Town?
A. I'm not sure.
Q. And who would know?

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A. The Town or whoever sent them, whether that's Jared. I mean, I can check on it for you. But I would --
Q. All right. Now, this document is dated in October of '23, but since then you've made the decision to move to Haig Point on Pinckney Island, correct?
A. Yes, because we were not issued a permit.
Q. Well, I'm trying to understand whether you attempted to meet the conditions of the Town or whether you have disagreements with the Town about the conditions they've imposed.
A. No, I agree with their conditions. There's nothing unreasonable here.
Q. Is it your understanding that Beaufort County has or intends to provide this additional information?
A. If we haven't done so already, absolutely.
Q. And when did -- do you have a timeline for whether that's been done?
A. We're not going to do any of it until -- because it's our understanding that without the parking on the parcels in question in

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this case, we cannot move forward with this permit.
Q. All right. And so if you had done the kind of parking analysis that the Town is requiring today prior to condemning, this problem would not have been a problem, would it?
MR. MURPHY: Object to the form.
A. No, because we don't have the parking. We don't have the land to put the proper parking.
Q. Listen to my question, please, Mr. Amundson. If prior to the date of condemnation you had undertaken to attempt to identify your permit conditions and use a consultant for providing assistance necessary to achieve the permit conditions, you would not have been in the time crunch that you presently find yourself in. Is that not correct?
MR. MURPHY: Same objection.
A. No, I don't think that is true.
Q. And why is that not correct, sir?
A. How would a calculation have helped this permit go?
Q. What I'm suggesting to you is that if you would have done things before the condemnation, you would have had a better picture

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of what you had to accomplish. Is that not true?
A. That's not true.
Q. Did you do any of this type of inquiry prior to filing the condemnation notice?
A. We've discussed that.
Q. And my recollection of that discussion is there was nothing done?
A. Because it's obvious the need is more than what can be provided on that site.
MR. BYBEE: All right. Madam Court Reporter, we can move to Exhibit 8, please.
(Exhibit 8 marked for identification.)
Q. This is a document from Hilton Head relative to some questions being raised by Nancy at O'Quinn Marine. Are you familiar with this -- this back and forth?
A. I don't believe so.
MR. BYBEE: Madam Court Reporter, would you go to the next exhibit, which is 9.
(Exhibit 9 marked for identification.)
MR. BYBEE: If you'll focus on the first bullet point, please. Maybe blow it up a little.

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Q. Do you recognize this document?
A. The informal preapp for 10 Haig Point Circle does not incorporate any portion of 60 -- I don't necessarily recognize the document. I know that Haig Point had talked about a hotel before. That's about it.
Q. And this is directed to --
A. Missy.
Q. -- the O'Quinn people; is that correct?
A. It appears to, but when I looked up top, it looked like it was from -- who was it from, a Nancy?
Q. From Trey Lowe at Hilton Head to Missy Luick and Shawn Leininger.
A. Okay. I don't know them.
Q. On the fourth bullet point it says, In a call after the fact to Duncan O'Quinn, marine contractor hired by Beaufort County, Brian Eber and I were asked to elaborate on this comment. When Brian and I got clarification on the comment, we asked Mr. O'Quinn to contact Hank Amundson, special assistant to the County administrator, and have him work with County Council on a plan to achieve Marc's vision. And if they had any questions, they were to consult

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with Marc. Do you recall that event?
A. I do not. I know Marc's -- it must be referring to Marc Orlando and Marc's vision. We have discussed that many times.
Q. So look at the next bullet point. After that comment and realizing they couldn't meet their December 31, 2024, deadline due to a total redesign and the DRB schedule, they secured a location on Pinckney Island, and this one seemingly dies on the vine. During our final conversation with Mr. O'Quinn, he mentioned he would let us know if they had any questions. Is that accurate?
A. No. I don't understand the seemingly dies on the vine statement, but I can tell you that without the properties that we were condemning, we can't achieve Marc's vision.
MR. BYBEE: Now if we could go to Exhibit 10, please.
(Exhibit 10 marked for identification.)
Q. This is a letter from John Robinson, who was interim County administrator, and it's dated May of 2024. Are you familiar with this?
A. I'm familiar with this, yes.

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Q. So you were consulted before this letter was sent to Senator Scott?
A. I knew it was going out. I don't believe I read it before it went out.
Q. And it refers to the fact that the County has a lease on federal property held by U.S. Fish & Wildlife on Pinckney Island; is that correct?
A. That's true.
Q. If the County has a lease with U.S. Fish & Wildlife, did they contact U.S. Fish & Wildlife directly prior to contacting Senator Scott?
A. I believe so.
Q. And who did that?
A. I'm not sure if it was John Robinson or Jared Fralix.
Q. And what was the response from U.S. Fish & Wildlife?
A. I don't know.
Q. Was the --
A. We wouldn't have gone to Tim Scott if they said yes. I think they said we had to go higher. But that's just an assumption, and assumptions get us in trouble.
Q. So do you recall seeing any writings

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directly to the U.S. Fish & Wildlife with respect to the inquiries you were trying to make as to Pinckney Island?
A. Not off the top of my head, I do not.
Q. So you enlisted the support of Senator Scott in May of '24. Has Senator Scott's office responded to you?
A. We have not had a reply back.
Q. Has the County attempted to follow up with Senator Scott?
A. I believe so.
Q. And who did that?
A. That would probably be John Robinson again.
Q. And have you seen written documentation to that effect?
A. I have not.
Q. Presently you are operating the dock at Pinckney Island, correct?
A. That's correct.
Q. And the ferry is loading and unloading at Pinckney Island, correct?
A. That is correct.
Q. And is it your testimony that you have no approvals or permissions from U.S. Fish &

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Wildlife with respect to that operation?
A. Oh, there is -- it's expressly permitted in the lease, from my understanding, that it says it's for the operation of ferry and service to Daufuskie Island.
Q. Okay. So you don't need anything from U.S. Fish & Wildlife?
A. No. And I believe Jared spoke to the person at Fish & Wildlife to say that we were moving it there. And his point was as long as you don't get into erecting any permanent buildings, then we have no issue. That's my understanding.
Q. Okay. So that's Mr. Fralix's information that he's provided to you?
A. Yes.
Q. So what is the purpose of the inquiry to Senator Scott?
A. It was our understanding that you had to go higher to get an approval of a federal land expansion like that.
Q. Okay. Let's do this. I'm almost finished. Let's take a break and then we will finish this up.
A. Okay.

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(Recess taken.)
Q. You told me in response to one of those last questions that there is restrictions from U.S. Fish & Wildlife as to permanent structures. Does that include --
A. No.
Q. Go ahead.
A. Let me let you finish your question. I'm sorry for interrupting.
Q. I was trying to understand what restriction that you were referring to in your lease.
A. I don't believe it's in the lease. It's -- my understanding from Jared is that when he said, We need to move here for the emergency temporary location of the ferry, it's allowed, his -- the person -- there's only -- the person on-site said, As long as you don't erect anything that could be -- and the reason he would say something like that is because that would require further permissions.
Q. Erect what kinds of things?
A. Buildings.
Q. Okay. But not the dock itself?
A. No.

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Q. Not a temporary restroom?
A. No.
Q. Not the facilities that you have out there operating today?
A. Right. That was done with our zoning department's approval.
Q. And that communication would have been between Mr. Fralix and some representative of U.S. Fish & Wildlife?
A. I don't believe so. I think that at that point it would only be between us and our own zoning department.
Q. This is your zoning department's interpretation?
A. No, no. This is in order to say can we put temporary bathrooms, can we put that tent that's there today. That had to go through zoning.
Q. Okay. So Beaufort County checked with itself about those details?
A. If you would like to say it that way, yes.
Q. Would you -- I'm asking, did you have any communication directly with U.S. Fish & Wildlife about those details?

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A. No, not that I know of.
Q. All right. And again, it was Mr. Fralix who was handling that -- that process?
A. At that point, I don't think. I would have to look back. We were in a frenzy to get that place operational in such a short period of time.
Q. Have you ever seen the lease with U.S. Fish & Wildlife?
A. I have looked at it. It's -- I don't have it in front of me, but I -- I left that to legal. I usually --
MR. BYBEE: Chris, I don't recall ever getting a copy of the lease. Could you get us that, please?
MR. MURPHY: The lease with Fish & Wildlife? Yep.
(Documentation requested.)
A. And I'm not sure if the lease is with Fish & Wildlife or if it's with the State. There's a weird relationship where the Fish & Wildlife -- the ownership has changed. When this was given to the State, there was Department of Interior. All of these entities have changed, but we can get you that document.

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Q. That would be helpful. Thank you.
A. Okay.
MR. BYBEE: All right. Madam Court Reporter, our next exhibit is 11.
(Exhibit 11 marked for identification.)
Q. Do you recognize this document, Mr. Amundson?
A. This looks like the permit for the dock.
Q. The Beaufort -- yes, October 6, 2023, conditions from DHEC?
A. Yes, sir.
Q. I want you to look at the signature page, which is number 2 of 77. And you'll see there what this document reflects is there is no signature from Beaufort County. Have you seen a signed signature on this permit application?
A. I have -- I know this permit got signed.
Q. Can you get that to Mr. Murphy so he can give me the complete document?
(Documentation requested.)
A. You want to look at me on the screen?
MR. BYBEE: Madam Court Reporter, can you shift his -- he's trying to show --
A. I've got it right here.

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Q. That's fine. I understand. I just don't have it.
A. I didn't realize my haphazard filing system would coincidentally have a pile behind me that had this piece of paper in it. So, yeah, I've got it for you.
Q. Would you get that piece of paper to Mr. Murphy so we can have a complete document?
A. Sure.
Q. I've got a question. If replacing Buckingham was the goal of the County, why would they not get a location which is reflecting existing needs as opposed to future needs?
A. Repeat the middle part of that. I'm sorry. You said if the goal was to be --
Q. In your prior testimony you had clearly said, We condemned the property because of the situation to Buckingham, correct?
A. I believe so, yes, sir.
Q. And when you look to secure a site to replace Buckingham, why are you not trying to acquire a site reflecting existing needs as opposed to future needs?
A. You would -- because you don't want to have to move again.

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Q. And to my knowledge, there's no forecast as to future needs. Have you ever seen such a forecast by a professional?
A. We've discussed that, and I have not.
Q. But you would agree that you could have engaged a professional to estimate those parking needs prior to the filing of the condemnation?
A. I would agree that I wish my boss would have engaged a professional to do this.
Q. And by your boss, you're referring to Mr. Greenway?
A. Yes.
Q. And is it your testimony that he specifically said, No, we're not going to do that?
A. No.
Q. Tell me the circumstances which lead you to make the comment about Mr. Greenway.
A. It would have prevented us from having this conversation, potentially. That's all.
Q. But did you have that conversation with him --
A. No.
Q. -- then?
A. No, sir.

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Q. Just looking -- this is -- this is -- you're looking back on events. Is that a fair summation of what your testimony is?
A. Yes, that's fair.
Q. And for the same logic, the County could have investigated a dock permit from the subject land, Broad Creek's property prior to the condemnation?
A. No, that same logic wouldn't apply there.
Q. Why not?
A. Because we did discuss a dock permit, and we -- that's why the property lines of the Helmsman Way properties are required in order to have the extended lines out in the water to potentially have a dock permit. But until we acquire those properties, as we've discussed, the only thing we can do is under the bridge and to the left of the bridge.
Q. But you undertook no analysis as to whether it was reasonably foreseeable that OCRM would grant such a dock?
A. No, I just told you that we discussed it. When we applied for our permit on the left side of the dock, the one we just showed the

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signature on, in that same meeting, we discussed a phase two on the other side of the dock of the bridge. But they said until you acquire these properties, an application is not real, and we don't do phased applications. They're independent, but it looks like that is possible.
Q. Okay. And whose words were they?
A. Blair Williams. But he's very careful to say, This is not a commitment. He's a smart guy, and he does these things all the time. But all they -- they're looking at simple things like, where are the extended property lines? How many feet from those property lines? And if those things preliminarily match up, then something's potentially possible.
Q. And in the operation of the ferry, can we agree that the ferry operator has to be in control of the embarkation dock at the times that the ferry is loading and unloading passengers?
MR. MURPHY: Object to the form:
A. Am I still supposed to answer that?
Q. Yes.
MR. MURPHY: Yeah, go ahead.
A. Okay. You asked -- let me just repeat the question and make sure I got it right. You

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said that the ferry operator that has to have control of the dock during loading and unloading, et cetera.
Q. Yes.
A. And this is my opinion?
Q. This is your testimony as a 30(b)(6) witness for Beaufort County.
A. And to properly operate, they should have control of the dock whenever the loading and unloading, which currently doesn't exist at Pinckney Island, which shows that is a poor operating spot.
Q. And at least during the period of time when the dock is being utilized for unloading and loading passengers, the public doesn't have unfettered access to the dock?
A. In a perfect world they do not, but that's --
MR. MURPHY: Object to the form.
A. That's why Pinckney Island is substandard because they are obstructed by the public access.
Q. And what do you mean when you tell me they're obstructed by the public access?
A. I'll give you examples of the ferry

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coming in to land and a boat being parked in its place or the ferry coming in to land and fishermen camped out fishing where it's supposed to land or cutting fish on the podium of the ferry operator because it's not restricted for sole ferry operation use.
Q. And that is all the circumstance at Pinckney Island; is that correct?
A. Yes.
Q. That's some experiences that you've had since locating to Pinckney Island?
A. Yes, sir.
Q. Is any of those experiences, are they documented?
A. Yes.
Q. How are they documented?
A. Pictures.
Q. And would you provide Mr. Murphy those pictures so I could see them?
(Documentation requested.)
A. Sure.
Q. And who took the pictures. Do you know?
A. Ferry operator.
Q. Okay. Does the County have any intention to use Broad Creek property today?

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A. Yes.
MR. BYBEE: All right, sir. That's all I have, Mr. Amundson.
THE WITNESS: Okay.
MR. MURPHY: No questions, Hank.
(Deposition concluded at 11:02 a.m.)

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CERTIFICATE

I, Jessica Bolanos, Notary Public in and for the State of South Carolina, do hereby certify that the witness in the foregoing deposition was duly sworn to testify to the truth, the whole truth and nothing but the truth in the within-entitled cause; that said deposition took place virtually via video conference. The testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed by computer-aided transcription. The foregoing is a full, complete and true record of the testimony of the witness and of all objections made at the time of the examination.

I further certify that I am neither related to nor counsel for any party to the cause pending or interested in the events thereof.

Witness my hand, I have hereunto affixed my official seal at Charleston, Charleston County, on September 24, 2024.

Jessica Bolanos
My Commission expires
April 22, 2032

September 24, 2024
EXHIBIT
Hank Amundson
1

STATE OF SOUTH CAROLINA	)	IN THE COURT OF COMMON PLEAS
	)	FOURTEENTH JUDICIAL CIRCUIT
COUNTY OF BEAUFORT	)	CASE NO. 2022-CP-07-01978
TMS: R552 010 000 0648 0000 R552 010 000 0649 0000	)	
BROAD CREEK DEVELOPMENT, LLC,	)	
Plaintiff/Landowner,	)	**BROAD CREEK DEVELOPMENT LLC'S NOTICE OF CONTINUED 30(B)(6) DEPOSITION OF BEAUFORT COUNTY**
v.	)	
BEAUFORT COUNTY,	)	
Defendant/Condemnor.	)	

TO: CHRISTOPHER L. MURPHY, ESQ, ATTORNEY FOR DEFENDANT/ CONDEMNOR:

YOU WILL PLEASE TAKE NOTICE that the above Plaintiff/Landowner, by and through its undersigned counsel, will continue the deposition of Beaufort County, pursuant to Rule 30(b)(6), on the topics indicated below, **beginning at 10:00 a.m. on September 24, 2024** at the Beaufort County Offices located at 4819 Bluffton Parkway # 1, Bluffton, SC 29910. If the deposition is not completed on September 24, 2024, it will be reconvened at a mutually agreeable time.

INSTRUCTIONS AND PROCEDURES

1. The County is requested and required to designate and produce, at the time and place above stated, one or more officers, directors, officials, managing agents, or other persons (the "Deponent(s)") who consent(s) to testify on the County's behalf and who can knowledgably testify about information known or reasonably available to the County relating to the Matters for Examination set forth below.

2. More than one witness may be designated, in which event the designations of Deponent(s), and the identification of specific matter(s) on which each designated Deponent will testify, shall be provided in writing to the undersigned before the deposition.

3. To fully answer questions related to the Matters for Examination, each Deponent is instructed to review the information known or reasonably available to the County and bring with him or her any documents reviewed by the Deponent which have not previously been produced in discovery. Each Deponent is required to appear for said depositions at the time and place above stated.

4. The deposition will be recorded by stenographic, audio, and / or audiovisual / videotape means, and taken before an officer authorized by law to administer oaths. Said deposition shall continue from time to time and day to day until completed, including any adjournments thereof. The deposition is being taken for pre-trial discovery, for use at trial, and for all other purposes as may be permitted by law.

5. Further, counsel for Plaintiff gives notice, pursuant to Rule 30(j)(8), SCRCP, that they may use any and all documents produced or made available in discovery by any party during this deposition, and hereby give notice of Plaintiff's intent to question the County's designated deponent(s) regarding any and all documents produced or made available by any party during the course of discovery, as well as those obtained by subpoena or other records request.

DEFINITIONS

1. The terms "Plaintiff," "Landowner," and/or "Broad Creek" shall mean and refer to Broad Creek Development, LLC, and any individual, employee, agent, personal representative, executor or entity that previously acted or is currently acting on its behalf.

2. "Defendant," "Condemnor," "Beaufort County," "County," "you," and/or "your" shall mean and refer to Beaufort County, South Carolina, a political and governmental subdivision organized and existing pursuant to the laws of the State of South Carolina, and any individual, employee, agent, or entity that previously acted or is currently acting for it or on its behalf, individually and/or collectively.

3. The "Property" shall mean and refer collectively to those certain parcels of real property at issue in this action, located in Beaufort County, South Carolina, bearing Parcel ID Nos. R552 010 000 0648 0000 & R552 010 000 0649 0000, said Property being more fully defined in the Condemnation Notice and Tender of Payment, its exhibits attached thereto, filed by Beaufort County in Case No. 2022-CP-07-1762, and described in the Notice of Lis Pendens (no. 2022-LP-07-00295).

4. The "Condemnation Action" refers to Case No. 2022-CP-07-1762, pending in the Beaufort County Court of Common Pleas.

5. The "Notice of Condemnation" means and refers to the Condemnation Notice & Tender of Payment filed in the Condemnation Action on September 15, 2022.

6. "Project" shall mean the proposed ferry transportation service and facilities, including the permanent embarkation locations and public parking on the Mainland (as that term is used in Beaufort County Ordinance 2022/35 adopted August 8, 2022) and Daufuskie Island, intended to provide ferry services to and from Daufuskie Island, South Carolina, and any

supporting documents describing the public use and purpose of said operations, provisions, improvements, and/or services, as stated in Condemnor's Notice of Condemnation, including but not limited to plans, sketches, lay outs, alternate site locations, and any site criteria used to determine or analyze the location and size of either permanent embarkation location referred to in the Notice of Condemnation.

7. "Document" or "documents" shall mean and include, without limitation, the original, drafts, revisions and non-duplicative copies of any printed, typed, recorded, or graphic matter of every type and description, however and by whomever prepared, produced, reproduced, disseminated or made, in any form, whether or not claimed to be privileged, including, but not limited to, plans, writings, drawings, graphs, charts, electronic data (including without limitation those inscribed by mechanical, facsimile, electronic, magnetic, digital or other means, computer programs, programming notes or instructions, activity listings of electronic mail receipts and/or transmittals, output resulting from the use of any software program, word processing documents, spreadsheets, database files, charts, graphs and outlines, electronic mail, operating systems, source code, peripheral drivers, PIF file, batch files, ASCII files, and any and all miscellaneous files and/or file fragments, regardless of the media on which they reside and regardless of whether the data consists in an active file, deleted file or file fragment), photographs, phono-records, and other data compilations from which information can be obtained, translated, if necessary, by the requesting party through detection devices into reasonably usable form, memoranda, e-mails, date files and fragments, notes, scraps of paper, diaries, calendars, reports, vouchers, invoices, journals, bills, orders, time slips or records, receipts, summaries, pamphlets, books, contracts, statistics, letters, telegrams, minutes, diaries, studies, returns, computations, logs, financial records or statements, checks, bank statements, medical records, x-rays, laboratory reports and/or orders, otherwise memorialized or communicated matter, whether typed, printed, photo-copied, filmed, micro-filmed, or recorded in any manner. The term "document" includes each copy or reproduction which is not identical to the original or other produced copy.

8. The terms "correspondence" and/or "communication(s)" mean and refer to any oral, written, or electronic utterance, notation, or statement of any nature whatsoever, draft or final, potential or actual, by and to whomever made or attempted to be made, including, but not limited to, correspondence, memoranda, conversations, dialogues, discussions, interviews, consultations, agreements, electronic messages (including electronic-mail, text messages, instant messages, company intranet, social media message or post, electronic bulletin board or Internet site posting) and other understandings or conveyances sent or prepared to be sent by one person to another, however produced or reproduced, whether by "document" as herein defined or otherwise, which is made by you or others or which is distributed or circulated between or among persons, or data storage or processing units, including computer data storage and processing units, and any and all documents containing, consisting of, or relating or referring, in any way, either directly or indirectly, to a communication. The terms "correspondence" and/or "communication(s)" specifically includes, but is not limited to, any exchange of information by any means of transmission, including, but not limited to, face-to-face conversations, mail, electronic mail, telegram, overnight delivery, carrier or courier service, telephone, facsimile or telex.

9. "ESI" means all potentially discoverable electronically stored information and refers to your ESI that contains or potentially contains information relating to the matter or issue

identified and/or requested. ESI includes, but is not limited to, all electronically stored documents and "electronically stored information" as that term is used in Rule 34(a) of the South Carolina Rules of Civil Procedure. ESI further includes, without limitation, the following:

(a) information or data that is generated, received, processed, and recorded by computers and other electronic devices, including metadata (e.g., author, recipient, file creation date, file modification date, etc.);

(b) files, information, or data saved on backup disks, devices, tapes, or hard drives;

(c) internal or external websites;

(d) word processing documents, spreadsheets, database files, charts, graphs and outlines, electronic mail, online messaging exchanges or files (e.g., from Google Chat or similar programs), smartphone applications, bulletin board programs, operating systems, source code of all types, Outlook Profile Files or PRF files, Palm Resource Code or PRC files, batch files, ASCII files, and all miscellaneous media on which they reside regardless of whether said electronic data exists in an active file, a deleted file, or file fragment;

(e) activity listings of electronic mail receipts and/or transmittals; and

(f) any and all items stored on computer memories, hard disks, CDROM, magnetic tape, microfiche, DVDs, CDs, external hard drives, flash drives, memory cards, or on remote servers accessible by you (i.e., "the Cloud") or on any other media for digital data storage or transmittal, such as, but not limited to, personal digital assistants, hand-held wireless devices (e.g., iPhones, iPads, Android devices), cell phones, tablets, iPads or similar devices, and file folder tabs, or containers and labels appended to, or relating to, any physical storage device associated with each original or copy of all documents or communications requested herein.

10. "Identify" or "identity" when used in reference to an individual person, shall mean to state his or her full name, present or last known business and personal addresses, telephone number and the name of such person's present or last known employer, place of employment and position, and place of employment and position during the time period of any event addressed by the interrogatory in question.

11. "Identify" or "identity" when used in reference to an entity shall mean to state its full and complete name and the present and last known address and telephone number of its headquarters or principal place of business.

12. "Identify" or "identity" when used in reference to a document shall mean to state the nature of the document (*e.g.*, letter, memorandum, etc.); its subject matter and content in summary form; the date, if any, appearing on the document; the identity of the persons who wrote, signed, dictated, or otherwise participated in the preparation of the document; the identity of all persons to whom the document was addressed or who received copies of the document; and the

present location and custodian of the document.

13. The terms "related to," "relating to," and/or "relate(s) to" shall mean directly or indirectly supporting, pertaining to, arising from, linked to, regarding, discussing, concerning, referring to, evidencing, or in any way connected with or to the matter or issue discussed or requested.

14. "All facts" or "any facts" means each and every act, omission, incident, event, condition, or circumstance related to the requested matter or document, including relevant dates, omission, incident, event, condition, or circumstance related to the requested matter or document, the identification of persons who witnessed the act, omission, incident, event, condition or circumstance related to the requested document, and the identification of persons with knowledge of all facts or any acts related to the requested matter or document.

The deponent for County of Beaufort is hereby notified to appear to testify regarding the following topics:

TOPICS

1. Current plan location for mainland embarkation site;

2. Intergovernmental Agreements with the Town of Hilton Head, SCDOT, and any other applicable entities;

3. Memoranda of agreement between the County and SCDOT relating to US 278 corridor project and evaluation of a ferry system as alternative transportation method in relation to US 278 corridor project;

4. The County's discovery responses, including any supplemental discovery responses thereto;

5. Permits, parking plans, contracts, cost estimates, surveys pertaining to ferry operation at Pinckney Island and/or Helmsman Way since most recent 30(b)(6) deposition in this case.

[SIGNATURE PAGE TO FOLLOW]

/s/Richard D. Bybee
Richard D. Bybee, Esq. (SC Bar No. 1063)
Jeffrey S. Tibbals, Esq. (SC Bar No. 72628)
BYBEE & TIBBALS, LLC
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ATTORNEYS FOR PLAINTIFF / LANDOWNER

MT. PLEASANT, SC
August 15, 2024

STATE OF SOUTH CAROLINA	)	IN THE COURT OF COMMON PLEAS
	)	FOURTEENTH JUDICIAL CIRCUIT
COUNTY OF BEAUFORT	)	CASE NO. 2022-CP-07-01978
TMS: R552 010 000 0648 0000 R552 010 000 0649 0000	)	
BROAD CREEK DEVELOPMENT, LLC,	)	**CERTIFICATE OF SERVICE**
Plaintiff/Landowner,	)	
v.	)	
BEAUFORT COUNTY,	)	
Defendant/Condemnor.	)	

This is to certify that a true and correct copy of ***Broad Creek Development LLC's Notice of Continued 30(b)(6) Deposition of Beaufort County*** is served via US Mail and email, with proper postage affixed thereon to the following counsel of record:

Christopher L. Murphy, Esquire
Murphy Law Offices, LLC
146 Fairchild Street, Suite 130
Charleston, SC 29492
cmurphy@rlattorneys.com

Attorney for Defendant/Condemnor

August 15, 2024

Katy Barnes, Paralegal

September 24, 2024
EXHIBIT
Hank Amundson
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COUNTY COUNCIL OF BEAUFORT COUNTY
OFFICE OF THE COUNTY ADMINISTRATOR
ADMINISTRATION BUILDING
BEAUFORT COUNTY GOVERNMENT ROBERT SMALLS COMPLEX
100 RIBAUT ROAD
POST OFFICE DRAWER 1228
BEAUFORT, SOUTH CAROLINA 29901-1228
TELEPHONE: (843) 255-2023
FAX: (843) 255-9403
www.beaufortcountysc.gov

CHERYL H. HARRIS
EXECUTIVE ASSISTANT

JOHN ROBINSON
INTERIM COUNTY ADMINISTRATOR

DENISE CHRISTMAS
DEPUTY COUNTY ADMINISTRATOR

December 15, 2023

Mr. Adam Martin
Acting Chief Executive Officer
Haig Point, Daufuskie Island
130 Clubhouse Lane
Daufuskie Island, SC 29915

Re: Notification of Embarkation Site Change from Buckingham Landing to CC Haigh Jr. Landing on January 1, 2024

Dear Mr. Martin:

This letter is to notify your company that **effective January 1, 2024**, Buckingham Landing may no longer be used as an embarkation or disembarkation site for commercial ferry services. This is due to a Court Order issued earlier this year prohibiting the use of Buckingham Landing after December 31, 2023. As a result of this ruling from the court, the County had been working diligently to obtain a new location for embarkation and disembarkation for commercial ferry services for Daufuskie Island.

As you are aware, the County has been working to move the ferry embarkation to the Cross Island Landing area on Helmsman Way. This plan ran into a roadblock recently and the County was forced to seek an alternate location. The County has determined that the new site for embarkation and disembarkation for commercial ferry services for Daufuskie Island will be at CC Haigh Jr. Landing on Pinckney Island beginning no later than January 1, 2024. The County initiated emergency work on Pinckney Island in order to have a ferry embarkation in place prior to December 31, 2023, in order to comply with the court order and do so in a way that does not require a park and-ride operation.

The CC Haigh Jr. Landing is currently undergoing intensive maintenance in order to reroute boat ramp user traffic and accommodate more than 175 parking spaces for the ferry operation. There will be handicap parking, resident parking, tourist/visitor parking, bathrooms, a storage building for the handling of luggage and your blue carts, and a large tent with walls and heat in which people can wait for the ferry.

There will be no charge for parking on this site, so the County requests that you issue riders who will park their vehicles overnight a simple printout that shows them to be a ferry user to place on their dashboard. Only vehicles of Daufuskie Island ferry services will be allowed to park overnight on site.

Please begin planning for this transition to occur no later than January 1, 2024. If you would like to have a meeting to help coordinate the transition process, please let me know. I and my staff are willing to meet

at your convenience to discuss this transition and to answer any questions or address any concerns you may have.

Sincerely,

John Robinson
Interim County Administrator

JR:bh

cc: Joseph Passiment, County Council Chair
Hank Amundson, Special Assistant to Interim County Administrator
Tom Keaveny, County Attorney
Brittany Ward, County Attorney

September 24, 2024
EXHIBIT
Hank Amundson
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$600K urts as budget

uests. Across the state, narks totaled more 5 million.
volunteer fire depart- quested earmarks for upgrades or air packs. Honea Path are each $175,000 for water line ements. The United iming for $100,000 to community garden. f the largest asks in n County come from ston and the Cancer ion of Anderson, with questing $1 million state budget.
mston is looking to playground equip- Mineral Spring Park, of the annual "Pig in " barbecue festival, w shelter at Brookdale

wn recently installed all courts at Mineral nd went "significant- budget because of soil undwater issues, ac- to the request docu-

ancer Association of on wants to build its for Hope and Heal- provide resources to cer patients, knowing ding and surrounding will cost double the $1 request.
ds at least $1.5 million onstruction can begin,

Hilton Head Island moves US 278 corridor project forward with vote

BY JESSICA WADE
jwade@postandcourier.com

HILTON HEAD ISLAND — After a number of bureaucratic speed bumps, Town Council has taken a significant step forward on a long discussed U.S. 278 bridge project, narrowly meeting multiple deadlines that could have put hundreds of millions of dollars in funding on the line.

On June 28, council members approved memorandums of agreement with Beaufort County and the S.C. Department of Transportation, giving municipal consent for the corridor project to move forward within town limits. The memorandums represents a tangible milestone for a project that has seen several years of discussion with little action.

The agreements also spelled out a number of conditions drafted by council members, including limiting impacts on the historic Stoney neighborhood, the installation of pedestrian overpasses, specific design elements and the evaluation of alternative transportation methods, such as a ferry system.

Converging deadlines

Time constraints put pressure on council to either approve or deny the memorandums by 5 p.m. June 28 — a deadline they made with little time to spare.

The project's environmental assessment, which is good for three years, is set to expire at the end of June. Without a step forward, millions in funding secured by state Sen. Tom Davis from the S.C. Transportation Infrastructure

toric gateway onto the island," Powell wrote. "It is my intent that, if this project does proceed, SCDOT intends to deliver a quality project that meets all state and federal requirements and improves transportation on Hilton Head Island."

Councilwoman Patsy Brison expressed apprehension over DOT's request.

"This has troubled me greatly," Brison said. "This was our last grasp on hearing from the community and making sure that we get it as best we can for the whole community. I don't like being in this box."

In the end, council members passed the county's memorandum 6 to 1, with Councilwoman Tamara Becker casting the lone dissenting vote. The DOT's memorandum passed 5 to 2, with Brison and Becker in opposition.

Becker spoke adamantly against the memorandums, suggesting a postponement and a deeper look at a park-and-ride alternative.

"I would say that 98 percent of phone calls, texts conversations that I have heard are in favor of us saying 'no' to this bridge," Becker said. "And it's not that we don't want safety or a new bridge that meets guidelines. It's that we don't want this bridge."

That opinion was echoed through a lengthy public hearing ahead of the vote, where a majority of people present spoke against the project, citing development frustrations, concern over the increased size of the bridge, complaints about tourism and environmental concerns.

Others spoke in favor of the long-discussed project, calling on a need to address congestion, provide better transportation for the island's large workforce

friends over this. That's not what it should be about. Every single one of us have our opinions, but we do care about this community. We do listen to everybody to make a decision that is in the best interest, through facts, through engineering, through conversations."

Project background

The project has taken many conceptual forms over the years. Its most pressing purpose is replacing the structurally deficient eastbound span crossing Mackay Creek. Cooperation among DOT, Beaufort County and the Hilton Head Island government led to an ambitious reimagining of the main corridor onto the island. As it's envisioned today, a six-lane bridge would be built to replace the system of four bridges that lead to and from the island.

DOT built the Mackay bridge in 1956 and widened it in 1984.

The state agency inspects all bridges in South Carolina at least every two years. Due to the age and condition of the MacKay bridge, DOT inspects it annually.

The last inspection was completed Jan. 12. It rated the structure and substructure as "poor." While the bridge is safe to drive over, it is approaching the end of its life and has been placed on a statewide priority list.

Consideration of a vote to draft a memorandum of agreement was initially set for a special council meeting June 20. A few days before the meeting, the item was removed from the agenda.

Through the project, Beaufort County and DOT aim to make improvements to the U.S. 278 corridor between Bluffton and Hilton Head Island, from Moss

September 24, 2024
EXHIBIT
Hank Amundson
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A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF HILTON HEAD ISLAND, SOUTH CAROLINA, AUTHORIZING THE TOWN MANAGER TO ENTER INTO A MEMORANDUM OF AGREEMENT WITH BEAUFORT COUNTY, SOUTH CAROLINA FOR THE WILLIAM HILTON PARKWAY GATEWAY CORRIDOR PROJECT.

WHEREAS, Beaufort County, South Carolina is the sponsor of a Project proposed to include the replacement of all four bridges crossing Mackay Creek and Skull Creek and the U. S. Highway 278 corridor on Jenkins Island, the causeway from Jenkins Island to Hilton Head Island, and on Hilton Head Island to the intersection of U. S. Highway 278 and Spanish Wells and Wild Horse Roads (the "Project"); and,

WHEREAS, while the Town and Beaufort County have worked diligently to reduce and/or eliminate impacts arising from the Project, the Project will have impacts on the citizens, residents, property owners and visitors of and to the Town; and

WHEREAS, in order to alleviate or reduce the impacts, the Town and Beaufort County desire to undertake actions related to the Project that are outlined in the proposed Memorandum of Agreement that is attached hereto as Exhibit "A"; and

WHEREAS, the Town Council hereby finds that the execution of the proposed Memorandum of Agreement with Beaufort County is in the best interests of the Town of Hilton Head Island and its citizens, residents, property owners and visitors.

NOW, THEREFORE, BE IT, AND IT HEREBY IS, RESOLVED BY THE TOWN COUNCIL FOR THE TOWN OF HILTON HEAD ISLAND, SOUTH CAROLINA:

1. The Town Manager to execute and deliver the Memorandum of Agreement with Beaufort County that is in the form and substance of Exhibit "A" to this Resolution.
2. The Town Manager is authorized to take all actions necessary to comply with the Town's obligations set out in the Memorandum of Agreement.

PASSED AND APPROVED BY THE TOWN COUNCIL FOR THE TOWN OF HILTON HEAD ISLAND, SOUTH CAROLINA, ON THIS 18TH DAY OF JUNE, 2024.

THE TOWN OF HILTON HEAD ISLAND, SOUTH CAROLINA

By: _____
Alan R. Perry, Mayor

ATTEST:

_____
Kimberley Gammon, Town Clerk

APPROVED AS TO FORM:

_____
Curtis L. Coltrane, Town Attorney

EXHIBIT A

STATE OF SOUTH CAROLINA) MEMORANDUM OF AGREEMENT
) WILLIAM HILTON PARKWAY GATEWAY
) CORRIDOR PROJECT
COUNTY OF BEAUFORT)

THIS MEMORANDUM OF AGREEMENT (the "Agreement") is made and entered into this ___ day of June 2024 by and between the Town of Hilton Head Island, South Carolina (the "Town"), and Beaufort County, South Carolina (the "County").

WHEREAS, access to Hilton Head Island by vehicles is currently via U.S. Highway 278, which includes four bridges, being east and west bound bridges connecting the mainland with Pinckney Island over Mackay Creek, and east and westbound bridges connecting Pinckney Island to Jenkins Island over Skull Creek; and

WHEREAS, from Jenkins Island, U.S. Highway 278 crosses a causeway to Hilton Head Island whereby U.S. Highway 278 is also known as William Hilton Parkway; and

WHEREAS, the South Carolina Department of Transportation has inspected the Karl S. Bowers eastbound bridge that spans Mackay Creek and has found this structure to be structurally deficient and subject to continuing deterioration; and

WHEREAS, traffic entering and leaving Hilton Head Island on a daily basis has increased over time, and the existing corridor does not efficiently handle the traffic in the corridor extending from the intersection of U.S. Highway 278 and Spanish Wells Road to the intersection of U.S. Highway 278 and Moss Creek Drive; and

WHEREAS, to address concerns posed by the deteriorating condition of the eastbound Mackay Creek bridge, and the need reduce congestion and provide safety improvements for the entrance to Hilton Head Island the County conducted a Transportation Sales Tax Referendum that included a proposed project for the repair and/or replacement of all four bridges and additional improvements to the U.S. Highway 278 corridor from the intersection of U.S. Highway 278 and Squire Pope Road to the intersection of U.S. Highway 278 and Moss Creek Drive, among other things; and

WHEREAS, following the adoption of the Transportation Sales Tax Referendum by the voters in Beaufort County the William Hilton Parkway Gateway Corridor Project, referred to herein as the "Project," was created as a County project for those improvements within the SCDOT owned right of way; and

WHEREAS, the Project will begin at the intersection of U.S. Highway 278 and Moss Creek Drive and run to the intersection of U.S. Highway 278 and Spanish Wells and Wild Horse Roads as shown on Exhibit 1 which is attached to this Memorandum of Agreement, and which is attached hereto and incorporated herein by reference; and

WHEREAS, in 2019, the Town Council for the Town of Hilton Head Island, South Carolina (the "Town Council"), created the U.S. 278 Gateway Corridor Committee which developed a series of "Guiding Principles" to be utilized in developing the Project which were formally adopted by Town Council on February 18, 2020; and

WHEREAS, the Project is now proposed to include the replacement of all four bridges crossing Mackay Creek and Skull Creek to meet current design and safety code specifications, improved transportation performance throughout the corridor and within all major intersections, improved access to the Pinckney Island National Wildlife Refuge and the C.C. Haigh, Jr., boat ramp; improvements to address pedestrian and bicyclist needs, and improvements to address existing conditions within the corridor that are negatively affecting property owners and residents of the Big and Little Stoney Historic Neighborhoods (herein, collectively, the "Stoney Historic Community"), all of which are generally reflected in the revised project design plans shown in Exhibit 2 to this Memorandum of Agreement which are attached hereto and are incorporated herein by reference; and

WHEREAS, the part of the Project beginning at the point where the Skull Creek bridges meet Jenkins Island and ending at the intersection of U.S. Highway 278 and Spanish Wells and Wild Horse Roads is located within the Town's municipal limits; and

WHEREAS, the Project as a whole including the part within the municipal limits of the Town, will substantially impact the property owners and citizens of and visitors of the Town of Hilton Head Island; and

WHEREAS, the properties located the Stoney Historic Community were designated as a Traditional Cultural Property as a part of the National Environmental Policy Act ("NEPA") process in developing the Environmental Assessment and are reflected on a map attached hereto as Exhibit 3 to this Memorandum of Agreement and incorporated herein by reference; and,

WHEREAS, the U.S. Highway 278 corridor, extending from I-95 to Sea Pines Circle, is of regional importance to the Town, the County, and the State of South Carolina in facilitating trade, commerce, transportation of the local workforce, and the transportation of Hilton Head Island residents, visitors, and workers throughout the entire region; and

WHEREAS, the Project is currently in the preliminary design stage and is working through the NEPA process; and

WHEREAS, as part of the NEPA process, a Preferred Alternative for the Project was identified by the SCDOT and presented at a public hearing held on July 22, 2021; and

WHEREAS, following the development of the Preferred Alternative, on October 12, 2021, the Town Council approved suggested revisions to be formally incorporated into the Modified Preferred Alternative; and

WHEREAS, based upon public feedback and suggested revisions from the Town, SCDOT presented a Modified Preferred Alternative at a public hearing held on March 3, 2022; and

WHEREAS, the County, as project sponsor, approved many of these recommendations and they were formally incorporated into a Memorandum of Agreement that was approved on October 4, 2022; and

WHEREAS, in response to a substantial number of additional comments made by the residents of the Town and/or the County concerning the Project, the County and the Town determined that, as a necessary condition precedent to making an informed decision on what options for the Project are in the best interests of their citizens, property owners and residents, an independent review (the "Independent Review") should be performed by a qualified consultant; and

WHEREAS, the County and the Town coordinated on the procurement, awarding, and execution of an Independent Review with consultant CBB Transportation Engineers and Planners, which presented its findings on October 17, 2023; and

WHEREAS, the Town subsequently procured an additional transportation engineering firm, The Lochmueller Group, to conduct a Town managed Independent Study; and,

WHEREAS, the Lochmueller Group presented its findings and recommendations to the Town on June 17, 2024; and,

WHEREAS, to offset the impacts to the Stoney Historic Community, an innovative program of renewal and economic opportunity commensurate with the existing impacts to the Stoney Historic Community's social and economic vitality that have come about through decades of right-of-way expansion, will established and implemented; and

WHEREAS, the Town and County find that the completion of things set out in this Memorandum of Agreement are in the best interest of the Town and County, and their citizens, residents, property owners and visitors; and,

WHEREAS, in order to successfully incorporate these actions and the recommendations from the Independent Study, the Town and County are combining into this Memorandum of Agreement those elements that have previously been agreed to by the Town and the County in addition to all other requirements that the Town and County have now determined are integral to the Town's municipal consent for the Project; and

WHEREAS, as a condition precedent for the Town to grant its municipal consent for the Project, the County and Town hereby agree and enter into this Memorandum of Agreement with the express knowledge and understanding that the incorporation and completion of these terms will be a condition of Town's municipal consent for the Project.

NOW, THEREFORE, for and in consideration of the sum of One ($1.00) Dollar, each paid to the other, and the performance of the mutual covenants exchanged herein, the receipt and sufficiency of which is acknowledged, the County and the Town do hereby agree as follows regarding the Project's design, the pursuit of neighborhood improvements, and the overall economic sustainability of the corridor:

PROJECT DESIGN:

1. The Project will advance through a joint and equal partnership, for the entirety of the Project. All decisions and approvals concerning the Project shall be made in writing and signed by both the Town Council and County Council respectively.

2. The Project's design will be modified to reflect those elements that are shown in Exhibit 2, which will serve to achieve the Project's goals while further reducing and/or eliminating the impacts to private property owners.

3. To the greatest extent feasible, the improvements proposed as part of the Project will be accomplished within the existing right-of-way with the exception of a multi-use pathway to be included on the northern side of the Project from the intersection of Spanish Wells Road to the new bridge and which will connect to the bridge via a connection which will run underneath the bridge coming onto Jenkins Island, and on the southern side of the Project from the intersection of the Windmill Harbour Traffic Signal to the end of the Mackay Creek bridge span.

4. The Project design will provide a separation of pathways from roadways to the greatest extent feasible and a pedestrian and bicycle safety plan which consists of the following:
    a. Safe pedestrian refuges in median areas; and
    b. Removal of pavement and landscaping necessary to protect pedestrians and bicyclists; and
    c. The installation of up to two (2) pedestrian overpasses within the Stoney Historic Community and intersection protections that will facilitate the safe movement of pedestrians and bicyclists across the proposed roadway area.
    d. The integration of strategies to create a pedestrian-friendly Stoney Historic Community corridor that honors and enhances the cultural fabric of the Stoney Historic Community. The Project must balance infrastructure improvement with respect for the Stoney Historic Community's cultural values, traditions, and social dynamics. Strategies to accommodate this include but are not limited to the following:
        i. Respect for Cultural Landmarks: Ensure that pedestrian pathways respect and preserve cultural landmarks, and historical areas.
        ii. Lighting and Security: Install adequate lighting and ensure pathways are safe, well-maintained, and patrolled if necessary.
        iii. Universal Design: Ensure pathways are accessible to people of all ages and abilities, including those with disabilities.

iv. Link Key Destinations: Design pedestrian pathways to connect important community destinations including schools, markets, parks, places of worship, and community centers.

v. Multi-Modal Integration: Integrate pedestrian pathways with other modes of transportation, such as public transit stops and enhance overall connectivity.

vi. Green Spaces: Incorporate green spaces, trees, and vegetation along pedestrian routes to provide shade, improve air quality, and enhance the aesthetic appeal.

vii. Health Initiatives: Promote walking and cycling as healthy lifestyle choices through community programs and infrastructure that encourage physical activity.

viii. Cultural Education: Raise awareness within the community about the benefits of improved pedestrian connectivity.

ix. Wayfinding and Signage: Use relevant symbols and signage to help residents navigate the neighborhood easily.

x. Road Safety Audit and Bike and Pedestrian Plan.

5. The elements shown on Exhibit 2, will be incorporated in the Project's design elements as follows:

a. One (1) bridge with a width not greater than 123 feet, 7 inches extending from the mainland to Jenkins Island consisting of three (3) twelve-foot (12') wide travel lanes in each direction, one (1) ten-foot (10') wide outside shoulder in each direction, one (1) six-foot (6') wide inside shoulder in each direction, a twelve-foot (12') wide multi-use pathway along the southern side of the bridge, and physical barriers protecting the edges of the bridge and separating vehicular and pedestrian traffic which will include one (1) bulb-out refuge of fifty-feet (50') in length and twenty-feet (20') in width over the Mackay Creek, and one (1) bulb-out refuge of fifty-feet (50') in length and twenty-feet (20') in width over the Skull Creek; provided however, that these design elements will continue to be evaluated with the specific goal of reducing, to the maximum extent that is possible, the width of these various elements thereby reducing the overall width of the bridge which will serve to reduce the visual impacts of the bridge and in reducing the funding gap that is currently present for the Project; and

b. Three (3) travel lanes in each direction through the Jenkins Island section of the Project which are each twelve-feet (12') in width; and

c. Three travel lanes in each direction through the Stoney Historic Community consisting of two (2) travel lanes which are eleven-feet (11') in width and one (1) travel lane which is twelve-feet (12') in width; and

d. All Jenkins Island traffic will be routed to the Windmill Harbour Intersection and the Jenkins Road intersection with William Hilton Parkway will be removed; and

e. Access to Hog Island, Mariners Cove, Blue Heron Point, Jenkins Island Cemetery, Hilton Head RV Resort, and Hilton Head Harbor Marina will be from a new frontage road to be located on Jenkins Island; and

f. There will not be a U.S. Highway 278 pedestrian crossing at the Windmill Harbour intersection; and
g. Vehicle access to Hog Island, Blue Heron Point, and Mariners Cove will be moved from southern side to northern side of U.S. Highway 278 with a new under bridge connection; and
h. Landscaped medians of varying widths will be installed to balance safety, property impacts, and aesthetics; and
i. The curb cut at Memory Matters, 117 William Hilton Parkway, will be removed; and
j. The median cut left turn movement for access to the Crazy Crab restaurant property, 104 William Hilton Parkway, will be relocated further westward towards the adjacent Town-owned property; and
k. One (1) elongated left turn lane from eastbound William Hilton Parkway onto Squire Pope Road; and
l. One (1) right turn lane from southbound Squire Pope Road onto westbound William Hilton Parkway; and
m. A new right turn lane will be provided from eastbound William Hilton Parkway onto Chamberlin Drive; and
n. The intersection of William Hilton Parkway and Spanish Wells Road and Wild Horse Road will be modified to include the following elements:
    i. Two (2) left turn lanes from northbound Spanish Wells Road to westbound William Hilton Parkway; and
    ii. One (1) through lane from northbound Spanish Wells Road to Wildhorse Road; and
    iii. One (1) right hand turn lane from northbound Spanish Wells Road to eastbound William Hilton Parkway; and
    iv. One (1) left hand turn lane from southbound Wild Horse Road to eastbound William Hilton Parkway; and
    v. One (1) through lane from southbound Wild Horse Road to Spanish Wells Road; and
    vi. One (1) right turn lane from southbound Wild Horse Road to westbound William Hilton Parkway; and
    vii. Improvements to the right turn lane from eastbound William Hilton Parkway to southbound Spanish Wells Road; and
o. No at grade intersection on Pinckney Island; and
p. The bridge height clearance will remain at 65 feet over Skull Creek, same as the current bridge; and
q. The bridge height clearance over Pinckney Island will be a minimum of 17.19 feet, currently there is no bridge over Pinckney Island; and
r. The bridge length is 1.376 miles of the 4.218 mile project; and
s. The bridge will be designed to Safety Evaluation Earthquake (SEE) standards; and
t. The bridge will be designed to withstand a Category 5 hurricane.

6. In addition to the design modifications in Item 5 above, the following items will also be pursued as part of continued Project design efforts:
    a. Left turns during rush hour (peak hour) traffic will be minimized; and

b. An additional merge lane from the Cross Island Parkway westbound to William Hilton Parkway will be evaluated; and
c. The Project's design speed limits will be reduced to 45 miles per hour and will have a posted speed limit of 40 miles per hour; and
d. Aesthetic elements proposed for the bridge and gateway corridor entrance elements will meet Hilton Head Island Design Review guidelines and will be approved by both Town Council and County Council.

7. The Windmill Harbour Traffic Signal will be incorporated within thirty (30) days upon execution of this Agreement into the Town's adaptive traffic management system and funded by the County. Additionally, the County will design and fund the installation of any corresponding infrastructure and associated improvements including traffic signal mast arms as part of the Project.

8. The Project will be designed sufficiently to address concerns resulting from storm surge impacts to the causeway connecting Jenkins Island to Hilton Head Island will include other similar resilience related matters into the Project design elements to ensure safe and reliable access for citizens, property owners, residents, visitors, and emergency services. Methods to address these concerns may include any of the following, but are not necessarily limited to these methods:

a. Elevating the roadbed; and
b. Installing surge barriers; and
c. Installing armoring or other materials to withstand storm surge impacts; and
d. Installing vegetation along the causeway to reduce wave energy and minimize erosion; and
e. Installing sufficient drainage systems to prevent water accumulation on the causeway; and
f. Installing real-time monitoring systems to provide early warning of rising waters and potential breaches as quickly as possible; and
g. Performing regular interval inspections and evaluations of the causeway to ensure its long-term structural integrity in conjunction with the Town and appropriate emergency management agencies.

9. Where feasible, the Project will include and utilize landscaped medians within the part of the corridor beginning where the bridge meets Jenkins Island and extending through the Stoney Historic Community to the intersection of U.S. Highway 278 and Spanish Wells and Wild Horse Roads, in-lieu-of using concrete medians and will include landscaping along the right of way and on Town-owned property to reinforce the gateway entrance to Hilton Head Island through the Stoney Historic Community and Jenkins Island.

10. Where appropriate to protect the interests of adjacent landowners or for protection of natural resources, raised curbs and gutters will be installed on the exterior edge of the roadway to reduce right-of-way requirements and to handle stormwater runoff and discharge.

11. Further design modifications determined to be appropriate and feasible will be pursued if such will serve to further improve the quality of life within the Stoney Historic Community.

12. All parties will make available all project data, including but not limited to Project cost estimates with supporting details, traffic data, including modeling and simulation materials, other technical documents, and related design files.

13. Value engineering of the Project will be performed to identify and eliminate unwarranted infrastructure and subsequent costs with the goal to improve functional quality as well as optimizing initial and long-term investment thereby seeking the best possible value for the lowest cost.

14. The Town will work cooperatively with the County and/or SCDOT regarding the conveyance of any Town-owned land that may be necessary to accomplish the Project through the adoption of an Ordinance by the Town Council identifying all such properties or portions thereof to be transferred.

STONEY HISTORIC COMMUNITY IMPROVEMENT:

1. It is acknowledged that there are significant impacts to the Stoney Historic Community (Exhibit 3) and the Traditional Cultural Properties that are located within the Project's scope and for which, proactive improvement measures must be undertaken, including the elements set forth in this Agreement.

2. A Stoney Historic Community Economic Sustainability and Cultural Preservation Plan will be created and implemented in conjunction with the Gullah Geechee Historic Neighborhoods Community Development Corporation and serve as a vision and action plan. The 2003 Stoney Initiative Area Plan will serve as a guiding document for this effort.

3. A secure escrow account, reserve fund, contingency, or other mutually agreed form of funding of at least Ten Million ($10,000,000.00) Dollars for the Stoney Historic Community shall be established within the Project budget for elements that include: landscaping, lighting, community sensitive signage, park improvements, and other community infrastructure improvements.

4. Through the Gullah Geechee Historic Neighborhoods Community Development Corporation, all parties will work directly with private property owners in the Stoney Historic Community to alleviate roadway impacts and improve quality of life measures including property access and property improvements.

5. It is agreed that some portions of Town-owned land may be needed to reduce the impacts to the private property owners that are located within the Stoney Historic Community and to adequately address other Project elements. This use of Town-owned land may be for purposes of right-of-way acquisition, project and wayfinding signage, landscaping, stormwater, or other similar Project purposes. Additionally, the Town Council will evaluate the use of Town properties within the Project corridor to support the efforts of the Gullah Geechee Historic Neighborhoods

Community Development Corporation in restoring economic opportunities within the Stoney Historic Community and the overall stabilization of this neighborhood.

6. A new park will be created south of U.S. Highway 278 in the Stoney Historic Community to showcase the Gullah Geechee culture/heritage.

7. Drainage improvements will be constructed within the part of the corridor beginning where the bridge meets Jenkins Island and extending through the Stoney Historic Community to the intersection of U.S. Highway 278 and Spanish Wells and Wild Horse Roads to improve stormwater conveyance both as part of the Project and as a part of the mitigation of any corresponding impacts to adjoining private properties.

8. Landscaping, lighting, and community sensitive signage will be installed throughout the Stoney Historic Community in order to provide this area with a clear sense of place to elevate this portion of the Project. This will also include a review of existing highway signage to determine if more appropriate alternatives can be utilized that are sensitive to the neighborhood context of the corridor.

9. Increased traffic and speed enforcement will be pursued within the area beginning at U.S. Highway 278 and Moss Creek Drive and continuing to the intersection of U.S. Highway 278 and Spanish Wells and Wild Horse Roads, including the bridges, Jenkins Island, and the Stoney Historic Community areas.

ECONOMIC SUSTAINABILITY:

1. Evaluation of multi-modal transportation opportunities, including ferry options, park and ride facilities, and other various modes of mass transit will be pursued to reduce travel demand for vehicles through the corridor.

2. The acceleration of the evaluation of a second bridge to Hilton Head Island through the Lowcountry Area Transportation Study (LATS) as outlined in the Long-Range Transportation Study for the region is supported and will be pursued.

3. Any additional recommendations from the Independent Review and Study will be considered, including those elements that may be outside of the defined Project area.

4. All parties will work cooperatively to seek the funding that will be necessary to implement the proposed Project improvements and any additional elements that are identified outside of the Project area.

5. It is acknowledged that a Tax Increment Financing ("TIF") District is a beneficial financial tool to facilitate the investment in community infrastructure for the Skull Creek Planning District (Exhibit 4), which includes the Stoney Historic Community. All parties will work cooperatively to

assess and consider establishing a TIF District within twelve (12) months following the adoption of this Agreement.

IN WITNESS WHEREOF, the Town of Hilton Head Island, South Carolina, and Beaufort County, South Carolina, by and through their duly authorized officers, have executed this Memorandum of Understanding on this ___day of June, 2024.

WITNESSES:

TOWN OF HILTON HEAD ISLAND

By: _____

Name: Marc Orlando

Title: Town Manager

WITNESSES:

BEAUFORT COUNTY

_____

By: _____

Name: _____

_____

Title: County Administrator

EXHIBIT "1" TO MEMORANDUM OF
AGREEMENT WITH BEAUFORT COUNTY, SOUTH CAROLINA

William Hilton Parkway Gateway Corridor Project

FULL PROJECT EXTENT

EXHIBT 1

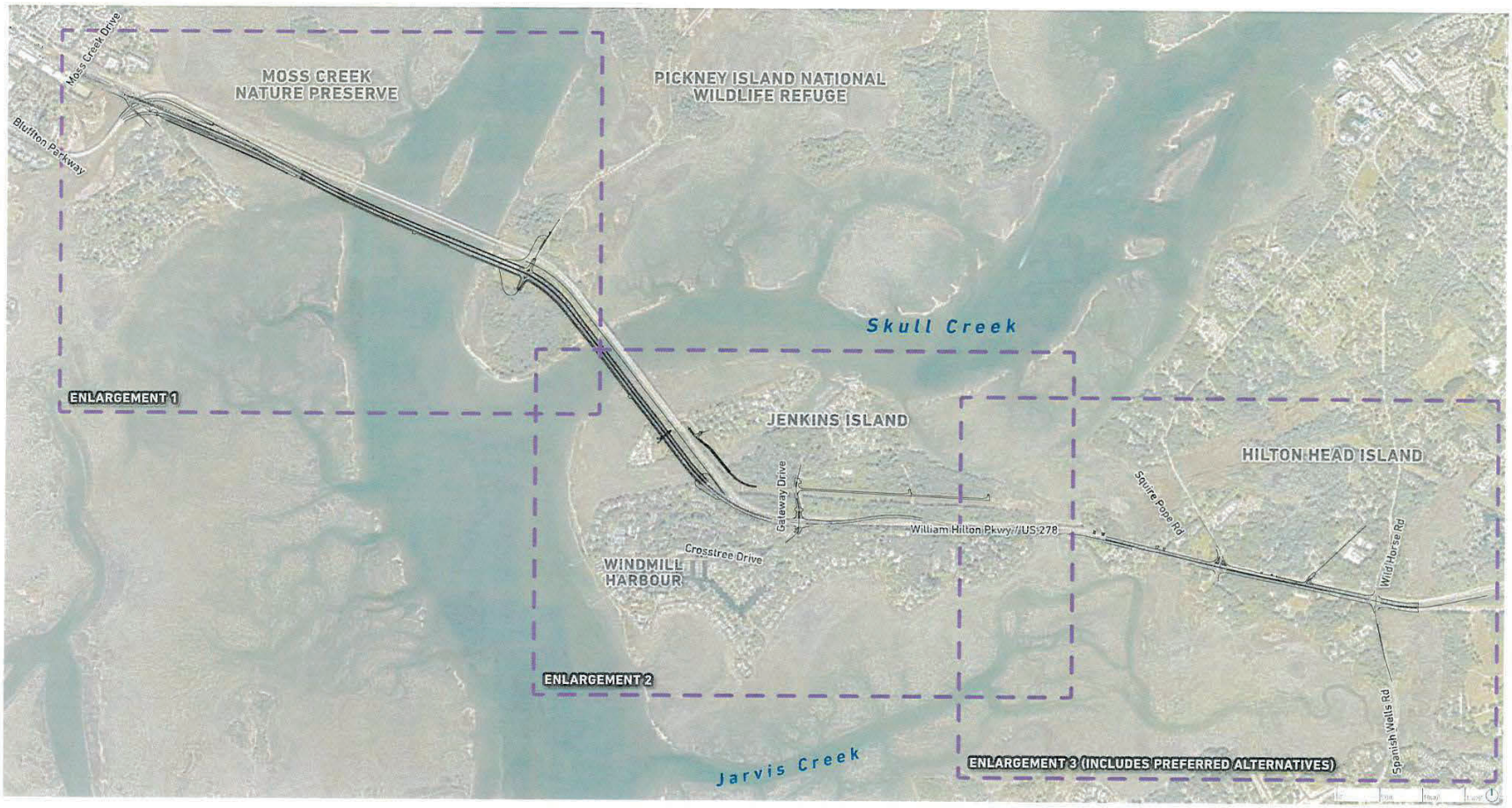


EXHIBIT "2" TO MEMORANDUM OF
AGREEMENT WITH BEAUFORT COUNTY, SOUTH CAROLINA

EXHIBT 2

William Hilton Parkway Gateway Corridor Project

BRIDGE SECTION ENLARGEMENT



EXHIBIT 2

William Hilton Parkway Gateway Corridor Project

STONEY AREA SECTION ENLARGEMENT

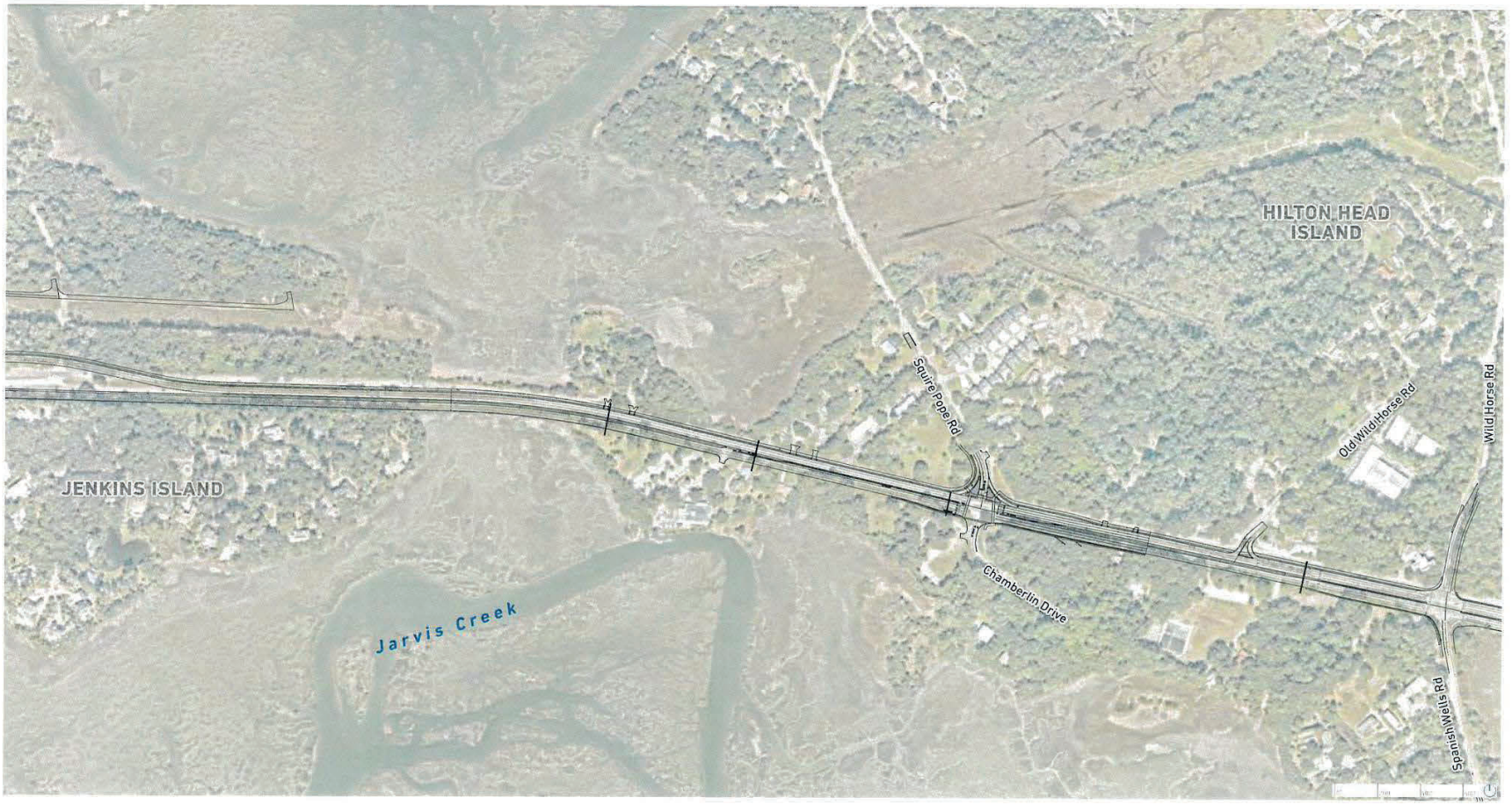


EXHIBIT 2

William Hilton Parkway Gateway Corridor Project

JENKINS ISLAND SECTION ENLARGEMENT



EXHIBIT 2

Current Proposal

WINDHILL HARBOR INTERSECTION ENLARGEMENT

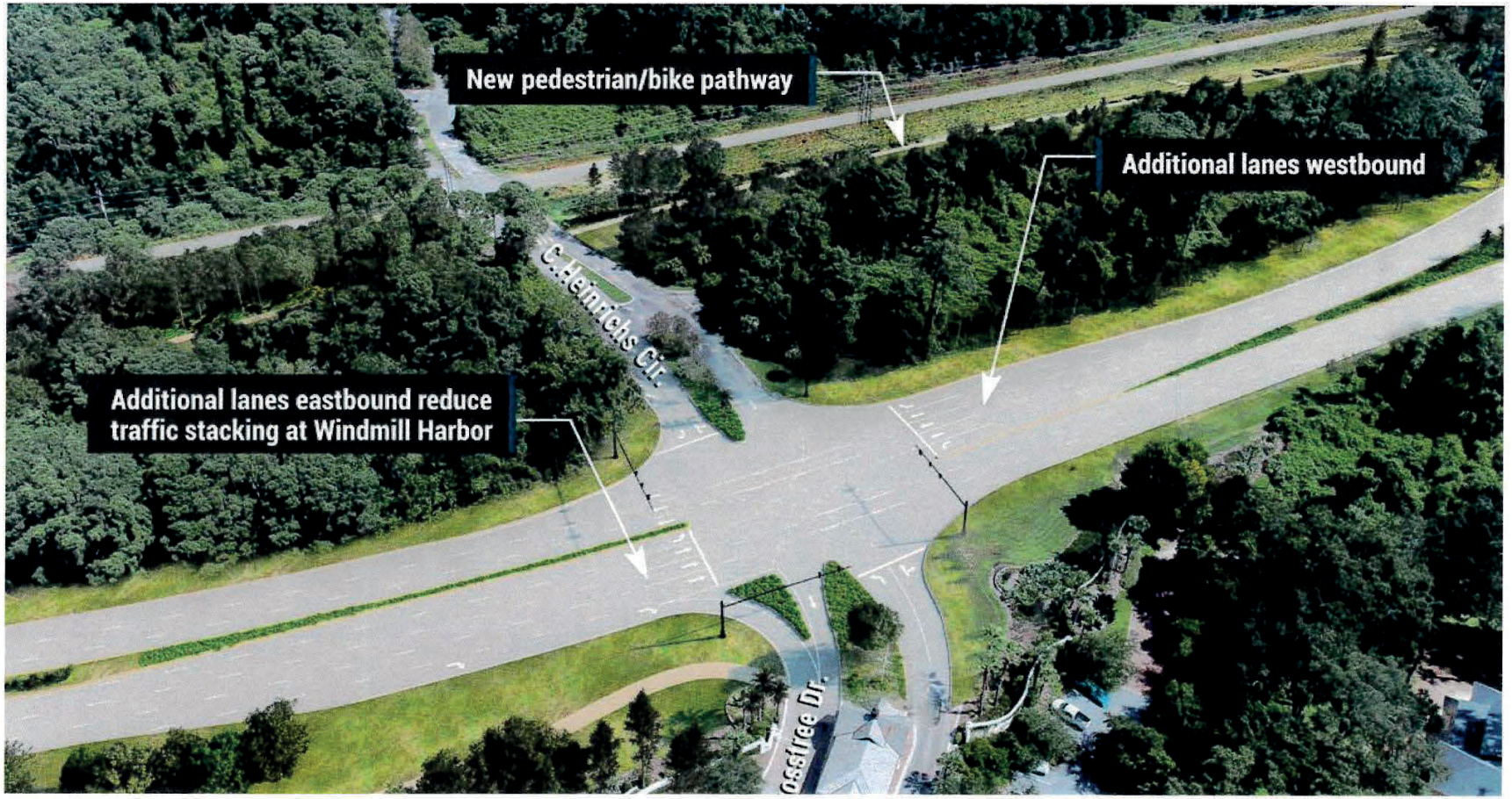


EXHIBIT 2

William Hilton Parkway Gateway Corridor Project

SQUIRE POPE ROAD / CHAMBERLIN DRIVE INTERSECTION ENLARGEMENT

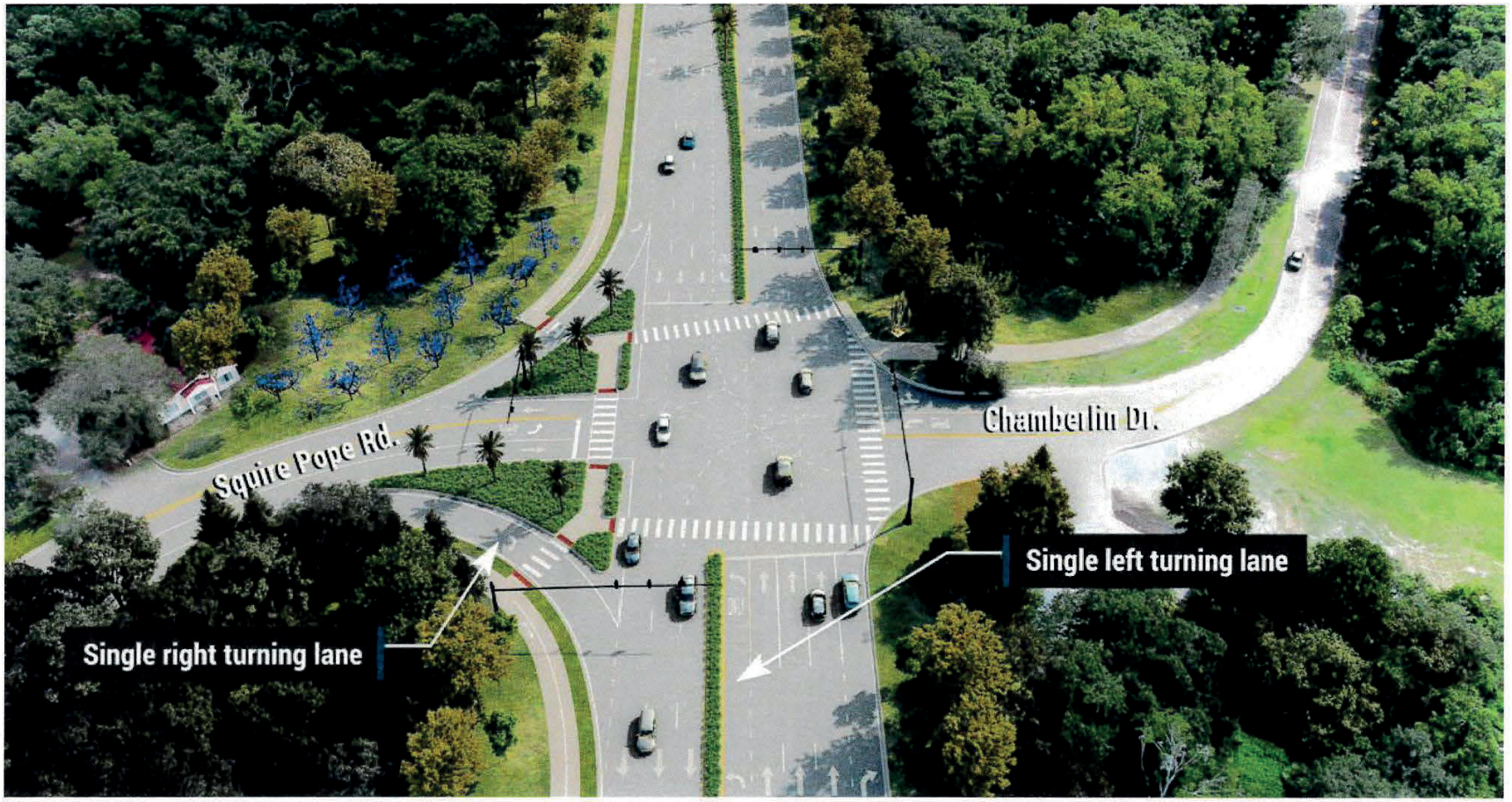


EXHIBIT 2

William Hilton Parkway Gateway Corridor Project

WILD HORSE ROAD / SPANISH WELLS ROAD INTERSECTION ENLARGEMENT



EXHIBIT "3" TO MEMORANDUM OF
AGREEMENT WITH BEAUFORT COUNTY, SOUTH CAROLINA

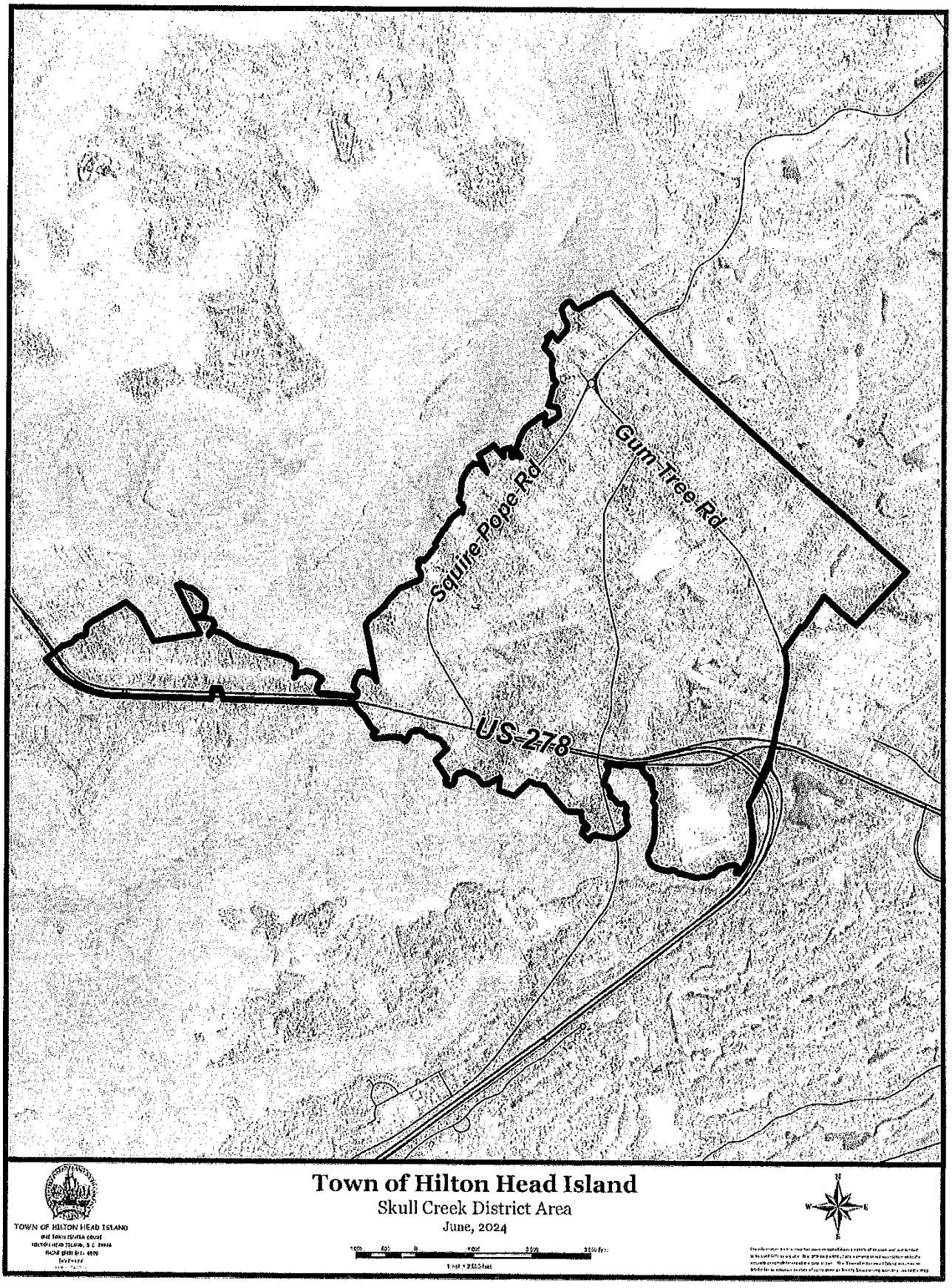
EXHIBIT 3

Traditional Cultural Property Boundary



EXHIBIT "4" TO MEMORANDUM OF
AGREEMENT WITH BEAUFORT COUNTY, SOUTH CAROLINA

EXHIBIT 4


Squire Pope Rd
Gum Tree Rd
US-278
Town of Hilton Head Island
Skull Creek District Area
June, 2024
TOWN OF HILTON HEAD ISLAND

Town of Hilton Head Island

Community Development Department
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4757 Fax: 843-842-8908
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received:
Accepted by:
Project Mgr:
App. #: DPR
Fees:

September 24, 2024
EXHIBIT
Hank Amundson
5

APPLICATION PACKET FOR
MAJOR SITE DEVELOPMENT PLAN REVIEW (DPR)

Project Name: Daufuskie Ferry at Cross Island Project Address: 68 Helmsman Way
Parcel Number [PIN]: R_ _ _ _

STANDARD SITE PLAN SUBMITTAL REQUIREMENTS – See LMO Appendix D-6

Note: Applicants may use this checklist as a guide for which documents are required for submittal.

Written Project Narrative, describing: ____Scope of the project, proposed specific use ____ Number of Buildings ____Square Footage of each Building ____Square Footage of each Use ____Number of Stories for each Building ____Maintenance Responsibility ____Dedicated Improvements ____Any Protected Species	**Site Lighting Plan (if not previously submitted):** ____ Light levels- existing & proposed ____ Fixture Locations- existing & proposed ____ Manufacturer's Photometric Data **Landscape Plan (if not previously submitted):** ____ Planting Plan ____ Plant Schedule ____ Irrigation Plan
Site Development & Boundary Plan: ____ Name of Development ____ Legend defining all symbols, scale & north arrow ____ Tax Map & Parcel Number ____ Date & Revisions & Vicinity Sketch ____ Acreage ____ FEMA Flood Zone ____ Original Seal & Signature ____ Reference Plats ____Topographic Information ____Trees 6" Diameter & Over ____Existing Structures within 50 Feet ____Off-street Loading Areas ____Parking Calculations & Dimensions ____Impervious Surface Calculations ____Open Space Calculations ____Setback & Buffer Areas ____Wetlands Delineation ____Fire Hydrants & Fire Lanes ____Trash Receptacles & Enclosures ____HVAC and utility pedestals ____ Location of Tree Protection Fencing around trees to be protected and along the edge of required buffers	**Tree Protection Plan:** ____ Narrative ____Tree Survey (no older than 2 years) ____Tree Tally Sheets ____ Replacement or supplemental tree plantings schedule, if required ____ Method & location of tree protection **Engineering:** ____Pre-Design Conference Certification ____Storm Water Calculations ____Traffic Control Plan (Signage and Marking) ____Storm Water Review Application & checklist **Others:** ____ Hydrant flow data ____ Grading Plan showing any proposed grading ____ Paving & Drainage Plan with drainage locations ____ Water & Sewer Line Layout ____ Septic or Waste System Layout ____ Electric Line Layout (including lighting) ____Phasing Plan ____ Archaeological Protection
OCRM/DHEC Approval: ____ Beach/Dune Activity ____ Coastal Zone Consistency Letter ____ Land Disturbance Town & DHEC NOI if >1 acres ____ Water Plan ____ Sewer Plan ____ Air & Water Quality Approval ____ Septic Tank Approval	**Wetlands Information:** Total Wetland Area in Acres: _____ _____ Copy of Delineation (letter & survey) of wetland approved by Army Corps of Engineers _____ Wetlands Alteration Permit (Army Corps of Engineers)
Encroachment Permit: ____ SC Department of Transportation ____ Beaufort County ____ Town of Hilton Head Island	**Utility Approval:** ____ PSD Water ____ PSD Sewer ____ Electric Company ____ Telephone Company
____ Other Governmental Approvals	*Disclaimer: Although the application has been accepted, it may not be complete per the Town of Hilton Head Island Land Management Ordinance.*

AFFIDAVIT OF OWNERSHIP AND RESPONSIBILITIES
AND
HOLD HARMLESS PERMISSION TO ENTER PROPERTY

The undersigned being duly sworn and upon oath states as follows:

1. I am the current owner of the property which is the subject of this application.
2. I hereby authorize Jared Fralix to act as my agent for this application only.
3. All statements contained in this application have been prepared by me or my agents and are true and correct to the best of my knowledge.
4. The application is being submitted with my knowledge and consent.
5. Owner grants the Town, its employees, agents, engineers, contractors or other representatives the right to enter upon Owner's real property, located at 68 Helmsman Way (address), R 5 5 2 0 1 0 0 6 5 0 0 0 0 0 (parcel ID) for the purpose of application review, for the limited time necessary to complete that purpose.
   Description of Work: Parking and infrastructure to support proposed building for Daufuskie Ferry Embarkation
6. Owner agrees to hold the Town harmless for any loss or damage to persons or property occurring on the private property during the Town's entry upon the property, unless the loss or damage is the result of the sole negligence of the Town.
7. I acknowledge that the Town of Hilton Head Island Municipal Code requires that all construction in a Special Flood Hazard Zone be constructed in accordance with the following provisions that:
   a. any enclosed area below the base flood elevation will be used solely for parking of vehicles, limited storage or access to the building. This space will never be used for human habitation without first becoming fully compliant with the Town's Flood Damage Controls Ordinance in effect at the time of conversion.
   b. all interior walls, ceilings and floors below the base flood elevation will be constructed of flood resistant materials.
   c. all mechanical, electrical and plumbing devices will be installed above base flood elevation.
   d. walls of the enclosed area below base flood elevation will be equipped with at least two openings which allow automatic entry and exit of flood water. Openings will be on two different walls with at least one square inch of free area for every square foot of enclosed space and have the bottom of openings no more than a foot above grade.
   e. the structure may be subject to increased premium rates for flood insurance from the National Flood Insurance Program.
8. I understand that failure to abide by Town permits, any conditions, and all codes adopted by the Town of Hilton Head Island deems me subject to enforcement action and/or fines.

.

Print Name: _____ Owner Signature: _____

Phone No.: _____ Email: _____

The foregoing instrument was acknowledged before me by _____, who is personally known to me or has produced _____as identification and who did not take an oath.

WITNESS my hand and official seal this _____day of _____,A.D., 2____ .

_____ My Commission expires: _____
Notary Public Signature Please affix seal or stamp.

Town of Hilton Head Island

Community Development Department
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4757 Fax: 843-842-8908
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received: _____
Accepted by: _____
Associated Application Number: _____

Applicant/Agent Name: Todd M. Parrott Company: The Greenery Inc.
Telephone: 843-415-6023 Fax: _____ E-mail: Todd Parrott@thegreenery inc.com
Project Name: Daufuskie Embarkation Project Address: 6 Shelmsland Way
Parcel Number [PIN]: R522 010 000 0650 0000

TREE TALLY SHEET – Trees Cut

PROJECT SITE ACREAGE 3.892 Ac

[ ] PRE-DEVELOPMENT [✓] POST DEVELOPMENT [ ] BUFFER [✓] NON-BUFFER

CATEGORY I			CATEGORY II			CATEGORY III			CATEGORY IV		
LO	LA		WO	SGM		PN	PN	PLM			
16	17		13	10		8	10	15			
16	15		17			17	17				
14	12		9			17	13				
	14		8			11	15				
	14					8	13				
	12					13					
	12					20					
	17					14					
	15					23					
	10					25					
	8					10					
	13					20					
	8					16					
	11					19					
	15					19					
	9					18					
	12					18					
	8					19					
						20					
						15					
						17					
TOTAL # TREES: 21			TOTAL # TREES: 5			TOTAL # TREES: 27			TOTAL # TREES: 0		
TOTAL DBH INCHES: 268			TOTAL DBH INCHES: 57			TOTAL DBH INCHES: 430			TOTAL DBH INCHES: 0		

Note: Use additional sheets if necessary.

Last Revised 5/4/10

Note: Trees Cut.

Town of Hilton Head Island

Community Development Department
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4757 Fax: 843-842-8908
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received: _____
Accepted by: _____
Associated Application Number: _____

Applicant/Agent Name: Tony M. Parrott Company: The Greenery Inc.
Telephone: 843-415-6023 Fax: _____ E-mail: Tony Parrott@thegreeneryinc.com
Project Name: Daufuskie Ferry Embarkation Project Address: 68 Shelmswand Way
Parcel Number [PIN]: R522 010 000 0650 0000

TREE TALLY SHEET

PROJECT SITE ACREAGE 3.892 AC
[✓] PRE-DEVELOPMENT [ ] POST DEVELOPMENT [ ] BUFFER [ ] NON-BUFFER

CATEGORY I			CATEGORY II			CATEGORY III			CATEGORY IV		
LO	LA	LA	WO	SGM		PN	PN	PLM			
16	17	25	13	10		8	10	15			
16	15	9	17	8		17	17	16			
14	12	10	9			17	13	15			
	14	15	8			11	15	15			
11	14	8	9			8	13	18			
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10	17	10				14	8	14			
17	15	17				23	12				
6	10	10				25	19				
8	8	15				10	14				
8	13					20	20				
15	8					16	21				
11	11					19	13				
16	15					19	10				
10	9					18	17				
17	12					18	8				
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18	10					20	21				
16	7					15	11				
12	8					17	11				
TOTAL # TREES: 21			TOTAL # TREES: 5			TOTAL # TREES: 27			TOTAL # TREES: 0		
TOTAL DBH INCHES: 268			TOTAL DBH INCHES: 57			TOTAL DBH INCHES: 430			TOTAL DBH INCHES: 0		

Note: Use additional sheets if necessary.

Last Revised 5/4/10

SHEET 1

Town of Hilton Head Island

Community Development Department
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4757 Fax: 843-842-8908
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received: _____
Accepted by: _____
Associated Application Number: _____

Applicant/Agent Name: Todd M. Parrott Company: The Greenery Inc
Telephone: 843 415.6023 Fax: _____ E-mail: Todd Parrott @ The Greenery Inc.com
Project Name: Dalebrooke Refurbishment Project Address: 68 Hillmann Way
Parcel Number [PIN]: R 522 010 000 0650 0000

TREE TALLY SHEET

PROJECT SITE ACREAGE 3.892 Ac

[✓] PRE-DEVELOPMENT [ ] POST DEVELOPMENT [ ] BUFFER [ ] NON-BUFFER

CATEGORY I			CATEGORY II			CATEGORY III			CATEGORY IV		
10	10					TRE	PN	PN			
16	6					8	13	6			
25						14	17	10			
24						11	22	9			
29							10	8			
9							21	5			
26							9	8			
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10							10				
14							13				
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6							9				
8							8				
4							9				
6							8				
8							20				
3							6				
TOTAL # TREES:			TOTAL # TREES:			TOTAL # TREES:			TOTAL # TREES:		
TOTAL DBH INCHES:			TOTAL DBH INCHES:			TOTAL DBH INCHES:			TOTAL DBH INCHES:		

Note: Use additional sheets if necessary.

Last Revised 5/4/10

SHEET 2

Town of Hilton Head Island

Community Development Department
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4757 Fax: 843-842-8908
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received: _____
Accepted by: _____
Associated Application Number: _____

Applicant/Agent Name: Todd M. Parrott Company: The Greenery Inc
Telephone: 843-415-6023 Fax: _____ E-mail: toddparrott@thegreenery.com
Project Name: Dalfuskie Rehabilitation Project Address: 68 Helmsman Way
Parcel Number [PIN]: R522 010 000 0050 0000

TREE TALLY SHEET

PROJECT SITE ACREAGE 3.892 AC

[✓] PRE-DEVELOPMENT [ ] POST DEVELOPMENT [ ] BUFFER [ ] NON-BUFFER

CATEGORY I	CATEGORY II	CATEGORY III	CATEGORY IV
		4P	
		4	
		6	
TOTAL # TREES:	TOTAL # TREES:	TOTAL # TREES:	TOTAL # TREES:
TOTAL DBH INCHES:	TOTAL DBH INCHES:	TOTAL DBH INCHES:	TOTAL DBH INCHES:

Note: Use additional sheets if necessary.

Last Revised 5/4/10

SHEET 3

Town of Hilton Head Island

Engineering Division

One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4600 Fax: 843-842-8587
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received: _____
Accepted by: _____
App. #:DPR_____
Meeting Date: _____

Project Name: _____ Project Address: _____

Applicant/Agent Name: _____

Owner Name: _____

Engineer of Record: _____

Parcel Number [PIN]: R__ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __

Proposed Area of Disturbance (acres): _____

Existing Impervious Area (sq. ft.): _____ Proposed Impervious Area (sq. ft.) _____

STORMWATER PLAN REVIEW SUBMITTAL REQUIREMENTS

*If the Area of Disturbance (above) is less than 0.5 acre or a single family residential that is not part of a larger common development, the items listed below are not required for review.

All items (if determined applicable by staff) are required at the time the application is submitted.

Further documentation may be required upon review of the application.

Digital Submissions are accepted via e-mail to cdic@hiltonheadislandsc.gov or to the Project Manager

_____ SCDHEC *Stormwater Management and Sediment and Erosion Control Plan Review Checklist*

_____ SCDHEC *Notice of Intent (only if development disturbs > 1 acres)*

_____ Town of Hilton Head Island *Permanent Stormwater System Maintenance and Responsibility Agreement* is required to be prepared and executed for all permanent drainage facilities. This agreement must be approved by the Town Engineer and executed by the Owner

_____ Town of Hilton Head Island Land Disturbance Permit Application

_____ Town of Hilton Head Island Engineering Pre-Design Certification Form

_____ Town of Hilton Head Island Engineering Checklist

_____ Stormwater Calculations per Section 16-5-109 of the LMO

Note: Further documentation may be required upon review of the application.

TOWN OF HILTON HEAD ISLAND STORMWATER PLAN REVIEW CHECKLIST			
Use this checklist to prepare the required Development Plan Review submittals. Please note that the following checklist is not all-inclusive. This checklist is intended to guide the preparation of the construction plans and calculations and is subject to change as necessary for clarification and updated according to current code and agency requirements.			
CONSTRUCTION PLANS – GENERAL INFORMATION			
Requirement	**Yes**	**No**	**N/A**
PROFESSIONAL SEAL AND SIGNATURE required on final and complete approved plans, drawings, technical reports and specifications	☐	☐	☐
DESIGNER INFORMATION - The engineer, surveyor, and/or landscape architect's name, address, telephone number, and e-mail address	☐	☐	☐
APPLICANT INFORMATION - The owner's and/or developers name, address, telephone number, and e-mail address	☐	☐	☐
PLAN DATE and all revision dates with a brief description of the items revised	☐	☐	☐
TITLES AND NUMBERING for all plan sheets	☐	☐	☐
VICINITY MAP with street names and the site location	☐	☐	☐
SCALE at 1" = 30' minimum - Provide a graphic scale	☐	☐	☐
NORTH ARROW	☐	☐	☐
PLAN LEGEND with line types and symbols	☐	☐	☐
BOUNDARY SURVEY of project site (Metes and Bounds, computed acreage, benchmarks, control points, property corners, reference plats)	☐	☐	☐
PROPERTY INFORMATION for all parcels and adjacent parcels (tax map and parcel number, owner's name and address)	☐	☐	☐
OFF-SITE CONSTRUCTION requires a recorded easement or notarized right of entry from the affected property owner(s)	☐	☐	☐
PROJECT OR CONSTRUCTION PHASE LINES (where applicable)	☐	☐	☐
TOPOGRAPHY of the site and surrounding vicinity, showing existing and proposed contours with intervals of one (1) foot (max) and spot elevations as necessary. Reference source and date of all topography.	☐	☐	☐
VERTICAL DATUM - NAVD88 required	☐	☐	☐
EXISTING AND PROPOSED SITE FEATURES - buildings, parking lots, patios, pools, water bodies, driveways, sidewalks, and bike paths.	☐	☐	☐
PERVIOUS MATERIAL - Location of existing and proposed pervious surface materials including pavers, granite stone #57 or CR-14 (stone choked with sand, not Crusher run)	☐	☐	☐
FINISH FLOOR ELEVATIONS of proposed buildings	☐	☐	☐
EXISTING AND PROPOSED UTILITIES - Show and label all existing and proposed utilities (above ground and underground).	☐	☐	☐
EXISTING AND PROPOSED RIGHTS-OF-WAY – Location, width, and ownership information for existing and proposed rights-of-way.	☐	☐	☐
EXISTING AND PROPOSED DRAINAGE EASEMENTS - Location, width, and recordation information for all existing and proposed drainage easements per Section 16-5-109.G. of the LMO	☐	☐	☐
EXISTING AND PROPOSED DRAINAGE STRUCTURES AND FACILITIES – Location of natural and manmade drainage infrastructure including pipes, swales, ditches, channels, curb and gutter, roof drains per Section 16-5-109 of the LMO.	☐	☐	☐
DRAINAGE PATTERNS with flow direction arrows	☐	☐	☐
OCRM CRITICAL LINE delineated and shown on plan (where applicable)	☐	☐	☐
ENVIRONMENTALLY SENSITIVE AREAS such as wetlands, floodplains, critical soils, buffers, etc.	☐	☐	☐
FLOODPLAIN LIMITS and **FEMA FIRM PANEL** referenced with designated special flood hazard areas or zone designations associated with the site (where applicable)	☐	☐	☐

AREA OF DISTURBANCE – Tabulation of disturbed area and limits of disturbance delineated on plans. Includes area required for implementation of erosion and sediment controls, stockpile areas and utilities.	☐	☐	☐
IMPERVIOUS SURFACE COVERAGE - Tabulation of impervious cover applicable to the zoning district in which development is located	☐	☐	☐
CONSTRUCTION PLANS - PLAN INFORMATION			
DRAINAGE INFORMATION			
1. Storm sewer – invert elevations, lengths, size (15" min. diameter or equivalent), material types, pipe class and slopes for all segments labeled on plan and correspond to calculations. Reinforced Concrete Pipe AASHTO M170 or ASTM Spec C-76, Class II and III, and corrugated High Density Polyethylene ASTM F2648 are permitted for drainage systems within the Town. Such other pipe as is approved in writing by the Town Engineer may be used.	☐	☐	☐
2. Drainage structures (inlets, manholes, junctions, etc.) - rim elevations, invert elevations, inlet type and required grate or top unit and lengths labeled on plan and correspond to calculations.	☐	☐	☐
3. Pipes and structures numbered or labeled and correspond to calculations	☐	☐	☐
4. Adequate horizontal clearance from other site utilities or structures	☐	☐	☐
5. Delineation of ponding, headwater, surcharge or backwater areas which may affect adjacent existing or proposed buildings, structures or upstream adjacent properties	☐	☐	☐
PROFILES are encouraged to expedite review. If not provided, ensure all pipe segments have adequate minimum cover, do not exceed maximum depths of cover for the type/class of pipe specified, and do not conflict with other site utilities or excavation areas	☐	☐	☐
EROSION AND SEDIMENT CONTROL PLAN per Section 16-5-109 of the LMO and in accordance with SCDHEC Stormwater Management and Sediment and Erosion Control Plan Review Checklist For Design Professionals.	☐	☐	☐
CONSTRUCTION DETAILS			
1. Typical bedding details for all proposed storm pipe	☐	☐	☐
2. Standard details or reference note for all proposed access structure types (inlets, manholes, junctions, etc.)	☐	☐	☐
3. Catch basins shall provide for a bottom sand trap of 1.0 feet below the inlet or outlet, i.e. basins may be required to provide baffles for oil and grease trap operation	☐	☐	☐
4. Step detail or applicable reference note (if depth 4 ft. or more)	☐	☐	☐
5. Open channel details: shape, bottom width, top width, side slopes, etc.	☐	☐	☐
6. Outlet protection	☐	☐	☐
7. All special design structures (flumes, basin outlets, energy dissipators, etc.)	☐	☐	☐
8. Storm water management details for embankment, principal spillway, trash rack, anti-vortex device, anti-seep collars, etc.	☐	☐	☐
9. Construction Details of standard structures (Drop Inlets, Curb/Gutter, etc.)	☐	☐	☐
10. Catch basins provide for a bottom sediment trap of 1' below the inlet or outlet	☐	☐	☐
STORM WATER FACILITY – GENERAL INFORMATION			
1. Basic considerations for safety and unauthorized entry	☐	☐	☐
2. Proper length/width ratio	☐	☐	☐
3. Safety bench around permanent pool; 10' Minimum width	☐	☐	☐
4. Embankment or excavation side slopes labeled (slope varies per BMP type).	☐	☐	☐
5. Material with watertight joints.	☐	☐	☐
6. Support and bedding requirements for barrel – concrete cradles, etc. or as recommended by the Geotechnical Report	☐	☐	☐
7. End treatment (Flared end section, headwall, wingwall) at barrel outlet	☐	☐	☐
8. Anti-seep collar(s)	☐	☐	☐
STORM WATER FACILITY - ELEVATION AND DIMENSIONAL DATA			
1. All pertinent dimensions and elevations shown	☐	☐	☐

2. Riser diameter	☐	☐	☐
3. Control orifice or weir dimensions and elevations shown	☐	☐	☐
4. Pipe inverts, length, size, class and slope shown	☐	☐	☐
5. Top of facility – elevation and width labeled (15' Minimum)	☐	☐	☐
6. Crest elevation of principal control structure spillway	☐	☐	☐
7. Minimum freeboard of one (1) foot above the 100-year design high water elevation for facilities with an emergency spillway	☐	☐	☐
8. Minimum freeboard of two (2) feet above the 100-year design high water elevation for facilities without an emergency spillway or in accordance with the SCS National Engineering Handbook (prior approval required)	☐	☐	☐
9. Basin Sediment Clean-Out elevation	☐	☐	☐
STORM WATER FACILITY - CROSS SECTION			
1. Existing Ground	☐	☐	☐
2. Proposed grade	☐	☐	☐
3. Top of facility - constructed and settled	☐	☐	☐
4. Emergency spillway with side slopes labeled (emergency spillway in cut)	☐	☐	☐
5. Barrel location	☐	☐	☐
STORMWATER FACILITY - EMERGENCY SPILLWAY PROFILE			
1. Existing ground	☐	☐	☐
2. Inlet, level (control) and outlet sections	☐	☐	☐
3. Spillway and crest elevations	☐	☐	☐
PRETREATMENT DEVICES of adequate depth and properly designed using required pretreatment volumes for the selected County BMP facility type	☐	☐	☐
OUTLET PROTECTION			
1. Sized for maximum design release	☐	☐	☐
2. Flared end section or endwall	☐	☐	☐
3. Dimensions	☐	☐	☐
4. Rock or riprap size, quantity and placement thickness	☐	☐	☐
5. Slope at 0 percent (Level Grade)	☐	☐	☐
6. Geotextiles (nonwoven)	☐	☐	☐

STORM WATER MANAGEMENT PLAN – Storm Water Management plan and calculations in accordance with Section 16-5-109 of the LMO.			
Requirement	**Yes**	**No**	**N/A**
STORM WATER MANAGEMENT and DRAINAGE DESIGN REPORT signed and sealed by Professional Engineer registered in South Carolina. Shall generally include a title sheet, date, project identification, owner and preparer information, table of contents, narrative, summaries and computations as required.	☐	☐	☐
STORMWATER MANAGEMENT NARRATIVE describing the project, location, site and drainage basin soil characteristics, receiving water or drainage facility, existing site and drainage basin conditions (topography, land use, cover, slopes, etc.), proposed site development, proposed stormwater management Best Management Practices, summary of hydrology and hydraulics, maintenance program, and any special assumptions utilized for development of the stormwater management and drainage design plan or computations.	☐	☐	☐
DRAINAGE AREA MAP depicting drainage area boundaries for pre- and post-development conditions. Maps shall include drainage area size, runoff coefficient or curve number and time of concentration flow paths for each sub-area. Include off-site drainage where applicable. Clearly show roof drainage flow directions on buildings.	☐	☐	☐
SOILS MAP with soil symbols, Hydrologic Soil Group, soil boundaries and legend in accordance with the current Soil Survey of Beaufort County, South Carolina with approximate locations of the project site, BMPs and applicable drainage basins	☐	☐	☐
GEOTECHNICAL REQUIREMENTS 1. Groundwater Elevations – Seasonal high to be used for design purposes; Test boring locations with reference surface elevations (if known). 2. Geotechnical report prepared by a registered professional engineer with recommendations specific to BMP facility type selected.	☐ ☐	☐ ☐	☐ ☐
METHODOLOGY for surface runoff calculations in accordance with Section 16-5-109 of the LMO 1. Rational Method; drainage area of 20 acres or less 2. USDA NRCS TR-55 Method; sites of any size 3. The Savannah Intensity—Duration Curve shall be used in computations	☐	☐	☐
DESIGN STORM 25-year Frequency/24 Hour/8.4 Inch Rainfall, Antecedent Condition II. Type III distribution curve.	☐	☐	☐
HYDROLOGY CALCULATIONS - Provide supporting calculations for the hydrologic analysis of both pre-developed and post-developed conditions at each outfall point on the project site. 1. Calculations to include runoff Curve Number or Coefficient and Time of Concentration 2. Runoff Curve Number or Coefficient determinations: pre-developed and ultimate development land use scenarios. Shall be in all cases acceptable to Town Engineer. 3. Curve Numbers shall not be less than the minimums established in the latest edition of the National Engineering Handbook, Part 630 (Hydrology), and shall be in all cases acceptable to the Town Engineer. 4. Site inflow and outflow Hydrograph generation (tabular or graphical) for the 25-year design storm event 5. Site inflows C.F.S. (Hydrograph); 6. Site outflows C.F.S. (Hydrograph); 7. Tidal backwater effects; 8. Soil characteristics; 9. Static water levels; 10. Peak water levels—25-year storm; Peak water levels shall be checked relative to a 100 year storm frequency in setting first flow elevations; and 11. Pre-development conditions shall be carefully evaluated as to adequacy of drainage design (if any), and removed, replaced, or reworked if found	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

unsatisfactory			
HYDRAULIC CALCULATIONS			
1. Elevation- or Stage-Storage curve and/or tabular data	☐	☐	☐
2. Weir / Orifice Control calculations	☐	☐	☐
3. Inlet / Outlet (barrel) control calculations	☐	☐	☐
4. Emergency spillway capacity and depth of flow	☐	☐	☐
5. Elevation - Discharge (Outlet Rating) curve and/or table.	☐	☐	☐
6. Adequate channel computations for receiving channel	☐	☐	☐
7. Permanent pool, 25-Year, 100-Year water surface elevations	☐	☐	☐
8. Tidal backwater effects taken into consideration	☐	☐	☐
9. Pipe calculations - Capacity, Flow Rate, Velocity, and Flow Depth; 25-year storm event. All storm sewer pipe shall be designed and constructed to produce a minimum velocity of two (2) feet per second (ft/s) when flowing full, unless site conditions do not allow. No storm sewer system or portion thereof will be designed to produce velocities in excess of ten (10) ft/s.	☐	☐	☐
10. Hydraulic Grade Line computations; 25-year storm event	☐	☐	☐
11. Open Channel computations; Capacity, Flow Rate, Velocity, and Flow Depth; 25-year storm event, 2-year storm event for velocity	☐	☐	☐
12. Culvert computations – Capacity, Headwater depth, Velocity; 25-year storm event, 100-year storm event check	☐	☐	☐
13. Pipe thickness design computations, as required, for selected pipe type (live load, minimum cover, maximum height of cover, etc.)	☐	☐	☐
14. Downstream receiving channel check (based on field measured channel section data); 25-year storm event	☐	☐	☐
15. Inlet / Catch Basin computations - Throat length, grate size, and inlet placement; 2-year storm event	☐	☐	☐
16. Outlet velocity and outlet protection calculations; Discharge velocities shall be reduced to provide a non-erosive velocity flow from a structure, channel, or other control measure or the velocity of the 10-year, 24-hour storm runoff in the receiving waterway prior to the land disturbance activity, whichever is greater.	☐	☐	☐
17. Curb and Gutter calculations -Spread and Ponding depth; 2-year storm event	☐	☐	☐
18. Storage-Indication Routing of post-developed inflow hydrographs; 25-year design storm	☐	☐	☐
19. Downstream hydrographs at established study points, if conditions warrant (i.e. facility discharge combined with uncontrolled bypass)	☐	☐	☐
20. Provisions for retention of "First Inch" runoff from on-site impervious surfaces			
21. Pre- vs. Post-development peak discharge calculations	☐	☐	☐
22. Provisions for treatment of First Flush runoff	☐	☐	☐
23. Design for 10-year sediment load storage	☐	☐	☐
MISCELLANEOUS			
1. Riser / base structure flotation analyses (if warranted)	☐	☐	☐
2. Downstream danger reach study and/or emergency action plan (if conditions warrant)	☐	☐	☐
3. Upstream backwater analyses onto offsite adjacent property (if conditions warrant)	☐	☐	☐
4. 100-year floodplain impacts (if conditions warrant)	☐	☐	☐

Town of Hilton Head Island
Engineering Division
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4600 Fax: 843-842-8587
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY
Date Received: _____
Accepted by: _____
App. #:DPR_____
Meeting Date: _____
NPDES Permit No: _____

LAND DISTURBANCE PERMIT APPLICATION

This permit is for the initiation of land disturbing activities that may be associated with other approved or permitted work. Submission of this application certifies that all site erosion, sediment, and pollution control BMPs have been installed and are ready for Town inspection. The approval of this permit does not obligate the Town of Hilton Head Island to issue a building permit or permit for site infrastructure improvements. This permit, and the associated installations, will not be authorized until all other Federal, State, and Local permits and approvals have been obtained, where applicable. Any violation of Federal, State or Town ordinances and permits can result in an immediate Stop Work Order or permit termination. A copy of this permit shall be available on-site at all times for reference by site operators and government officials.

Project Name: Daufuskie Ferry at Cross Island

Project Address: 68 Helmsman Way

Parcel Number [PIN]: R552 010 000 0650 0000

Owner/Permittee: Beaufort County c/o Jared Fralix and Chris Bates/Davis & Floyd

General Contractor: O'Quinn Marine

Clearing/Grading Company: SAA

Owner/Permittee Signature: _____

Disturbed Area (acres): 0.9

Hydraulic Distance to Coastal Receiving Water. 0'

Name of Coastal Receiving Water Body Broad Creek

Email: jared.fralix@bcgov.net

Phone: 843-255-2700

Email: oquinnmarine@mac.com

Phone: 843-522-3313

Email: _____

Phone: _____

Date: _____

LAND DISTURBANCE PERMIT SUBMITTAL REQUIREMENTS

To be filled out by Applicants
All items (if determined applicable by staff) are required at the time of submittal to be distributed for review.

✓ THHI *Stormwater Management and Sediment and Erosion Control Plan Review Checklist*

✓ Erosion, Sediment, and Pollution Control Plan

Note: Further documentation may be required upon review of the application.

Town of Hilton Head Island
Engineering Division
One Town Center Court
Hilton Head Island, SC 29928
Phone: 843-341-4600 Fax: 843-842-8587
www.hiltonheadislandsc.gov

FOR OFFICIAL USE ONLY

Date Received: _____

Accepted by: _____

App. #:DPR_____

Meeting Date: _____

NPDES Permit No: _____

LAND DISTURBANCE PERMIT APPLICATION: CERTIFICATIONS

The following documents have been completed and are included in the OS-SWPPP:

☐ Pre-Construction Conference Certification ☐ Contractor Certifications

The OS-SWPPP is located:

On Site OR* at _____

*OS-SWPPPs located off site must be delivered to the site within 30 minutes upon request by Federal, State or Town inspectors. You may be requested to provide electronic copies of inspection forms and other documentation as needed to ensure compliance.

SWPPP Inspector Information:	
SWPPP INSPECTOR NAME (print):	CEPSCI #
SWPPP Company (if any):	
INSPECTOR CELL PHONE:	OFFICE Phone:
E-Mail:	
As the SWPPP inspector for this project, I certify through my inspection for the site that all initial site sediment control and tree protection management practices have been properly installed per the approved project plans.	
SWPPP INSPECTOR SIGNATURE:	

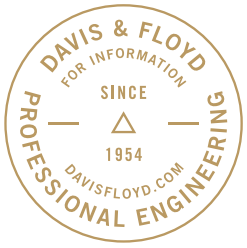
Owner/ Permittee Certifications:	***Initial***
This permit initiates the clearing and grading activities associated with other land disturbance and site development activities in accordance with all approved plans, permits, and regulations. Failure to obtain and comply with permits can result in fines, Stop Work Orders, or termination of this permit by the Town. The project must pass a final inspection by a Town Stormwater official, at which time this permit will be closed.	
When applicable, the Permittee will be responsible for providing a SWPPP Inspector to ensure compliance with the approved SWPPP. Inspections are conducted on a weekly basis and are recommended after every rain event in excess of 0.5". Repairs to or modifications of site BMPs must be made within 48 hours or less OR as noted by inspectors. No changes in inspection schedules are allowed without prior approval by the Town. Project owners are responsible for providing weekly SWPPP inspections until the project has passed a final inspection by a Town Stormwater Official.	
All contractors and sub-contractors conducting land disturbance activities or contributing to site conditions MUST complete a pre-construction meeting and certification form (may include painters, masons, drywall, landscapers) to ensure that they are aware of the site's permit conditions.	
Please refer to Town Ordinance § 156.043(I) AND the 2012 SCDHEC Construction General Permit for all reporting and compliance responsibilities. Failure to file inspection reports within the timeframe indicated constitutes a violation of Town ordinance. Falsifying inspection reports is a violation of Federal, State, and Local regulations.	
OWNER/ PERMITEE SIGNATURE: _____ **DATE:** _____	

STORMWATER MANAGEMENT CALCULATIONS
DAUFUSKIE FERRY AT CROSS ISLAND
TOWN OF HILTON HEAD ISLAND
BEAUFORT COUNTY, SOUTH CAROLINA

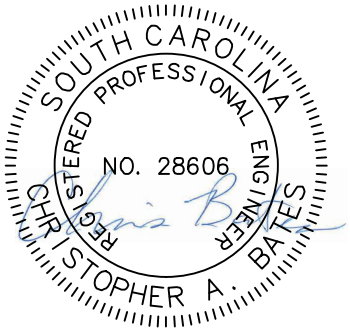
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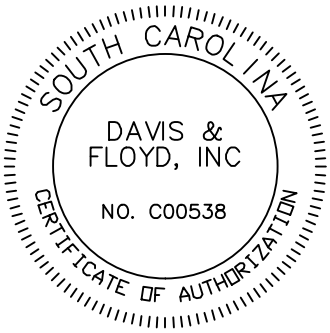
BEAUFORT COUNTY
c/o JARED FRALIX
100 RIBAUT ROAD
BEAUFORT, SC 29902

PREPARED BY:



DAVIS & FLOYD, INC.
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
(843) 379-2222





PROJECT NO. J23707
OCTOBER 17, 2023

DAUFUSKIE FERRY AT CROSS ISLAND

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3.0 DESIGN METHOD AND CRITERIA 1

4.0 PRE-DEVELOPMENT RUN-OFF 2

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6.0 FIRST FLUSH CALCULATIONS 3

7.0 SEDIMENT TRAPPING 3

8.0 HYDRAULIC PIPE PROFILES 4

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APPENDIX A - SITE EXHIBITS

- Exhibit 1 – USGS Topographic Quad Map
- Exhibit 2 – Vicinity Map
- Exhibit 3 – Beaufort County Soils Map
- Exhibit 4 – FEMA Flood Map
- Exhibit 5 – Pre-Development Basin Map
- Exhibit 6 – Post-Development Basin Map

APPENDIX B – SSA MODEL INPUT

- Link-Node Maps
- Model Input Report

APPENDIX C – SSA MODEL OUTPUT

- Model Output Reports

APPENDIX D – HYDRAULIC PIPE PROFILES

APPENDIX E – SCDHEC – OCRM CHECKLIST

STORMWATER MANAGEMENT CALCULATIONS
DAUFUSKIE FERRY AT CROSS ISLAND

1.0 INTRODUCTION

This proposed project involves utilizing the existing Cross Island Boat Landing in Hilton Head at 68 Helmsman Way as an interim location for a Daufuskie Ferry. The existing boat landing and associated parking under the Cross Island Parkway encompasses 3.9± acres including the SCDOT right-of-way.

The existing site is relatively flat with much of the site being elevation 8 (NAVD 88), with the exception of the existing retention pond and boat ramp. The existing pond receives stormwater from the developed portions of the boat landing site as well as a portion of the Cross Island Parkway. The undeveloped portions of the site and the pond outfall structure drain to the marshes of Broad Creek.

The proposed stormwater management plan for the project includes pervious pavement with storm that will allow excess runoff beyond the pavement section's capacity to be routed to the existing pond to aid in water quantity control.

Based on the "Web Soil Survey" (USDA) the soils found on-site are primarily Seewee sand, which is classified as hydrologic soil type A/D. See Appendix A for the soils map.

2.0 SCOPE

The scope of the drainage calculations is to determine the following:

- Pre-Development Run-Off Rates (2, 10, & 25-year storm events)
- Post-Development Run-Off Rates (2, 10, & 25-year storm events)
- Required First Flush Run-Off Volume Detention

3.0 DESIGN METHOD AND CRITERIA

Design Method:	SCS Method
Design Storm:	2, 10, & 25-year, 24-hr rainfall events
Rainfall Amount:	4.5, 6.9, & 8.4 inches (respectively)
Rainfall Distribution:	SCS Type III
SCS Peak Factor:	400

SSA (Storm and Sanitary Sewer Analysis), a drainage software program licensed by Autodesk, was used to compute storm run-off and route the design storm events through the proposed drainage system. TR-55 methodology was utilized to determine the runoff index curve number (CN) and the time of concentration (Tc) used as input in the SSA model.

4.0 PRE-DEVELOPMENT RUN-OFF

The pre-development model is based on the existing conditions and includes the area of the Cross Island Parkway (above the site) that drains to the existing pond. Also included would be the existing boat landing which drains to the existing pond and the undeveloped area of the boat landing site that drains directly to the marshes of Broad Creek.

The existing pond was modified during the construction of the boat landing. A control structure was added with a low-flow orifice located above the bottom of pond, forcing the first flush volume from the site (including the parkway) to be retained and to percolate into the surrounding soil. The outfall/pond does not experience regular tidal influence as it is constructed above mean high water (3.29' NAVD 88).

The pre-development basin map is located in Appendix A. The basin data and model input are located in Appendix B. A minimum time of concentration of 6 minutes was used for the developed areas. Pre-development run-off rates for the 2, 10, and 25-year storm events are shown below. The full model output report is in Appendix C.

Pre-Development Run-Off (cfs)			
Outfall	**2-Year**	**10-Year**	**25-Year**
Marshes of Broad Creek	7.78	11.21	15.50

The Pre-development stages of the existing pond are shown below.

Pre-Dev Wet Detention Pond Maximum Stages (ft) (NAVD 88)						
Storage	**Bottom**	**NWL**	**TOB**	**2-Yr**	**10-Yr**	**25-Yr**
Ex. Pond	4.00	4.00	8.00	6.42	7.04	7.30

5.0 POST-DEVELOPMENT RUN-OFF

The stormwater management plan for the proposed improvements includes constructing pervious pavement on the east side of the site that is capable of containing the 25-year storm within the pavement section.

On the west side, the pervious pavement base will be increased in depth to provide the storage necessary to accommodate the required water quality volume from the added impervious surfaces. Connections to the existing storm sewer network will allow for additional runoff to be routed through the existing pond for water quantity control. The ultimate outfall for the pond is a rip-rap channel draining directly to Broad Creek.

The post-development basin map is located in Appendix A. The basin data and model input are located in Appendix B. A minimum time of concentration of 6 minutes was used for the developed areas. Post-development run-off rates for the 2, 10, and 25-year storm events are shown below. The full model output report is in Appendix C.

Post-Development Run-Off (cfs)			
Outfall	**2-Year**	**10-Year**	**25-Year**
Marshes of Broad Creek	6.92	9.46	15.11

The Post-development stages of the existing pond are shown below.

Post-Dev Wet Detention Pond Maximum Stages (ft) (NAVD 88)						
Storage	**Bottom**	**NWL**	**TOB**	**2-Yr**	**10-Yr**	**25-Yr**
Ex. Pond	4.00	4.00	8.00	6.49	7.15	7.38

6.0 FIRST FLUSH WATER QUALITY CALCULATIONS

The Town of Hilton Head requires on-site retention or percolation of the first one and one-half inches of run-off from on-site impervious surfaces when the site is located within 1,000 feet of shellfish beds. The first flush shall be dissipated by percolation into the soil, evaporation, or other methods of treatment or handling acceptable to the Town engineer.

In this case, the Town of Hilton Head's first flush treatment meets or exceeds that of SCDHEC and will be used to ensure the BMP's can adequately treat the first flush run-off. The existing pond provides water quality treatment for the existing developed areas. The proposed pervious pavement will provide more than the required water quality volume for the proposed impervious areas. Therefore, the proposed plan meets the first flush requirements.

Improvements on East Side of Site:

The improvements on the east side consist of additional parking only. All proposed spaces will be constructed of a pervious material and are considered to be self-contained as all storm events including the 25-year design storm are retained within the pavement section.

Improvements on West Side of Site:

The improvements on the east side consist of additional parking, a one-way asphalt drive, and a proposed pavilion. The area will be graded to drain to the proposed pervious pavement that will have an increased thickness in base material to provide the necessary water quality retention volume. Storm inlets will also be added to accept additional runoff and route it to the existing pond.

1.5" inches over impervious area:

$1.5" \times 0.29\ Ac \times (1/12) = 0.036\ Ac\text{-}ft = 1{,}569\ ft^3$

The available storage within the pervious pavement sections on the west side of the site is 1,602 ft^3. A listing of stage-storage information can be found in the model input report in Appendix B.

7.0 SEDIMENT TRAPPING

The proposed project will disturb less than 10 acres. The BMP's to be provided during construction include silt fence, temporary and permanent seeding, inlet protection, rip-rap, a construction entrance, and dust control. These measures will prevent sediment laden runoff from leaving the site.

8.0 HYDRAULIC PIPE PROFILES

To ensure pipes throughout the site are properly sized, drainage calculations were performed for all pipes. The pipes were sized to handle a 25-year storm event per TOHH requirement, along with ensuring the existing pipes were capable of handing the same storm event. The existing outfall for the existing pond is an existing rip-rap lined channel that leads to Broad Creek. The outfall invert elevation is 3.52' (NAVD 88) which is above the mean high water elevation of 3.29' (NAVD 88). Therefore, no tidal flooding of the existing pond or tailwater conditions are expected unless experiencing extreme tidal conditions. The pipe profiles can be found in Appendix D.

9.0 CONCLUSIONS

The proposed improvements for the Daufuskie Island Ferry at Cross Island project will not have an adverse impact on the receiving natural waterway or downstream properties and will result in the long-term reduction of sediment and pollutants being discharged off-site. All BMP's are appropriately sized to meet OCRM and Town of Hilton Head requirements for water quality and quantity.

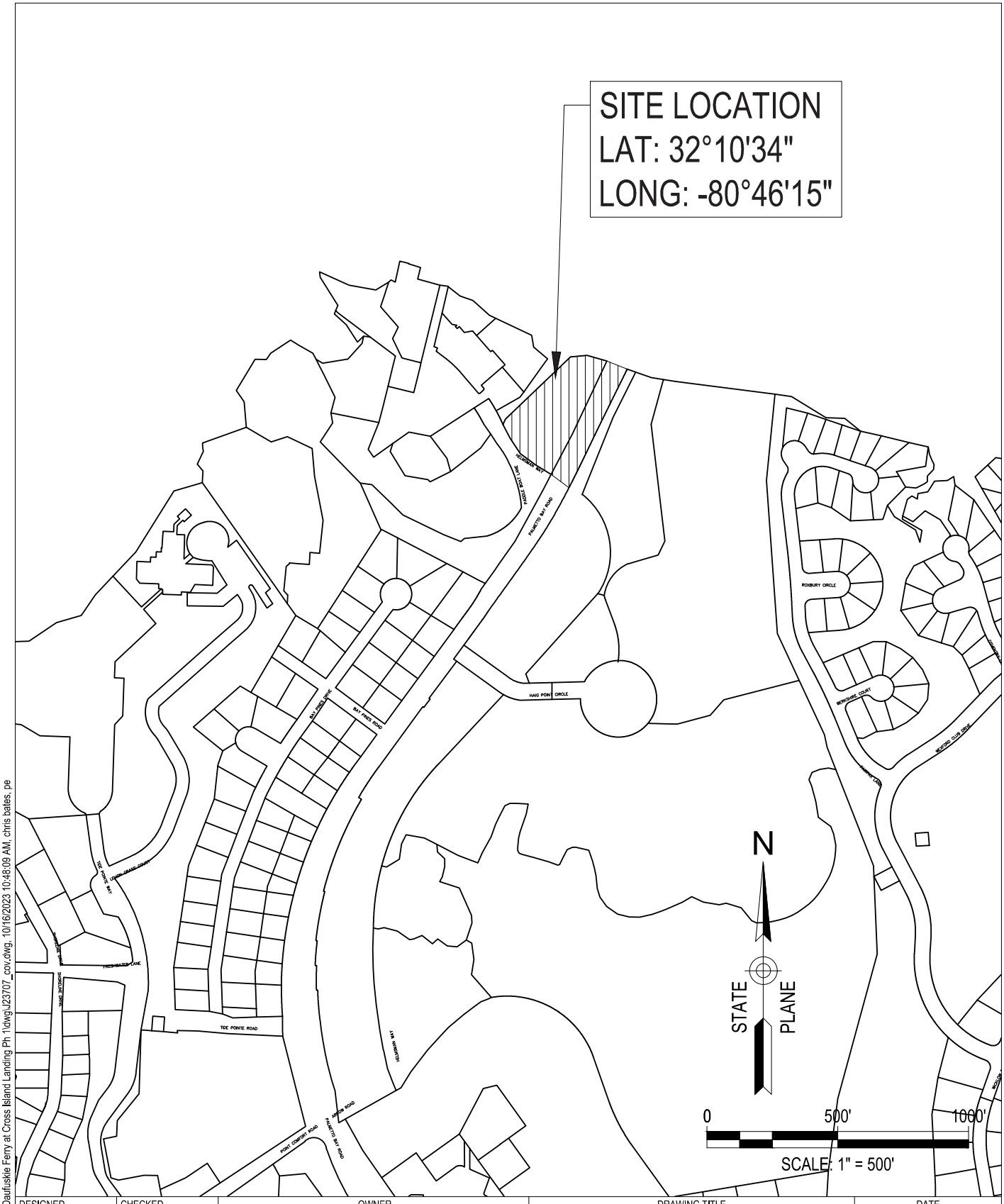
APPENDIX A
SITE EXHIBITS



DESIGNED	CHECKED	OWNER	DRAWING TITLE	DATE
CB	CB	BEAUFORT COUNTY	TOPO MAP	OCTOBER 2023
DRAWN	APPROVED	PROJECT TITLE		JOB NO.
CB	CB	DAUFUSKIE FERRY AT CROSS ISLAND		J23707
DAVIS & FLOYD SINCE 1954		PROJECT LOCATION	SKETCH REFERENCE	EX-1
WWW.DAVISFLOYD.COM		HILTON HEAD, SOUTH CAROLINA	CROSS ISLANDPARKWAY	PAGE 1 OF 1

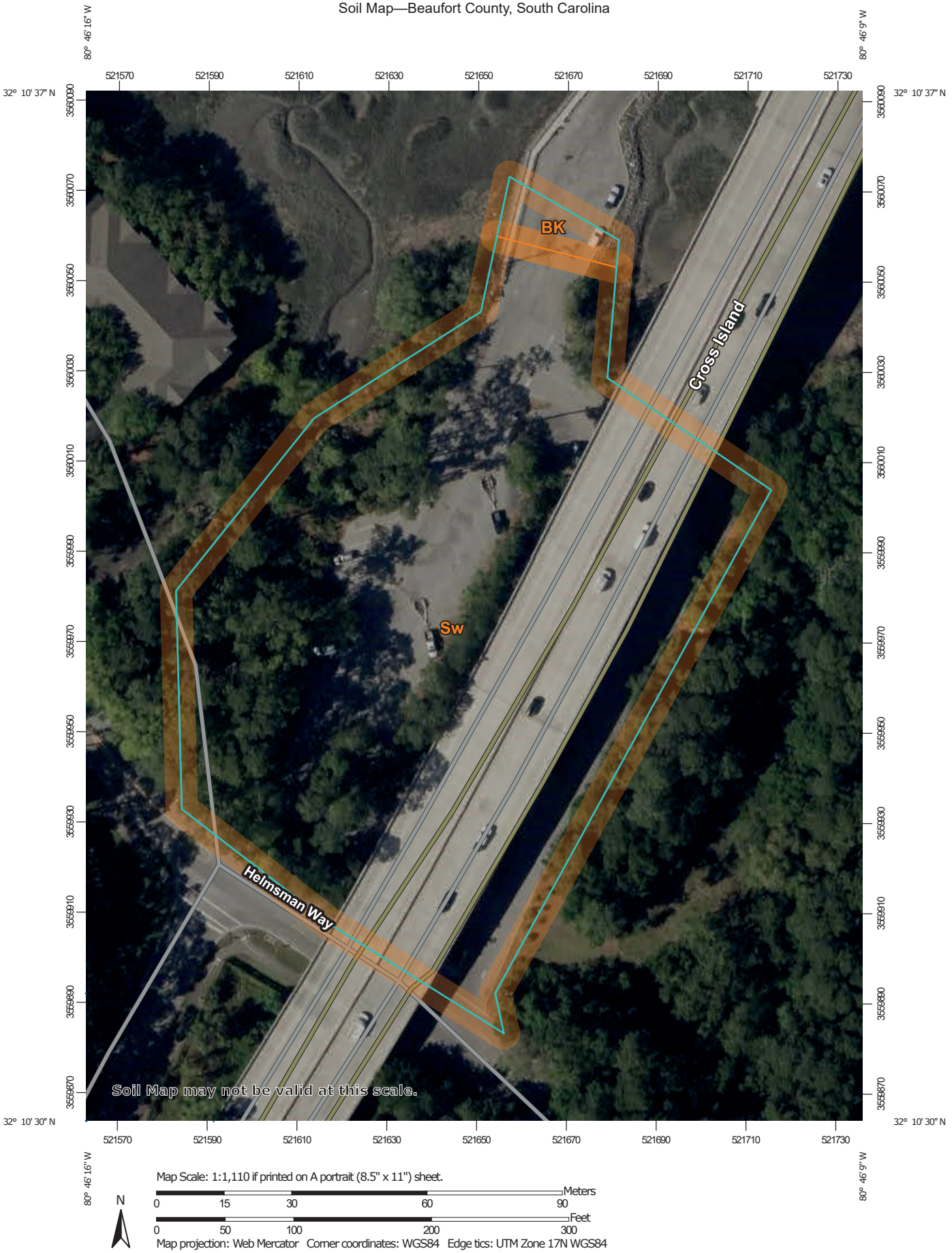
F:\Projects\2023\2023 Projects\J23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\J23707_cov.dwg, 10/17/2023 9:31:16 AM, chris bates, pe

R. p. 1553



DESIGNED	CHECKED	OWNER	DRAWING TITLE	DATE
CB	CB	BEAUFORT COUNTY	VICINITY MAP	OCTOBER 2023
DRAWN	APPROVED	PROJECT TITLE		JOB NO.
CB	CB	DAUFUSKIE FERRY AT CROSS ISLAND		J23707
DAVIS & FLOYD SINCE 1954 WWW.DAVISFLOYD.COM		PROJECT LOCATION	SKETCH REFERENCE	EX-2
		HILTON HEAD, SOUTH CAROLINA	CROSS ISLAND PARKWAY	PAGE 1 OF 1

F:\Projects\2023\2023 Projects\J23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\J23707_cov.dwg, 10/16/2023 10:48:09 AM, chris bates, pe



Map Scale: 1:1,110 if printed on A portrait (8.5" x 11") sheet.

N

0 15 30 60 90 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Beaufort County, South Carolina
Survey Area Data: Version 19, Aug 29, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 15, 2022—Jun 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BK	Bohicket association	0.1	2.0%
Sw	Seewee fine sand	3.3	98.0%
Totals for Area of Interest		**3.3**	**100.0%**

National Flood Hazard Layer FIRMette

FEMA

80°46'33"W 32°10'47"N



80°45'56"W 32°10'16"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/16/2023 at 10:34 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\23746_mst.dwg, 10/20/2023 1:18:53 PM, chris bates, pe
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APPROXIMATE LOCATION EXISTING 10" WATER

APPROXIMATE LOCATION EXISTING 8" WATER

EX. SAN. SEWER MH RIM=7.03 INV8"se=-0.61 INV4"se=2.59 INV8"s=-1.00

DHEC/OCRM CRITICAL AREA LINE

MARSHES OF BROAD CREEK

TREE CANOPY (SPECIMEN)

EX Undev

PreEXCB1

PreEXCB2

PreEXCB3

PreEXCB4

PreEXCB5

PreEXCB6

R552 010 000 0650 0000
3.892 ACRES
169,543 SQ. FT.

PreDev Landing Area

BENCHMARK SET NAIL IN PAVEMENT ELEV=8.02 DATUM=NAVD88

BENCHMARK SET NAIL IN PAVEMENT ELEV=8.08 DATUM=NAVD88

EDGE OF PAVEMENT

5' SETBACK FROM PILE CAP/FOOTING. NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

BRIDGE COLUMNS AND PILE CAP/FOOTING (TYP.)

TOP OF BANK

BOTTOM OF BANK

CONC. PAD (TYP.)

RIP RAP (TYP.)

HELMSMAN WAY (60' R/W)

DOCK RAMP

EX FLOATING DOCK (TO BE REPLACED)

EDGE OF BRIDGE

CROSS ISLAND PARKWAY

EX Undev

MARSHES OF BROAD CREEK

Know what's below. Call before you dig.

STATE PLANE

0 30 60
SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

SOUTH CAROLINA — DAVIS & FLOYD, INC — NO. C005538 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — REGISTERED — CHRISTOPHER A. BATES — NO. 28606

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9135

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Pre Development Basin Exhibit

NO.	REVISED	DATE	CHECKED

JOB NO. 23214100
DATE: October 2023
DESIGNED: CB
DRAWN: CB
CHECKED: CB
APPROVED: CB

PAGE 1 OF 1

F:\Projects\2023\2023 Projects\J23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\J22746_mst.dwg, 10/20/2023 1:17:28 PM, chris bates, pe
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APPROXIMATE LOCATION EXISTING 10" WATER

AVERAGE CRITICAL LINE BUFFER (35 FT)

MINIMUM CRITICAL LINE SETBACK (5 FT)

MINIMUM CRITICAL LINE BUFFER (15 FT)

OCRM CRITICAL LINE

20FT IN STREET BUFFER (ALT)

10FT MIN STREET BUFFER

DHEC/OCRM CRITICAL AREA LINE

MARSHES OF BROAD CREEK

TREE CANOPY (SPECIMEN)

EX. SAN. SEWER MH
RIM=7.03
INV8"se=-0.61
INV4"se=2.59
INV8"s=-1.00

APPROXIMATE LOCATION EXISTING 8" WATER

Post Undev

Post CB4

Post CB3

Post CB1

Post CB5

Post CB2

LOADING ZONE

CONCRETE RAMP

PROPOSED PAVILION
FFE=11.00

PostEXCB4

PostEXCB3

PostEXCB2

PostEXCB1

3.892 ACRES
169,543 SQ. FT.

BENCHMARK SET
NAIL IN PAVEMENT
ELEV=8.02
DATUM=NAVD88

EDGE OF PAVEMENT

RIP RAP (TYP.)

DOCK RAMP

RIP RAP (TYP.)

EX FLOATING DOCK (TO BE REPLACED)

EDGE OF BRIDGE

5' SETBACK FROM PILE CAP/FOOTING. NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

BRIDGE COLUMNS AND PILE CAP/FOOTING (TYP.)

PostDev Landing Area

TOP OF BANK

BOTTOM OF BANK

HELMSMAN WAY (60' R/W)

CROSS ISLAND PARKWAY

DHEC/OCRM CRITICAL AREA LINE

BOTTOM OF BANK

EDGE OF BRIDGE

5' SETBACK FROM PILE CAP/FOOTING. NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

CONC. PAD (TYP.)

PostEXCB6

PostEXCB5

Post Undev

MARSHES OF BROAD CREEK

BENCHMARK SET
NAIL IN PAVEMENT
ELEV=8.08
DATUM=NAVD88

Prop Parking East

811 Know what's below. Call before you dig.

STATE PLANE

0 30 60
SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

SOUTH CAROLINA
DAVIS & FLOYD, INC
NO. C005538
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
REGISTERED
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SINCE 1954
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9105

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

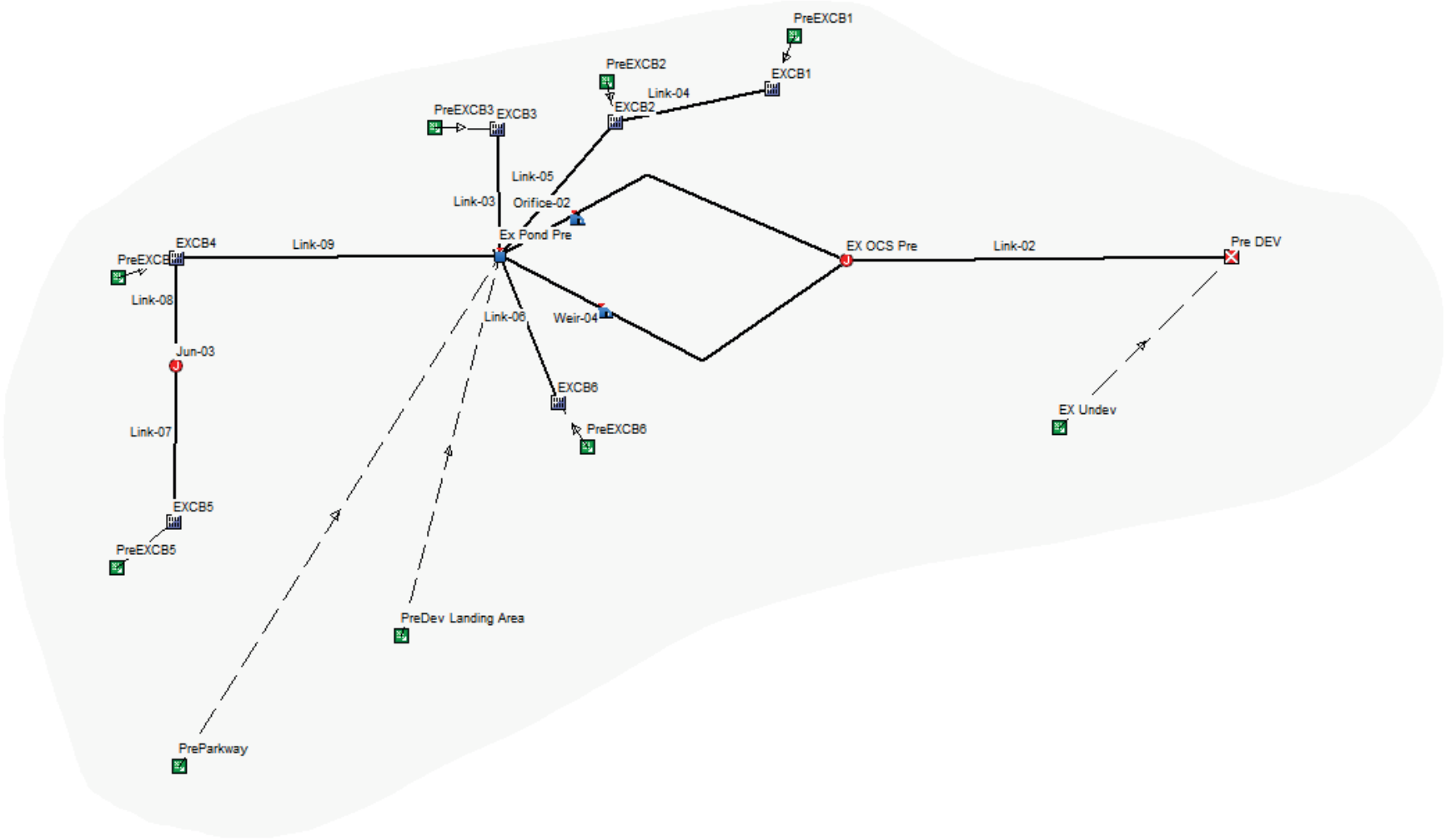
DRAWING TITLE: Post Development Basin Exhibit

NO.	REVISED	DATE	CHECKED

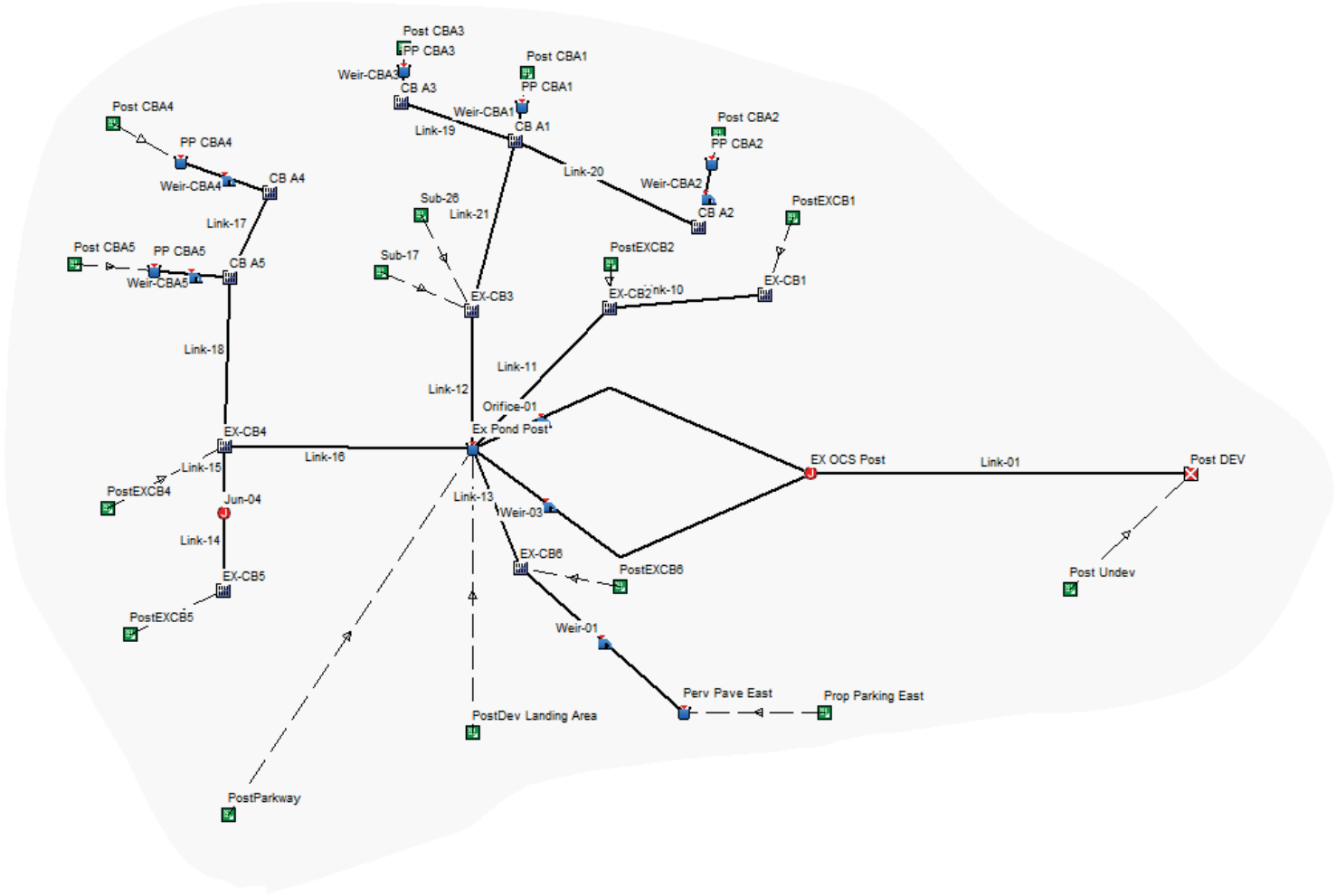
JOB NO. 03214100
DATE: October 2023
DESIGNED: CB
DRAWN: CB
CHECKED: CB
APPROVED: CB

PAGE 1 OF 1

APPENDIX B
SSA MODEL INPUT



PRE-DEVELOPMENT LINK-NODE MAP



POST-DEVELOPMENT LINK-NODE MAP

Project Description

File Name	Daufuskie w_Subbasins.SPF

Project Options

Flow Units	CFS
Elevation Type	Elevation
Hydrology Method	SCS TR-55
Time of Concentration (TOC) Method	SCS TR-55
Link Routing Method	Kinematic Wave
Enable Overflow Ponding at Nodes	YES
Skip Steady State Analysis Time Periods	YES

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	0 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	5	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	25
Nodes	31
Junctions	4
Outfalls	2
Flow Diversions	0
Inlets	17
Storage Nodes	8
Links	31
Channels	0
Pipes	21
Pumps	0
Orifices	2
Weirs	8
Outlets	0
Pollutants	0
Land Uses	0

Subbasin Summary

SN	Subbasin ID	Area (ac)	Peak Rate Factor	Weighted Curve Number	Time of Concentration (days hh:mm:ss)
1	EX Undev	1.91	400.00	77.00	0 00:26:18
2	Post CBA1	0.02	400.00	98.00	0 00:06:00
3	Post CBA2	0.05	400.00	98.00	0 00:06:00
4	Post CBA3	0.18	400.00	98.00	0 00:06:00
5	Post CBA4	0.02	400.00	98.00	0 00:06:00
6	Post CBA5	0.10	400.00	98.00	0 00:06:00
7	Post Undev	1.20	400.00	77.00	0 00:24:12
8	PostDev Landing Area	0.75	400.00	84.00	0 00:06:00
9	PostEXCB1	0.20	400.00	98.00	0 00:06:00
10	PostEXCB2	0.28	0.00	98.00	0 00:06:00
11	PostEXCB4	0.08	0.00	98.00	0 00:06:00
12	PostEXCB5	0.15	0.00	98.00	0 00:06:00
13	PostEXCB6	0.13	0.00	98.00	0 00:06:00
14	PostParkway	2.18	400.00	98.00	0 00:06:00
15	PreDev Landing Area	0.75	0.00	84.00	0 00:06:00
16	PreEXCB1	0.20	400.00	98.00	0 00:06:00
17	PreEXCB2	0.28	400.00	98.00	0 00:06:00
18	PreEXCB3	0.40	400.00	98.00	0 00:06:00
19	PreEXCB4	0.08	400.00	98.00	0 00:06:00
20	PreEXCB5	0.15	400.00	98.00	0 00:06:00
21	PreEXCB6	0.13	400.00	98.00	0 00:06:00
22	PreParkway	2.18	0.00	98.00	0 00:06:00
23	Prop Parking East	0.14	400.00	98.00	0 00:06:00
24	Sub-17	0.40	0.00	98.00	0 00:06:00
25	Sub-26	0.06	400.00	98.00	0 00:06:00

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation
			(ft)	(ft)	(ft)	(ft)
1	EX OCS Post	Junction	4.00	8.30	4.00	0.00
2	EX OCS Pre	Junction	4.00	8.30	4.00	0.00
3	3-Jun	Junction	4.27	8.29	4.27	0.00
4	4-Jun	Junction	4.27	8.29	4.27	0.00
5	Post DEV	Outfall	3.52			
6	Pre DEV	Outfall	3.52			
7	Ex Pond Post	Storage Node	4.00	8.00	4.00	
8	Ex Pond Pre	Storage Node	4.00	8.00	4.00	
9	Perv Pave East	Storage Node	6.75	8.00	6.75	
10	PP CBA1	Storage Node	7.12	8.45	7.12	
11	PP CBA2	Storage Node	6.87	8.20	6.87	
12	PP CBA3	Storage Node	6.92	8.25	6.92	
13	PP CBA4	Storage Node	7.57	8.90	7.57	
14	PP CBA5	Storage Node	7.12	8.45	7.12	

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness
					(ft)	(ft)	(ft)	(%)	(in)	
1	Link-01	Pipe	EX OCS Post	Post DEV	80.00	4.00	3.52	0.6000	30.000	0.0150
2	Link-02	Pipe	EX OCS Pre	Pre DEV	80.00	4.00	3.52	0.6000	30.000	0.0150
3	Link-03	Pipe	EXCB3	Ex Pond Pre	69.00	4.93	4.66	0.3900	18.000	0.0150
4	Link-04	Pipe	EXCB1	EXCB2	86.00	5.09	4.82	0.3100	15.000	0.0150
5	Link-05	Pipe	EXCB2	Ex Pond Pre	68.00	4.82	4.61	0.3100	18.000	0.0150
6	Link-06	Pipe	EXCB6	Ex Pond Pre	58.00	5.42	5.30	0.2100	15.000	0.0150
7	Link-07	Pipe	EXCB5	3-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150
8	Link-08	Pipe	3-Jun	EXCB4	20.00	5.27	5.21	0.3000	15.000	0.0150
9	Link-09	Pipe	EXCB4	Ex Pond Pre	57.00	4.96	4.77	0.3300	18.000	0.0150
10	Link-10	Pipe	EX-CB1	EX-CB2	86.00	5.09	4.82	0.3100	15.000	0.0150
11	Link-11	Pipe	EX-CB2	Ex Pond Post	68.00	4.82	4.61	0.3100	18.000	0.0150
12	Link-12	Pipe	EX-CB3	Ex Pond Post	69.00	4.93	4.66	0.3900	18.000	0.0150
13	Link-13	Pipe	EX-CB6	Ex Pond Post	58.00	5.42	5.30	0.2100	15.000	0.0150
14	Link-14	Pipe	EX-CB5	4-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150
15	Link-15	Pipe	4-Jun	EX-CB4	20.00	5.27	5.21	0.3000	15.000	0.0150
16	Link-16	Pipe	EX-CB4	Ex Pond Post	57.00	4.96	4.77	0.3300	18.000	0.0150
17	Link-17	Pipe	CB A4	CB A5	55.00	5.68	5.51	0.3100	15.000	0.0150
18	Link-18	Pipe	CB A5	EX-CB4	100.00	5.51	5.21	0.3000	15.000	0.0150
19	Link-19	Pipe	CB A3	CB A1	48.00	5.60	5.45	0.3100	15.000	0.0150
20	Link-20	Pipe	CB A2	CB A1	87.00	5.71	5.45	0.3000	15.000	0.0150
21	Link-21	Pipe	CB A1	EX-CB3	88.00	5.45	5.18	0.3100	15.000	0.0150
22	Orifice-01	Orifice	Ex Pond Post	EX OCS Post		4.00	4.00		12.000	
23	Orifice-02	Orifice	Ex Pond Pre	EX OCS Pre		4.00	4.00		12.000	
24	Weir-01	Weir	Perv Pave East	EX-CB6		6.75	4.30			
25	Weir-03	Weir	Ex Pond Post	EX OCS Post		4.00	4.00			
26	Weir-04	Weir	Ex Pond Pre	EX OCS Pre		4.00	4.00			
27	Weir-CBA1	Weir	PP CBA1	CB A1		7.12	4.45			
28	Weir-CBA2	Weir	PP CBA2	CB A2		6.87	4.71			
29	Weir-CBA3	Weir	PP CBA3	CB A3		6.92	4.60			
30	Weir-CBA4	Weir	PP CBA4	CB A4		7.57	4.68			
31	Weir-CBA5	Weir	PP CBA5	CB A5		7.12	4.51			

Inlet Summary

SN	Element ID	Inlet Manufacturer	Manufacturer Part Number	Inlet Location	Number of Inlets	Catchbasin Invert Elevation	Max (Rim) Elevation	Initial Water Elevation
						(ft)	(ft)	(ft)
1	CB A1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.45	8.45	4.45
2	CB A2	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.71	8.20	4.71
3	CB A3	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.60	8.25	4.60
4	CB A4	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.68	8.90	4.68
5	CB A5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.51	8.45	4.51
6	EXCB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09
7	EX-CB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09
8	EXCB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82
9	EX-CB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82
10	EXCB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93
11	EX-CB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93
12	EXCB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96
13	EX-CB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96
14	EXCB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53
15	EX-CB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53
16	EXCB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30
17	EX-CB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30

Subbasin Hydrology

Subbasin : EX Undev

Input Data

Area (ac) 1.91
Peak Rate Factor 400
Weighted Curve Number 77
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Brush, Fair	1.91	D	77
Composite Area & Weighted CN	1.91		77

Time of Concentration

TOC Method : SCS TR-55

Sheet Flow Equation :

Tc = (0.007 * ((n * Lf)^0.8)) / ((P^0.5) * (Sf^0.4))

Where :

Tc = Time of Concentration (hr)
n = Manning's roughness
Lf = Flow Length (ft)
P = 2 yr, 24 hr Rainfall (inches)
Sf = Slope (ft/ft)

Shallow Concentrated Flow Equation :

V = 16.1345 * (Sf^0.5) (unpaved surface)
V = 20.3282 * (Sf^0.5) (paved surface)
V = 15.0 * (Sf^0.5) (grassed waterway surface)
V = 10.0 * (Sf^0.5) (nearly bare & untilled surface)
V = 9.0 * (Sf^0.5) (cultivated straight rows surface)
V = 7.0 * (Sf^0.5) (short grass pasture surface)
V = 5.0 * (Sf^0.5) (woodland surface)
V = 2.5 * (Sf^0.5) (forest w/heavy litter surface)
Tc = (Lf / V) / (3600 sec/hr)

Where:

Tc = Time of Concentration (hr)
Lf = Flow Length (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)

Channel Flow Equation :

V = (1.49 * (R^(2/3)) * (Sf^0.5)) / n
R = Aq / Wp
Tc = (Lf / V) / (3600 sec/hr)

Where :

Tc = Time of Concentration (hr)
Lf = Flow Length (ft)
R = Hydraulic Radius (ft)
Aq = Flow Area (ft^2)
Wp = Wetted Perimeter (ft)
V = Velocity (ft/sec)
Sf = Slope (ft/ft)
n = Manning's roughness

Sheet Flow Computations	Subarea A	Subarea B	Subarea C
Manning's Roughness :	0.3	0.3	0
Flow Length (ft) :	85	35	0
Slope (%) :	0.5	5	0
2 yr, 24 hr Rainfall (in) :	4.5	4.5	0
Velocity (ft/sec) :	0.06	0.14	0
Computed Flow Time (min) :	21.99	4.31	0

Total TOC (min) 26.30

Subbasin : Post CBA1

Input Data

Area (ac) 0.02
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.02	D	98
Composite Area & Weighted CN	0.02		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : Post CBA2

Input Data

Area (ac) 0.05
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.05	D	98
Composite Area & Weighted CN	0.05		98

Time of Concentration

User-Defined TOC override (minutes): 6.00

Subbasin : Post CBA3

Input Data

Area (ac)	0.18
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.18	D	98
Composite Area & Weighted CN	0.18		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : Post CBA4

Input Data

Area (ac)	0.02
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.02	D	98
Composite Area & Weighted CN	0.02		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : Post CBA5

Input Data

Area (ac) 0.1
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.1	D	98
Composite Area & Weighted CN	0.1		98

Time of Concentration

User-Defined TOC override (minutes): 6.00

Subbasin : Post Undev

Input Data

Area (ac)	1.2
Peak Rate Factor	400
Weighted Curve Number	77
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Brush, Fair	1.2	D	77
Composite Area & Weighted CN	1.2		77

Time of Concentration

Sheet Flow Computations	Subarea A	Subarea B	Subarea C
Manning's Roughness :	0.3	0.3	0
Flow Length (ft) :	75	35	0
Slope (%) :	0.5	5	0
2 yr, 24 hr Rainfall (in) :	4.5	4.5	0
Velocity (ft/sec) :	0.06	0.14	0
Computed Flow Time (min) :	19.9	4.31	0

Total TOC (min) 24.20

Subbasin : PostDev Landing Area

Input Data

Area (ac)	0.75
Peak Rate Factor	400
Weighted Curve Number	84
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
50 - 75% grass cover, Fair	0.75	D	84
Composite Area & Weighted CN	0.75		84

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PostEXCB1

Input Data

Area (ac)	0.2
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.2	D	98
Composite Area & Weighted CN	0.2		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PostEXCB2

Input Data

Area (ac) 0.28
Peak Rate Factor 0
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.28	D	98
Composite Area & Weighted CN	0.28		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PostEXCB4

Input Data

Area (ac) 0.08
Peak Rate Factor 0
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.08	D	98
Composite Area & Weighted CN	0.08		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PostEXCB5

Input Data

Area (ac)	0.15
Peak Rate Factor	0
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved roads with curbs & sewers	0.15	D	98
Composite Area & Weighted CN	0.15		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PostEXCB6

Input Data

Area (ac)	0.13
Peak Rate Factor	0
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.13	D	98
Composite Area & Weighted CN	0.13		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PostParkway

Input Data

Area (ac)	2.18
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	2.18	D	98
Composite Area & Weighted CN	2.18		98

Time of Concentration

User-Defined TOC override (minutes): 6.00

Subbasin : PreDev Landing Area

Input Data

Area (ac)	0.75
Peak Rate Factor	0
Weighted Curve Number	84
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
50 - 75% grass cover, Fair	0.75	D	84
Composite Area & Weighted CN	0.75		84

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreEXCB1

Input Data

Area (ac)	0.2
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.2	D	98
Composite Area & Weighted CN	0.2		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreEXCB2

Input Data

Area (ac)	0.28
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.28	D	98
Composite Area & Weighted CN	0.28		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreEXCB3

Input Data

Area (ac)	0.4
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.4	D	98
Composite Area & Weighted CN	0.4		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreEXCB4

Input Data

Area (ac) 0.08
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.08	D	98
Composite Area & Weighted CN	0.08		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreEXCB5

Input Data

Area (ac) 0.15
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32

Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved roads with curbs & sewers	0.15	D	98
Composite Area & Weighted CN	0.15		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreEXCB6

Input Data

Area (ac) 0.13
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.13	D	98
Composite Area & Weighted CN	0.13		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : PreParkway

Input Data

Area (ac)	2.18
Peak Rate Factor	0
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	2.18	D	98
Composite Area & Weighted CN	2.18		98

Time of Concentration

User-Defined TOC override (minutes): 6.00

Subbasin : Prop Parking East

Input Data

Area (ac) 0.14
Peak Rate Factor 400
Weighted Curve Number 98
Rain Gage ID ..... Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs (TypeA/D)	0.14	D	98
Composite Area & Weighted CN	0.14		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : Sub-17

Input Data

Area (ac)	0.4
Peak Rate Factor	0
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.4	D	98
Composite Area & Weighted CN	0.4		98

Time of Concentration

User-Defined TOC override (minutes): 6

Subbasin : Sub-26

Input Data

Area (ac)	0.06
Peak Rate Factor	400
Weighted Curve Number	98
Rain Gage ID	Rain Gage-01

Composite Curve Number

32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Paved parking & roofs	0.06	D	98
Composite Area & Weighted CN	0.06		98

Time of Concentration

User-Defined TOC override (minutes): 6

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)
1	EX OCS Post	4.00	8.30	4.30	4.00	0.00
2	EX OCS Pre	4.00	8.30	4.30	4.00	0.00
3	3-Jun	4.27	8.29	4.02	4.27	0.00
4	4-Jun	4.27	8.29	4.02	4.27	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Link-01	80.00	4.00	0.00	3.52	0.00	0.48	0.6000	CIRCULAR	30.000	30.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
2	Link-02	80.00	4.00	0.00	3.52	0.00	0.48	0.6000	CIRCULAR	30.000	30.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
3	Link-03	69.00	4.93	1.00	4.66	0.66	0.27	0.3900	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
4	Link-04	86.00	5.09	1.00	4.82	1.00	0.27	0.3100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
5	Link-05	68.00	4.82	1.00	4.61	0.61	0.21	0.3100	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
6	Link-06	58.00	5.42	1.12	5.30	1.30	0.12	0.2100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
7	Link-07	87.00	5.53	1.00	5.27	1.00	0.26	0.3000	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
8	Link-08	20.00	5.27	1.00	5.21	1.25	0.06	0.3000	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
9	Link-09	57.00	4.96	1.00	4.77	0.77	0.19	0.3300	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
10	Link-10	86.00	5.09	1.00	4.82	1.00	0.27	0.3100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
11	Link-11	68.00	4.82	1.00	4.61	0.61	0.21	0.3100	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
12	Link-12	69.00	4.93	1.00	4.66	0.66	0.27	0.3900	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
13	Link-13	58.00	5.42	1.12	5.30	1.30	0.12	0.2100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
14	Link-14	87.00	5.53	1.00	5.27	1.00	0.26	0.3000	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
15	Link-15	20.00	5.27	1.00	5.21	1.25	0.06	0.3000	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
16	Link-16	57.00	4.96	1.00	4.77	0.77	0.19	0.3300	CIRCULAR	18.000	18.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
17	Link-17	55.00	5.68	1.00	5.51	1.00	0.17	0.3100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
18	Link-18	100.00	5.51	1.00	5.21	1.25	0.30	0.3000	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
19	Link-19	48.00	5.60	1.00	5.45	1.00	0.15	0.3100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
20	Link-20	87.00	5.71	1.00	5.45	1.00	0.26	0.3000	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1
21	Link-21	88.00	5.45	1.00	5.18	1.25	0.27	0.3100	CIRCULAR	15.000	15.000	0.0150	0.5000	0.5000	0.0000	0.00	No	1

Inlet Input

SN	Element ID	Inlet Manufacturer	Manufacturer Part Number	Inlet Location	Number of Inlets	Catchbasin Invert Elevation (ft)	Max (Rim) Elevation (ft)	Inlet Depth (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Ponded Area (ft²)	Grate Clogging Factor (%)
1	CB A1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.45	8.45	4.00	4.45	0.00	10.00	0.00
2	CB A2	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.71	8.20	3.49	4.71	0.00	10.00	0.00
3	CB A3	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.60	8.25	3.65	4.60	0.00	10.00	0.00
4	CB A4	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.68	8.90	4.22	4.68	0.00	10.00	0.00
5	CB A5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.51	8.45	3.94	4.51	0.00	10.00	0.00
6	EXCB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	3.77	4.09	0.00	10.00	0.00
7	EX-CB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	3.77	4.09	0.00	10.00	0.00
8	EXCB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.85	3.82	0.00	10.00	0.00
9	EX-CB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.85	3.82	0.00	10.00	0.00
10	EXCB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.69	3.93	0.00	10.00	0.00
11	EX-CB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.69	3.93	0.00	10.00	0.00
12	EXCB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.93	3.96	0.00	10.00	0.00
13	EX-CB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.93	3.96	0.00	10.00	0.00
14	EXCB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	3.32	4.53	0.00	10.00	0.00
15	EX-CB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	3.32	4.53	0.00	10.00	0.00
16	EXCB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	3.58	4.30	0.00	10.00	0.00
17	EX-CB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	3.58	4.30	0.00	10.00	0.00

Roadway & Gutter Input

SN	Element ID	Roadway Longitudinal Slope (ft/ft)	Roadway Cross Slope (ft/ft)	Roadway Manning's Roughness	Gutter Cross Slope (ft/ft)	Gutter Width (ft)	Gutter Depression (in)	Allowable Spread (ft)
1	CB A1	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
2	CB A2	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
3	CB A3	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
4	CB A4	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
5	CB A5	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
6	EXCB1	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
7	EX-CB1	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
8	EXCB2	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
9	EX-CB2	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
10	EXCB3	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
11	EX-CB3	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
12	EXCB4	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
13	EX-CB4	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
14	EXCB5	N/A	0.0100	0.0160	0.0620	2.00	0.0656	7.00
15	EX-CB5	N/A	0.0100	0.0160	0.0620	2.00	0.0656	7.00
16	EXCB6	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00
17	EX-CB6	N/A	0.0200	0.0160	0.0620	2.00	0.0656	7.00

Storage Nodes

Storage Node : Ex Pond Post

Input Data

Invert Elevation (ft)	4.00
Max (Rim) Elevation (ft)	8.00
Max (Rim) Offset (ft)	4.00
Initial Water Elevation (ft)	4.00
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	20344.00
Evaporation Loss	0.00

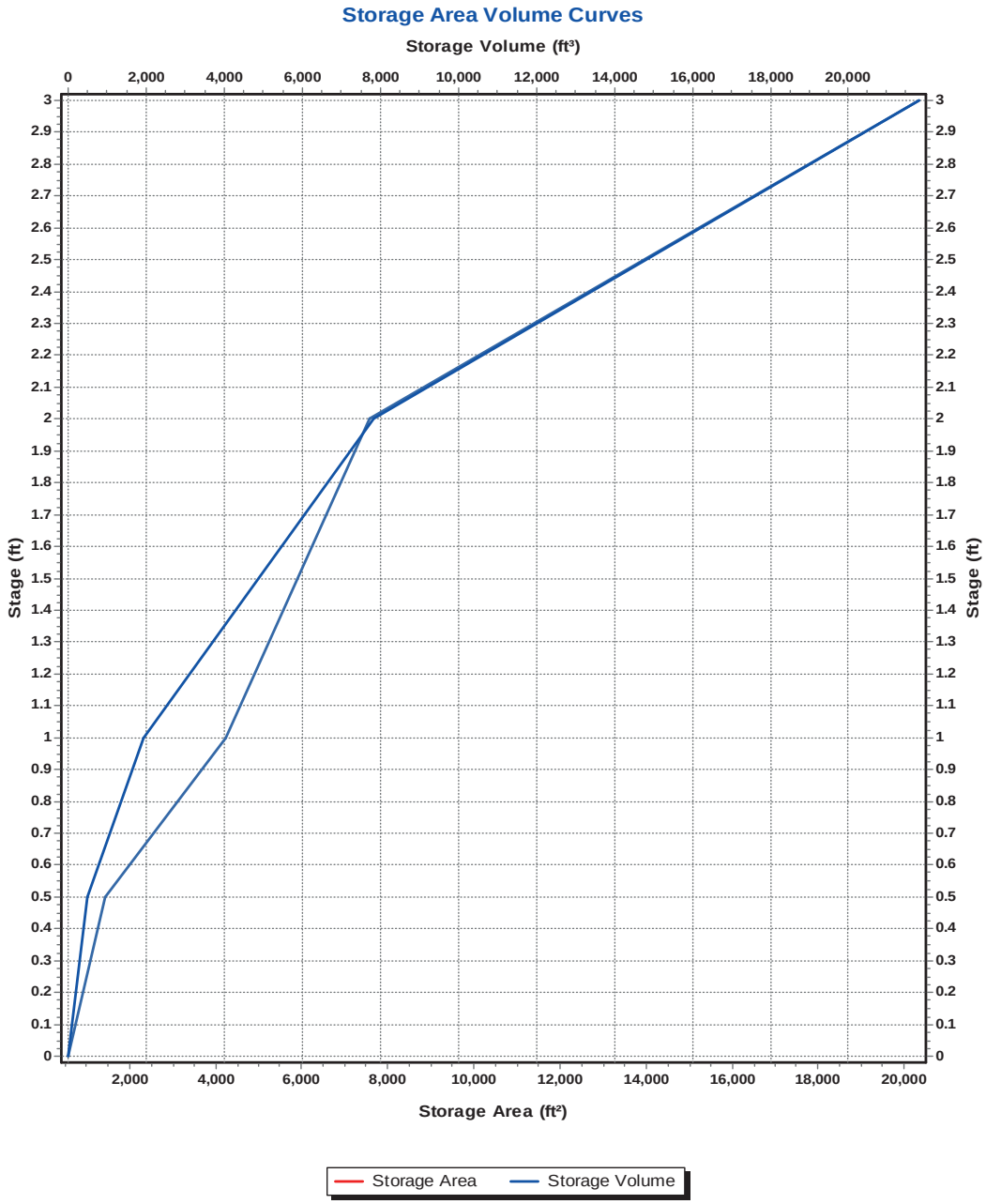
Infiltration/Exfiltration

Max Exfiltration Rate (in/hr)	4
Min Exfiltration Rate (in/hr)	4
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : EXPOND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	576	0
0.5	1428	501
1	4247	1919.75
2	7594	7840.25
3	20344	21809.25


Storage Area Volume Curves
Storage Volume (ft³)
0
2,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
18,000
20,000
Stage (ft)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : Ex Pond Pre

Input Data

Invert Elevation (ft)	4.00
Max (Rim) Elevation (ft)	8.00
Max (Rim) Offset (ft)	4.00
Initial Water Elevation (ft)	4.00
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	20344.00
Evaporation Loss	0.00

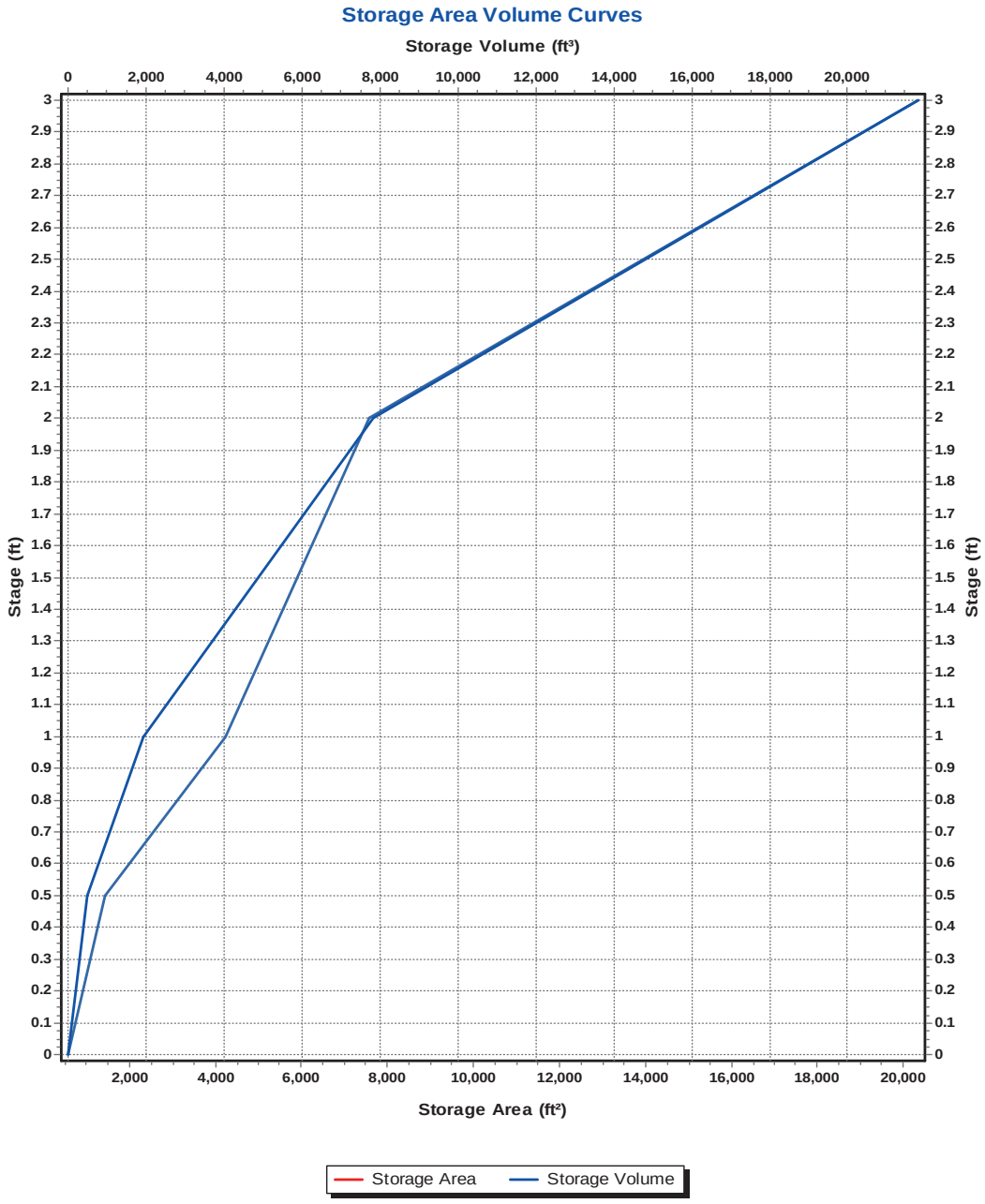
Infiltration/Exfiltration

Max Exfiltration Rate (in/hr)	4
Min Exfiltration Rate (in/hr)	4
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : EXPOND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	576	0
0.5	1428	501
1	4247	1919.75
2	7594	7840.25
3	20344	21809.25


Storage Area Volume Curves
Storage Volume (ft³)
0
2,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
18,000
20,000
Stage (ft)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : Perv Pave East

Input Data

Invert Elevation (ft)	6.75
Max (Rim) Elevation (ft)	8.00
Max (Rim) Offset (ft)	1.25
Initial Water Elevation (ft)	6.75
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	5915.00
Evaporation Loss	0.00

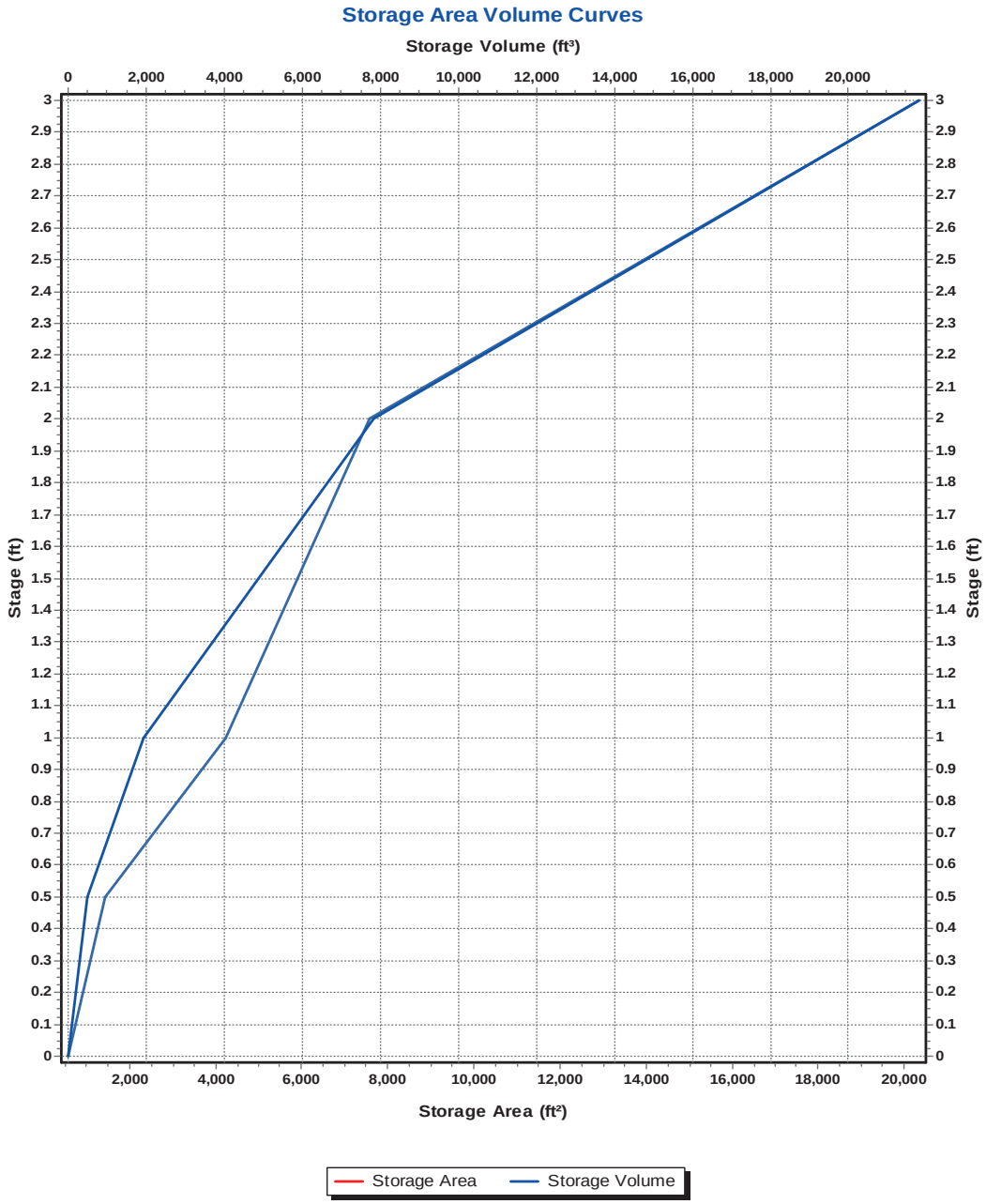
Infiltration/Exfiltration

Max Exfiltration Rate (in/hr)	1.95
Min Exfiltration Rate (in/hr)	1.95
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : EXPOND

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	576	0
0.5	1428	501
1	4247	1919.75
2	7594	7840.25
3	20344	21809.25


Storage Area Volume Curves
Storage Volume (ft³)
0
2,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
18,000
20,000
Stage (ft)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3
Storage Area (ft²)
Storage Area
Storage Volume

Storage Node : PP CBA1

Input Data

Invert Elevation (ft)	7.12
Max (Rim) Elevation (ft)	8.45
Max (Rim) Offset (ft)	1.33
Initial Water Elevation (ft)	7.12
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	355.00
Evaporation Loss	0.00

Infiltration/Exfiltration

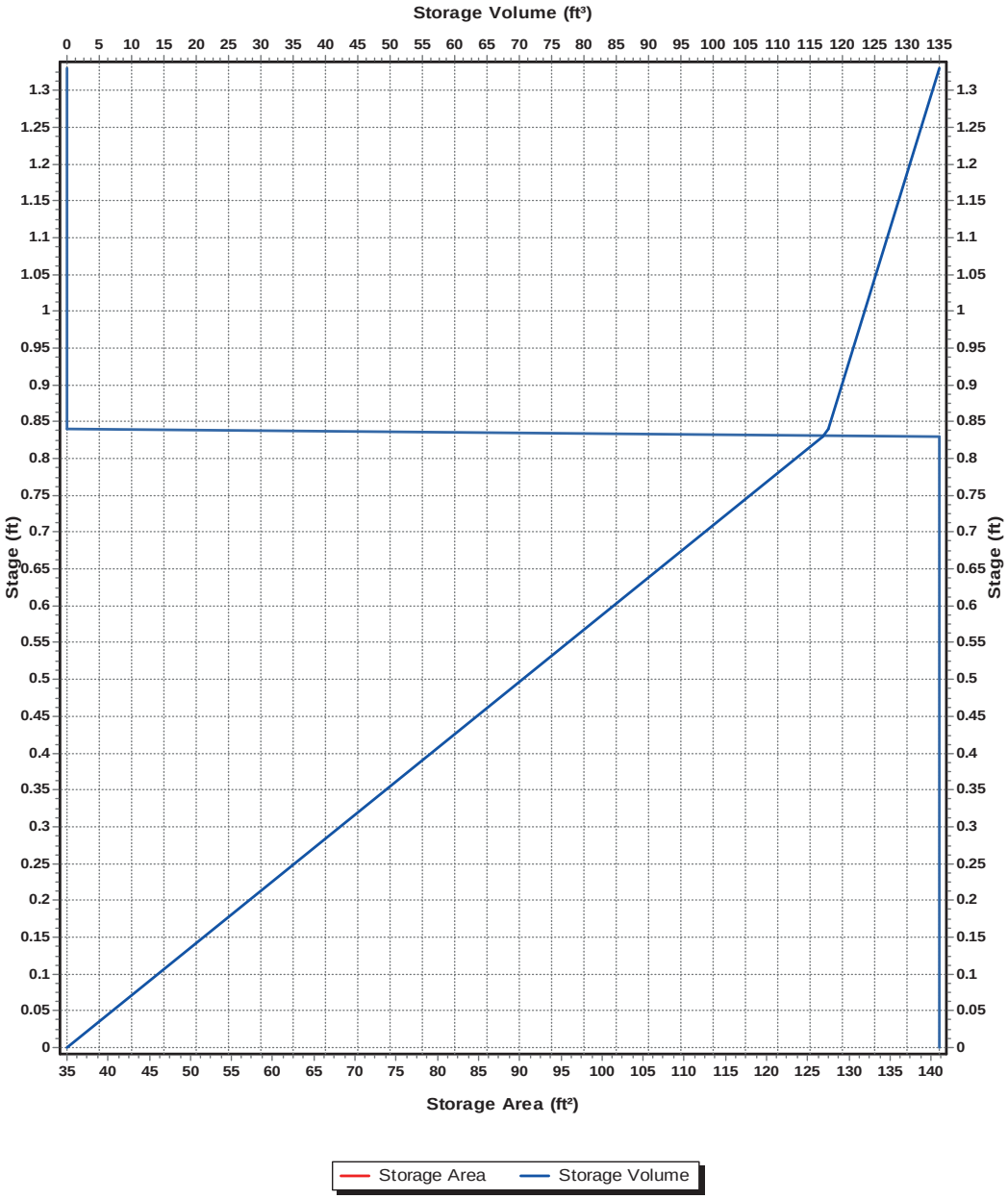
Max Exfiltration Rate (in/hr)	1.95
Min Exfiltration Rate (in/hr)	1.95
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : PPCBA1

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	141	0
0.83	141	117.03
0.84	35	117.91
1.33	35	135.06

Storage Area Volume Curves



Storage Node : PP CBA2

Input Data

Invert Elevation (ft)	6.87
Max (Rim) Elevation (ft)	8.20
Max (Rim) Offset (ft)	1.33
Initial Water Elevation (ft)	6.87
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	532.00
Evaporation Loss	0.00

Infiltration/Exfiltration

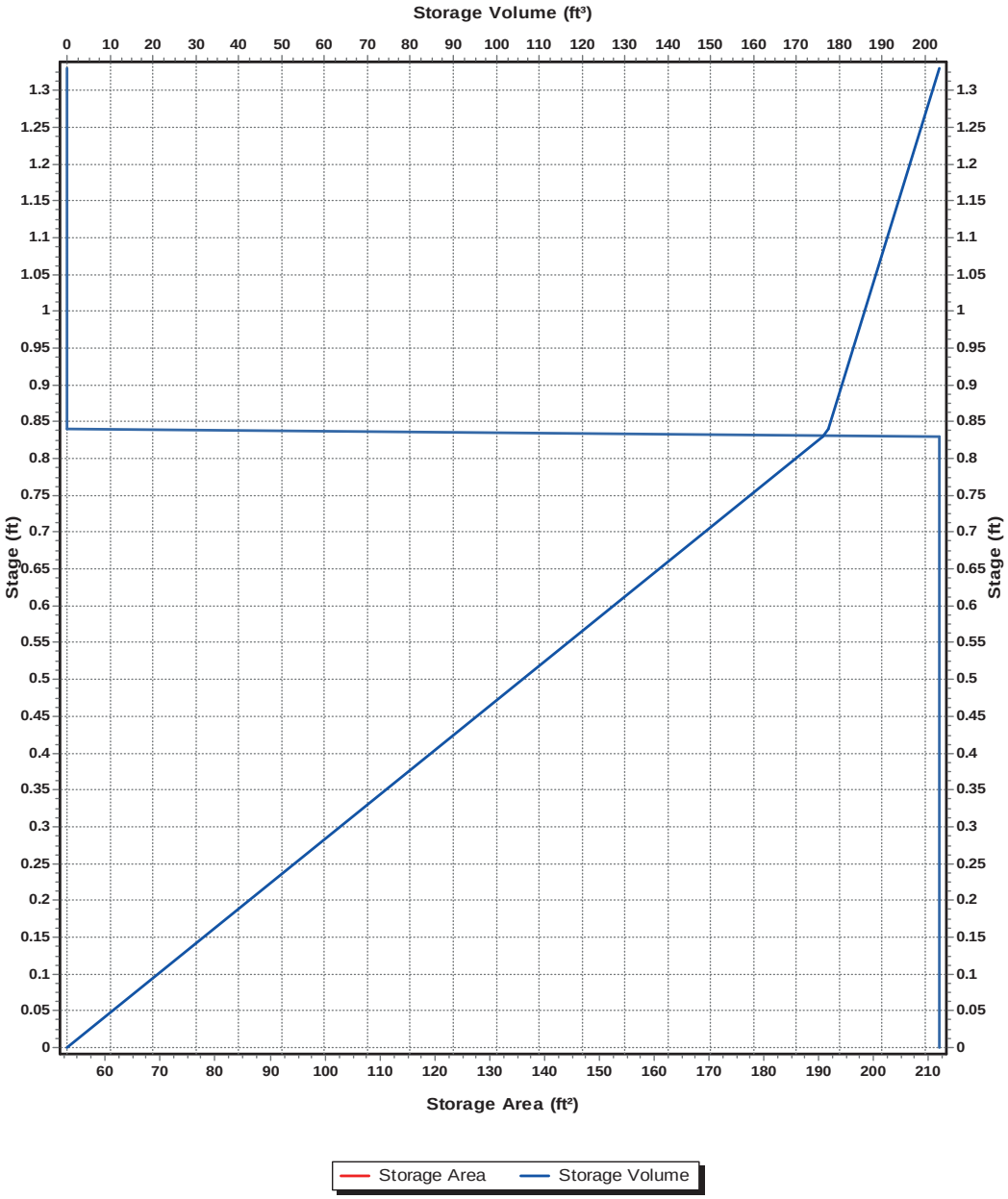
Max Exfiltration Rate (in/hr)	1.95
Min Exfiltration Rate (in/hr)	1.95
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : PPCBA2

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	212	0
0.83	212	175.96
0.84	53	177.29
1.33	53	203.26

Storage Area Volume Curves



Storage Node : PP CBA3

Input Data

Invert Elevation (ft)	6.92
Max (Rim) Elevation (ft)	8.25
Max (Rim) Offset (ft)	1.33
Initial Water Elevation (ft)	6.92
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	1964.00
Evaporation Loss	0.00

Infiltration/Exfiltration

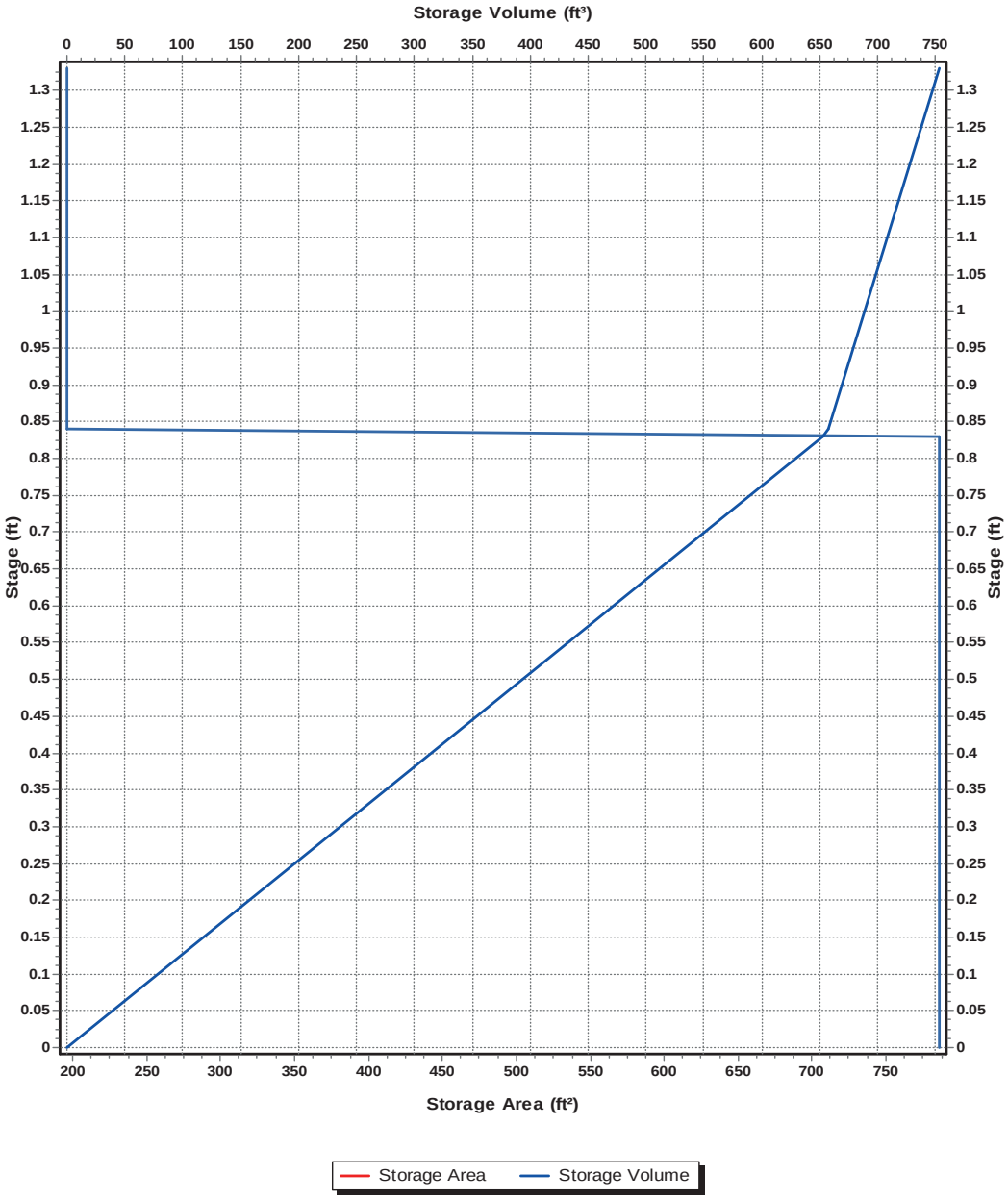
Max Exfiltration Rate (in/hr)	1.95
Min Exfiltration Rate (in/hr)	1.95
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : PPCBA3

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	786	0
0.83	786	652.38
0.84	196	657.29
1.33	196	753.33

Storage Area Volume Curves



Storage Node : PP CBA4

Input Data

Invert Elevation (ft)	7.57
Max (Rim) Elevation (ft)	8.90
Max (Rim) Offset (ft)	1.33
Initial Water Elevation (ft)	7.57
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	575.00
Evaporation Loss	0.00

Infiltration/Exfiltration

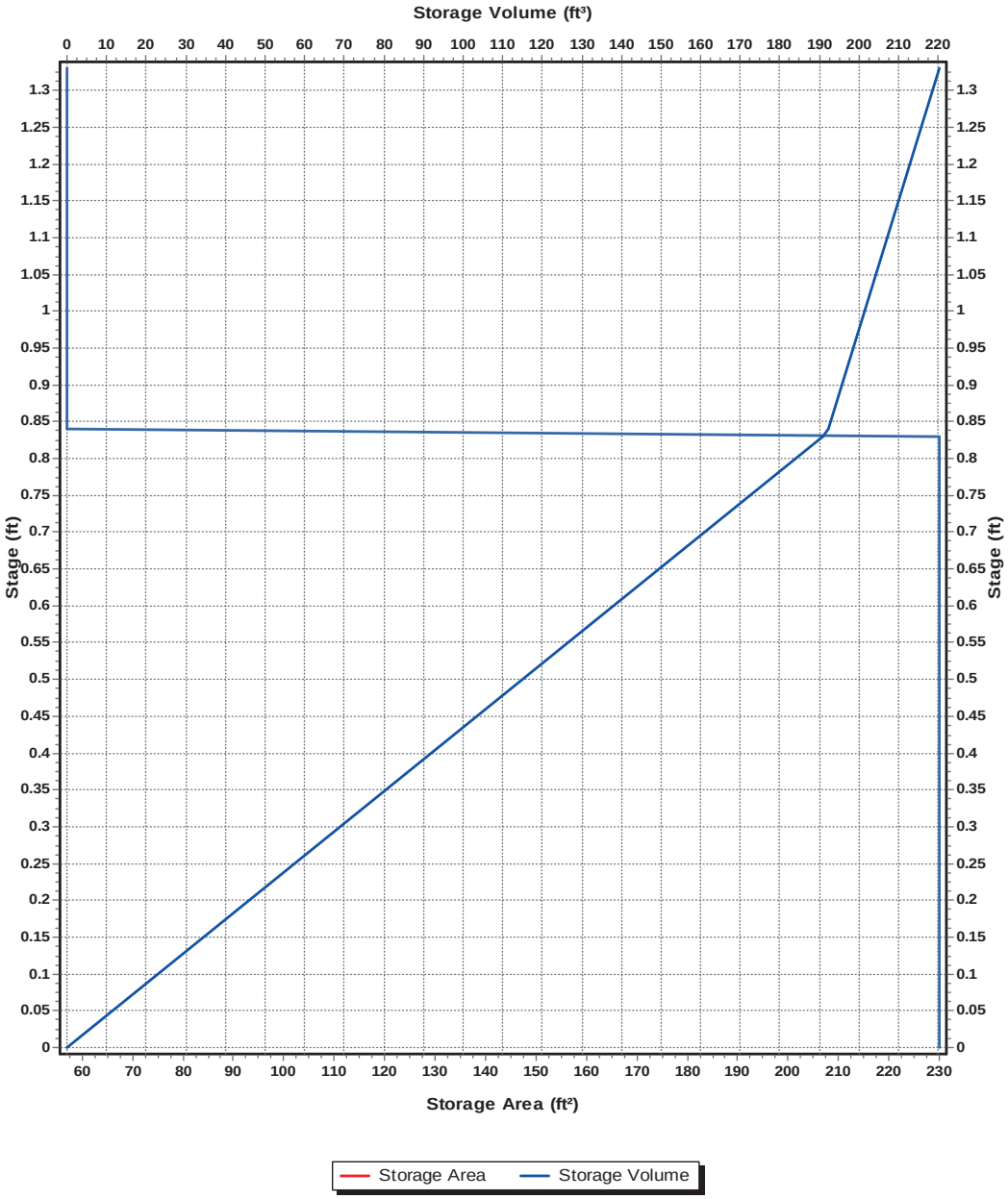
Max Exfiltration Rate (in/hr)	1.95
Min Exfiltration Rate (in/hr)	1.95
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : PPCBA4

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	230	0
0.83	230	190.9
0.84	57	192.34
1.33	57	220.27

Storage Area Volume Curves



Storage Node : PP CBA5

Input Data

Invert Elevation (ft)	7.12
Max (Rim) Elevation (ft)	8.45
Max (Rim) Offset (ft)	1.33
Initial Water Elevation (ft)	7.12
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	760.00
Evaporation Loss	0.00

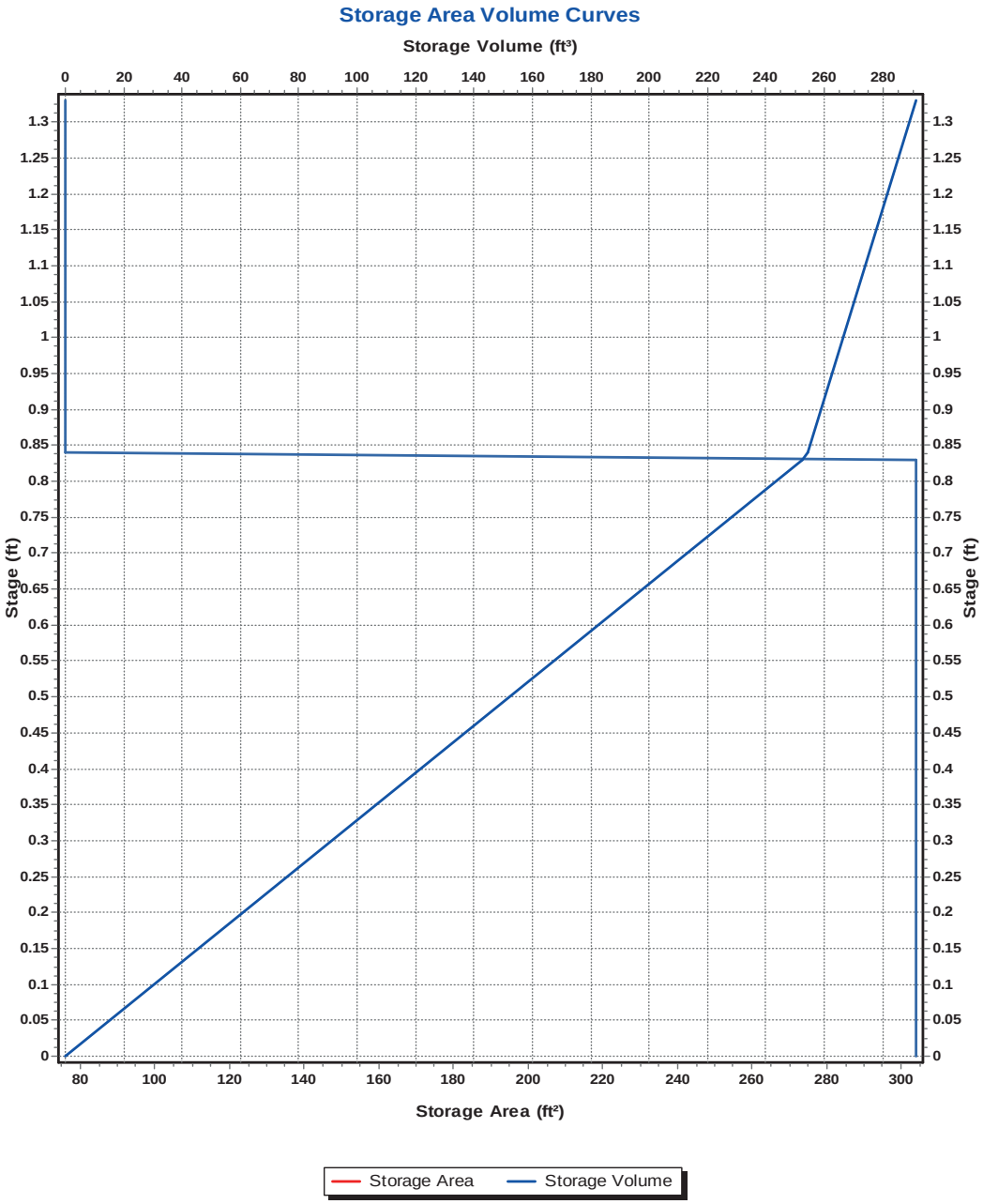
Infiltration/Exfiltration

Max Exfiltration Rate (in/hr)	1.95
Min Exfiltration Rate (in/hr)	1.95
Decay Constant (1/hrs)	0

Storage Area Volume Curves

Storage Curve : PPCBA5

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	304	0
0.83	304	252.32
0.84	76	254.22
1.33	76	291.46


Storage Area Volume Curves
Storage Volume (ft³)
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280
1.3 1.25 1.2 1.15 1.1 1.05 1 0.95 0.9 0.85 0.8 0.75 0.7 0.65 0.6 0.55 0.5 0.45 0.4 0.35 0.3 0.25 0.2 0.15 0.1 0.05 0
Stage (ft)
Stage (ft)
80 100 120 140 160 180 200 220 240 260 280 300
Storage Area (ft²)
Storage Area
Storage Volume

APPENDIX C
SSA MODEL OUTPUT

Project Description

File Name ..... Daufuskie w_Subbasins.SPF

Project Options

Flow Units ..... CFS
Elevation Type ..... Elevation
Hydrology Method ..... SCS TR-55
Time of Concentration (TOC) Method ..... SCS TR-55
Link Routing Method ..... Kinematic Wave
Enable Overflow Ponding at Nodes ..... YES
Skip Steady State Analysis Time Periods ..... YES

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	0 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	5	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins.....	25
Nodes.....	31
Junctions	4
Outfalls	2
Flow Diversions	0
Inlets	17
Storage Nodes	8
Links.....	31
Channels	0
Pipes	21
Pumps	0
Orifices	2
Weirs	8
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	002 Year	Cumulative	inches	South Carolina	Beaufort	2.00	4.50	SCS Type III 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Peak Rate Factor	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	EX Undev	1.91	400.00	77.00	4.50	2.21	4.22	2.76	0 00:26:18
2	Post CBA1	0.02	400.00	98.00	4.50	4.03	0.08	0.07	0 00:06:00
3	Post CBA2	0.05	400.00	98.00	4.50	4.24	0.20	0.17	0 00:06:00
4	Post CBA3	0.18	400.00	98.00	4.50	4.26	0.75	0.67	0 00:06:00
5	Post CBA4	0.02	400.00	98.00	4.50	4.03	0.09	0.07	0 00:06:00
6	Post CBA5	0.10	400.00	98.00	4.50	4.26	0.43	0.38	0 00:06:00
7	Post Undev	1.20	400.00	77.00	4.50	2.21	2.65	1.81	0 00:24:12
8	PostDev Landing Area	0.75	400.00	84.00	4.50	2.82	2.10	2.14	0 00:06:00
9	PostEXCB1	0.20	400.00	98.00	4.50	4.26	0.83	0.72	0 00:06:00
10	PostEXCB2	0.28	0.00	98.00	4.50	4.26	1.21	1.06	0 00:06:00
11	PostEXCB4	0.08	0.00	98.00	4.50	4.26	0.33	0.29	0 00:06:00
12	PostEXCB5	0.15	0.00	98.00	4.50	4.26	0.62	0.55	0 00:06:00
13	PostEXCB6	0.13	0.00	98.00	4.50	4.26	0.55	0.48	0 00:06:00
14	PostParkway	2.18	400.00	98.00	4.50	4.26	9.30	8.18	0 00:06:00
15	PreDev Landing Area	0.75	0.00	84.00	4.50	2.82	2.10	2.15	0 00:06:00
16	PreEXCB1	0.20	400.00	98.00	4.50	4.26	0.83	0.72	0 00:06:00
17	PreEXCB2	0.28	400.00	98.00	4.50	4.26	1.21	1.06	0 00:06:00
18	PreEXCB3	0.40	400.00	98.00	4.50	4.26	1.71	1.51	0 00:06:00
19	PreEXCB4	0.08	400.00	98.00	4.50	4.26	0.33	0.29	0 00:06:00
20	PreEXCB5	0.15	400.00	98.00	4.50	4.26	0.62	0.55	0 00:06:00
21	PreEXCB6	0.13	400.00	98.00	4.50	4.26	0.55	0.48	0 00:06:00
22	PreParkway	2.18	0.00	98.00	4.50	4.26	9.30	8.20	0 00:06:00
23	Prop Parking East	0.14	400.00	98.00	4.50	4.26	0.58	0.50	0 00:06:00
24	Sub-17	0.40	0.00	98.00	4.50	4.26	1.71	1.51	0 00:06:00
25	Sub-26	0.06	400.00	98.00	4.50	4.25	0.26	0.22	0 00:06:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	EX OCS Post	Junction	4.00	8.30	4.00	0.00	0.00	5.11	4.73	0.00	3.57	0 00:00	0.00	0.00
2	EX OCS Pre	Junction	4.00	8.30	4.00	0.00	0.00	5.02	4.72	0.00	3.58	0 00:00	0.00	0.00
3	3-Jun	Junction	4.27	8.29	4.27	0.00	0.00	0.55	5.63	0.00	2.66	0 00:00	0.00	0.00
4	4-Jun	Junction	4.27	8.29	4.27	0.00	0.00	0.55	5.63	0.00	2.66	0 00:00	0.00	0.00
5	Post DEV	Outfall	3.52					6.91	4.25					
6	Pre DEV	Outfall	3.52					7.78	4.24					
7	Ex Pond Post	Storage Node	4.00	8.00	4.00		20344.00	15.28	6.49				0.00	0.00
8	Ex Pond Pre	Storage Node	4.00	8.00	4.00		20344.00	14.75	6.42				0.00	0.00
9	Perv Pave East	Storage Node	6.75	8.00	6.75		5915.00	0.50	7.37				0.00	0.00
10	PP CBA1	Storage Node	7.12	8.45	7.12		355.00	0.07	7.89				0.00	0.00
11	PP CBA2	Storage Node	6.87	8.20	6.87		532.00	0.17	8.19				0.00	0.00
12	PP CBA3	Storage Node	6.92	8.25	6.92		1964.00	0.67	8.27				0.00	16.00
13	PP CBA4	Storage Node	7.57	8.90	7.57		575.00	0.07	7.95				0.00	0.00
14	PP CBA5	Storage Node	7.12	8.45	7.12		760.00	0.38	8.46				0.00	13.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Reported Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Link-01	Pipe	EX OCS Post	Post DEV	80.00	4.00	3.52	0.6000	30.000	0.0150	5.11	27.54	0.19	4.29	0.73	0.29	0.00	Calculated
2	Link-02	Pipe	EX OCS Pre	Pre DEV	80.00	4.00	3.52	0.6000	30.000	0.0150	5.02	27.54	0.18	4.26	0.72	0.29	0.00	Calculated
3	Link-03	Pipe	EXCB3	Ex Pond Pre	69.00	4.93	4.66	0.3900	18.000	0.0150	1.49	5.69	0.26	2.73	0.52	0.35	0.00	Calculated
4	Link-04	Pipe	EXCB1	EXCB2	86.00	5.09	4.82	0.3100	15.000	0.0150	0.71	3.14	0.23	2.10	0.40	0.32	0.00	Calculated
5	Link-05	Pipe	EXCB2	Ex Pond Pre	68.00	4.82	4.61	0.3100	18.000	0.0150	1.75	5.06	0.35	2.61	0.61	0.41	0.00	Calculated
6	Link-06	Pipe	EXCB6	Ex Pond Pre	58.00	5.42	5.30	0.2100	15.000	0.0150	0.48	2.55	0.19	1.61	0.36	0.29	0.00	Calculated
7	Link-07	Pipe	EXCB5	3-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150	0.55	3.06	0.18	1.91	0.36	0.29	0.00	Calculated
8	Link-08	Pipe	3-Jun	EXCB4	20.00	5.27	5.21	0.3000	15.000	0.0150	0.54	3.07	0.18	1.89	0.35	0.28	0.00	Calculated
9	Link-09	Pipe	EXCB4	Ex Pond Pre	57.00	4.96	4.77	0.3300	18.000	0.0150	0.82	5.26	0.16	2.17	0.40	0.27	0.00	Calculated
10	Link-10	Pipe	EX-CB1	EX-CB2	86.00	5.09	4.82	0.3100	15.000	0.0150	0.71	3.14	0.23	2.10	0.40	0.32	0.00	Calculated
11	Link-11	Pipe	EX-CB2	Ex Pond Post	68.00	4.82	4.61	0.3100	18.000	0.0150	1.75	5.06	0.35	2.62	0.61	0.41	0.00	Calculated
12	Link-12	Pipe	EX-CB3	Ex Pond Post	69.00	4.93	4.66	0.3900	18.000	0.0150	1.72	5.69	0.30	2.84	0.56	0.38	0.00	Calculated
13	Link-13	Pipe	EX-CB6	Ex Pond Post	58.00	5.42	5.30	0.2100	15.000	0.0150	0.48	2.55	0.19	1.61	0.37	0.29	0.00	Calculated
14	Link-14	Pipe	EX-CB5	4-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150	0.55	3.06	0.18	1.91	0.36	0.29	0.00	Calculated
15	Link-15	Pipe	4-Jun	EX-CB4	20.00	5.27	5.21	0.3000	15.000	0.0150	0.54	3.07	0.18	1.89	0.35	0.29	0.00	Calculated
16	Link-16	Pipe	EX-CB4	Ex Pond Post	57.00	4.96	4.77	0.3300	18.000	0.0150	1.17	5.26	0.22	2.40	0.48	0.32	0.00	Calculated
17	Link-17	Pipe	CB A4	CB A5	55.00	5.68	5.51	0.3100	15.000	0.0150	0.00	3.11	0.00	0.00	0.00	0.00	0.00	Calculated
18	Link-18	Pipe	CB A5	EX-CB4	100.00	5.51	5.21	0.3000	15.000	0.0150	0.36	3.07	0.12	1.71	0.29	0.23	0.00	Calculated
19	Link-19	Pipe	CB A3	CB A1	48.00	5.60	5.45	0.3100	15.000	0.0150	0.40	3.13	0.13	1.76	0.30	0.24	0.00	Calculated
20	Link-20	Pipe	CB A2	CB A1	87.00	5.71	5.45	0.3000	15.000	0.0150	0.11	3.06	0.04	1.20	0.15	0.13	0.00	Calculated
21	Link-21	Pipe	CB A1	EX-CB3	88.00	5.45	5.18	0.3100	15.000	0.0150	0.51	3.10	0.16	1.87	0.34	0.27	0.00	Calculated
22	Orifice-01	Orifice	Ex Pond Post	EX OCS Post		4.00	4.00		12.000		5.11							
23	Orifice-02	Orifice	Ex Pond Pre	EX OCS Pre		4.00	4.00		12.000		5.02							
24	Weir-01	Weir	Perv Pave East	EX-CB6		6.75	4.30				0.00							
25	Weir-03	Weir	Ex Pond Post	EX OCS Post		4.00	4.00				0.00							
26	Weir-04	Weir	Ex Pond Pre	EX OCS Pre		4.00	4.00				0.00							
27	Weir-CBA1	Weir	PP CBA1	CB A1		7.12	4.45				0.00							
28	Weir-CBA2	Weir	PP CBA2	CB A2		6.87	4.71				0.12							
29	Weir-CBA3	Weir	PP CBA3	CB A3		6.92	4.60				0.40							
30	Weir-CBA4	Weir	PP CBA4	CB A4		7.57	4.68				0.00							
31	Weir-CBA5	Weir	PP CBA5	CB A5		7.12	4.51				0.36							

Inlet Summary

SN	Element ID	Inlet Manufacturer	Manufacturer Part Number	Inlet Location	Number of Inlets	Catchbasin Invert Elevation (ft)	Max (Rim) Elevation (ft)	Initial Water Elevation (ft)	Ponded Area (ft²)	Peak Flow (cfs)	Peak Flow Intercepted by Inlet (cfs)	Peak Flow Bypassing Inlet (cfs)	Inlet Efficiency during Peak Flow (%)	Allowable Spread (ft)	Max Gutter Spread during Peak Flow (ft)	Max Gutter Water Elev. during Peak Flow (ft)
1	CB A1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.45	8.45	4.45	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.45
2	CB A2	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.71	8.20	4.71	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.20
3	CB A3	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.60	8.25	4.60	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.25
4	CB A4	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.68	8.90	4.68	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.90
5	CB A5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.51	8.45	4.51	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.45
6	EXCB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09	10.00	0.71	N/A	N/A	N/A	7.00	0.00	7.93
7	EX-CB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09	10.00	0.71	N/A	N/A	N/A	7.00	0.00	7.93
8	EXCB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82	10.00	1.05	N/A	N/A	N/A	7.00	0.00	7.77
9	EX-CB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82	10.00	1.05	N/A	N/A	N/A	7.00	0.00	7.77
10	EXCB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93	10.00	1.50	N/A	N/A	N/A	7.00	1.23	7.74
11	EX-CB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93	10.00	1.72	N/A	N/A	N/A	7.00	1.82	7.75
12	EXCB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96	10.00	0.29	N/A	N/A	N/A	7.00	0.00	7.93
13	EX-CB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96	10.00	0.29	N/A	N/A	N/A	7.00	0.00	7.93
14	EXCB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53	10.00	0.55	N/A	N/A	N/A	7.00	0.00	7.91
15	EX-CB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53	10.00	0.55	N/A	N/A	N/A	7.00	0.00	7.91
16	EXCB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30	10.00	0.48	N/A	N/A	N/A	7.00	0.00	7.94
17	EX-CB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30	10.00	0.48	N/A	N/A	N/A	7.00	0.00	7.94

Project Description

File Name	Daufuskie w_Subbasins.SPF

Project Options

Flow Units	CFS
Elevation Type	Elevation
Hydrology Method	SCS TR-55
Time of Concentration (TOC) Method	SCS TR-55
Link Routing Method	Kinematic Wave
Enable Overflow Ponding at Nodes	YES
Skip Steady State Analysis Time Periods	YES

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	0 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	5	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	25
Nodes	31
Junctions	4
Outfalls	2
Flow Diversions	0
Inlets	17
Storage Nodes	8
Links	31
Channels	0
Pipes	21
Pumps	0
Orifices	2
Weirs	8
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	010 Year	Cumulative	inches	South Carolina	Beaufort	10.00	6.90	SCS Type III 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Peak Rate Factor	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	EX Undev	1.91	400.00	77.00	6.90	4.28	8.17	5.36	0 00:26:18
2	Post CBA1	0.02	400.00	98.00	6.90	6.59	0.13	0.11	0 00:06:00
3	Post CBA2	0.05	400.00	98.00	6.90	6.65	0.31	0.26	0 00:06:00
4	Post CBA3	0.18	400.00	98.00	6.90	6.66	1.18	1.03	0 00:06:00
5	Post CBA4	0.02	400.00	98.00	6.90	6.59	0.15	0.11	0 00:06:00
6	Post CBA5	0.10	400.00	98.00	6.90	6.66	0.67	0.59	0 00:06:00
7	Post Undev	1.20	400.00	77.00	6.90	4.28	5.13	3.50	0 00:24:12
8	PostDev Landing Area	0.75	400.00	84.00	6.90	5.05	3.77	3.72	0 00:06:00
9	PostEXCB1	0.20	400.00	98.00	6.90	6.66	1.30	1.11	0 00:06:00
10	PostEXCB2	0.28	0.00	98.00	6.90	6.66	1.89	1.63	0 00:06:00
11	PostEXCB4	0.08	0.00	98.00	6.90	6.66	0.51	0.44	0 00:06:00
12	PostEXCB5	0.15	0.00	98.00	6.90	6.66	0.97	0.85	0 00:06:00
13	PostEXCB6	0.13	0.00	98.00	6.90	6.66	0.87	0.74	0 00:06:00
14	PostParkway	2.18	400.00	98.00	6.90	6.66	14.52	12.59	0 00:06:00
15	PreDev Landing Area	0.75	0.00	84.00	6.90	5.05	3.77	3.74	0 00:06:00
16	PreEXCB1	0.20	400.00	98.00	6.90	6.66	1.30	1.11	0 00:06:00
17	PreEXCB2	0.28	400.00	98.00	6.90	6.66	1.89	1.62	0 00:06:00
18	PreEXCB3	0.40	400.00	98.00	6.90	6.66	2.67	2.33	0 00:06:00
19	PreEXCB4	0.08	400.00	98.00	6.90	6.66	0.51	0.44	0 00:06:00
20	PreEXCB5	0.15	400.00	98.00	6.90	6.66	0.97	0.85	0 00:06:00
21	PreEXCB6	0.13	400.00	98.00	6.90	6.66	0.87	0.74	0 00:06:00
22	PreParkway	2.18	0.00	98.00	6.90	6.66	14.52	12.61	0 00:06:00
23	Prop Parking East	0.14	400.00	98.00	6.90	6.66	0.90	0.78	0 00:06:00
24	Sub-17	0.40	0.00	98.00	6.90	6.66	2.67	2.33	0 00:06:00
25	Sub-26	0.06	400.00	98.00	6.90	6.66	0.40	0.33	0 00:06:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	EX OCS Post	Junction	4.00	8.30	4.00	0.00	0.00	6.02	4.79	0.00	3.51	0 00:00	0.00	0.00
2	EX OCS Pre	Junction	4.00	8.30	4.00	0.00	0.00	5.87	4.78	0.00	3.52	0 00:00	0.00	0.00
3	3-Jun	Junction	4.27	8.29	4.27	0.00	0.00	0.84	5.72	0.00	2.57	0 00:00	0.00	0.00
4	4-Jun	Junction	4.27	8.29	4.27	0.00	0.00	0.84	5.72	0.00	2.57	0 00:00	0.00	0.00
5	Post DEV	Outfall	3.52					9.46	4.31					
6	Pre DEV	Outfall	3.52					11.21	4.30					
7	Ex Pond Post	Storage Node	4.00	8.00	4.00		20344.00	24.80	7.15				0.00	0.00
8	Ex Pond Pre	Storage Node	4.00	8.00	4.00		20344.00	23.19	7.04				0.00	0.00
9	Perv Pave East	Storage Node	6.75	8.00	6.75		5915.00	0.77	7.56				0.00	0.00
10	PP CBA1	Storage Node	7.12	8.45	7.12		355.00	0.11	8.42				0.00	0.00
11	PP CBA2	Storage Node	6.87	8.20	6.87		532.00	0.26	8.23				0.00	19.00
12	PP CBA3	Storage Node	6.92	8.25	6.92		1964.00	1.03	8.38				0.00	39.00
13	PP CBA4	Storage Node	7.57	8.90	7.57		575.00	0.11	8.28				0.00	0.00
14	PP CBA5	Storage Node	7.12	8.45	7.12		760.00	0.59	8.51				0.00	24.00

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Reported Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Link-01	Pipe	EX OCS Post	Post DEV	80.00	4.00	3.52	0.6000	30.000	0.0150	6.02	27.54	0.22	4.49	0.79	0.32	0.00	Calculated
2	Link-02	Pipe	EX OCS Pre	Pre DEV	80.00	4.00	3.52	0.6000	30.000	0.0150	5.87	27.54	0.21	4.46	0.78	0.31	0.00	Calculated
3	Link-03	Pipe	EXCB3	Ex Pond Pre	69.00	4.93	4.66	0.3900	18.000	0.0150	2.31	5.69	0.41	3.07	0.66	0.44	0.00	Calculated
4	Link-04	Pipe	EXCB1	EXCB2	86.00	5.09	4.82	0.3100	15.000	0.0150	1.10	3.14	0.35	2.34	0.51	0.41	0.00	Calculated
5	Link-05	Pipe	EXCB2	Ex Pond Pre	68.00	4.82	4.61	0.3100	18.000	0.0150	2.69	5.06	0.53	2.92	0.78	0.52	0.00	Calculated
6	Link-06	Pipe	EXCB6	Ex Pond Pre	58.00	5.42	5.30	0.2100	15.000	0.0150	0.73	2.55	0.29	1.81	0.46	0.37	0.00	Calculated
7	Link-07	Pipe	EXCB5	3-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150	0.84	3.06	0.27	2.14	0.45	0.36	0.00	Calculated
8	Link-08	Pipe	3-Jun	EXCB4	20.00	5.27	5.21	0.3000	15.000	0.0150	0.84	3.07	0.27	2.13	0.44	0.36	0.00	Calculated
9	Link-09	Pipe	EXCB4	Ex Pond Pre	57.00	4.96	4.77	0.3300	18.000	0.0150	1.27	5.26	0.24	2.46	0.50	0.33	0.00	Calculated
10	Link-10	Pipe	EX-CB1	EX-CB2	86.00	5.09	4.82	0.3100	15.000	0.0150	1.10	3.14	0.35	2.34	0.51	0.41	0.00	Calculated
11	Link-11	Pipe	EX-CB2	Ex Pond Post	68.00	4.82	4.61	0.3100	18.000	0.0150	2.71	5.06	0.54	2.93	0.78	0.52	0.00	Calculated
12	Link-12	Pipe	EX-CB3	Ex Pond Post	69.00	4.93	4.66	0.3900	18.000	0.0150	3.48	5.69	0.61	3.39	0.85	0.57	0.00	Calculated
13	Link-13	Pipe	EX-CB6	Ex Pond Post	58.00	5.42	5.30	0.2100	15.000	0.0150	0.73	2.55	0.29	1.80	0.46	0.37	0.00	Calculated
14	Link-14	Pipe	EX-CB5	4-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150	0.84	3.06	0.28	2.15	0.45	0.36	0.00	Calculated
15	Link-15	Pipe	4-Jun	EX-CB4	20.00	5.27	5.21	0.3000	15.000	0.0150	0.84	3.07	0.27	2.14	0.45	0.36	0.00	Calculated
16	Link-16	Pipe	EX-CB4	Ex Pond Post	57.00	4.96	4.77	0.3300	18.000	0.0150	1.79	5.26	0.34	2.70	0.60	0.40	0.00	Calculated
17	Link-17	Pipe	CB A4	CB A5	55.00	5.68	5.51	0.3100	15.000	0.0150	0.00	3.11	0.00	0.00	0.00	0.00	0.00	Calculated
18	Link-18	Pipe	CB A5	EX-CB4	100.00	5.51	5.21	0.3000	15.000	0.0150	0.54	3.07	0.18	1.88	0.35	0.28	0.00	Calculated
19	Link-19	Pipe	CB A3	CB A1	48.00	5.60	5.45	0.3100	15.000	0.0150	0.75	3.13	0.24	2.09	0.41	0.33	0.00	Calculated
20	Link-20	Pipe	CB A2	CB A1	87.00	5.71	5.45	0.3000	15.000	0.0150	0.23	3.06	0.08	1.47	0.23	0.19	0.00	Calculated
21	Link-21	Pipe	CB A1	EX-CB3	88.00	5.45	5.18	0.3100	15.000	0.0150	1.04	3.10	0.34	2.29	0.48	0.40	0.00	Calculated
22	Orifice-01	Orifice	Ex Pond Post	EX OCS Post		4.00	4.00		12.000		6.01							
23	Orifice-02	Orifice	Ex Pond Pre	EX OCS Pre		4.00	4.00		12.000		5.87							
24	Weir-01	Weir	Perv Pave East	EX-CB6		6.75	4.30				0.00							
25	Weir-03	Weir	Ex Pond Post	EX OCS Post		4.00	4.00				0.01							
26	Weir-04	Weir	Ex Pond Pre	EX OCS Pre		4.00	4.00				0.00							
27	Weir-CBA1	Weir	PP CBA1	CB A1		7.12	4.45				0.08							
28	Weir-CBA2	Weir	PP CBA2	CB A2		6.87	4.71				0.23							
29	Weir-CBA3	Weir	PP CBA3	CB A3		6.92	4.60				0.75							
30	Weir-CBA4	Weir	PP CBA4	CB A4		7.57	4.68				0.00							
31	Weir-CBA5	Weir	PP CBA5	CB A5		7.12	4.51				0.54							

Inlet Summary

SN	Element ID	Inlet Manufacturer	Manufacturer Part Number	Inlet Location	Number of Inlets	Catchbasin Invert Elevation (ft)	Max (Rim) Elevation (ft)	Initial Water Elevation (ft)	Ponded Area (ft²)	Peak Flow (cfs)	Peak Flow Intercepted by Inlet (cfs)	Peak Flow Bypassing Inlet (cfs)	Inlet Efficiency during Peak Flow (%)	Allowable Spread (ft)	Max Gutter Spread during Peak Flow (ft)	Max Gutter Water Elev. during Peak Flow (ft)
1	CB A1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.45	8.45	4.45	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.45
2	CB A2	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.71	8.20	4.71	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.20
3	CB A3	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.60	8.25	4.60	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.25
4	CB A4	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.68	8.90	4.68	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.90
5	CB A5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.51	8.45	4.51	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.45
6	EXCB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09	10.00	1.10	N/A	N/A	N/A	7.00	0.08	7.96
7	EX-CB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09	10.00	1.10	N/A	N/A	N/A	7.00	0.08	7.96
8	EXCB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82	10.00	1.61	N/A	N/A	N/A	7.00	1.53	7.80
9	EX-CB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82	10.00	1.62	N/A	N/A	N/A	7.00	1.55	7.80
10	EXCB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93	10.00	2.31	N/A	N/A	N/A	7.00	3.27	7.78
11	EX-CB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93	10.00	2.65	N/A	N/A	N/A	7.00	4.05	7.80
12	EXCB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96	10.00	0.44	N/A	N/A	N/A	7.00	0.00	7.94
13	EX-CB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96	10.00	0.44	N/A	N/A	N/A	7.00	0.00	7.94
14	EXCB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53	10.00	0.84	N/A	N/A	N/A	7.00	0.00	7.93
15	EX-CB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53	10.00	0.85	N/A	N/A	N/A	7.00	0.00	7.93
16	EXCB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30	10.00	0.73	N/A	N/A	N/A	7.00	0.00	7.96
17	EX-CB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30	10.00	0.74	N/A	N/A	N/A	7.00	0.00	7.96

Project Description

File Name	Daufuskie w_Subbasins.SPF

Project Options

Flow Units	CFS
Elevation Type	Elevation
Hydrology Method	SCS TR-55
Time of Concentration (TOC) Method	SCS TR-55
Link Routing Method	Kinematic Wave
Enable Overflow Ponding at Nodes	YES
Skip Steady State Analysis Time Periods	YES

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	0 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	5	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	25
Nodes	31
Junctions	4
Outfalls	2
Flow Diversions	0
Inlets	17
Storage Nodes	8
Links	31
Channels	0
Pipes	21
Pumps	0
Orifices	2
Weirs	8
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period (years)	Rainfall Depth (inches)	Rainfall Distribution
1	Rain Gage-01	Time Series	025 Year	Cumulative	inches	South Carolina	Beaufort	25.00	8.40	SCS Type III 24-hr

Subbasin Summary

SN	Subbasin ID	Area (ac)	Peak Rate Factor	Weighted Curve Number	Total Rainfall (in)	Total Runoff (in)	Total Runoff Volume (ac-in)	Peak Runoff (cfs)	Time of Concentration (days hh:mm:ss)
1	EX Undev	1.91	400.00	77.00	8.40	5.64	10.78	7.03	0 00:26:18
2	Post CBA1	0.02	400.00	98.00	8.40	8.11	0.16	0.13	0 00:06:00
3	Post CBA2	0.05	400.00	98.00	8.40	8.15	0.38	0.31	0 00:06:00
4	Post CBA3	0.18	400.00	98.00	8.40	8.16	1.44	1.26	0 00:06:00
5	Post CBA4	0.02	400.00	98.00	8.40	8.11	0.18	0.13	0 00:06:00
6	Post CBA5	0.10	400.00	98.00	8.40	8.16	0.82	0.72	0 00:06:00
7	Post Undev	1.20	400.00	77.00	8.40	5.64	6.77	4.60	0 00:24:12
8	PostDev Landing Area	0.75	400.00	84.00	8.40	6.48	4.84	4.71	0 00:06:00
9	PostEXCB1	0.20	400.00	98.00	8.40	8.16	1.59	1.35	0 00:06:00
10	PostEXCB2	0.28	0.00	98.00	8.40	8.16	2.32	1.98	0 00:06:00
11	PostEXCB4	0.08	0.00	98.00	8.40	8.16	0.63	0.54	0 00:06:00
12	PostEXCB5	0.15	0.00	98.00	8.40	8.16	1.19	1.04	0 00:06:00
13	PostEXCB6	0.13	0.00	98.00	8.40	8.16	1.06	0.90	0 00:06:00
14	PostParkway	2.18	400.00	98.00	8.40	8.16	17.79	15.34	0 00:06:00
15	PreDev Landing Area	0.75	0.00	84.00	8.40	6.48	4.84	4.73	0 00:06:00
16	PreEXCB1	0.20	400.00	98.00	8.40	8.16	1.59	1.35	0 00:06:00
17	PreEXCB2	0.28	400.00	98.00	8.40	8.16	2.32	1.98	0 00:06:00
18	PreEXCB3	0.40	400.00	98.00	8.40	8.16	3.27	2.83	0 00:06:00
19	PreEXCB4	0.08	400.00	98.00	8.40	8.16	0.63	0.54	0 00:06:00
20	PreEXCB5	0.15	400.00	98.00	8.40	8.16	1.19	1.03	0 00:06:00
21	PreEXCB6	0.13	400.00	98.00	8.40	8.16	1.06	0.90	0 00:06:00
22	PreParkway	2.18	0.00	98.00	8.40	8.16	17.79	15.37	0 00:06:00
23	Prop Parking East	0.14	400.00	98.00	8.40	8.16	1.10	0.94	0 00:06:00
24	Sub-17	0.40	0.00	98.00	8.40	8.16	3.27	2.84	0 00:06:00
25	Sub-26	0.06	400.00	98.00	8.40	8.16	0.49	0.40	0 00:06:00

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	EX OCS Post	Junction	4.00	8.30	4.00	0.00	0.00	10.63	5.08	0.00	3.22	0 00:00	0.00	0.00
2	EX OCS Pre	Junction	4.00	8.30	4.00	0.00	0.00	8.56	4.96	0.00	3.34	0 00:00	0.00	0.00
3	3-Jun	Junction	4.27	8.29	4.27	0.00	0.00	1.02	5.77	0.00	2.52	0 00:00	0.00	0.00
4	4-Jun	Junction	4.27	8.29	4.27	0.00	0.00	1.03	5.77	0.00	2.52	0 00:00	0.00	0.00
5	Post DEV	Outfall	3.52					15.15	4.60					
6	Pre DEV	Outfall	3.52					15.50	4.48					
7	Ex Pond Post	Storage Node	4.00	8.00	4.00		20344.00	30.44	7.38				0.00	0.00
8	Ex Pond Pre	Storage Node	4.00	8.00	4.00		20344.00	28.44	7.30				0.00	0.00
9	Perv Pave East	Storage Node	6.75	8.00	6.75		5915.00	0.94	7.65				0.00	0.00
10	PP CBA1	Storage Node	7.12	8.45	7.12		355.00	0.13	8.43				0.00	0.00
11	PP CBA2	Storage Node	6.87	8.20	6.87		532.00	0.31	8.26				0.00	27.00
12	PP CBA3	Storage Node	6.92	8.25	6.92		1964.00	1.25	8.45				0.00	53.00
13	PP CBA4	Storage Node	7.57	8.90	7.57		575.00	0.13	8.86				0.00	0.00
14	PP CBA5	Storage Node	7.12	8.45	7.12		760.00	0.71	8.54				0.00	32.00

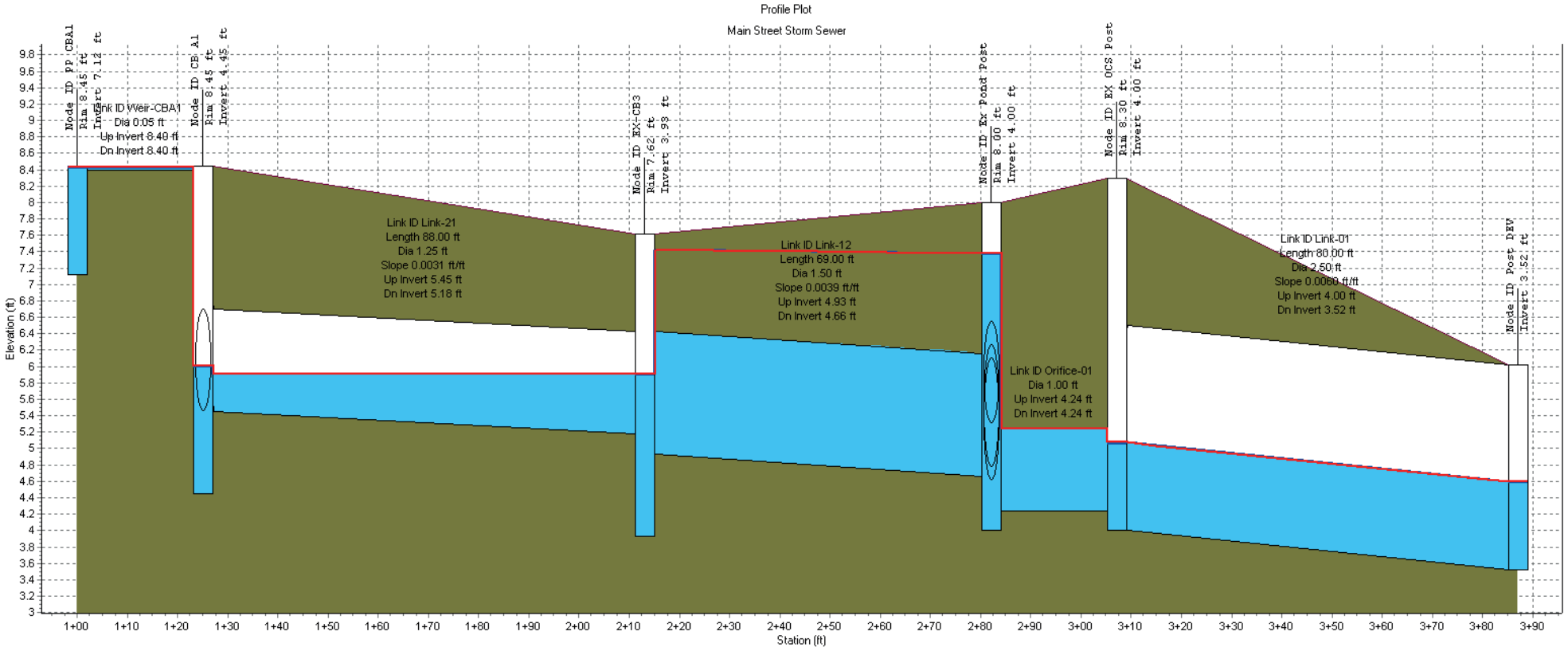
Link Summary

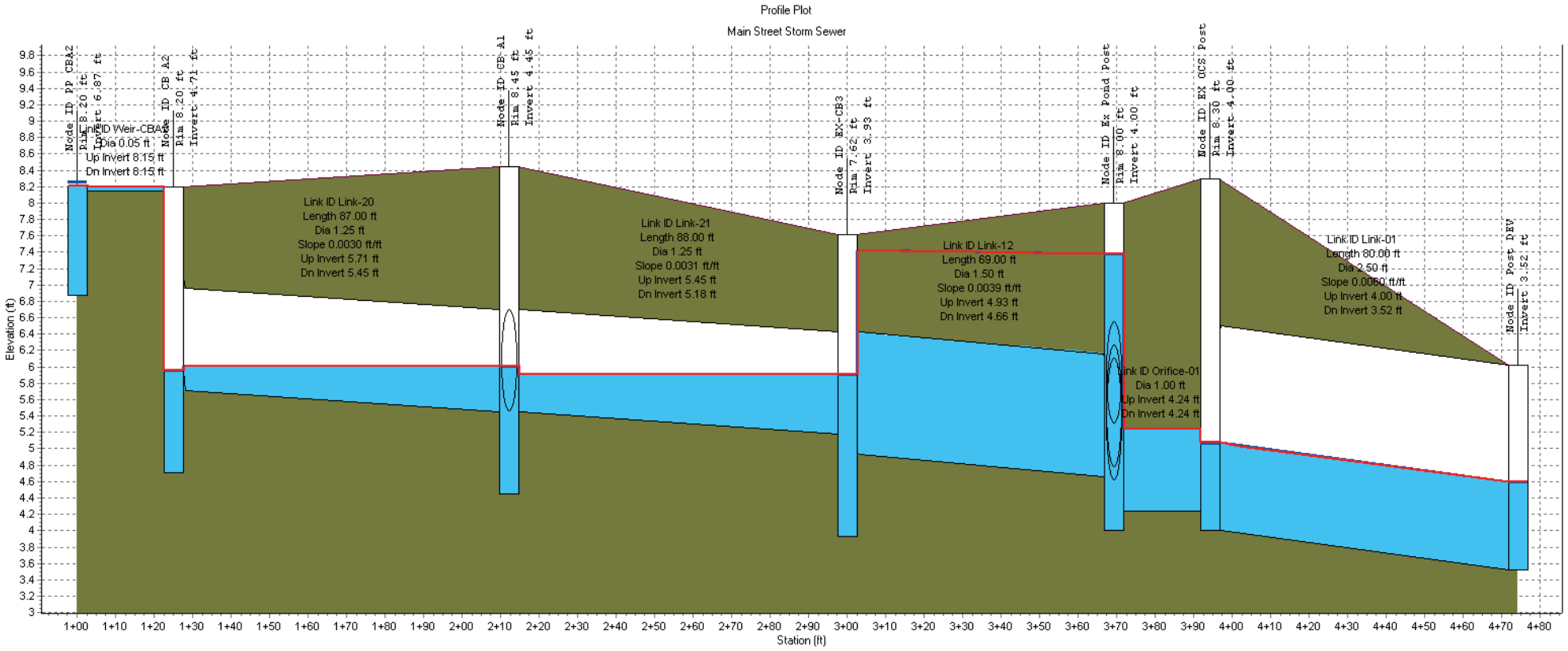
SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Reported Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Link-01	Pipe	EX OCS Post	Post DEV	80.00	4.00	3.52	0.6000	30.000	0.0150	10.63	27.54	0.39	5.24	1.08	0.43	0.00	Calculated
2	Link-02	Pipe	EX OCS Pre	Pre DEV	80.00	4.00	3.52	0.6000	30.000	0.0150	8.56	27.54	0.31	4.95	0.95	0.38	0.00	Calculated
3	Link-03	Pipe	EXCB3	Ex Pond Pre	69.00	4.93	4.66	0.3900	18.000	0.0150	2.80	5.69	0.49	3.22	0.74	0.50	0.00	Calculated
4	Link-04	Pipe	EXCB1	EXCB2	86.00	5.09	4.82	0.3100	15.000	0.0150	1.33	3.14	0.43	2.46	0.57	0.46	0.00	Calculated
5	Link-05	Pipe	EXCB2	Ex Pond Pre	68.00	4.82	4.61	0.3100	18.000	0.0150	3.29	5.06	0.65	3.06	0.88	0.59	0.00	Calculated
6	Link-06	Pipe	EXCB6	Ex Pond Pre	58.00	5.42	5.30	0.2100	15.000	0.0150	0.89	2.55	0.35	1.91	0.51	0.41	0.00	Calculated
7	Link-07	Pipe	EXCB5	3-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150	1.02	3.06	0.33	2.27	0.50	0.40	0.00	Calculated
8	Link-08	Pipe	3-Jun	EXCB4	20.00	5.27	5.21	0.3000	15.000	0.0150	1.02	3.07	0.33	2.25	0.49	0.40	0.00	Calculated
9	Link-09	Pipe	EXCB4	Ex Pond Pre	57.00	4.96	4.77	0.3300	18.000	0.0150	1.55	5.26	0.30	2.60	0.56	0.37	0.00	Calculated
10	Link-10	Pipe	EX-CB1	EX-CB2	86.00	5.09	4.82	0.3100	15.000	0.0150	1.33	3.14	0.43	2.46	0.57	0.46	0.00	Calculated
11	Link-11	Pipe	EX-CB2	Ex Pond Post	68.00	4.82	4.61	0.3100	18.000	0.0150	3.29	5.06	0.65	3.06	0.88	0.59	0.00	Calculated
12	Link-12	Pipe	EX-CB3	Ex Pond Post	69.00	4.93	4.66	0.3900	18.000	0.0150	4.33	5.69	0.76	3.57	0.97	0.65	0.00	Calculated
13	Link-13	Pipe	EX-CB6	Ex Pond Post	58.00	5.42	5.30	0.2100	15.000	0.0150	0.90	2.55	0.35	1.91	0.51	0.41	0.00	Calculated
14	Link-14	Pipe	EX-CB5	4-Jun	87.00	5.53	5.27	0.3000	15.000	0.0150	1.03	3.06	0.34	2.26	0.50	0.40	0.00	Calculated
15	Link-15	Pipe	4-Jun	EX-CB4	20.00	5.27	5.21	0.3000	15.000	0.0150	1.03	3.07	0.34	2.25	0.50	0.40	0.00	Calculated
16	Link-16	Pipe	EX-CB4	Ex Pond Post	57.00	4.96	4.77	0.3300	18.000	0.0150	2.17	5.26	0.41	2.84	0.67	0.45	0.00	Calculated
17	Link-17	Pipe	CB A4	CB A5	55.00	5.68	5.51	0.3100	15.000	0.0150	0.01	3.11	0.00	0.64	0.06	0.05	0.00	Calculated
18	Link-18	Pipe	CB A5	EX-CB4	100.00	5.51	5.21	0.3000	15.000	0.0150	0.64	3.07	0.21	1.98	0.38	0.31	0.00	Calculated
19	Link-19	Pipe	CB A3	CB A1	48.00	5.60	5.45	0.3100	15.000	0.0150	0.89	3.13	0.28	2.20	0.45	0.36	0.00	Calculated
20	Link-20	Pipe	CB A2	CB A1	87.00	5.71	5.45	0.3000	15.000	0.0150	0.27	3.06	0.09	1.55	0.25	0.20	0.00	Calculated
21	Link-21	Pipe	CB A1	EX-CB3	88.00	5.45	5.18	0.3100	15.000	0.0150	1.26	3.10	0.41	2.40	0.55	0.44	0.00	Calculated
22	Orifice-01	Orifice	Ex Pond Post	EX OCS Post		4.00	4.00		12.000		6.29							
23	Orifice-02	Orifice	Ex Pond Pre	EX OCS Pre		4.00	4.00		12.000		6.19							
24	Weir-01	Weir	Perv Pave East	EX-CB6		6.75	4.30				0.00							
25	Weir-03	Weir	Ex Pond Post	EX OCS Post		4.00	4.00				4.34							
26	Weir-04	Weir	Ex Pond Pre	EX OCS Pre		4.00	4.00				2.37							
27	Weir-CBA1	Weir	PP CBA1	CB A1		7.12	4.45				0.13							
28	Weir-CBA2	Weir	PP CBA2	CB A2		6.87	4.71				0.27							
29	Weir-CBA3	Weir	PP CBA3	CB A3		6.92	4.60				0.89							
30	Weir-CBA4	Weir	PP CBA4	CB A4		7.57	4.68				0.02							
31	Weir-CBA5	Weir	PP CBA5	CB A5		7.12	4.51				0.64							

Inlet Summary

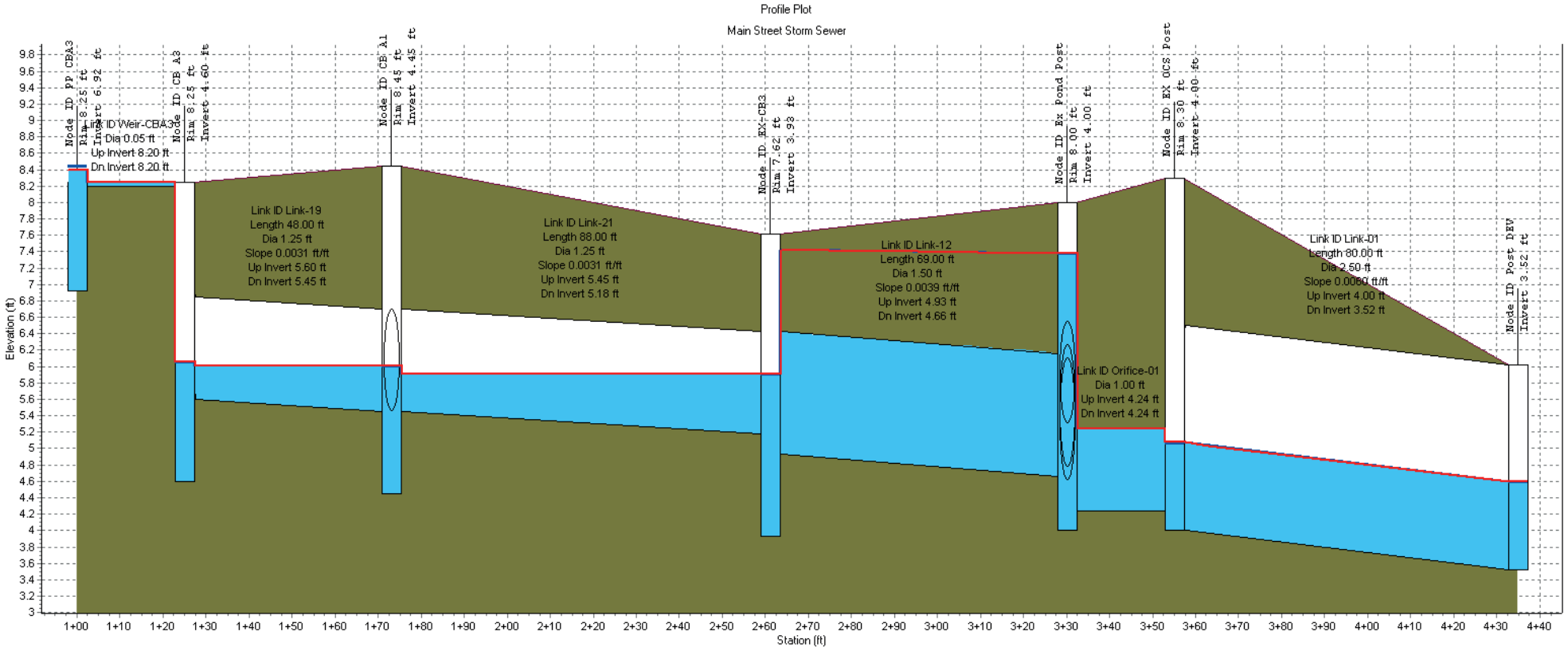
SN	Element ID	Inlet Manufacturer	Manufacturer Part Number	Inlet Location	Number of Inlets	Catchbasin Invert Elevation (ft)	Max (Rim) Elevation (ft)	Initial Water Elevation (ft)	Ponded Area (ft²)	Peak Flow (cfs)	Peak Flow Intercepted by Inlet (cfs)	Peak Flow Bypassing Inlet (cfs)	Inlet Efficiency during Peak Flow (%)	Allowable Spread (ft)	Max Gutter Spread during Peak Flow (ft)	Max Gutter Water Elev. during Peak Flow (ft)
1	CB A1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.45	8.45	4.45	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.45
2	CB A2	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.71	8.20	4.71	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.20
3	CB A3	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.60	8.25	4.60	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.25
4	CB A4	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.68	8.90	4.68	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.90
5	CB A5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.51	8.45	4.51	10.00	0.00	N/A	N/A	N/A	7.00	0.00	8.45
6	EXCB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09	10.00	1.34	N/A	N/A	N/A	7.00	0.79	7.97
7	EX-CB1	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.09	7.86	4.09	10.00	1.34	N/A	N/A	N/A	7.00	0.79	7.97
8	EXCB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82	10.00	1.96	N/A	N/A	N/A	7.00	2.44	7.82
9	EX-CB2	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.82	7.67	3.82	10.00	1.97	N/A	N/A	N/A	7.00	2.46	7.82
10	EXCB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93	10.00	2.81	N/A	N/A	N/A	7.00	4.42	7.81
11	EX-CB3	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.93	7.62	3.93	10.00	3.23	N/A	N/A	N/A	7.00	5.32	7.82
12	EXCB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96	10.00	0.54	N/A	N/A	N/A	7.00	0.00	7.95
13	EX-CB4	NEENAH FOUNDRY	R-3403-F	On Sag	1	3.96	7.89	3.96	10.00	0.54	N/A	N/A	N/A	7.00	0.00	7.95
14	EXCB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53	10.00	1.03	N/A	N/A	N/A	7.00	0.00	7.95
15	EX-CB5	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.53	7.85	4.53	10.00	1.03	N/A	N/A	N/A	7.00	0.00	7.95
16	EXCB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30	10.00	0.89	N/A	N/A	N/A	7.00	0.00	7.97
17	EX-CB6	NEENAH FOUNDRY	R-3403-F	On Sag	1	4.30	7.88	4.30	10.00	0.90	N/A	N/A	N/A	7.00	0.00	7.97

APPENDIX D
HYDRAULIC PIPE PROFILES - 25 YR HGL

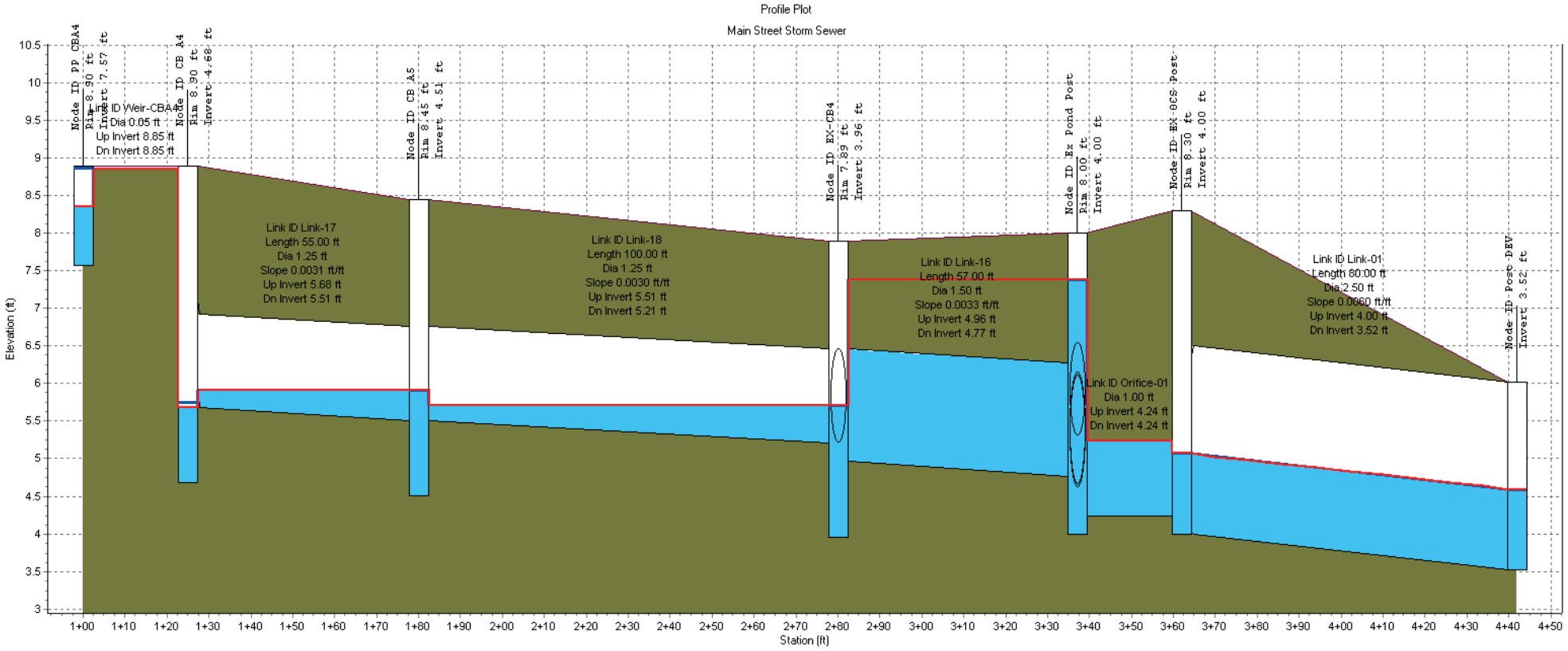

Profile Plot
Main Street Storm Sewer
Node ID PP CBA1
Rim 8.45 ft
Invert 7.12 ft
Link ID Weir-CBA1
Dia 0.05 ft
Up Invert 8.40 ft
Dn Invert 8.40 ft
Node ID CB A1
Rim 8.45 ft
Invert 4.45 ft
Link ID Link-21
Length 88.00 ft
Dia 1.25 ft
Slope 0.0031 ft/ft
Up Invert 5.45 ft
Dn Invert 5.18 ft
Node ID EX-CB3
Rim 7.62 ft
Invert 3.93 ft
Link ID Link-12
Length 69.00 ft
Dia 1.50 ft
Slope 0.0039 ft/ft
Up Invert 4.93 ft
Dn Invert 4.66 ft
Node ID Ex Pond Post
Rim 8.00 ft
Invert 4.00 ft
Link ID Orifice-01
Dia 1.00 ft
Up Invert 4.24 ft
Dn Invert 4.24 ft
Node ID EX OCS Post
Rim 8.30 ft
Invert 4.00 ft
Link ID Link-01
Length 80.00 ft
Dia 2.50 ft
Slope 0.0069 ft/ft
Up Invert 4.00 ft
Dn Invert 3.52 ft
Node ID Post DEV
Invert 3.52 ft
Elevation (ft)
Station (ft)



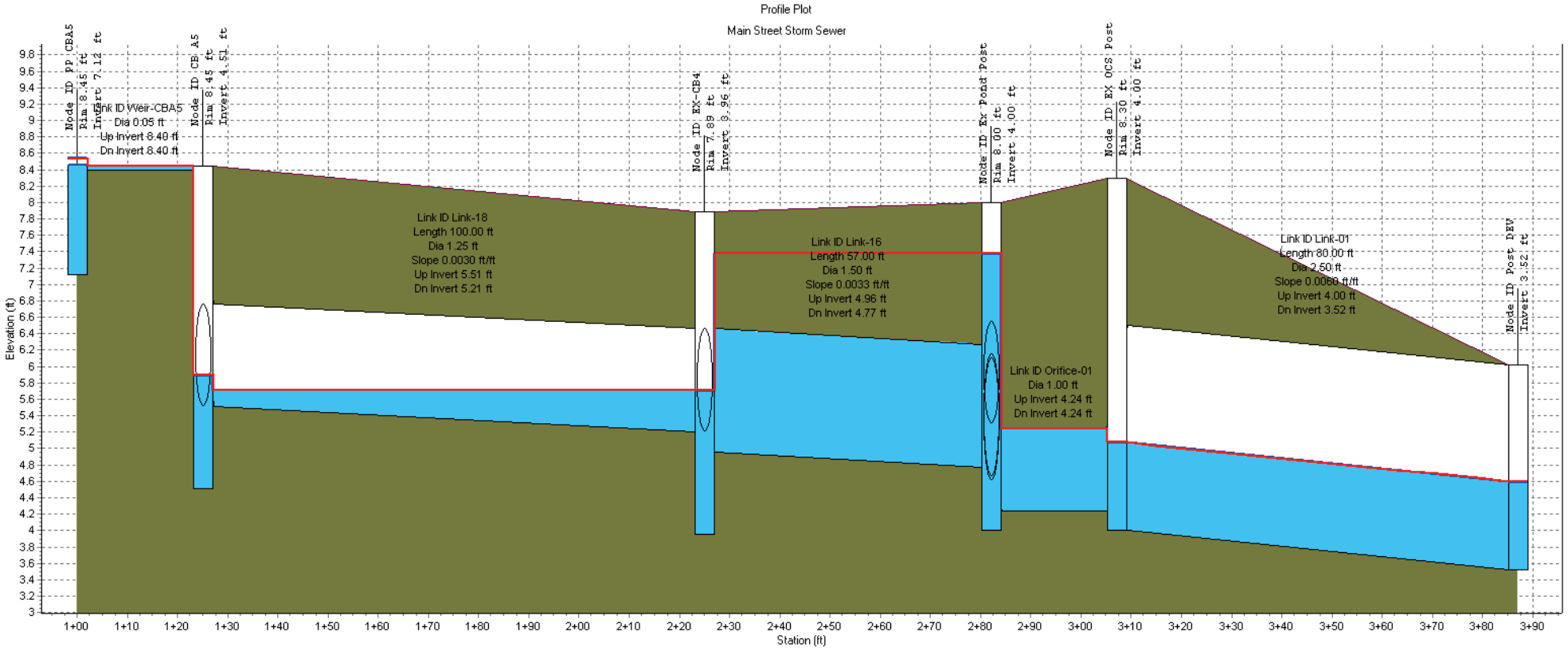
Autodesk Storm and Sanitary Analysis

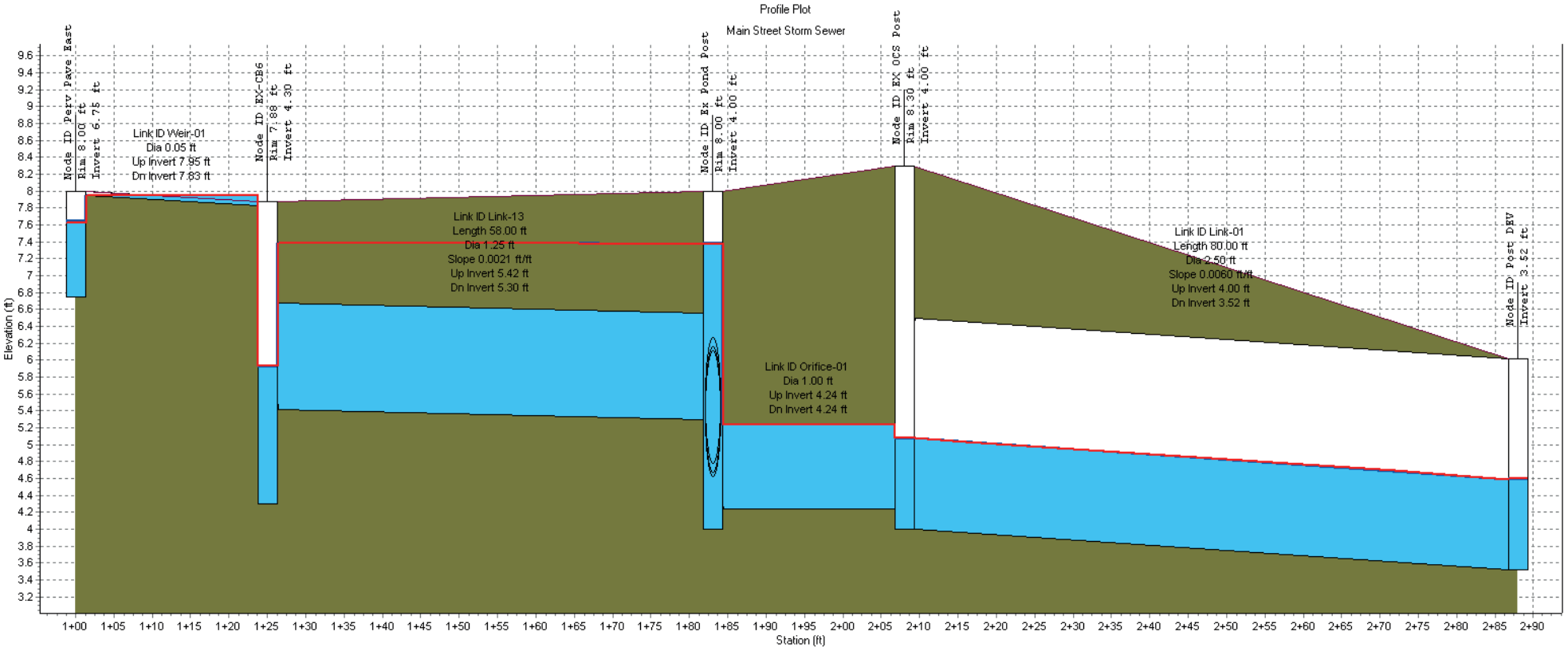


Autodesk Storm and Sanitary Analysis



Autodesk Storm and Sanitary Analysis


Profile Plot
Main Street Storm Sewer
Node ID PP CBA5
Rim 8.45 ft
Invert 7.12 ft
Link ID Weir-CBA5
Dia 0.05 ft
Up Invert 8.40 ft
Dn Invert 8.40 ft
Node ID CB A5
Rim 8.45 ft
Invert 4.51 ft
Link ID Link-18
Length 100.00 ft
Dia 1.25 ft
Slope 0.0030 ft/ft
Up Invert 5.51 ft
Dn Invert 5.21 ft
Node ID EX-CB4
Rim 7.89 ft
Invert 3.96 ft
Link ID Link-16
Length 57.00 ft
Dia 1.50 ft
Slope 0.0033 ft/ft
Up Invert 4.96 ft
Dn Invert 4.77 ft
Node ID Ex Pond Post
Rim 8.00 ft
Invert 4.00 ft
Link ID Orifice-01
Dia 1.00 ft
Up Invert 4.24 ft
Dn Invert 4.24 ft
Node ID EX OCS Post
Rim 8.30 ft
Invert 4.00 ft
Link ID Link-01
Length 80.00 ft
Dia 2.50 ft
Slope 0.0069 ft/ft
Up Invert 4.00 ft
Dn Invert 3.52 ft
Node ID Post DEV
Invert 3.52 ft
Elevation (ft)
Station (ft)


Profile Plot
Main Street Storm Sewer
Node ID Perv Pave East
Rim 8.00 ft
Invert 6.75 ft
Link ID Weir-01
Dia 0.05 ft
Up Invert 7.95 ft
Dn Invert 7.83 ft
Node ID EX-CB6
Rim 7.86 ft
Invert 4.30 ft
Link ID Link-13
Length 58.00 ft
Dia 1.25 ft
Slope 0.0021 ft/ft
Up Invert 5.42 ft
Dn Invert 5.30 ft
Node ID Ex Pond Post
Rim 8.00 ft
Invert 4.00 ft
Link ID Orifice-01
Dia 1.00 ft
Up Invert 4.24 ft
Dn Invert 4.24 ft
Node ID EX OCS Post
Rim 8.30 ft
Invert 4.00 ft
Link ID Link-01
Length 80.00 ft
Dia 2.50 ft
Slope 0.0060 ft/ft
Up Invert 4.00 ft
Dn Invert 3.52 ft
Node ID Post DEV
Invert 3.52 ft
Elevation (ft)
Station (ft)

APPENDIX E
SCDHEC-OCRM CHECKLIST

S.C. Department of Health and Environmental Control

Stormwater Management and Sediment and Erosion Control Plan Review Checklist For Design Professionals

This Plan Review Checklist for Design Professionals has been developed to aid those who prepare Stormwater Pollution Prevention Plans (SWPPPs). Adjacent to the heading for most sections are references from the corresponding portion of the NPDES General Permit for Stormwater Discharges from Construction Activities (SCR100000), which was issued on October 15, 2012. SWPPP Preparers should not utilize this checklist as a substitute for the language in the permit and should review the permit itself for more information on each specific requirement. The permit may be found at:

http://www.scdhec.gov/Environment/docs/CGP-permit.pdf

In the space provided please indicate the location and page number(s) where each item below can be found in your SWPPP or supporting calculations. If an item is not applicable, put N/A. The Department reserves the right to modify this checklist at any time. The Coastal Zone consists of the following counties: Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry, and Jasper.

Project Information:
Project Name: Daufuskie Ferry at Cross Island County: Beaufort

Checklist Completed by:
Printed name: Chris Bates Signature: Chris Bates Date: 10/16/2023

PLANS AND MAPS

1. CURRENT COMPLETED APPLICATION FORM/NOTICE OF INTENT
   - Original Signature of individual with signatory authority for the applicant according to requirements set forth in R.61-9.122.22 (see Appendix C)
   - All items completed and answered
   - Fee Schedule

2. COPIES OF PLANS AND CALCULATIONS
   - Plans stapled together!
   - ONE set of plans and supporting documentation (report, calculations, maps, etc.)
   - Supporting documentation tabbed (e.g., Maps, Pre-Development calculations) and pages numbered [no loose pages]

3. LOCATION MAP (3.2.7.A.IV) Location in C-SWPPP: Plans-Cover/Calcs-Appendix A
   - North arrow and scale
   - Outlined project location
   - Labeled road names

4. PROJECT NARRATIVE (3.2.1) Location in C-SWPPP: Calculations
   - Scope of project outlined, including a brief description of pre- and post-development conditions

4. PROJECT NARRATIVE (cont'd)
   - Summary table of pre- and post-development flows (at least 2- and 10-year, 24-hour storm events)
   - Existing flooding problems in the surrounding area described
   - Disturbed area calculations included for subdivision projects or LCP disturbing 1 or more acres
     - For subdivisions if the site is not to be mass-graded, the following formula should be used to determine the amount of disturbance:

       Amount of Disturbance = 2[Max Restricted Building Size][Number of Lots] + Right of Way (ROW) areas {ROW areas include clearing for roads, utilities, easements etc.}

     - If this equation is used, include a note on the plans stating: "The site is not to be mass-graded. Only 2 times the footprint is to be cleared as the lots are developed. The assumed disturbance on each lot is _____ sq. ft."

5. TOPOGRAPHIC MAP (3.2.7.A.I) Location in C-SWPPP: Calcs-App A
   - Project boundary outlined
   - Route of runoff from site to nearest waterbody shown
   - Road names adjacent to site labeled

6. SOILS INFORMATION (3.2.7.A.II) Location in C-SWPPP: Calcs-App A
   - Project boundary outlined
   - Predominate soil types found at the site identified on the plans or on a separate map
   - *Note: Soils information is available from the Natural Resource Conservation Service through their website:* http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm

7. FLOODWAY/ FLOODPLAINS(3.2.7.A.III) Location in C-SWPPP: Calcs-App A
   - Project boundary outlined, if in close proximity to floodplain/ floodway
   - *Note: The Department does not regulate the placement of fill in floodplains. Please see your local city or county official.*

8. SITE PLANS CHECKLIST:
   - Location map with site outlined on first plan sheet (map should have enough detail to identify Surface Waters of the State within 1 mile of the site)
   - North arrow and scale
   - Property lines and adjacent landowners' names
   - Legend
   - Registered engineer's signed and dated seal
   - Engineering Firm's Certificate of Authorization seal
   - If the SWPPP has been developed by a Registered Professional Engineer, Registered Landscape Architect or Tier B Land Surveyor, the following statement must be included on the site plans:

     "I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."

   - Existing and proposed contours for entire disturbed area
   - Limits of disturbed area
   - Locations of off-site material, waste, borrow, or construction equipment storage areas, excluding roll-off containers (Note: Some off-site disturbed areas may require a separate application for NPDES coverage)
   - Location and identification of any stormwater discharges associated with industrial activity (not construction)
   - Location of Concrete Washout and other Pollution Prevention Measures
   - Easements
   - Road profiles with existing and proposed ground elevations (if no contours are shown on the plans)
   - Grassing and stabilization specifications (temporary and permanent)

8. SITE PLANS CHECKLIST: (cont'd)
   - Standard notes
   - Temporary and permanent control measures (provide details of all sediment and erosion control measures used; make sure the label or legend on the plans matches the name on the detail)
     Note: Maintenance requirements for each BMP should be listed on the detail.
     Note: If details from the BMP Handbook are used, then the inspection frequency must be changed to be in accordance with the new CGP (see Standard note 3).

9. WATERS OF THE STATE, INCLUDING WETLANDS (3.2.4.C) Location in C-SWPPP: N/A
   - Delineation of all waters of the State (WoS), including wetlands, shown and labeled on plans (delineation not required if a 100-ft undisturbed buffer can be maintained between the WoS and all land-disturbing activities)
   - Additional, separate plan sheet that shows all WoS on the site and the impacted areas with a description of the activity(s), whether it is permanent or temporary, and any other relevant information.
   - If impacts to WoS, outlined areas of impacts and labeled that no work can begin in this area until all necessary USACOE permits, SCDHEC 401 Certifications, and Critical Area Permits (Coastal Zone only) have been obtained and are effective.
   - *Note: If there are proposed impacts to WoS, then it is advised that you contact USACOE (866-329-8187) and/ or S.C. DHEC Water Quality Certification, Standards & Wetlands Programs Section (803-898-4300) to determine additional requirements before submitting the Notice of Intent (NOI).*
   - *Note: If WoS are to be impacted, work cannot be performed in these designated areas until all necessary permits have been acquired*
   - *Note: If a USACOE permit is required for construction of or access to a temporary or permanent stormwater management structure, NPDES permit coverage cannot be granted until the USACOE permits and S.C. DHEC 401 Section certifications are obtained.*
   - *Note: Coastal Counties Only - If there are proposed wetland impacts and your project is located within one of the eight coastal counties, then it is advised you contact S.C. DHEC Office of Ocean and Coastal Resource Management (843-953-0200) to determine additional requirements before submitting the Notice of Intent (NOI).*

10. NAVIGABLE WATERS (3.2.4) Location in C-SWPPP: N/A
    - Extra plan sheet showing impacts to navigable water and description of activity included if S.C. Navigable Waters (SCNW) crossing and separate SCNW permit has not been obtained for all activities
    - *Note: For NOIs initially submitted to MS4s /delegated entities, if project has SCNW crossing and if separate SCNW permit has not been obtained for this crossing, then this item will be reviewed by S.C. DHEC before NPDES coverage will be granted.*

11. TMDL/ 303d IMPAIRED WATERBODIES (3.2.12) Location in C-SWPPP: NOI
    - List the nearest S.C.DHEC Water Quality Monitoring Station (WQMS) that the site's stormwater discharges drain to and the waterbody on which it is located: 20-17B (Broad Creek), MD-174 (Broad Creek), 20-04A (Broad Creek)

      Coastal Zone Only: List the nearest upstream and downstream WQMS(s) and corresponding waterbody(ies) above. This requirement only applies when the receiving water body for your site is tidally influenced. Note, shellfish stations only monitor for Fecal coliform bacteria. Include both the nearest shellfish monitoring station(s) and full WQMS(s) for both upstream and downstream locations when shellfish monitoring stations are present. If a shellfish monitoring station is not present, then only list the full WQMS(s). When a shellfish monitoring station is present, everything but Fecal coliform bacteria needs to be assessed at the full WQMS(s). Shellfish monitoring stations begin with numbers and full WQMS(s) begin with letters
    - Link to Water Quality Information Tool and Instructions: http://gisweb01.dhec.sc.gov/water/Stormwater.html?mode=1/
    - Qualitative and quantitative assessment (described in Section 3.4C of SCR100000), if nearest WQMS listed on the current 303(d) List of Impaired Waters and if site's stormwater construction discharges contain the pollutant of impairment and if site disturbs 25 or more acres
    - Evaluation of selected BMPs if nearest WQMS listed on the current 303(d) List of Impaired Waters and if site's stormwater construction discharges contain the pollutant of impairment and if site disturbs less than 25 acres

11. TMDL/ 303d IMPAIRED WATERBODIES (con't)
- Pollutants of concern include TURBIDITY, BIO(Macroinvertebrate), TP(Total Phosphorus), TN(Total Nitrogen), and Chlorophyll-A. Coastal Counties Only: Fecal Coliform (FC) in shellfish harvesting waters
- If Approved TMDL developed for nearest WQMS and if site's stormwater construction discharges contain the pollutant of impairment, show that measures and controls on SWPPP meet assumptions and requirements of TMDL (may need to contact 303(d)/TMDL Program for assistance)
- For TURBIDITY, BIO(Macroinvertebrate) consider inclusion of BMPs to reduce sediment load such as: sediment traps and basin designed to meet 80% sediment removal efficiency (regardless of size), additional measures to stabilize site, limited clearing and grading
- For TP(Total Phosphorus), TN(Total Nitrogen), and Chlorophyll-A consider inclusion of BMPs to reduce nutrient load. This could include limited clearing and grading, soil samples for to determine nutrient requirements during grassing
- For Fecal Coliform (FC) in shellfish harvesting waters, this may include location of porta-johns and waste receptacles
- *Note: To ensure sufficient Water Quality Monitoring Stations are selected to assess all of the identified parameters for construction stormwater, include monitoring stations that contain assessments for the first twelve parameters. Some stations only assess one parameter and should not be relied upon for the entire 303(d)/TMDL assessment for construction stormwater discharges. In addition, fecal coliform (for Shellfish Harvesting waters) must be assessed within the coastal critical area and nutrients and/or chlorophyll must be assessed in lakes/reservoirs*

Construction

12. CONSTRUCTION SEQUENCE (3.2.3) Location in C-SWPPP: Plans
- Construction Sequence should accurately reflect the nature and timing of construction activities for the site
- Sequence should begin with the installation of perimeter controls and end with the removal of sediment and erosion control measures once the site has been finally stabilized
- Address conversion of any temporary sediment control structures to permanent measures (i.e., conversion of a sediment basin to a permanent detention basin)
- Sequence should reflect implementation and transition between each phased plan (see Item 13 below)

13. PHASED SEDIMENT & EROSION CONTROL PLANS (3.2.9) Location in C-SWPPP: N/A
- Phased Sediment and Erosion Control Plans are not required when land-disturbance is 5 acres or less
- For land-disturbance between 5 and 10 acres, a two-phased stormwater management and sediment and erosion control plan is required for all non-linear projects. Each phase must be shown on a separate plan sheet. Plans should address the transition between phases.
  - Phase 1 – Initial Land Disturbance – Must include perimeter sediment and erosion control BMPs required prior to initial/ mass clearing and other appropriate BMPs needed to maintain compliance with the permit. On some sites, this may include appropriate BMPs for demolition of existing structures
  - Phase 2 – Stabilization - Sediment and erosion control BMPs required during the remainder of grading and construction. Must also include appropriate BMPs for stabilization – grassing, inlet protection, etc.
- For land-disturbance greater than 10 acres, a three-phased stormwater management and sediment and erosion control plan is required for all non-linear projects. Each phase must be shown on a separate plan sheet. Plans should address the transition between phases.
  - Phase 1 – Initial Land Disturbance – Must include perimeter sediment and erosion control BMPs required prior to initial/ mass clearing and other appropriate BMPs needed to maintain compliance with the permit. On some sites, this may include appropriate BMPs for demolition of existing structures
  - Phase 2 – Construction - Sediment and erosion control BMPs required during the majority of grading and construction activities.
  - Phase 3 – Stabilization - Sediment and erosion control BMPs required near the completion of the construction project. Must also include appropriate BMPs for stabilization – grassing, inlet protection, etc

14. UTILITY LINES Location in C-SWPPP: Plans

- Limits of disturbance include areas necessary for installation of all utilities (cable, electrical, natural gas, water and sewer), as appropriate
- For instances where the location of cable, electric, and natural gas has not been determined at the time the SWPPP is developed, SWPPP preparer may include a note that the installation of these is to be within the permitted limits of disturbance and that installation outside of these areas will require a modification to the permit
- Inlet protection provided at all existing inlets that receive flows from the disturbed areas; also add this as a note on the plans
- For all utility lines crossing WoS, narrative and detail showing sediment and erosion control measures provided on plans
- Note for construction entrances to be provided at all locations where construction traffic accesses a paved roadway

15. BUFFERS – SEE GUIDANCE DOCUMENT (3.2.4.C) Location in C-SWPPP: N/A

- Select Compliance Option A, B, or C and provide appropriate documentation
  - Double row of silt fence provided in all areas where a 50' undisturbed buffer cannot be maintained between the disturbed area and the WoS
  - Minimum 10' maintenance buffer provided between last row of silt fence and WoS; or, if buffer not provided, then statement from P.E. on plans indicating how silt fence will be installed and maintained without impacts to WoS
- Ensure discharges into a buffer zone are non-channelized and non-concentrated to prevent erosion, and first treated by the construction site's sediment and erosion controls
- Ensure any velocity dissipation measures implemented within a buffer zone comply with 3.2.4.C.III. (d)
- Additional Local Requirements may apply

16. FLOW CONTROL (3.2.10) Location in C-SWPPP: Plans & Calcs

- Control stormwater volume and velocity within the site during construction to minimize erosion within the site
- Control stormwater rates and volume at outlets during construction to minimize erosion to downstream channels and streambanks

17. CONSTRUCTION SITE HYDROLOGY (3.2.8.V AND 3.2.6.A.II) Location in C-SWPPP: Calcs

- *Note: MS4s may have additional requirements for the management of stormwater, sediment, and/or erosion.*
- Pre-development drainage area map and during construction drainage area map outlining the area contributing to sediment basins, traps, and rock sediment dikes. Include all site drainage outlet points on each drainage area map.
- During construction hydrologic analysis calculations for the 10-year, 24-hour storm event at each outfall point for sediment trapping efficiency calculations and/or skimmer sizing
- Analysis performed using SCS 24-hour storm for routed structures (Rational method is not acceptable)
- Rainfall data from South Carolina DHEC Storm Water Management BMP Handbook (BMP Handbook) or other appropriate source used in all calculations
- Additional construction site hydrology information and hydrologic analysis calculations may be provided as a means of addressing non-numeric effluent limits during construction
- Curve Number for construction hydrologic analysis needs to reflect construction/ disturbed conditions. Curve Numbers for newly-graded areas are:
  - Hydrologic Soil Group "A": 77
  - Hydrologic Soil Group "B": 86
  - Hydrologic Soil Group "C": 91
  - Hydrologic Soil Group "D": 94

18. SEDIMENTOLOGY & SEDIMENT BASIN/TRAP DESIGN (3.2.8.V AND 3.2.6.A.II)
Location in C-SWPPP: Plans & Calcs

- Trapping efficiency calculations showing that all sediment basins/ traps are capable of achieving a sediment trapping efficiency of at least 80% for the 10-year, 24-hour storm event, if 10 or more disturbed acres drain to a common point (stream, lake, etc.)
- Additional trapping efficiency calculations may be necessary to satisfy construction buffer requirements or may be provided as a means of addressing non-numeric effluent limits
- Sediment basins provide storage for the 10-year, 24-hour storm event for disturbed conditions or 3600 ft^3/ acre draining to the basin, if 10 or more disturbed acres drain to a common point (stream, lake, property line, etc.)
- Sediment basins and traps designed for total area draining to them. Sediment traps only used for drainage areas of less than 5 acres
- Sediment trap storage calculations, showing that 1800 ft^3/ total acre draining to each trap is provided below the spillway
- If trapping efficiency calculations are required for sediment traps, then provide peak outflow, q_{po}, calculations; the 10-year, 24-hour storm event for construction conditions cannot overtop the trap's spillway
- Drainage area map outlining the area draining to each basin/trap. Copies of figures used to determine V_{15} (SV-1) and trapping efficiency (ST-1, SB-1, SB-2), if Design Aids from BMP manual are used to determine trapping efficiencies. When the soil type is A/D, B/D or C/D, the chart for high water tables must be used to calculate sediment trapping efficiency for sediment ponds in the Coastal Zone.
- When multiple soil types exist within a drainage area, use the soil type with the smallest D15 or particle size for the appropriate depth to determine the settling velocity, V15. Do not use an average D15.
- Sediment basins must dewater via an outlet structure that pulls water from the surface, unless infeasible. Options for this include skimmers and flashboard risers. Surface dewatering is not required for traps.
- Porous baffles must be provided in sediment basins, unless infeasible
- Forebays must be installed, unless infeasible
- Public Safety should be taken into consideration as a factor in design of sediment basins. Alternative BMPs must be utilized where a construction site limitations would preclude a safe design
- Silt fence only used in areas with drainage areas of less than ¼ acre per 100 LF of fence and not used in areas with concentrated flows
- Clean-out stake, marked at ½ the designed sediment storage depth, provided in all sediment basins/ sediment traps
- *Note: Consult the BMP Handbook for information on the design of these and other devices.*
- *Note: The Design Aids in the BMP Handbook cannot be used to determine trapping efficiencies for structures in series. Modeling is required in those instances. If the flow for the10-year, 24-hour storm for construction conditions overtops the structure or the structure's spillway, then the Design Aids cannot be used.*

19. CONVEYANCE MEASURES AND STABLE CHANNELS (3.2.6.A.III) Location in C-SWPPP: Plans

- All channels and diversion ditches able to handle the 10-year storm event with non-erosive velocities of less than 5 feet per second during construction (use appropriate CN for disturbed areas) and post-construction (if velocity exceeds 5 ft/s, then permanent measures to reduce the velocity to a non-erosive rate must be provided)
- Stabilization of conveyance channels is to be completed within 7 days of channel construction
- Rock check dams provided in temporary diversions
- Installation detail for erosion control blanket (ECB) or turf reinforcement matting (TRM) if ECBs or TRMs to be used
- Stabilized temporary conveyance channels should be utilized to divert concentrated stormwater flows from running onto and within the disturbed area

20. INLET PROTECTION (3.2.6.A.II(a) and (b)) Location in C-SWPPP: Plans

- Provided at all inlets (existing and proposed)
- Inlet protection details provided for pre-paving and after roadways have been paved
- Hay bales are not acceptable
- Steel posts and buried fabric shown for filter fabric inlet protection

20. INLET PROTECTION (cont'd)
- Filter fabric under the grate is not acceptable unless it is part of a manfactured best management practice made for inlet protection that is specifically designed to hang underneath the grate
- *Note: The Department recommends that an inlet not have more than one (1) acre draining to it.*

21. ENERGY DISSIPATORS/ OUTLET PROTECTION (3.2.10)
- All outlets stabilized with appropriately sized riprap apron or other structure
- Riprap detail shows apron dimensions and stone sizes for each pad or each pipe diameter
- Filter fabric installed beneath all riprap
- Note that appropriate outlet protection and energy dissipation is also required for post-construction

22. SLOPES AND/ OR EMBANKMENTS (3.2.6.A.III(e) and 3.2.10) Location in C-SWPPP: Plans
- All slopes stabilized
- Minimize Disturbance to Steep Slopes (3H:1V) or greater
- Divert concentrated flows around steep slopes using slope drains or temporary diversions
- Utilize appropriate measures to prevent erosion (erosion control blankets, surface roughening, terracing, etc.)
- Slope drains designed in accordance with the BMP Handbook
- Slope drains provided where concentrated flows discharge onto a fill slope
- *Note: Measures, in addition to grassing or hydroseeding, include synthetic or vegetative matting, diversion berms, temporary slope drains, etc.*
- *Note: If retaining walls or fill slopes are to be constructed at the downstream property line, the Department recommends a 10' buffer to allow for construction and maintenance. If a 10' buffer is not provided, then provide permission from the adjacent property owner for possible land-disturbing activities on his property.*

Post-Construction

23. POST CONSTRUCTION HYDROLOGIC ANALYIS (3.2.8.A.II) Location in C-SWPPP: Calcs
- *Note: MS4s may have additional requirements for post construction hydrologic analysis.*
- Pre- and post-developed hydrologic analysis calculations for the 2- and 10-year, 24-hour storm events at each outfall point
- Drainage area maps that clearly correspond to the calculations (pre- and post-development)
- Analysis points for comparing runoff rates and the total drainage area analyzed do not change from pre- to post-development, although the immediate drainage areas contributing to each analysis point might shift.
- Post-development discharges less than or equal to pre-development discharges for each outfall point (if not, then see "Detention Waiver" section below)
- Analysis performed using SCS 24-hour storm (Rational method is not acceptable)
- Rainfall data from South Carolina DHEC Storm Water Management BMP Handbook (BMP Handbook) or other appropriate source used in all calculations
- *Note: The curve number for open water, marshes, etc. should be 98.*

24. DISCHARGE POINTS (3.2.6.A.III) Location in C-SWPPP: Plans & Calcs
- Storm drainage or pond outfalls carried to an existing drainage outfall such as a pipe, ditch, etc.
- No new point discharges onto adjacent property where there was not a point discharge previously, unless written permission from the adjacent property owner is provided
- Level spreaders, plunge pools, etc. provided when the proposed outlet is near the property line and not directed to an existing outfall, such as a creek or ditch
- Twenty (20)-foot minimum buffer is provided between the property line and the discharge point
- Outlets shall not discharge on fill slopes
- *Note: This requirement also applies during construction.*

25. DETENTION ANALYSIS AND BASIN DESIGN (3.2.8.A.III) Location in C-SWPPP: Calcs

- Analysis
  - *Note: MS4s may have additional requirements for detention analysis and basin design.*
  - Pond routing using a volume-based hydrograph for the 2- and 10-year, SCS 24-hour storm event (Drain:Edge, ICPR, HEC-1, SedCAD, HYDRAFLOW, etc. perform full pond routings; TR55 does not perform a full pond routing; rational method cannot be used)
  - Hydrologic and hydraulic calculations necessary to determine the impact of hydrograph timing modifications of the proposed land-disturbing activity, with and without the detention structure (results of analysis will determine the need to modify the detention design or eliminate the detention requirement—see note 2 below)
  - Inputs and outputs from analysis program
  - Summary table of the peak inflows, peak outflows, discharge velocities, and maximum water surface elevations (WSE) for the 2- and 10-year, 24-hour storm events for each detention structure
  - Stage-storage-discharge relationship for the outlet structure of each detention structure
  - If a rating curve for the outlet structure must be generated externally from the analysis program (Drain:Edge, HEC-1, etc.), data and equations used to rate the outlet structure
  - As-built of existing detention pond if the site drains to an existing detention pond (see below)
  - *Note: The Department recommends using the 10% rule in performing analysis. The hydrologic analysis should be conducted for the larger drainage area, where the site in question encompasses 10% of the total drainage area. For example, if your site is 10 acres, then the hydrologic analysis should be performed at the point downstream where the contributing drainage area, including your 10-acre site, is approximately 100 acres.*

- Design
  - Detail of outlet structure and cross-section of the dam/ berm or pond bank, including elevations and dimensions that correspond to the calculations
  - Orifice constructability should be considered (do not specify orifice diameters with increments of less than ¼")
  - Small orifices (those less than 3") are prone to clogging
  - Maximum WSE for the 10-year storm event below the emergency spillway with 0.5-ft of freeboard between maximum WSE for the 10-year storm and the emergency spillway
  - Maximum WSE for the 100-year storm event below the embankment with 0.5-ft of freeboard between maximum WSE for the 100-year storm and the embankment
  - Dewatering time calculations for the 10-year storm event (dry ponds must drain completely within 72 hours)
  - Bottom of all detention and retention ponds graded to have a slope of not less than 0.5%
  - If the pond is to be used for sediment control during construction, temporary horseshoe-shaped riprap berm in front of any low level outlets provided during construction and shown on the pond detail for dry ponds
  - Permanent maintenance access to all permanent detention structures (easements may be needed for structures surrounded by lots)
  - Infiltration systems designed in accordance with S.C. Reg. 72-307.C(11) [specify how items a-j have been addressed]
  - Low Impact Development measure, bioretention cells, infiltration, and other post-construction practices should be installed only <u>after</u> the drainage area to these practices has been stabilized
  - *Note: Emergency spillways should not be built on fill slopes.*
  - *Note: The Department recommends installation of a trash rack or other debris-screening device on all pond risers.*
  - *Note: The Department recommends a maximum slope of 3:1 on pond embankments to allow for ease of maintenance.*
  - *Note: The Department recommends installation of sediment forebay at each outfall into the detention/ sediment basin. This is a requirement during construction.*

26. DETENTION WAIVER Location in C-SWPPP: N/A

- *Note: If the 2- and 10-year, 24-hour post-developed flow rates exceed the pre-developed rates,* waivers *from detention may be granted in accordance with regulation 72-302(B) on a case-by-case basis*
- Justification and a written request, including the following statement: *"the increased flows will not have a significant <u>adverse impact</u> on the downstream/adjacent properties"*

26. DETENTION WAIVER (cont'd)
- A project may be eligible for a waiver or variance of stormwater management for water quantity control if the applicant can demonstrate that:
  - The proposed project will have no significant adverse impact on the receiving natural waterway or downstream properties; or
  - The imposition of peak control requirements for rates of stormwater runoff would aggravate downstream flooding
- Waiver signed by the project's Professional Engineer
- *Note: See note in checklist item 25 regarding the 10% rule.*

27. USE OF EXISTING STORMWATER MANAGEMENT STRUCTURES (3.2.8.A.VI) Location in C-SWPPP: Plans
- An as-built survey must be provided for all previously approved detention ponds that will receive flows from new construction
- Prepared by a South Carolina Licensed Land Surveyor
- Grades/ contours/ depths for pond
- Elevations and dimensions of all outlet structures, including:
  - Pipe and orifice inverts and diameters
  - Weir elevations and dimensions
  - Riser dimensions and elevations
  - Emergency spillway dimensions and elevations
  - Locations and inverts for all pipes discharging into the pond

28. PERMANENT WATER QUALITY REQUIREMENTS (3.2.8.A.IV) Location in C-SWPPP: Calcs
- Permanent water quality addressed (all projects or LCP that disturb 5 or more acres)
  - Wet ponds designed to catch the first ½" of runoff from the entire area draining to the pond and release it over at least a 24-hour period
  - Dry ponds designed to catch the first 1" of runoff from the entire area draining to the pond and release it over at least a 24-hour period
  - Infiltration Practices designed to accept, at a minimum, the first 1" of runoff from all impervious areas and designed in accordance with S.C. Reg. 72-307.C(11) [specify how items a-j have been addressed]
  - For areas not draining to a pond or infiltration practice, show how permanent water quality requirements were addressed
- Water quality orifices should be a size that is conducive to proper operation and maintenance. Orifices less than 3" in diameter are prone to clogging
- Projects located within one-half (1/2) mile of a receiving water body in the Coastal Zone must meet Section III.C.3.XIII.A of the Coastal Zone Management Program Refinements (CZMP). Designs must show that the first ½ inch of runoff from the entire site or the first one (1) inch of runoff from the built upon area, whichever is greater, can be stored onsite when permanent water quality ponds having a permanent pool are proposed for the project. Projects with stormwater outlets draining within 1000 feet of shellfish beds need to retain the first 1.5 inches of runoff on site.
  - *"Receiving Water Body" as it relates to additional Coastal Zone stormwater management requirements is also known as a "Coastal Receiving Water" and means all regularly tidally influenced salt and fresh water marsh areas, all lakes or ponds which are used primarily for public recreation or a public drinking water supply, and other water bodies within the coastal zone, excluding wetlands, swamps, ditches and stormwater management ponds which are not contiguous via an outfall or similar structure with a tidal water body.*
- Bridges and golf courses proposed in the Coastal Zone are subject to the additional water quality requirements contained in section III.C.3.XIII.C and D of the CZMP.
- Waters of the U.S./State are not used for permanent water quality control (alternative means of treatment must be used if an existing pond is to be used for water quantity control).
- *Note: Other non-traditional stormwater controls such as Bioretention areas, constructed wetlands, etc. may be used. Consult the BMP Handbook for information on the design of these devices.*
- *Note: Pre-fabricated or proprietary treatment devices are approved on a case-by-case basis if adequate removal efficiency can be demonstrated. Provide pollutant removal efficiency data, preferably from a third-party testing company. Type of system selected should be based on the ability to remove the pollutants of concern in that area/situation (bacteria, hydrocarbons, etc.).*

29. PERMANENT STORMWATER MANAGEMENT STRUCTURE MAINTENANCE (4.3.B)
Location in C-SWPPP: Attached

- Signed agreement from the responsible party accepting ownership and maintenance of the structure
- If maintenance responsibility is transferred after NPDES coverage is granted, an updated agreement should be submitted with the Notice of Termination
- Description of maintenance plan to be used
- Schedule of maintenance procedures (e.g., every 6 months)
- Detailed or manufacturer-specific maintenance items for proprietary control devices (oil-water separators, etc.), underground detention structures, exfiltration systems and non-traditional stormwater controls (constructed wetlands, bioretention, etc.)
- Typical maintenance items to be addressed
  - Grass to be mowed
  - Trees to be removed from within the pond and on the embankment
  - Trash and sediment to be removed from inside of and around the pond outlet structure
  - Orifices to be cleaned and unclogged
  - Outlet pipe to be cleaned, inspected, and repaired
  - Sediment accumulation to be removed from pond
  - Pond bottom to be regraded to provide proper drainage towards the outlet discharge point
  - Energy dissipator to be cleaned and repaired
  - Emergency spillway, if applicable, to be inspected and repaired
  - Erosion on side slopes, if present, to be addressed
  - The Department must be notified in writing of any changes in maintenance responsibility for the stormwater devices at the site (include this statement in agreement).
- *Note: The Department recommends that the county, city, or other governing utility, which has the authority to accept the ownership and maintenance of a storm drainage system also accept the permanent stormwater management structure.*
- *Note: If the entity or person with maintenance responsibility changes, then a new maintenance agreement, signed by the new person responsible for maintenance, must be provided to the Department. If a new, signed maintenance agreement is not provided to the Department, then the entity/ person who signed the most recent maintenance agreement on file with the Department will be considered the responsible entity.*

Standard Notes

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.

2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
   - Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
   - Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.

3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.

4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.

5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.

6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.

7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.

8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.

9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.

10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.

11. A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.

12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.

13. Minimize soil compaction and, unless infeasible, preserve topsoil.

14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;

15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).

16. The following discharges from sites are prohibited:

    - Wastewater from washout of concrete, unless managed by an appropriate control;
    - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
    - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
    - Soaps or solvents used in vehicle and equipment washing.

17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.

18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.

19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

NOTICE OF INTENT (NOI)
For Coverage(s) of Primary Permittees Under South Carolina NPDES General Permit For Stormwater Discharges From Construction Activities SCR100000
(Maintain As Part of On-Site SWPPP)

For Official Use Only
File Number: _____
Permit Number: SCR10_____
Submittal Package Complete: _____

Submission of this Notice of Intent constitutes notice that the Applicant identified in Section II intends to be authorized as a Primary Permittee in the state of South Carolina under NPDES General Permit SCR1000000. ***Fees required for review and NPDES coverage of each application type are as listed on page 2 of the Instructions.***

Date: 10/09/2023 **Check if project is receiving SCIIP Funding** ☐ **Grant #:**
Project/Site Name: Daufuskie Ferry at Cross Island **County:** Beaufort
(Modification or Change of Information Only) **Prior Approved NPDES Permit or File Number:** _____

Do you want this project to be considered for the Expedited Review Program (ERP)? ☐ **Yes or** ☒ **No (See instructions)**

I. Notice of Intent (NOI) Application Type(s)

A. **Project (Application/Review) Type(s)** (Select **ALL** that apply):
- ☒ New Project (Initial Notification) Ongoing Project: ☐ Permitted or ☐ Un-Permitted
- ☐ Late Notification ☐ Low Impact Development (LID) or Project Design Above Regulatory Requirements
- ☐ New Owner/Operator or Company Name Change **(see instructions, attach Form A (Transfer of Ownership))**
- ☐ Major Modification: **(see instructions, attach Form B (Major Modifications))**
- ☒ MS4 Project Review
- ☒ Ocean and Coastal Resource Management (OCRM) Review
- ☐ Change of Information/Other (Specify): _____

B. If Applicable, identify the entity designated as **MS4 Reviewer and MS4 Operator** (i.e., Lexington County, City of Greer, etc.): **MS4 Reviewer** Town of Hilton Head **MS4 Operator** Town of Head

II. Primary Permittee Information ☐ Change of Information

☐ Person or ☒ Company | If a Company, are you a ☐ Lending Institution or ☒ Government Entity? Company EIN **(If applicable):** EIN: 57-6000311

A. **Primary Permittee Name:** Beaufort County
Mailing Address: 100 Ribaut Road City: Beaufort State: SC Zip: 29902
Phone: 843-255-2700 Fax: _____ Email Address: jared.fralix@bcgov.net

B. **Contact /ODSA Name** (If different from above OR if owner is a company): Jared Fralix
Mailing Address: 100 Ribaut Road City: Beaufort State: SC Zip: 29902
Phone: 843-255-2700 Fax: _____ Email Address: jared.fralix@bcgov.net

C. **Property Owner Name** (If different from above): Town of Hilton Head
Mailing Address: 1Town Center Court City: Hilton Head State: SC Zip: 29928
Phone: _____ Fax: _____ Email Address: _____

III. Comprehensive Stormwater Pollution Prevention Plan (C-SWPPP) Preparer Information ☐ Change of Information

A, **C-SWPPP Preparer Name:** Chris Bates
B. **Registered Professional** ☒ Engineer ☐ Landscape Architect ☐ Tier B Land Surveyor **S. C. Registration #:** 28606
C. **Company/Firm Name:** Davis & Floyd **S. C. COA # :** C00538
Mailing Address: 2712 Bull Street, Suite A City: Beaufort State: SC Zip: 29902
Phone: 843-379-2222 Fax: 843-379-2223 Email Address: cbates@davisfloyd.com

IV. Project/Site Information ☐ Change of Information

A. **Type of Construction Activity(ies)** (Select **ALL** that apply):
- ☒ Commercial ☐ Industrial ☐ Institutional ☐ Mass Grading ☐ Linear ☐ Utility/Infrastructure
- ☐ Residential: Single-family ☐ Residential: Multi-family ☐ Multi-use (Commercial & Residential)
- ☐ Site Preparation (No New Impervious Area) ☐ Other (Specify) _____

B. **Site Address/Location** (street address, nearest intersection, etc.) 68 Helmsman Way
City/Town (If in limits): Hilton Head Zip Code: 29910
Latitude: 32 ° 10 ' 34 " N Longitude: - 80 ° 46 ' 15 " W (Source): ☐ GPS ☒ Web Site: Google Earth
Tax Map Number (s) (List all): R552 010 000 0650 0000

C. Is this site located on **Indian Land**? ☐ Yes ☒ No

D. **Proposed Start Date**: 11/01/2023 **Proposed Completion Date**: 12/31/2023

E. **Disturbed Area** (nearest tenth of an acre): 0.9 **Total Area** (acres): 3.9

F. **Modification Only:**(nearest tenth of an acre)**: Disturbed Area: Current (Approved) Area:** _____
Disturbed Area Change (Increase Only): _____ **Total Disturbed Area (After Change):** _____

G. Is this project part of a **Larger Common Plan for Development or Sale (LCP)**? ☐ Yes ☒ No
LCP/ Overall Development Name: _____ Check here if this is the **First Phase**. ☐

Previous State Permit/File Number: _____ **Previous NPDES Coverage Number**: SCR10 ?

H. Any **Flooding Problems** exist downstream of or adjacent to this site? ☐ Yes ☒ No (If yes, provide detailed description of flooding problems and applicable floodway/flood zone information in the C-SWPPP).

I. Active **S.C. DHEC Warning Notice**, **Notice to Comply or Notice of Violation** for this site or LCP? ☐ Yes ☒ No

J. List Relevant **State and Federal Environmental Permits or Approvals** applied for or obtained for this site (e.g., **RCRA, USACOE, Nationwide**, etc.). **If None, list None**.
See file HPW-RSY8-G4SA

K. **Any Waiver(s)/Variances/Exceptions Requested for this Project**? (If yes, identify below and include **Waiver Request and Justifications** in the C-SWPPP for each proposed request).

1. Small Construction Activity Waiver(s) From NPDES permitting **(Section 1.4 & Appendix B)**? ☐ Yes ☒ No
If yes, Identify requested waiver: ☐ Rainfall Erosivity Waiver ☐ TMDL Waiver ☐ Equivalent Analysis Waiver

2. Detention Waiver **(72-302(B)**? ☐ Yes ☒ No | 3. Other (Specify): _____

V. Waterbody Information (Attach additional sheet(s) as needed) ☐ Change of Information

A. **Receiving Waterbody(s) (RWB) Information** (List the nearest and next nearest receiving waterbodies to which the sites stormwater discharges will drain. If stormwater discharges drain to multiple waterbodies, list all such waterbodies).

1. Name of Receiving Waterbodies (RWB)	2. Distance to RWB (feet)	3. Classification of RWB
a. Nearest: Broad Creek	0	SFH
b. Next Nearest: Calibogue Sound	10,800	SFH
c. Coastal Zone ONLY: Coastal Receiving Water (CRW): Broad Creek	0	Not Applicable
d. Other Waterbodies: _____		

B. **Waters of the U.S. / State Information** (Attach additional sheet(s) as needed)

Waters of the U.S./ State	1. On the site?	2. Delineated/ Identified?	3. Impacts?	4. Amount of impacts
a. Jurisdictional wetlands	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	_____ Ac
b. Non-jurisdictional wetlands	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	_____ Ac
c. Other Water(s): _____	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	_____ Ac _____ Feet
d. Coastal Zone ONLY: Direct Critical Area	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☒ No	_____ Ac _____ Feet

5. If yes for impacts in B.3, describe each impact and activity, and list all permits (e.g., USACOE Nationwide Permit, DHEC General Permit) and certifications that have been applied for or obtained for each impact:
_____

C. **S.C. Navigable Waters (SCNW) Information (Section 2.6.5)** The Department will address any issues related to State Navigable Waters' Program under SC Regulation 19-450 during the review of the C-SWPPP for activities that will **NOT** require a 404 permit or a 401 certification. (Attach additional sheet(s) as needed).

1. Are S. C. Navigable Waters (SCNW) on the site: ☐ Yes ☒ No
a. If **no**, do not complete this question. Proceed to Section D (Impaired Waterbodies).
b. If **yes**, provide the name of S.C. Navigable Waters (SCNW) on the site: _____

2. If **yes for C.1**, will construction activities cross over or occur in, under, or thru the SCNW? ☐ Yes ☐ No
If yes, describe SCNW activities (e.g., road crossing, sub-aqueous utility line, temporary or permanent structures, etc.) and proceed to Section C.3: _____

3. Identify permits providing coverage of SCNW activities proposed for your site. If NONE, list none.

Permits/Certifications	Permit or Certification No.	Corresponding Covered SCNW Activity(ies)
a. DHEC General/ Other DHEC Permit		
b. USACOE **404 Permit or 401 Certification**		
c. SCNW Permit If applied for or issued, identify **Date applied for or issued:** _____		☐ **All Activities** or ☐ **Some Activities (Describe):**

d. If a SCNW Permit has NOT been applied for provide an additional plan sheet that shows plan and profile views (drawn to scale) of the SCNW and associated activities. Include a description of all proposed activities on this plan.

D. **Impaired Waterbodies Information** (Attach additional sheet(s) as needed)

1. 303(d) Listed Impaired Waterbodies

a. Name of **Nearest DHEC Water Quality Monitoring Stations (WQMS)(s)** that receives stormwater from your construction site and/or thru an MS4 and the **Name of the Corresponding Waterbody?**		b. **Is this WQMS(s) listed on the most current 303(d) List? If No, proceed to Section 2 of this table. If Yes, complete items c thru f.**	c. List the pollutant(s) identified as **"CAUSES"** of the impairment	d. Will any pollutants causing the impairment be present in your site's construction stormwater discharges?	e. If **yes for d**, list the **"USE SUPPORT"** impairment(s) affected by the pollutant(s) identified in c.
Nearest DHEC WQMS(s)	**Corresponding Waterbody**				
20-17B	Broad Creek	☐Yes ☒No		☐Yes ☐No	
MD-174	Broad Creek	☐Yes ☒No		☐Yes ☐No	
20-04A	Broad Creek	☐Yes ☒No		☐Yes ☐No	

f. If **yes for d** above, **will use of the BMPs proposed for your project ensure the site's discharges will NOT contribute to or cause further WQS violations for the impairment(s) listed in c?** ☒Yes ☐No
(NOTE: If no for f, this site is NOT eligible for coverage under the CGP). See Instructions.

2. TMDL Impaired Waterbodies

a. Name of **Nearest DHEC Water Quality Monitoring Stations (WQMS)(s)** that receives stormwater from your construction site and/or thru an MS4?	b. Has a TMDL(s) been developed for this WQMS(s)? **If No, identify as such below and proceed to Section VI. If Yes, complete items c thru f of this table.**	c. If **yes for b**, what pollutants are listed as "CAUSES" or causing the impairment?	d. If **yes for b**, has the standard been **"ATTAINED" or " Fully Supported"** for the impairment(s)?	e. If **no for d (Not Attained)**, will any pollutants causing the impairment be present in your site's construction stormwater discharges?
20-17B	☐Yes ☒No		☐Yes ☐No	☐Yes ☐No
MD-174	☐Yes ☒No		☐Yes ☐No	☐Yes ☐No
20-04A	☐Yes ☒No		☐Yes ☐No	☐Yes ☐No

f. If **yes for e** above, **are your discharges consistent with the assumptions and requirements of the TMDL(s)?** ☐Yes ☐No
(NOTE: If no for f, this site is NOT eligible for coverage under the CGP). See Instructions.

VI. **Signatures and Certifications** DO **NOT** SIGN IN BLACK INK! **Read the Certifications below (in entirety). Provide date, printed name, and signatures below.** If you are a **New Owner/Operator**, as Primary Permittee you must also sign and date the applicable Comprehensive SWPPP Acceptance & Compliance Agreement below.

C-SWPPP PREPARER: "One copy of the C-SWPPP, all specifications and supporting calculations, forms, and reports are herewith submitted and made a part of this application. I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000." **(This should be the person identified in Section III).**

Chris Bates — **Printed Name of C-SWPPP Preparer**
Chris Bates — **Signature of C-SWPPP Preparer**
28606 — **S. C. Registration #**

PRIMARY PERMITTEE: "I or I (on behalf of my company and its contractors and agents), as the case may be, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I understand that DHEC enforcement actions may be taken if the terms and conditions of the C-SWPPP are not met and I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
"I or I (on behalf of my company and its contractors and agents), as the case may be, also hereby certify that all land-disturbing construction and associated activity pertaining to this site shall be accomplished pursuant to and in keeping with the terms and conditions of the approved plans and SCR100000. I also certify that a responsible person will be assigned to the project for day-to-day control. I hereby grant authorization to the to S. C. Department of Health and Environmental Control (DHEC) and/or the local implementing agency the right of access to the site at all times for the purpose of on site inspections during the course of construction and to perform maintenance inspections following the completion of the land-disturbing activity." **(See Section 122.22 of S.C. Reg. 61-9 for signatory authority information.)** Having understood the above information, I am signing this certification as Primary Permittee to the aforementioned NPDES general permit."

Jared Fralix — **Printed Name of Primary Permittee**
Jared Fralix — **Signature of Primary Permittee**
Asst County Administrator - Infrastructure — **Title/Position**
10/9/23 — **Date Signed**

DHEC 2617 (05/2023)

NPDES CGP FEE SCHEDULE B

(ONLY for Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry, and Jasper Counties)
Submit payment for NPDES Coverage fees only to DHEC.

The schedule should be attached to DHEC Form 2617. Do not send payment in window envelope. **DO NOT MAIL CASH**. DHEC will notify the Project Owner/ Operator if the check or credit card payment cannot be processed. **The review clock will start when acceptable payment is received and after the project is deemed consistent with the S.C. Coastal Zone Management Plan.**

1. Identify (√) the Project/Review Types (NOTE: You may ONLY select Item 1.a OR 1.b BELOW). Enter NPDES coverage fee of $125 in the right-hand column if any of the following project/review types apply to this application. **Proceed to Item 2.**	**(√)**	**NPDES Coverage Fee(s)**
a. Project or LCP that is located within ½ mile of CRW (Item V.A) that will ultimately disturb more than 0.5 acres (if select a, do not select b)	☐	$ _____. 00
b. Project or LCP that is NOT located within ½ mile of CRW (Item V.A) that will ultimately disturb one (1) acre or more (if select b, do not select a)	☐	
c. New Owner/Operator (Transfer of Ownership)/Company Name Change ($125 NPDES Coverage fee is required by the Department for Transfers of Ownership and Company Name Changes)	☐	
d. Unpermitted Ongoing Project or Late Notification	☐	
e. MS4 Project Review (Item I.A and I.B)	☐	
f. Other (Specify): _____	☐	

MS4 REVIEW

2. Determine the Project Review Fees (Review fees cannot exceed $2000 for a project).
NOTE: COMPLETE ITEM 2.a BELOW. COMPLETE EITHER SECTION 3 OR SECTION 4. DO NOT COMPLETE BOTH SECTIONS.

a. Enter the disturbed area (Item IV.E) for this project. Proceed to Item 3 OR Item 4 _____ (nearest tenth of an acre)

3. PROJECT OR LCP LOCATED WITHIN ½ MILE OF A CRW (ITEM V.A)	**(√)**	**Review Fees**
a. Will this project or LCP (Item IV.G) ultimately disturb more than 0.5 acres?	☐Yes ☐No	
b. Is this project exempt from S. C. Reg. 72-300 et seq.?	☐Yes ☐No	

1. If this project will **NOT** ultimately disturb more than 0.5 acres and is not part of an LCP, **your project is automatically covered under this permit and the NPDES coverage fee and review fee are not required.** See section 1.3.1.B. See the **BOW-SPWS** for "Less Than 1-Acre of Land Disturbance - Coastal Counties".
2. If this project or LCP will ultimately disturb more than 0.5 acres, **proceed to Item 3.c.**

c. Enter the project review fees (based on $100/ disturbed acre) in the right-hand column. (Multiply the disturbed area (Item 2.a.) by $100/disturbed area). If the disturbed area for this project (Item 2.a.) totals 20.0 acres or more, enter $2000 in the right-hand column. Review fees cannot exceed $2000 for a project. **Proceed to item 3.d** — $ _____. 00

d. Total Required Fees (Coastal Project located WITHIN ½ mile of a CRW (Item V.A)
Add the values in the right-hand columns of Items 1 and 3.c. (The Department will not review this project until all required fees are received). **Proceed to Item 5.** — $ _____. 00

4. PROJECT OR LCP NOT LOCATED WITHIN ½ MILE OF A CRW (ITEM V.A)	**(√)**	**Review Fees**
a. Will this project or LCP (Item IV.G) ultimately disturb one (1) acre or more?	☐Yes ☐No	
b. Is this project exempt from S. C. Reg. 72-300 et seq.?	☐Yes ☐No	

1. If this project will **NOT** ultimately disturb one (1) acre or more, and is not part of an LCP, coverage under SCR100000 is NOT required; see the **BOW-SPWS** for "Less Than 1-Acre of Land Disturbance - Coastal Counties".
2. If this project or LCP will ultimately disturb one (1) acre or more, **proceed to Item 4.c.**

c. Enter the project review fees (based on $100/ disturbed acre) in the right-hand column. (Multiply the disturbed area (Item 2.a.) by $100/disturbed area). If the disturbed area for this project (Item 2.a.) totals 20.0 acres or more, enter $2000 in the right-hand column. Review fees cannot exceed $2000 for a project. **Proceed to item 4.d.** — $ _____. 00

d. Total Required Fees (Coastal Project NOT located WITHIN ½ mile of a CRW (Item V.A)
Add the values in the right-hand columns of Items 1 and 4.c. (The Department will not review this project until all required fees are received). **Proceed to Item 5.** — $ _____. 00

5. Identify the Method of Payment: ☐ **Payment by Check:** (Attach a signed and dated check payable to S.C. DHEC to the front of this fee schedule. All checks must be less than 30 days old and must be for the entire amount of required fees). ☐ **Payment by Credit Card:** (Check here if you wish to pay via credit card using the on-line payment system). The Department will contact you via e-mail to provide instructions and the invoice number necessary for online payment. **Please provide an e-mail address where the invoice number may be sent:**

_____

For official use only: Invoice Number _____

DAVIS & FLOYD

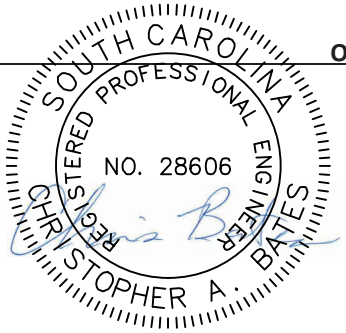
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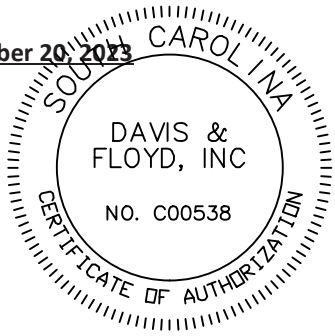
PROJECT NARRATIVE **October 20, 2023**

#J23707 Daufuskie at Cross Island

TMP: R552 010 000 0650 0000

Street Address: 68 Helmsman Way
Hilton Head, SC 29928
Zoning District: WMU – Water Oriented Mixed Use
Development Use: Ferry Embarkation





Developer:
Beaufort County
c/o Jared Fralix
100 Ribaut Road
Beaufort, SC 29902
843-255-2700
jared.fralix@bcgov.net

Civil Engineer:
Chris Bates
Davis & Floyd
2712 Bull Street, Suite A
Beaufort, SC 29902
843-379-2222
cbates@davisfloyd.com

Site Contractor:
TBD

Site Narrative / Parking Needs Analysis:

The proposed project consists of construction of a 1,800 sf ± pavilion that will house a restroom and ticket sales area for the Daufuskie Ferry. The site is currently used as a boat landing with 36 trailer spaces and 10 vehicle only spaces according to the construction plans. It is assumed that the boat landing is sufficiently parked. Additional parking is proposed to support the added use of the property as a ferry embarkation point and to not impact the existing spaces located onsite. A typical day for the parking needs of the Daufuskie Ferry is represented in the table below:

Daufuskie Ferry Embarkation Parking Needs Analysis			
	Passengers Arriving by Vehicle - Vehicle Parks	Passengers Arriving on Ferry - Vehicle Leaves	Total Parking Spaces Occupied (Includes Overlap of Passengers)
Open for Business	-	-	5 (Staff - See Below)
7:00 AM	40	-	45
10:00 AM	20	20	65
1:00 PM	20	20	65
4:00 PM	-	40	45
Close of Business	-		0

Staff	
Ferry Captain	1
Dock hand	1
Ticket Sales	1
Pavilion Loading Assistant	1
Facilities Maintenance	1
Total	5

At any one time, it is estimated that the maximum number of spaces used on a typical day would be 60 spaces for ferry passengers. This accounts for overlap in passengers who are waiting to depart. You can also see that it is estimated that 5 spaces will be necessary for staff to operate the ferry resulting in a need for approximately 65 spaces. A total of 68 new vehicle spaces are proposed.

October 5, 2023

Chris Bates
Andrews Engineering & Surveying
2712 Bull St
Beaufort, SC. 29902

Dear Mr. Bates:

SUBJ: Letter of Intent to Provide Service for: **Daufuskie Ferry at Cross Island**

Hargray Engineering Services has reviewed the master plan for the above referenced project. Hargray Communications Group, Inc. has the ability and intent to serve the above referenced project. Please forward to our office a digital copy of the plan that has been approved by the county/town for use with Microstation or AutoCAD. Our office will then include owner/developer conduit requirements on the approved plan and return to your office.

By accepting this letter of intent to serve, you also accept responsibility to forward the requirements and Project Application Form to the owner/developer. The Project Application Form identifies the minimum requirements to be met as follows:

- Commercial buildings – apartments – villas: Minimum 4-inch diameter conduit Schedule 40 (gray electrical) PVC with pull string buried at 24-to-30-inch depth, from the equipment room or power meter location to a point designated by Hargray at the road right-of-way or property line. **Conduits are required from each building site and multiple conduits may apply.**
- Commercial buildings with multiple "units" may require conduit(s) minimum ¾" from main equipment entry point to termination point inside unit. Plenum type ceilings require conduits or flame retardant Teflon wiring to comply with code.
- Hotel or large commercial project requirements would be two (2) 4-inch diameter Schedule 40 PVC underground conduits.
- Equipment rooms to have ¾ inch 4'x8' sheet of plywood mounted on wall to receive telephone equipment.
- A dedicated 110-volt, 20-amp circuit with a four-way outlet to power external equipment for the site. For Commercial Application.
- A power ground accessible at equipment room or an insulated #6 from the service panel or power MGN to the backboard.
- Residential wiring requires CAT5E wiring (4 or 6 Pair) twisted wire for Telephone and Data. Industry Standard.
- All interior wiring should be pulled to the area immediately adjacent to the plywood backboard or power meter location. A minimum of 5' of slack is required for terminations.
- CATV inside wiring will be RG6 foil wrapped 66% braid minimum, home run to each outlet.
- A 120 AC 15 A dedicated power outlet is to be located in the service yard to supply AC power to the ONU. Power to the ONU will be provided through a Pull-Out Disconnected Switch, manufactured by Square D Company, or equivalent. The Horsepower Rating for the disconnect switch is 240VAC max, 60A, not fusible.

CATV Requirements
Hargray CATV services requires you to install one 4" Schedule 40 (gray electrical) PVC pipe to a point designated to the road right of way or property line. The "service facilities" are required to be in separate pipes to ensure quality transmission and reception for both facilities.

Any Commercial or Subdivision areas installing pipe as required should extend the pipe 5' (feet) beyond any placed or planned curbed or sidewalk edge for facility access, away from the roadside.

Should there be any changes or additions to the original master plan, this letter will only cover the areas that are shown on the original master plan. All changes or additions would require another Letter of Intent to supply service. All costs incurred by the Telephone/CATV Company resulting from any requested change or failure to comply with minimum requirements shall be borne by the Developer. **Commercial projects require pre-construction meeting with Telco/CATV Company to review requirements.** I am available to discuss these requirements in more detail at your convenience.

Non-recurring charges to offset construction costs may apply to certain projects.

Easements are required prior to installing facilities to your site.

Sincerely,
Rodney Cannon
Rodney Cannon
Manager, Facilities Engineering
843-815-1697

Requirement for Letter of Intent to Provide Service

HARGRAY COMMUNICATION COMPANY, INC

Engineering Services Construction Application

CONTACT INFORMATION

Project Owner Name: Beaufort County c/o Jared Fralix	Phone No.: 843-255-200
Address: 100 Ribaut Road	City, State Zip: Beaufort, SC 29902
Developer Name: Same as above	Phone No.:
Address:	City, State Zip:
Project Manager Name: Chris Bates, PE/Davis & Floyd	Phone No.: (843) 379-2222 Ext 235
Address: 2712 Bull Street, Suite A	City, State Zip: Beaufort SC 29902

PROJECT INFORMATION

Project Name/Location: Daufuskie Ferry at Cross Island / 68 Helmsman Way		
Proposed Start and Finish Dates: 11/15/2023 – 01/15/2023		Lots: N/A
No. of Phases: 1	Units per Phase:	Condominium Units:
Comments:		Commercial Sq. Ft.: 1,800

REQUIREMENTS INFORMATION

APPLICATION REQUIREMENTS

****Engineering Note: Check boxes that apply to applicant.**

Hargray Communications Company, Inc. must have copies of the following items before we can furnish a "Letter of Intent" and schedule your project.

☒ One copy of development site plans indicating property and/or lot lines, proposed buildings, roads, parking, water, sewer and drainage layout.

☒ Digital copy of county/town approved plan.

PROJECT REQUIREMENTS

These must be in place before service can be provided.

☒ * Commercial Buildings-Apartments-Villas – Hotels: Minimum 4 inch diameter conduit Sch. 40 PVC with pull string buried at 24 to 30 inch depth, from the equipment room or power meter location to a point designated by Hargray at the road right-of- way or property line. Conduits are required from each building site & multiple conduits may apply.

☒ * Commercial buildings with multiple "units" may require conduit(s) minimum ¾" from main equipment entry point to termination point inside unit. Plenum type ceilings require conduits or flame retardant Teflon wiring to comply with code.

☒ A dedicated 110-volt, 20 amp circuit with a four way outlet to power external equipment for the site. For Commercial Application.

☒ **Equipment rooms to have ¾ inch 4'X8" sheet of plywood mounted on wall to receive telephone equipment.**

☒ **A power ground accessible at equipment room or an insulated #6 from the service point or power MGN to the backboard.**

☒ Residential wiring requires CAT5E wiring (4 or 6 Pair) twisted wire for Telephone and Data (industry standard).

☒ **CATV inside wiring will be RG6 foil wrapped 66% braid home run to each outlet.**

☒ All interior wiring should be pulled to the area immediately adjacent to the plywood backboard or power meter location. A minimum of 5' of slack is required for terminations.

☒ A 120 AC 15 A dedicated power outlet is to be located in the service yard to supply AC power to the ONU. Power to the ONU will be provided through a Pull Out Disconnected Switch, manufactured by Square D Company, or equivalent. The Horsepower Rating for the disconnect switch is 240VAC max, 60A, not fusible.

☒ Easements are required.

*** Commercial projects require pre-construction meeting with Telco/CATV Company to review requirements.**

I understand and agree to provide or meet the application and project requirements as stated above and to inform the contractor/builder of these requirements. I understand that if the project design changes or the proposed start date is delayed by nine (9) months or more, that I must submit a new application. All costs incurred by TELCO resulting from any requested change or failure to comply with minimum requirements, shall be borne by the Developer. **Aid in or Aid to Construction may apply to certain projects.**

Chris Bates	10/02/2023	Rodney Cannon	10/5/2023
Applicant/Representative	Date	Engineering Services Representative	Date

After recording return to:

Hargray Communication Group, Inc.
Attn: Legal Department
856 William Hilton Parkway, Bldg. C.
P.O. Box 5986
Hilton Head Island, SC 29938

STATE OF SOUTH CAROLINA)
)
COUNTY OF _____)

NON-EXCLUSIVE TELECOMMUNICATIONS AND VIDEO AND/OR BROADBAND FACILITIES EASEMENT AND INDEFEASIBLE RIGHT TO USE

THIS NON-EXCLUSIVE TELECOMMUNICATIONS AND VIDEO AND/OR BROADBAND FACILITIES EASEMENT AND INDEFEASIBLE RIGHT OF USE ("Easement") given this _____ day of _____, 2022, by _____("Grantor"), to Hargray Communications Group, Inc., a South Carolina Corporation (hereinafter referred to as "Grantee").

W I T N E S S E T H:

That in consideration of the sum of One Dollar ($1.00) received from Grantee, Grantor does hereby grant a Non-Exclusive Telecommunications and Video and/or Broadband Facilities Easement and Indefeasible Right of Use to Grantee in, across, through, under and over that certain real property (including the buildings and other structures thereon) ("Property") hereinafter more fully described on Exhibit "A" attached hereto, which easement shall include, without limitation, an indefeasible right to use any current or future conduit system owned, controlled or authorized by Grantor for purposes of serving the Property with communications or other utility services (the "Conduit System").

Grantor hereby grants and conveys to Grantee, its successors and assigns, the perpetual right, privilege and authority, from time to time, to enter upon, construct, extend, inspect, operate, replace, relocate, repair and perpetually maintain over, under and through the Property, including, but not limited to, over and under and through any and all streets, alleys, roads and/or other public ways or areas of the said Property now existing or hereafter laid out, telecommunications and cablevision systems ("Systems"), including cables, wires, poles, pedestals, and other usual fixtures and appurtenances as may from time to time be or become convenient or necessary for the provision of telecommunications and video and/or broadband services to the homes and other structures located within the Property, together with the indefeasible right to use the Conduit System, and right of ingress and egress, and access to and from such easement, across and upon the Property, as may be necessary or convenient for the purposes connected therewith. The easement herein granted is an easement in-gross in favor of Hargray Communications Group, Inc., its affiliates, successors and assigns.

Grantee agrees to maintain all Systems, including cables, wires, poles, pedestals and other usual fixtures and appurtenances in good condition, and Grantee shall repair and restore any damage to Grantor's real or personal property, restore all paving resulting from Grantee's construction, installation and/or maintenance of the Systems, or any use or presence surrounding the Property.

Grantor reserves the right to grant other easements or rights-of-ways upon, over across, through or under the easement property for utility, access or other purposes which do not unreasonably interfere with Grantee's easement hereunder. Grantor further reserves the right to construct any manner of things, including, but not limited to, roads, landscaping and signage or other items upon, over, across, through and under the Grantee's Systems, which do not unreasonably interfere with Grantee's easement hereunder.

Grantor further grants and conveys to Grantee the right, from time to time, to trim trees and underbrush that create obstructions to the non-exclusive utilization of the easement by Grantee; provided, however, any damage to the Property of Grantor caused by Grantee in maintaining or repairing said lines shall be borne by Grantee; provided, further, however, the Grantor shall have the right to request relocation of any underground facility from time to time at Grantor's expense; provided that such relocation continues to afford Grantee the use of Conduit System(s) on the Property.

It is specifically agreed that all Systems Facilities shall be located underground, with the exception of those pedestals and other fixtures that are necessary and are designed for above-ground location.

NOW THEREFORE, Grantor hereby warrants and represents that it is the fee simple owner of the Property and has the right and authority to make this Grant of easement. Grantor further covenants, that Hargray Communications Group, Inc., and its affiliates, success and assigns, subject to the terms and conditions of this instrument, shall peaceably and quietly enjoy the use of the easement herein granted in perpetuity without hindrance, objection or molestation.

The words "Grantor" and "Grantee" shall include their heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, Grantor has caused this Easement to be duly executed the day and year first above written.

WITNESSES: GRANTOR: _____

_____ _____

First Witness

By:_____

Its:_____

_____

Second Witness/Notary Public

STATE OF SOUTH CAROLINA)
)
COUNTY OF _____)

PROBATE

PERSONALLY appeared before me the undersigned witness, and made that s/he saw the within named _____, by _____, its _____, sign and seal and deliver the within written instrument, and that s/he with the other witness, whose signature appears above, witnessed the execution thereof.

_____
First Witness

SWORN TO before me this _____
day of _____, 20_____

_____
Notary Public for _____
My Commission Expires:_____

A:\easement form.wpd

EXHIBIT "A"

Easement and Access Area

All that certain piece, parcel, or tract of land containing (fill in legal)

This being the same property, or a portion thereof, as described by Deed (fill in derivation)

(Add Tax Map number)

PALMETTO
ELECTRIC COOPERATIVE INC.

1 Cooperative Way Hardeeville, SC 29927 843-208-5551

October 3, 2023

Chris Bates, PE
Davis & Floyd
cbates@davisfloyd.com
846-379-2222

Re: Daufuskie Ferry at Cross Island – 68 Helmsman Way

Dear Chris:

Palmetto Electric Cooperative, Inc. ("PECI") has ample power available to serve the above-referenced project. A redline drawing will be provided when the electrical load requirements and a detailed CAD drawing have been received. There may be "Aid-in-Construction" charges for line extensions or special grades of service as described in PECI policies.

Please have the enclosed easement information form completed and returned so that we may draft an electric utility easement. When the easement has been recorded, a copy will be forwarded to you for your file.

PECI has a highly successful lighting program, which we would like to discuss with you at your convenience. I have enclosed an "Illuma Knight" lighting brochure for your review.

Thank you for your cooperation in this matter. Please contact me at (843) 208-5513 or via email mloxley@palmetto.coop if you have any questions or if I may be of further assistance.

Sincerely,
PALMETTO ELECTRIC COOPERATIVE, INC.

Matt Loxley, PE
Manager, Engineering Services

MHL:mhl
Encl.

c: Mr. Tony Brabham, PECI
Mr. Corey Tuten, PECI
Mrs. Allee Williams, PECI

September 24, 2024
EXHIBIT
Hank Amundson
5A

DAVIS & FLOYD

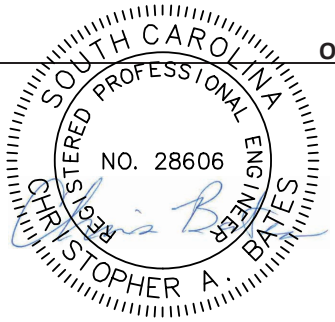
PLAN | DESIGN | ENGINEER

PROJECT NARRATIVE **October 20, 2023**

#J23707 Daufuskie at Cross Island

TMP: R552 010 000 0650 0000

Street Address: 68 Helmsman Way
Hilton Head, SC 29928
Zoning District: WMU – Water Oriented Mixed Use
Development Use: Ferry Embarkation





Developer:
Beaufort County
c/o Jared Fralix
100 Ribaut Road
Beaufort, SC 29902
843-255-2700
jared.fralix@bcgov.net

Civil Engineer:
Chris Bates
Davis & Floyd
2712 Bull Street, Suite A
Beaufort, SC 29902
843-379-2222
cbates@davisfloyd.com

Site Contractor:
TBD

Site Narrative / Parking Needs Analysis:

The proposed project consists of construction of a 1,800 sf ± pavilion that will house a restroom and ticket sales area for the Daufuskie Ferry. The site is currently used as a boat landing with 36 trailer spaces and 10 vehicle only spaces according to the construction plans. It is assumed that the boat landing is sufficiently parked. Additional parking is proposed to support the added use of the property as a ferry embarkation point and to not impact the existing spaces located onsite. A typical day for the parking needs of the Daufuskie Ferry is represented in the table below:

Daufuskie Ferry Embarkation Parking Needs Analysis			
	Passengers Arriving by Vehicle - Vehicle Parks	Passengers Arriving on Ferry - Vehicle Leaves	Total Parking Spaces Occupied (Includes Overlap of Passengers)
Open for Business	-	-	5 (Staff - See Below)
7:00 AM	40	-	45
10:00 AM	20	20	65
1:00 PM	20	20	65
4:00 PM	-	40	45
Close of Business	-		0

Staff	
Ferry Captain	1
Dock hand	1
Ticket Sales	1
Pavilion Loading Assistant	1
Facilities Maintenance	1
Total	5

At any one time, it is estimated that the maximum number of spaces used on a typical day would be 60 spaces for ferry passengers. This accounts for overlap in passengers who are waiting to depart. You can also see that it is estimated that 5 spaces will be necessary for staff to operate the ferry resulting in a need for approximately 65 spaces. A total of 68 new vehicle spaces are proposed.

DAUFUSKIE FERRY AT CROSS ISLAND

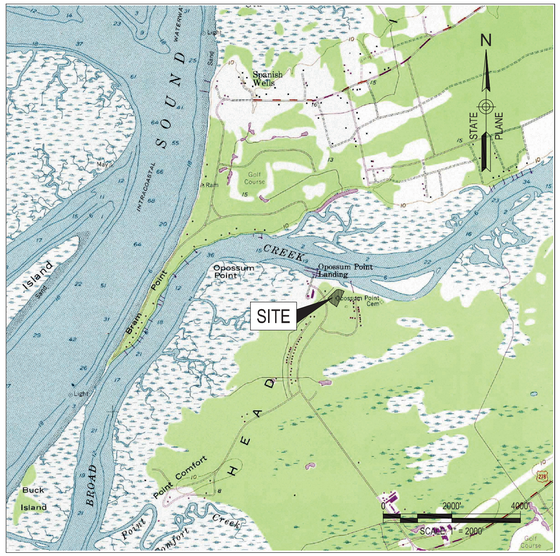
JOB NO. 03214100

BEAUFORT COUNTY-TOWN OF HILTON HEAD
68 HELMSMAN WAY

September 24, 2024
EXHIBIT
Hank Amundson
6



LOCATION MAP



VICINITY MAP

SHEET INDEX	
SHEET #	SHEET TITLE
C000	COVER
C001	GENERAL NOTES
C100	EXISTING SITE & DEMOLITION PLAN
C200	OVERALL SITE PLAN
C300	GRADING, DRAINAGE, & HORIZONTAL CONTROL PLAN
C400	WATERLINE AND SANITARY SEWER PLAN
C500	SWPPP NOTES
C501	SWPPP
C600	TREE PROTECTION AND REMOVAL PLAN
C700	CONDUIT PLAN
C820	SITE DETAILS 1
C821	SITE DETAILS 2
C830	GRADING AND DRAINAGE DETAILS
C840	SANITARY SEWER DETAILS
C841	WATERLINE DETAILS
C850	SWPPP DETAILS 1
C851	SWPPP DETAILS 2

EXISTING UTILITY NOTE

EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDIVIDUALLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES

ADA NOTES

1. ALL PUBLIC RIGHT-OF-WAYS AND ALL AMENITIES WILL BE ADA COMPLIANT.
2. PUBLIC RIGHT-OF-WAYS MUST REMAIN ADA COMPLIANT THROUGHOUT CONSTRUCTION OR AN ALTERNATIVE ROUTE MUST BE PROVIDED.

DEVELOPER	CIVIL ENGINEER	LANDSCAPE ARCHITECT	SURVEYOR	ARCHITECT
BEAUFORT COUNTY	DAVIS & FLOYD	THE GREENERY	DAVIS & FLOYD	MONTGOMERY ARCHITECTURE & PLANNING
JARED FRALIX	CHRIS BATES	TODD PARROTT	JOHN GRAY	ROBERT C. MONTGOMERY
100 RIBAUT ROAD	2712 BULL STREET, SUITE A	P.O. BOX 6569	2712 BULL STREET, SUITE A	ADDRESS
BEAUFORT, SC 29902	BEAUFORT, SC 29902	HILTON HEAD ISLAND, SC 29938	BEAUFORT, SC 29902	CITY, STATE ZIP
843-255-2700	843-379-2222	843-785-3848	843-379-2222	PHONE

811 Know what's below. Call before you dig.

SOUTH CAROLINA NO. C00538 DAVIS & FLOYD, INC CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 28606 REGISTERED CHRISTOPHER A. BATES

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29907
843-379-2222

OWNER: BEAUFORT COUNTY
PROJECT TITLE: 68 HELMSMAN WAY
DAUFUSKIE FERRY AT CROSS ISLAND
DRAWING TITLE: COVER

NO.	RELEASED	CHECKED	DATE

JOB NO. 03214100
DATE: October 2023
DESIGNED: CB
DRAWN: CB
CHECKED: CB
APPROVED: CB

C000
PAGE 1 OF 17

F:\Projects\BO23\0023 Projects\123707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\123707_cov.dwg, 10/20/2023 10:33:25 AM, chris bates, pe
THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF DAVIS & FLOYD, INC. AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER / ARCHITECT AND ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION

GENERAL CONSTRUCTION NOTES

1. ELEVATION DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) [NATIONAL GEODETIC VERTICAL OF OF 1929 (NGVD 29)].
2. HORIZONTAL DATUM: SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM OF 1983 BASED ON INTERNATIONAL FEET (SC83IF).
3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, LOCAL AND OTHER APPLICABLE AGENCY REGULATIONS.
4. CONTRACTOR SHALL HOLD ALL PERMITS IN HAND PRIOR TO COMMENCEMENT OF WORK.
5. THE CONTRACTOR MUST ACQUIRE COPIES OF ALL REQUIRED PERMITS, STAMPED APPROVED AGENCY PLANS, OS-SWPPP, AND OTHER SUCH REQUIRED DOCUMENTS TO KEEP ONSITE THROUGHOUT CONSTRUCTION FOR AGENCY INSPECTORS, THE OWNER, AND OTHER AUTHORIZED OFFICIALS.
6. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, COMPLIANCE WITH OSHA REQUIREMENTS, SCOPE OF WORK, AND COMPLIANCE WITH ALL NECESSARY PERMITS.
8. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
9. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" RECORD DRAWINGS AS SPECIFIED OR REQUIRED IN THE CONTRACT DOCUMENTS. FINAL PAYMENT FOR THE WORK WILL NOT BE MADE UNTIL THE "AS-BUILT" RECORD DRAWINGS HAVE BEEN COMPLETED AND DELIVERED AS INDICATED ABOVE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES AND CONSTRUCTION STAKING FOR THE PROJECT.
11. THE CONTRACTOR SHALL ADVISE THE ENGINEER IF EXISTING GRADES THAT ARE TO REMAIN ARE IN CONFLICT WITH PROPOSED WORK, CAUSING LIMITATIONS IN DRAINAGE PERFORMANCE OR SIGNIFICANT CHANGES IN CONSTRUCTION LIMITS DEFINED WITH CUT OR FILL LIMITS AND SPECIFICALLY THAT WORK WHICH MAY RESULT IN ANY CONSTRUCTION TAKING PLACE OUTSIDE OF PROPOSED CONSTRUCTION LIMITS.
12. THE CONTRACTOR SHALL NOTIFY AGENCIES HAVING JURISDICTION AS NECESSARY OF THE ANTICIPATED SCHEDULE FOR INSPECTIONS PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL MAINTAIN EXISTING 2-WAY TRAFFIC FLOW AT ALL TIMES, EXCEPT AS NOTED IN THE PLANS, AND SHALL PROVIDE FLAG MEN AND APPROPRIATE TRAFFIC CONTROLS AS NEEDED. FOR WORK REQUIRING A TRAFFIC CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE THE LOCAL JURISDICTION AND/OR SCDOT AND OTHERS AS REQUIRED A COPY OF THE TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF THE ASSOCIATED WORK. AND ANY CHANGES TO THIS PLAN SHALL BE APPROVED BY THE LOCAL JURISDICTION AND/OR SCDOT AND OTHERS AS REQUIRED PRIOR TO IMPLEMENTATION OF CHANGES.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THEIR OWN TEMPORARY RESTROOM FACILITIES ONSITE FOR WORK CREW USE.
15. ALL EXISTING ROADS SHOWN ON THE PLANS ARE PAVED UNLESS OTHERWISE NOTED.
16. THE CONTRACTOR SHALL PROTECT AND/OR RESTORE ANY CONTRACTOR RELATED IMPROVEMENTS OR DAMAGE ON THE OWNER'S PROPERTY, EASEMENTS, OR ANY ADJOINING PROPERTIES TO MEET OR EXCEED EXISTING CONDITIONS.
17. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE NPDES PERMIT AND GUIDELINES OF THE SCDHEC BMP HANDBOOK DURING THE ENTIRE CONSTRUCTION PERIOD. SEDIMENT AND EROSION CONTROL BEST MANAGEMENT PRACTICES (BPM) SHALL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES, BERMS, INLET PROTECTION, ETC. AS NEEDED OR AS DIRECTED BY THE ENGINEER.
18. RUBBER SAFETY CAPS SHALL BE INSTALLED ON THE TOPS OF ALL STEEL POSTS USED FROM CONSTRUCTION OF BMPs
19. CLEAR AND GRUB WITHIN WORK LIMITS FOR ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE SIGNIFICANT TREES EXCEPT AS SHOWN ON THE DRAWINGS.
20. DISPOSAL OF EXCESS EXCAVATED MATERIALS OFF-SITE AND HAULING OF FILL MATERIALS REQUIRED FOR CONSTRUCTION SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
21. WHERE ROADWAY DITCHES AND DRAINAGE PIPES ARE DAMAGED OR DISTURBED, THE CONTRACTOR SHALL RELAY DRAINAGE PIPE TO ORIGINAL INVERT ELEVATIONS AND RE-GRADE DITCHES TO ESTABLISH POSITIVE DRAINAGE.
22. AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, SOD, MULCH, ETC, PER PLANS AND DETAILS, OR AT THE DIRECTION OF THE ENGINEER AS MAY BE APPLICABLE.

EXISTING UTILITIES AND FACILITIES

1. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM A COMBINATION OF AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND/OR DEPTHS AS NEEDED OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING POWER, GAS, AND COMMUNICATIONS LINES.
2. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL CALL PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND ANY LOCAL UTILITY COMPANY NOT REPRESENTED BY PUPS A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY PROPOSED WORK (811).
4. THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY AGENCY A MINIMUM 72 HOURS IN ADVANCE OF ANY EXCAVATION OR LAND DISTURBANCE NEAR EXISTING UTILITY LINES LOCATED ABOVE OR BELOW GROUND.
5. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT AN MAINTAIN UTILITY SERVICE TO ALL EXISTING BUILDINGS AT ALL TIMES. IF THE CONTRACTOR REQUIRES AN INTERRUPTION TO ANY UTILITY SERVICE, THEY MUST NOTIFY THE EXISTING PROPERTY OWNER, THE APPLICABLE AGENCY, THE PROJECT OWNER, AND ENGINEER IN WRITING A MINIMUM OF 72 HOURS PRIOR TO THE DESIRED INTERRUPTION TO COORDINATE AND SCHEDULE TEMPORARY DISRUPTIONS AND RECONNECTION OF UTILITIES.
6. ALL UTILITY CROSSINGS SHALL BE POTHOLED PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATION WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER. THE DESIGN ENGINEER SHALL OBTAIN APPROVAL FROM THE OWNER AND UTILITY COMPANY HAVING JURISDICTION.
7. RELOCATION, REMOVAL, OR ABANDONMENT OF EXISTING UTILITIES OWNED/MAINTAINED BY OTHER AGENCIES (WATER, SEWER, GAS, POWER, COMMUNICATIONS, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR.
8. ANY MODIFICATION TO UTILITY LAYOUT, MATERIALS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY THE DESIGN ENGINEER AND APPLICABLE AGENCY PRIOR TO ORDERING MATERIALS OR MAKING ANY SUCH CHANGES.
9. INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF DEMOLISHED SERVICES AND ABANDONED UTILITIES.
10. ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE DEPICTED ON THE PLANS OR DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES NOT INDICATED TO BE REMOVED AT ALL TIMES DURING CONSTRUCTION. ALL EXISTING STRUCTURES, INCLUDING BUT NOT LIMITED TO SIGNS AND DRIVES DISTURBED DURING CONSTRUCTION THAT ARE NOT SHOWN TO BE PERMANENTLY DEMOLISHED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
11. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING SURFACE FEATURES (UNLESS INDICATED TO BE PERMANENTLY DEMOLISHED) NECESSARY FOR INSTALLATION / REMOVAL OR ALL UNDERGROUND AND ABOVE GROUND WORK AS INDICATED ON THESE PLANS AND IN THE SCOPE OF WORK. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FENCES, CURB & GUTTER, LANDSCAPING, SIDEWALKS, AND PAVEMENT.
12. ANY PAVEMENT DAMAGED DURING CONSTRUCTION THAT IS NOT INDICATED TO BE PERMANENTLY DEMOLISHED SHALL BE RESORTED TO ORIGINAL CONDITION OR BETTER. ANY BROKEN PAVEMENT EDGES SHALL BE SAW-CUT SMOOTH AND THE PAVEMENT REPLACED TO MATCH EXISTING GRADES.
13. DRAINAGE PIPES DESTROYED DURING CONSTRUCTION (WHICH ARE NOT INDICATED TO BE PERMANENTLY DEMOLISHED) ARE TO BE REPLACED AT A MINIMUM WITH NEW CLASS III - WALL B REINFORCED CONCRETE PIPE COMPLYING WITH ASTM C76. OR WITH OTHER OWNER APPROVED EQUIVALENT PIPE MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH INSTANCES TO ENSURE MATERIAL COMPATIBILITY WITH THE EXISTING SOIL CONDITIONS FOR THIS SITE.
14. ANY SEPTIC TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT BY A CERTIFIED COMPANY, THE TANK EXCAVATED, AND DISPOSED OF PER INDUSTRY STANDARDS.
15. ANY FUEL TANKS ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER SCDHEC REQUIREMENTS. BACKFILL WITH COMPACTED GRANULAR MATERIAL.
16. ANY OTHER TYPES OF WELLS, TANKS, PIPES, STRUCTURES ETC., ENCOUNTERED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER. IN THE EVENT CONTAMINATED OR HAZARDOUS MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.

GRADING, PAVING AND DRAINAGE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES AT ALL TIMES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST, OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
2. FOR GRADING, PAVING, AND DRAINAGE WORK LOCATED WITHIN SCDOT AND/OR PUBLIC RIGHTS-OF-WAY, ALL MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY STATED OTHERWISE HEREIN, SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
3. STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER WHICH CAN NOT BE COMPACTED INTO A STABLE MASS, ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. ANY TREES MARKED OR SUSPECTED OF BEING PROTECTED SHALL BE COORDINATED THROUGH THE OWNER, ENGINEER, AND THE LOCAL JURISDICTION PRIOR TO REMOVAL.
4. UNLESS SPECIFICALLY STATED OTHERWISE, ALL FILL SHALL BE APPROVED BY THE ENGINEER AND CONSTRUCTED IN 10" LIFTS MAXIMUM WITH HEAVY COMPACTION EQUIPMENT. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR) AND BE WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT.
5. ALL FILL MATERIALS SHALL BE COMPACTED IN LIFTS TO THE DESIRED COMPACTION RATES WITH FIELD DENSITY TEST REPORTS DOCUMENTING THAT THE REQUIREMENTS HAVE BEEN ACHIEVED. ALLOW INSPECTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTH MOVING ONLY AFTER TESTING RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. WHEN TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED SCARIFY, MOISTEN AND AERATE OR REMOVE AND REPLACE SOIL MATERIALS TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, NO FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 3H:1V.
7. THE CONTRACTOR SHALL FURNISH, INSTALL, MONITOR, AND MAINTAIN EXCAVATION OPEN-TRENCH SUPPORT AND PROTECTION SYSTEMS CAPABLE OF SUPPORTING EXCAVATION SIDEWALLS AND OF RESISTING SOIL AND HYDROSTATIC PRESSURE AND SUPERIMPOSED AND CONSTRUCTION LOADS. PREVENT SURFACE WATER FROM ENTERING EXCAVATIONS BY GRADING, DIKES, OR OTHER MEANS. INSTALL EXCAVATION SUPPORT AND PROTECTION SYSTEMS WITHOUT DAMAGING EXISTING BUILDINGS, STRUCTURES, AND SITE IMPROVEMENTS ADJACENT TO EXCAVATION. MONITOR VIBRATIONS, SETTLEMENTS, AND MOVEMENTS. SHOW EXISTING CONDITIONS OF ADJACENT CONSTRUCTION AND SITE IMPROVEMENTS WITH PHOTOGRAPHS AND OR VIDEOS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY THE ABSENCE OF, THE INSTALLMENT OF, OR THE PERFORMANCE OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS AND SUBMIT BEFORE WORK BEGINS.
8. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO GRADES THAT RESULT IN POSITIVE DRAINAGE TO THE EXISTING AND/OR NEW STORM DRAINAGE INLETS, UNLESS OTHERWISE NOTED.

STORM WATER SYSTEM NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE OF EXISTING STORM SEWER LINES AND CHANNELS DURING CONSTRUCTION WORK.
2. NEW STORM WATER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL JURISDICTION AND/OR SCDOT SPECIFICATIONS AND REQUIREMENTS.
3. THE GRADE OF THE GRAVITY STORM PIPES SHALL BE MAINTAINED AT A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS.
4. UNLESS SPECIFICALLY NOTED OTHERWISE, REINFORCED CONCRETE PIPE (RCP) SHALL BE ASTM C-76, CLASS III - WALL B WITH GASKETED JOINTS PER ASTM C443. THE EXTERIOR OF THE JOINTS FOR ALL RCP SHALL BE WRAPPED WITH FILTER FABRIC, MINIMUM 18" IN WIDTH.
5. ALL MANHOLE LIDS AND CATCH BASINS SHALL CONTAIN A LABEL IDENTIFYING THE SYSTEM AS STORMWATER AND MARKED WITH AN APPROPRIATE STORMWATER AWARENESS MESSAGE SUCH AS "NO DUMPING - DRAINS TO WATERWAYS."
6. AT THE COMPLETION OF CONSTRUCTION WHEN THE SITE IS FULLY STABILIZED, THE CONTRACTOR SHALL CLEAN ALL STORMWATER DRAINAGE SYSTEMS WITHIN THE PROJECT LIMITS.

WATER SYSTEM NOTES

1. WATER INSTALLATION SHALL BE IN ACCORDANCE WITH THE "TEN STATES STANDARDS", SCDHEC REGULATIONS, AND [LOCAL WATER & SEWER AUTHORITY AND MANUAL] AND APPROVED TECHNICAL SPECIFICATIONS, LATEST EDITION, FOUND AT [WEBSITE]

WASTEWATER SYSTEM NOTES

1. WASTEWATER INSTALLATION SHALL BE IN ACCORDANCE WITH THE "TEN STATES STANDARDS", SCDHEC REGULATIONS, AND [LOCAL WATER & SEWER AUTHORITY AND MANUAL] AND APPROVED TECHNICAL SPECIFICATIONS, LATEST EDITION, FOUND AT [WEBSITE].

[LOCAL JURISDICTION] NOTES

1. ADD LOCAL JURISDICTION NOTES HERE.

PROJECT CLOSEOUT NOTES

1. ALL SUBMITTED RECORD DRAWINGS AND ASBUILT SURVEYS MUST INCLUDE AN D REFERENCE THE LATEST PERMITTED PLANS.
2. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RECORD (AS-BUILT) DRAWINGS, PIPE VIDEOS, VALVE CARDS. AND TESTING FORMS TO CLOSE-OUT UTILITY PERMITS AS APPLICABLE.
3. A PERMANENT STORMWATER FACILITY MAINTENANCE AND RESPONSIBILITY AGREEMENT AND RECORD (AS-BUILT) DRAWINGS MUST BE COMPLETED IN ACCORDANCE WITH BEAUFORT COUNTY SPECIFICATIONS BEFORE A CERTIFICATE OF OCCUPANCY AND A NOTICE OF TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL BE APPROVED.

CONTACTS			
FIRM/AGENCY/UTILITY		PHONE	CONTACT
OWNER/DEVELOPER	OWNERS NAME	(XXX) XXX-XXXX	XXXX
CIVIL ENGINEER	DAVIS & FLOYD, INC.	(XXX) XXX-XXXX	XXXX
LANDSCAPE ARCHITECT	XXXX	(XXX) XXX-XXXX	XXXX
SURVEYOR	XXXX	(XXX) XXX-XXXX	XXXX
GEOTECHNICAL ENGINEER	XXXX	(XXX) XXX-XXXX	XXXX
WETLANDS CONSULTANT	XXXX	(XXX) XXX-XXXX	XXXX
PLANNING/ZONING		(XXX) XXX-XXXX	XXXX
ENGINEERING / PUBLIC WORKS		(XXX) XXX-XXXX	XXXX
MS4 / STORMWATER		(XXX) XXX-XXXX	XXXX
FIRE MARSHAL		(XXX) XXX-XXXX	XXXX
NPDES PERMITTING	SCDHEC - STORMWATER	(XXX) XXX-XXXX	XXXX
COASTAL ZONE CONSISTENCY	SCDHEC - OCRM/CZC	(XXX) XXX-XXXX	XXXX
ROAD	SCDOT - ROAD ENCR.	(XXX) XXX-XXXX	XXXX
ROAD - UTILITIES	SCDOT - UTILITIES ENCR.	(XXX) XXX-XXXX	XXXX
WATER & SEWER		(XXX) XXX-XXXX	XXXX
ELECTRICAL		(XXX) XXX-XXXX	XXXX
NATURAL GAS		(XXX) XXX-XXXX	XXXX
TELEPHONE		(XXX) XXX-XXXX	XXXX

F:\Projects\2023\2023 Projects\J23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\J23707_con.dwg, 10/20/2023 10:33:26 AM, chris bates, pe
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SOUTH CAROLINA — DAVIS & FLOYD, INC — NO. C00038 — CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA — PROFESSIONAL ENGINEER — NO. 28606 — REGISTERED — CHRISTOPHER A. BATES
DAVIS & FLOYD — SINCE 1954 — WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A — BEAUFORT, SC 29902 — 843-379-2222

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE FERRY AT CROSS ISLAND

DRAWING TITLE: GENERAL NOTES

NO.	RELEASED	CHECKED	DATE

JOB NO. 0021410
DATE: October 2023
DESIGNED: LB
DRAWN: CB
CHECKED: CB
APPROVED: CB

C001

PAGE 2 OF 17

F:\Projects\2023\2023 Projects\23707 Dlw\fuskie Ferry at Cross Island Landing Ph 1\dwg\L22746_mst.dwg, 10/20/2023 10:33:30 AM, chris bates, pe
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APPROXIMATE LOCATION EXISTING 10" WATER

SAWCUT AND PATCH EXISTING ASPHALT AND CURB AND GUTTER FOR WATER INSTALLATION. MILL AND OVERLAY 5' BEYOND EDGE OF PAVEMENT CUT (SEE WATERLINE PLAN)

EX. SAN. SEWER MH RIM=7.03 INV8"se=-0.61 INV4"se=2.59 INV8"sw=-1.00

APPROXIMATE LOCATION EXISTING 8" WATER

SAWCUT AND PATCH EXISTING ASPHALT AND CURB AND GUTTER FOR SEWER INSTALLATION. MILL AND OVERLAY 5' BEYOND EDGE OF PAVEMENT CUT (SEE SANITARY SEWER PLAN)

HELMSMAN WAY (60' R/W)

TREE CANOPY (SPECIMEN)

DHEC/OCRM CRITICAL AREA LINE

MARSHES OF BROAD CREEK

FLOOD ZONE "X" (OTHER FLOOD AREAS)

FLOOD ZONE "AE" (EL 8)

SAWCUT AND DEMO EXISTING ASPHALT FOR BOARDWALK INSTALLATION (SEE GRADING, DRAINAGE, AND PAVING PLAN)

EXISTING BIKE PATH AND EXISTING LIGHTING TO BE DEMOLISHED

SAWCUT AND PATCH EXISTING ASPHALT FOR STORM INSTALLATION (SEE GRADING, DRAINAGE, AND PAVING PLAN)

SAWCUT AND PATCH EXISTING ASPHALT FOR STORM INSTALLATION (SEE GRADING, DRAINAGE, AND PAVING PLAN)

PARCEL E
R552 010 000 0650 0000
3.892 ACRES
169,543 SQ. FT

BENCHMARK SET NAIL IN PAVEMENT ELEV=8.02 DATUM=NAVD88

EDGE OF PAVEMENT

CURB

EDGE OF PAVEMENT

5' SETBACK FROM PILE CAP/FOOTING. NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

BRIDGE COLUMNS AND PILE CAP/FOOTING (TYP.)

5' SETBACK FROM PILE CAP/FOOTING. NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

TOP OF BANK

BOTTOM OF BANK

7' WD FENCE

CONC. PAD (TYP.)

EDGE OF PAVEMENT

BENCHMARK SET NAIL IN PAVEMENT ELEV=8.08 DATUM=NAVD88

RIP RAP (TYP.)

EDGE OF BRIDGE

BRIDGE COLUMNS AND PILE CAP/FOOTING (TYP.)

CROSS ISLAND PARKWAY

DHEC/OCRM CRITICAL AREA LINE

BOTTOM OF BANK

EDGE OF BRIDGE

5' SETBACK FROM PILE CAP/FOOTING. NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

MARSHES OF BROAD CREEK

DOCK RAMP

RIP RAP (TYP.)

EX. FLOATING DOCK (TO BE REPLACED)

TREE LEGEND	
REMAIN	REMOVE
○ 12 PN	✕ 12 PN

Know what's below. Call before you dig.

STATE PLANE

0 30 60
SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

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DAVIS & FLOYD, INC
NO. C005538
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
NO. 28606
REGISTERED
CHRISTOPHER A. BATES

DAVIS & FLOYD
SINCE 1854
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9105

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Existing Site & Demolition Plan

NO.	RELEASED	CHECKED	DATE

JOB NO. 23214100
DATE: October 2023
DESIGNED: CB
DRAWN:
CHECKED: CB
APPROVED: CB

C100

PAGE 3 OF 17

R. p. 1666

Site Development Table			
Zoning District	WMU-Water Oriented Mixed Use		
Overlay District	None		
Use of Property	Boat Landing / Ferry Embarkation		
Gross Site Area (Including SCDOT R/W)	169,424 SF	3.89 AC	
Critical Area	9,010 SF	0.21 AC	
Net Site Area (Gross Area-Critical Area)	160,414 SF	3.68 AC	
Proposed Building Area	1,800 SF		
Proposed Building Height	< 16 FT		
Maximum Allowed Impervious	80,207 SF	1.84 AC	50%
Existing Impervious	56,032 SF	1.29 AC	35%
Proposed Impervious	69,002 SF	1.58 AC	43%
Minimum Additional Parking Spaces Required	64 Vehicle Only		
Existing Parking Spaces	36 Trailer	10 Vehicle Only	
Proposed Additional Spaces	0 Trailer	68 Vehicle Only	

APPROXIMATE LOCATION EXISTING 10" WATER
AVERAGE CRITICAL LINE BUFFER (35 FT)
MINIMUM CRITICAL LINE SETBACK (5 FT)
MINIMUM CRITICAL LINE BUFFER (15 FT)
OCRM CRITICAL LINE
20FT IN STREET BUFFER (ALT)
10FT MIN STREET BUFFER
FLOOD ZONE "X" (OTHER FLOOD AREAS)
FLOOD ZONE "AE" (EL 8)
WOODEN TREE FENCE AT SPECIMEN TREE
DHEC/OCRM CRITICAL AREA LINE
MARSHES OF BROAD CREEK
TREE CANOPY (SPECIMEN)
EX. SAN. SEWER MH RIM=7.03 INV8"se=-0.61 - INV4"se=2.59 INV8"sw=-1.00
APPROXIMATE LOCATION EXISTING 8" WATER
LOADING ZONE
CONCRETE RAMP
PROPOSED PAVILION FFE=11.00
BIKE RACK
PARCEL E
R552 010 000 0650 0000
3.892 ACRES
169,543 SQ. FT
DOCK RAMP
RIP RAP (TYP.)
EX FLOATING DOCK (TO BE REPLACED)
BENCHMARK SET NAIL IN PAVEMENT ELEV=8.02 DATUM=NAVD88
EDGE OF PAVEMENT
CURB
EDGE OF PAVEMENT
HELMSMAN WAY (60' R/W)
5' SETBACK FROM PILE CAP/FOOTING, NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)
BRIDGE COLUMNS AND PILE CAP/FOOTING (TYP.)
TOP OF BANK
BOTTOM OF BANK
7' WD FENCE
CONC. PAD (TYP.)
EDGE OF BRIDGE
CROSS ISLAND PARKWAY
DHEC/OCRM CRITICAL AREA LINE
BOTTOM OF BANK
EDGE OF BRIDGE
5' SETBACK FROM PILE CAP/FOOTING, NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)
MARSHES OF BROAD CREEK
BENCHMARK SET NAIL IN PAVEMENT ELEV=8.08 DATUM=NAVD88

Know what's below. Call before you dig.

STATE PLANE

0 30 60
SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

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SOUTH CAROLINA PROFESSIONAL ENGINEER
NO. 28606
REGISTERED
CHRISTOPHER A. BATES
DAVIS & FLOYD
SINCE 1854
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9105

OWNER: BEAUFORT COUNTY
PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND
DRAWING TITLE: Overall Site Plan

NO.	RELEASED	CHECKED	DATE

DESIGN 23214100
DATE October 2023
DESIGNED CAB
DRAWN CAB
CHECKED CAB
APPROVED CAB

C200

PAGE 4 OF 17

SCDOT SPECIFICATIONS AND STANDARD DRAWING NOTES

** ALL WORK WITHIN THE SCDOT R/W SHALL CONFORM TO THE MOST CURRENT EDITION OF SCDOT STANDARD DRAWINGS.THIS INCLUDES, BUT IS NOT LIMITED TO, TEMPORARY CONSTRUCTION ENTRANCES, PAVEMENT, PAVEMENT MARKINGS, SIGNS AND DRAINAGE STRUCTURES. IF DETAILS VARY FROM SCDOT STANDARD DRAWINGS, SCDOT STANDARD DRAWINGS SHALL BE ADHERED TO. CONTRACTOR SHALL REFER TO THE MOST CURRENT EDITION OF THE SCDOT STANDARD DRAWINGS.

SILT FENCE	–	SCDOT STANDARD DRAWING 815-605-00
SIGN POST	–	SCDOT STANDARD DRAWING 605-005-01
COMPACTION REQUIREMENTS	–	SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION SC-M-714-1.3.6
CURB AND GUTTER	–	SCDOT STANDARD DRAWING 720-105-01
TRAFFIC CONTROL	–	SCDOT STANDARD DRAWING 610-030-00 610-035-00 610-040-00

4" – 6" WIDE LINES ARE TO BE 90 MIL. THERMOPLASTIC

8" – 24" WIDE LINES ARE TO BE 125 MIL. THERMOPLASTIC

NOTE: EACH PARKING SPACE DESIGNATED AS ACCESSIBLE FOR THE DISABLED MUST BE MARKED WITH AN APPROPRIATE SIGN, MOUNTED IN CLEAR VIEW FOR MOTORISTS. A HEIGHT OF AT LEAST 60 INCHES, MEASURED FROM THE GROUND TO THE BOTTOM EDGE OF the SIGN, IS RECOMMENDED.

PAVEMENT LEGEND

- ASPHALT PAVING
- CONCRETE SIDEWALK
- PERVIOUS CONCRETE

Know what's below. Call before you dig.

STATE PLANE

0 30 60

SCALE: 1" = 30'

PROJECT DATUM INFORMATION:

HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

C300

PAGE 5 OF 17

SOUTH CAROLINA — DAVIS & FLOYD, INC — NO. C005538 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — NO. 28606 — REGISTERED — CHRISTOPHER A. BATES

DAVIS & FLOYD
SINCE 1854
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-524-9105

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Grading, Drainage, and Paving Plan

NO.	REVISED	DATE	CHECKED

DESIGN 23214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

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SCDOT SPECIFICATIONS AND STANDARD DRAWING NOTES

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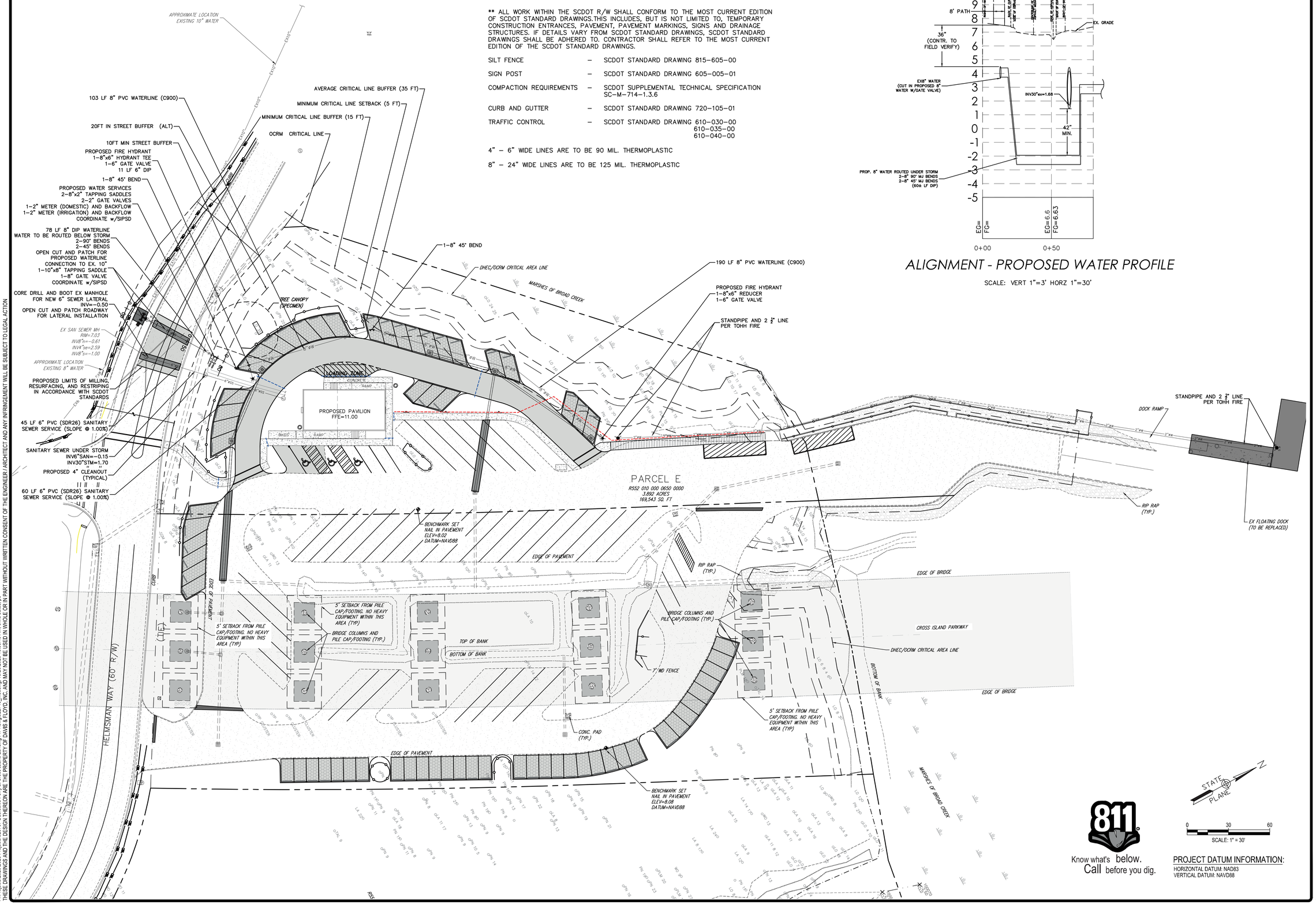
SILT FENCE	–	SCDOT STANDARD DRAWING 815-605-00
SIGN POST	–	SCDOT STANDARD DRAWING 605-005-01
COMPACTION REQUIREMENTS	–	SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION SC-M-714-1.3.6
CURB AND GUTTER	–	SCDOT STANDARD DRAWING 720-105-01
TRAFFIC CONTROL	–	SCDOT STANDARD DRAWING 610-030-00 610-035-00 610-040-00

4" – 6" WIDE LINES ARE TO BE 90 MIL. THERMOPLASTIC

8" – 24" WIDE LINES ARE TO BE 125 MIL. THERMOPLASTIC

ALIGNMENT - PROPOSED WATER PROFILE

SCALE: VERT 1"=3' HORZ 1"=30'



811 Know what's below. Call before you dig.

STATE PLANE

0 30 60

SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

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SOUTH CAROLINA PROFESSIONAL ENGINEER
DAVIS & FLOYD, INC
NO. C005538
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA PROFESSIONAL ENGINEER
CHRISTOPHER A. BATES
NO. 28606
REGISTERED
Christopher A. Bates
DAVIS & FLOYD
SINCE 1854
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-7439105

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Waterline and Sanitary Sewer Plan

NO.	RELEASED	CHECKED	DATE

JOB NO. 23214100
DATE October 2023
DESIGNED CB
DRAWN CB
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C400

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SCDHEC/OCRM STANDARD NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET, SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDRO-SEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   A. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY PLACED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE PER THE ENVIRONMENTAL PLANS.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUDSOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
8. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
9. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
10. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
11. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF SEVEN (7) CALENDAR DAYS.
12. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
13. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
15. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
16. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
17. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
18. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

MS4 STANDARD NOTES

1. INSERT HERE.

SWPPP SEQUENCE OF CONSTRUCTION

PHASE 1: INITIAL LAND DISTURBANCE - SEQUENCE OF CONSTRUCTION

1. RECEIVE NPDES COVERAGE FROM SCDHEC.
2. CONDUCT PRE-CONSTRUCTION MEETING ON-SITE. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, OWNER, AND BEAUFORT COUNTY AT LEAST 48 HOURS PRIOR TO PRE-CONSTRUCTION MEETING.
3. NOTIFY SCDHEC EQC OFFICE OR OCRM 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
4. INSTALL CONSTRUCTION ENTRANCE(S) AND BEGIN MAINTENANCE OF SEDIMENT CONTROLS AS NECESSARY. CONTINUE MAINTENANCE UNTIL ALL FINAL STABILIZATION MEASURES ARE IN PLACE AND REMOVAL OF CONTROLS IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. CLEAR AND GRUB FOR THE INSTALLATION OF PERIMETER CONTROLS.
6. INSTALL PERIMETER CONTROLS AND TREE PROTECTION AS APPLICABLE.
7. SCHEDULE BEAUFORT COUNTY INSPECTION OF PERIMETER SEDIMENT CONTROLS AND TREE BARRICADES, THEN OBTAIN A COPY OF COUNTY APPROVED AND STAMPED PLANS PRIOR TO STARTING ADDITIONAL SITE WORK.
8. CLEAR AND GRUB AS NECESSARY FOR ACCESS AND TO COMPLETE THE INSTALLATION OF SEDIMENT TRAPS.
9. CONSTRUCT DIVERSION BERMS AND DRAINAGE SWALES FOR SEDIMENT TRAPS.
10. DEMOLISH AND REMOVE EXISTING STRUCTURES, HARDSCAPES, AND DEBRIS AS APPLICABLE.

INITIAL LAND DISTURBANCE PHASE - NOTES

1. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE INITIAL LAND DISTURBANCE PHASE.
   - THE CONSTRUCTION ENTRANCE(S) SHALL BE PLACED AS SHOWN ON THE PLANS.
   - IMMEDIATELY AFTER THE ESTABLISHMENT OF THE CONSTRUCTION ENTRANCE(S), ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL LAND DISTURBANCE PHASE CONSTRUCTION PLANS.
   - TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE AND SHALL BE MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. ANY FAILURES OF FENCING SHALL BE REPAIRED IMMEDIATELY.
   - SILT FENCE, AS INDICATED, SHALL BE INSTALLED AT THE PERIMETER OF THE LAND DISTURBANCE. THE SILT FENCE SHALL BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE ENGINEER. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHALL BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF FENCING SHALL BE REPAIRED IMMEDIATELY.
   - INLET PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM DRAINAGE STRUCTURES AS INDICATED.
   - SEDIMENT TUBES SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS INDICATED.
   - CONTRACTOR SHALL PERFORM DEWATERING WITH APPROPRIATE BMPS IN A MANNER THAT MEETS LOCAL AND STATE REGULATIONS WITH REGARD TO DISPOSAL PATH.
   - TEMPORARY DIVERSION DITCHES SHALL BE INSTALLED TO DIRECT FLOW TO BASINS / TRAPS / PONDS UNTIL ROUGH GRADING RE-DIRECTS FLOWS TO FINAL DESIGN PATH.
   - NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.
   - TEMPORARY SEEDING SHALL BE INSTALLED ON ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE CEASING.
   - SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT AND AT THE END OF EACH WORKING DAY, EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF THE SEDIMENT ACCUMULATION HAS REACHED 1/2 HEIGHT OR THE CAPACITY OF THE DEVICE, AS APPLICABLE.
3. THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PAVED AREAS. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO PAVED AREAS OR INTO STORM DRAINAGE SHALL BE IMMEDIATELY REMOVED.
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF EROSION CONTROL MEASURES INDICATED DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ON-SITE INSPECTOR OR ENGINEER.
5. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES.

PHASE 2: CONSTRUCTION - SEQUENCE OF CONSTRUCTION

1. CONTINUE MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL ALL FINAL STABILIZATION MEASURES ARE IN PLACE AND REMOVAL OF CONTROLS IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. CLEAR AND GRUB THE REMAINDER OF THE DISTURBED AREA.
3. COMPLETE ROUGH GRADING.
4. INITIATE INSTALLATION OF UTILITIES AS APPLICABLE.
5. INITIATE INSTALLATION OF STORM DRAINAGE SYSTEM INCLUDING INLET PROTECTION AS EACH STRUCTURE IS INSTALLED.

CONSTRUCTION PHASE - NOTES:

1. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE CONSTRUCTION PHASE.
   - SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.
   - INLET SEDIMENT PROTECTION SHALL BE INSTALLED ON ALL STORM DRAINAGE STRUCTURES AS THEY ARE INSTALLED. SEE PLAN AND DETAILS FOR TYPE AND INFORMATION.
   - VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL DRAINAGE SWALES AND GRADED AREAS AS SOON AS FINAL GRADES ARE ACHIEVED.
   - TEMPORARY SEED, AS APPLICABLE, SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE CEASING.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT AND AT THE END OF EACH WORKING DAY. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF THE SEDIMENT ACCUMULATION HAS REACHED 1/2 HEIGHT OR THE CAPACITY OF THE DEVICE, AS APPLICABLE.
3. THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PAVED AREAS. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO PAVED AREAS OR INTO STORM DRAINAGE SHALL BE IMMEDIATELY REMOVED.
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF EROSION CONTROL MEASURES INDICATED DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ON-SITE INSPECTOR OR ENGINEER.
5. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING TO LIMIT THE AMOUNT OF LAND STRIPPED OF ITS NATURAL COVER AND, THEREFORE, LIMIT DURATION OF EXPOSURE BEFORE STABILIZATION COVER IS ESTABLISHED.
6. SEDIMENT SHALL NOT BE WASHED INTO INLETS. ACCUMULATED SEDIMENT SHALL BE REMOVED AND RE-PLACED ON-SITE AND STABILIZED IN SUCH A MANNER THAT IT DOES NOT ACCUMULATE AGAIN.
7. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE REQUIRED FOR INSTALLATION HAS OCCURRED AND BEFORE ADJACENT CLEARING IS BEGUN. THE LOCATION OF SOME EROSION CONTROL DEVICES MAY NEED TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DEVIATE FROM THOSE PROPOSED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER.
8. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V IN ALL LOCATIONS UNLESS INFEASIBLE.

PHASE 3: STABILIZATION - SEQUENCE OF CONSTRUCTION:

1. CONTINUE MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL ALL FINAL STABILIZATION MEASURES ARE IN PLACE AND REMOVAL OF CONTROLS IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. COMPLETE SITE SURFACE IMPROVEMENTS INCLUDING CURBS, WALKS, PAVEMENT, ETC.
3. INSTALL LANDSCAPING AND ESTABLISH PERMANENT SOIL STABILIZATION.
4. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER THE ENTIRE AREA FLOWING TO EACH MEASURE IS PERMANENTLY STABILIZED AND APPROVED BY THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION.
5. PERFORM AS-BUILT SURVEYS OF THE DRAINAGE SYSTEM, AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, AND SUBMIT TO COUNTY FOR REVIEW AND APPROVAL.
6. SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC.

STABILIZATION PHASE - NOTES:

1. SEDIMENT SHALL NOT BE WASHED INTO INLETS, ACCUMULATED SEDIMENT SHALL BE REMOVED AND REPLACED ON-SITE AND STABILIZED IN SUCH A MANNER THAT IT DOES NOT ACCUMULATE AGAIN.
2. TEMPORARY SEED, AS APPLICABLE, SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE CEASING.
3. THE CONTRACTOR SHALL MAINTAIN ALL PONDS, SEDIMENT BASINS, AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE REMOVED FROM BASINS WHEN IT REACHES THE HALFWAY POINT ON THE RISER.
4. AFTER CURBING, AGGREGATE BASE AND PAVING HAS BEEN COMPLETED, ALL INLET PROTECTION INSTALLED ON CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB INLET PROTECTION.
5. ALL ROADWAY AND PARKING SHOULDERS SHALL HAVE VEGETATIVE COVER ESTABLISHED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT AND AT THE END OF EACH WORKING DAY. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF THE SEDIMENT ACCUMULATION HAS REACHED 1/2 HEIGHT OF THE CAPACITY OF THE DEVICE, AS APPLICABLE.
7. THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PAVED AREAS, ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO PAVED AREAS OR INTO STORM DRAINAGE SHALL BE IMMEDIATELY REMOVED.
8. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF EROSION CONTROL MEASURES INDICATED DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ON-SITE INSPECTOR OR ENGINEER.
9. UPON COMPLETION OF THE PROJECT AND AUTHORIZATION FROM THE AUTHORITY HAVING JURISDICTION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROPERLY DISPOSE OF THEM UNLESS OTHERWISE NOTED.

DRAINAGE FACILITIES MAINTENANCE PLAN

1. TEMPORARY SEDIMENT CONTROLS:

   THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE INCLUDING BUT NOT NECESSARILY LIMITED TO:

   A. DURING CONSTRUCTION (UNTIL FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION);
      1) DAILY:
         a) OBSERVING PAVED AREAS THAT ARE UTILIZED FOR SITE ACCESS TO LOOK FOR SIGNS OF SOIL BEING TRACKED FROM THE SITE AND TAKING CORRECTIVE ACTION AS NECESSARY
         b) CORRECTING ANY DAMAGE TO TEMPORARY SEDIMENT CONTROLS AS SOON AS POSSIBLE WHEN IT OCCURS.
      2) WEEKLY:
         a) INSPECTING TEMPORARY SEDIMENT CONTROLS FOR DAMAGE AND ACCUMULATED SEDIMENT, REMOVING SEDIMENT AND REPAIRING OR REPLACING DAMAGED TEMPORARY SEDIMENT CONTROLS AS NECESSARY.
         b) EVALUATING PERFORMANCE AND AMENDING, MODIFYING, IMPROVING, OR RELOCATING TEMPORARY SEDIMENT CONTROLS AS NECESSARY.
         c) LOGGING INSPECTION OBSERVATIONS, RECOMMENDATIONS, REPAIRS, RELOCATIONS, AMENDMENTS, AND IMPROVEMENTS AS NECESSARY
      3) BI-WEEKLY:
         a) EVALUATING SITE AND INSTALLING PERMANENT LANDSCAPING OR TEMPORARY SEEDING AS NECESSARY.
   B. AT COMPLETION OF CONSTRUCTION (UPON FINAL ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION)
      1) REMOVING OF ALL TEMPORARY SEDIMENT CONTROLS.
2. DRAINAGE CULVERTS AND STRUCTURES.
   A. DURING CONSTRUCTION (UNTIL FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION);
      THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE INCLUDING BUT NOT NECESSARILY LIMITED TO:
      1) PROTECTING THE CULVERTS AND STRUCTURES FROM DAMAGE.
      2) PREVENTING SEDIMENT FROM ENTERING THE CULVERTS AND STRUCTURES.
      3) REPAIRING OF ANY DAMAGE AND REMOVAL OF SEDIMENT AS SOON AS POSSIBLE AFTER IT OCCURS.

TEMPORARY BUFFER ZONE MANAGEMENT AND SURFACE WATER PROTECTION PLAN:

1. TEMPORARY (CONSTRUCTION) BUFFERS ARE NOT TO BE CONFUSED WITH PERMANENT BUFFERS THAT MAY BE SHOWN ELSEWHERE IN THE CONSTRUCTION PLANS. EXERCISE CARE TO DIFFERENTIATE BETWEEN TEMPORARY AND PERMANENT BUFFERS AND THEIR ASSOCIATED REQUIREMENTS.
2. TEMPORARY BUFFER ZONES SHALL BE FLAGGED PRIOR TO THE INSTALLATION OF PERIMETER CONTROLS.
3. ALL PERIMETER AND SEDIMENT CONTROL BMPS, SHALL BE INSTALLED PRIOR TO THE DISCHARGE OF STORMWATER RUNOFF INTO THE ADJACENT SURFACE WATER'S AND SHALL BE MAINTAINED UNTIL FINAL STABILIZATION.
4. AREAS CONTRIBUTING DIRECT RUNOFF TO TEMPORARY BUFFER AREAS SHALL BE STABILIZED PRIOR TO COMMENCING WORK WITHIN THE TEMPORARY BUFFER AREA.
5. ONCE CONSTRUCTION WITHIN AND ADJACENT TO TEMPORARY BUFFER AREAS IS COMPLETED, THE AREAS SHALL BE STABILIZED AS SOON AS PRACTICAL
6. IN THE EVENT A BUFFER IS ACCIDENTALLY DISTURBED, THE CONTRACTOR SHALL STABILIZE THE AREA AS SOON AS POSSIBLE AND CONSULT THE ENGINEER REGARDING REMEDIAL MEASURES OR EROSION CONTROL MEASURES.
7. NO DISTURBANCE SHALL OCCUR WITHIN CRITICAL AREAS (IE: SALTWATER MARSH).

TEMPORARY SEEDING

(TO BE USED ONLY FOR TEMPORARY STABILIZATION DURING CONSTRUCTION)

1. ALL PREPARATION, INSTALLATION, AND MAINTENANCE OF TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 810 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
2. IN PARTICULAR THE CONTRACTOR SHALL:
   A. ESTABLISH A STAND OF VEGETATION THAT IS CAPABLE OF EROSION CONTROL,
   B. PROVIDE MINIMUM DENSITY COVERAGE OF 70% THROUGHOUT THE SEEDED AREA.
   C. MAINTAIN THE STAND OF VEGETATION UNTIL REPLACED BY PERMANENT LANDSCAPING OR SUBSEQUENT CONSTRUCTION.
3. TEMPORARY SEED SHALL BE IN ACCORDANCE WITH SECTION 1.4 OF THE SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION FOR SEEDING (SDOT DESIGNATION: SC-M-810-4). SEED SPECIES AND APPLICATION RATE SHALL BE AS INDICATED FOR THE PROJECT LOCATION, SOIL TYPE, AND DATE OF INSTALLATION (SEE CHARTS).

PERMANENT SEEDING

(TO BE USED WHERE PERMANENT TURF BY SEEDING IS INDICATED ON PLANS OR DETAILS)

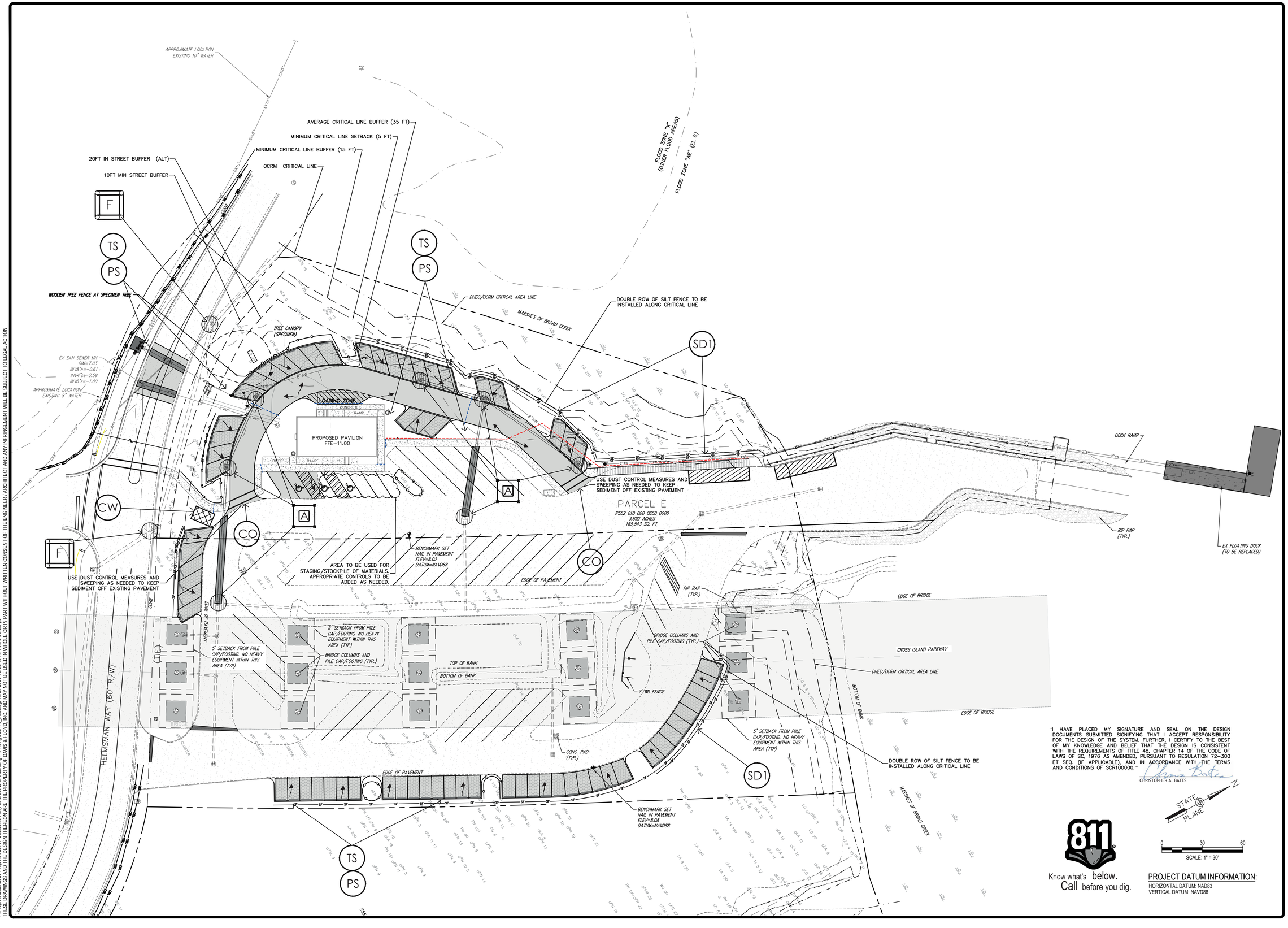
1. ALL PREPARATION, INSTALLATION, AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE LANDSCAPING SPECIFICATIONS FOR THE PROJECT OR, IN INSTANCES WHERE LANDSCAPING SPECIFICATIONS DO NOT EXIST, IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 810 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
2. IN PARTICULAR THE CONTRACTOR SHALL, AT A MINIMUM UNLESS OTHERWISE SPECIFIED AS INDICATED ABOVE:
   A. ESTABLISH A UNIFORM PERENNIAL STAND OF VEGETATION WITH A ROOT SYSTEM THAT IS SUFFICIENTLY DEVELOPED TO SURVIVE DRY PERIODS AND WINTER WEATHER AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING.
   B. PROVIDE MINIMUM DENSITY COVERAGE OF 70% THROUGHOUT THE SEEDED AREA.
   C. MAINTAIN THE STAND OF VEGETATION INCLUDING MOWING, FERTILIZING, WEED, DISEASE AND INSECT CONTROL, AND WATERING AS NECESSARY, UNTIL FINAL ACCEPTANCE BY THE AUTHORITY HAVING JURISDICTION.
3. UNLESS OTHERWISE INDICATED, PERMANENT SEED SHALL BE IN ACCORDANCE WITH SECTION 1.4 OF THE SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION FOR SEEDING (SDOT DESIGNATION: SC-M-810-4). SEED SPECIES AND APPLICATION RATE SHALL BE AS INDICATED FOR THE PROJECT LOCATIONS. SOIL TYPE, AND DATE OF INSTALLATION (SEE CHARTS).

PERMITTING NOTES

1. THESE PLANS HAVE BEEN PREPARED TO MEET THE INITIAL REQUIREMENTS OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR COVERAGE UNDER THE SOUTH CAROLINA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES (SCR100000). THE OWNER AND CONTRACTOR(S) ARE ADVISED THAT ADDITIONAL REQUIREMENTS, WHICH ARE BEYOND THE SCOPE OF THESE PLANS, MUST BE MET IN ORDER TO ASSURE CONTINUED COVERAGE UNDER THE NPDES GENERAL PERMIT.
2. COVERAGE UNDER THE NPDES IS INITIATED BY THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC) APPROVAL OF THE PROJECT FOR CONSTRUCTION. THE OWNER'S SUBMITTAL OF A NOTICE OF INTENT (NOI) SERVES AS THE OWNER'S CERTIFICATION THAT HE HAS PREPARED, AND WILL IMPLEMENT AND MAINTAIN, A SWPPP THROUGHOUT THE CONSTRUCTION PERIOD. FURTHERMORE, IT CERTIFIES THAT HE WILL DOCUMENT AND WHERE REQUIRED, REPORT SITE CONDITIONS, REMEDIAL EFFORTS, SWPPP MODIFICATIONS, AND OTHER STORMWATER RELATED ACTIVITIES IN ACCORDANCE WITH NPDES REQUIREMENTS. COVERAGE UNDER THE NPDES IS TERMINATED UPON THE OWNER'S SUBMITTAL OF A NOTICE OF TERMINATION (NOT) WHEN SCDHEC APPROVAL OF THE COMPLETED PROJECT HAS BEEN RECEIVED.
3. THE OWNER IS ADVISED THAT DAVIS & FLOYD'S SCOPE OF SERVICES DOES NOT NECESSARILY INCLUDE EFFORTS TO DOCUMENT AND REPORT ACTIVITIES IN ACCORDANCE WITH NPDES REQUIREMENTS. WHILE DAVIS & FLOYD CAN PERFORM THESE SERVICES UPON REQUEST, THEY CAN ALSO BE PROVIDED BY THIRD PARTY FIRMS WHO SPECIALIZE IN DOCUMENTATION AND REPORTING OF NPDES RELATED ACTIVITIES. REGARDLESS, THESE ACTIVITIES MUST BE ACCOMPLISHED, DOCUMENTED, AND WHERE REQUIRED, REPORTED THROUGHOUT THE CONSTRUCTION PERIOD IN ORDER TO AVOID AN NPDES VIOLATION.
4. ADDITIONAL PARTIES WHO ARE ASSOCIATED WITH LAND DISTURBING ACTIVITIES FOR A PROJECT THAT HAS RECEIVED NPDES COVERAGE MAY SHARE RESPONSIBILITY FOR COMPLIANCE UNDER THE NPDES CO-PERMITTEE REGULATIONS. IN ADDITION, PARTIES WHO ARE ASSOCIATED WITH LAND DISTURBANCES THAT ARE PART OF A "LARGER COMMON PLAN" (LCP) THAT HAS RECEIVED NPDES COVERAGE MAY ALSO SHARE RESPONSIBILITY FOR COMPLIANCE UNDER THE NPDES CO-PERMITTEE REGULATIONS. ALL PARTIES ASSOCIATED WITH ANY CONSTRUCTION ACTIVITIES ARE ADVISED TO CLARIFY THEIR RESPONSIBILITIES WITH REGARD TO COMPLIANCE WITH THE REQUIREMENTS OF THE NPDES.

SWPPP INSPECTIONS AND DOCUMENTATION

1. SWPPP INSPECTOR'S RESPONSIBILITIES:
   A. THE SWPPP INSPECTOR SHALL HAVE A CURRENT CEPSCI CERTIFICATION AND/OR BE A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF SOUTH CAROLINA.
   B. THE SWPPP INSPECTOR SHALL ACQUIRE AND MAINTAIN A COPY OF THE APPROVED C-SWPPP MANUAL, APPROVED PERMITS, AND APPROVED PLANS FROM THE SWPPP DESIGNER. THE C-SWPPP WILL THEN BECOME THE OS-SWPPP MANUAL.
   C. THE SWPPP INSPECTOR SHALL PERFORM SWPPP INSPECTIONS AT LEAST ONCE EACH CALENDAR WEEK AND AFTER STORM EVENTS, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS.
   D. THE SWPPP INSPECTOR SHALL PROVIDE THE SWPPP INSPECTION REPORT, PHOTOS, AND OTHER DOCUMENTATION TO BE KEPT ONSITE. THE SITE CONTRACTOR SHALL PROVIDE A LOCATION TO STORE AND MAINTAIN THE SWPPP DOCUMENTS ONSITE (SEE CONTRACTOR'S RESPONSIBILITIES BELOW).
   E. IN THE EVENT THE SWPPP DOCUMENTATION CANNOT BE KEPT AND MAINTAINED AT THE PROJECT SITE, THE SWPPP INSPECTOR SHALL PROVIDE A LAMINATED PLACARD ONSITE DENOTING WHERE A COPY OF THE APPROVED PLANS AND SWPPP DOCUMENTS CAN BE ACQUIRED WITHIN 30 MINUTES NOTICE AT THE REQUEST OF THE AGENCY INSPECTOR. THE PLACARD SHALL PROVIDE THE SWPPP INSPECTOR'S PRINTED NAME, PHONE NUMBER, EMAIL ADDRESS, AND PHYSICAL ADDRESS OF THE LOCATION OF THE SWPPP DOCUMENTS. THE PLACARD SHALL ALSO PROVIDE AN ALTERNATE PHONE NUMBER AND CONTACT NAME IN THE EVENT THE SWPPP INSPECTOR IS UNAVAILABLE.
   F. THE SWPPP INSPECTOR SHALL EMAIL COPIES OF EACH INSPECTION TO THE DESIGN ENGINEER, SWPPP DESIGNER (IF DIFFERENT THAN THE DESIGN ENGINEER), AND THE SITE CONTRACTOR WITHIN THREE (3) DAYS AFTER THE INSPECTION. ONE COPY OF THE INSPECTION DOCUMENTS SHALL



"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."

CHRISTOPHER A. BATES

Know what's below. Call before you dig.

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

SCALE: 1" = 30'

SOUTH CAROLINA — NOT VALID WITHOUT ORIGINAL SEAL — DAVIS & FLOYD, INC — NO. C00538 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — NO. 28606 — REGISTERED — CHRISTOPHER A. BATES

DAVIS & FLOYD
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843-7423105

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: SWPPP

NO.	RELEASED	CHECKED	DATE

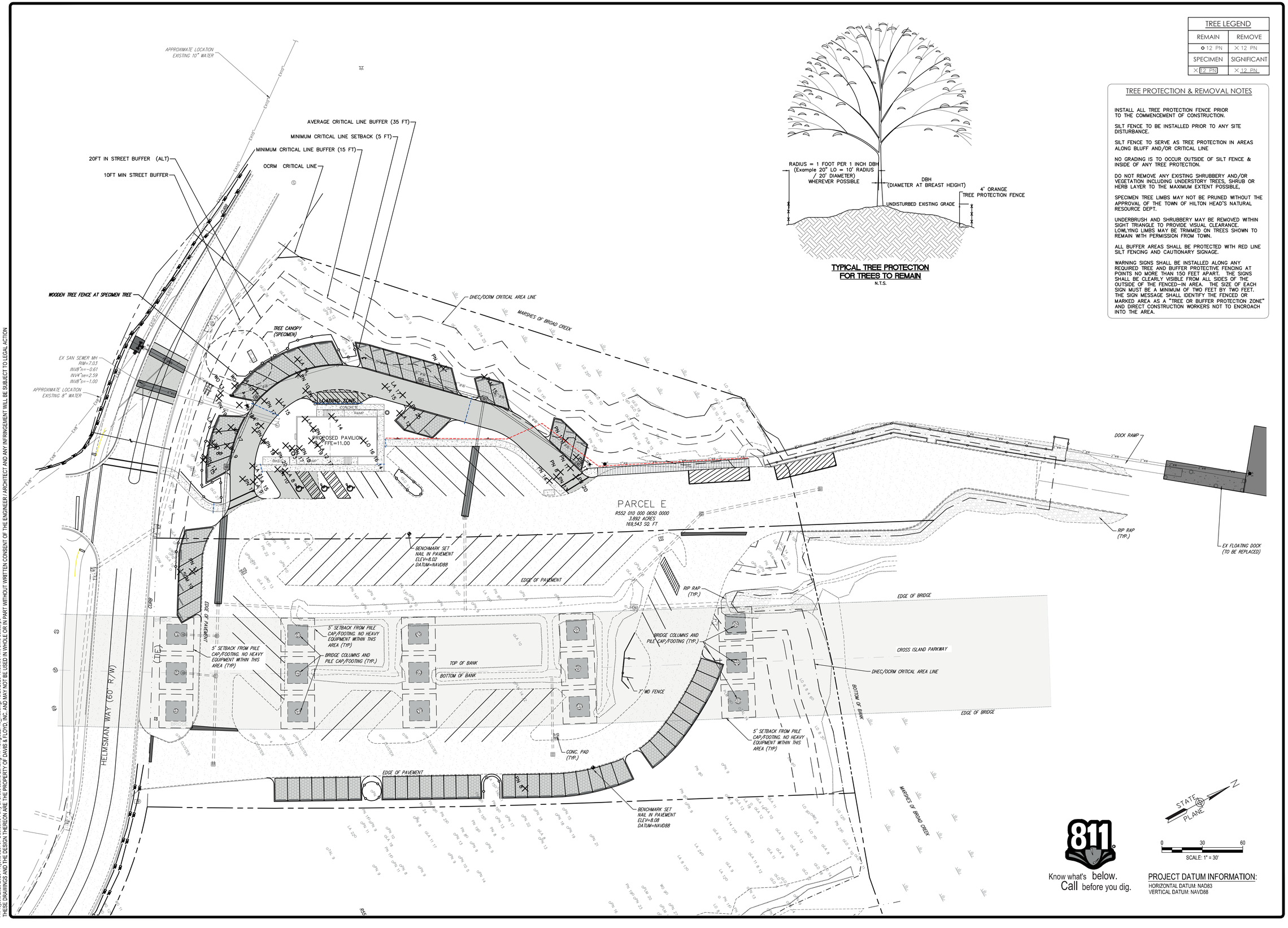
DESIGN 23214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

C501

PAGE 8 OF 17

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\c22746_mst.dwg, 10/20/2023 10:33:49 AM, chris bates, pe
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TYPICAL TREE PROTECTION FOR TREES TO REMAIN
N.T.S.

TREE LEGEND	
REMAIN	REMOVE
○ 12" PN	✕ 12" PN
SPECIMEN	SIGNIFICANT
✕ 12" PN	✕ 12" PN

TREE PROTECTION & REMOVAL NOTES

INSTALL ALL TREE PROTECTION FENCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

SILT FENCE TO BE INSTALLED PRIOR TO ANY SITE DISTURBANCE.

SILT FENCE TO SERVE AS TREE PROTECTION IN AREAS ALONG BLUFF AND/OR CRITICAL LINE

NO GRADING IS TO OCCUR OUTSIDE OF SILT FENCE & INSIDE OF ANY TREE PROTECTION.

DO NOT REMOVE ANY EXISTING SHRUBBERY AND/OR VEGETATION INCLUDING UNDERSTORY TREES, SHRUB OR HERB LAYER TO THE MAXIMUM EXTENT POSSIBLE.

SPECIMEN TREE LIMBS MAY NOT BE PRUNED WITHOUT THE APPROVAL OF THE TOWN OF HILTON HEAD'S NATURAL RESOURCE DEPT.

UNDERBRUSH AND SHRUBBERY MAY BE REMOVED WITHIN SIGHT TRIANGLE TO PROVIDE VISUAL CLEARANCE. LOWLYING LIMBS MAY BE TRIMMED ON TREES SHOWN TO REMAIN WITH PERMISSION FROM TOWN.

ALL BUFFER AREAS SHALL BE PROTECTED WITH RED LINE SILT FENCING AND CAUTIONARY SIGNAGE.

WARNING SIGNS SHALL BE INSTALLED ALONG ANY REQUIRED TREE AND BUFFER PROTECTIVE FENCING AT POINTS NO MORE THAN 150 FEET APART. THE SIGNS SHALL BE CLEARLY VISIBLE FROM ALL SIDES OF THE OUTSIDE OF THE FENCED--IN AREA. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF TWO FEET BY TWO FEET. THE SIGN MESSAGE SHALL IDENTIFY THE FENCED OR MARKED AREA AS A "TREE OR BUFFER PROTECTION ZONE" AND DIRECT CONSTRUCTION WORKERS NOT TO ENCROACH INTO THE AREA.

Know what's below. Call before you dig.

STATE PLANE

0 30 60
SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

SOUTH CAROLINA — DAVIS & FLOYD, INC — NO. C005538 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — NO. 28606 — REGISTERED — CHRISTOPHER A. BATES

DAVIS & FLOYD
SINCE 1854
WWW.DAVISFLOYD.COM
2712 BULL STREET SUITE A
BEAUFORT, SC 29902
843-379-2222

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE FERRY AT CROSS ISLAND

DRAWING TITLE: Tree Protection and Removal Plan

NO.	RELEASED	CHECKED	DATE

DESIGN 23214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

C600

PAGE 9 OF 17

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\L22746_mst.dwg, 10/20/2023 10:33:56 AM, chris bates, pe
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APPROXIMATE LOCATION EXISTING 10" WATER

EX.

AVERAGE CRITICAL LINE BUFFER (35 FT)

MINIMUM CRITICAL LINE SETBACK (5 FT)

MINIMUM CRITICAL LINE BUFFER (15 FT)

OCRM CRITICAL LINE

20FT IN STREET BUFFER (ALT)

10FT MIN STREET BUFFER

DHEC/OCRM CRITICAL AREA LINE

MARSHES OF BROAD CREEK

TREE CANOPY (SPECIMEN)

EX. SAN. SEWER MH
RIM=7.03
INV8"se=-0.61
INV4"se=2.59
INV8"sw=-1.00

APPROXIMATE LOCATION EXISTING 8" WATER

LOADING ZONE

CONCRETE RAMP

PROPOSED PAVILION
FFE=11.00

BIKES

RAMP

DOCK RAMP

RIP RAP (TYP.)

EX FLOATING DOCK (TO BE REPLACED)

PARCEL E
R552 010 000 0650 0000
3.892 ACRES
169,543 SQ. FT

BENCHMARK SET
NAIL IN PAVEMENT
ELEV=8.02
DATUM=NAVD88

EDGE OF PAVEMENT

CURB

EDGE OF PAVEMENT

HELMSMAN WAY (60' R/W)

5' SETBACK FROM PILE CAP/FOOTING, NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

BRIDGE COLUMNS AND PILE CAP/FOOTING (TYP.)

TOP OF BANK

BOTTOM OF BANK

7' WD FENCE

CONC. PAD (TYP.)

EDGE OF BRIDGE

CROSS ISLAND PARKWAY

DHEC/OCRM CRITICAL AREA LINE

BOTTOM OF BANK

EDGE OF BRIDGE

5' SETBACK FROM PILE CAP/FOOTING, NO HEAVY EQUIPMENT WITHIN THIS AREA (TYP)

MARSHES OF BROAD CREEK

BENCHMARK SET
NAIL IN PAVEMENT
ELEV=8.08
DATUM=NAVD88

CONDUIT LEGEND

4" IRRIGATION CONDUIT

4" ELECTRICAL CONDUIT

Know what's below.
Call before you dig.

STATE PLANE

0 30 60
SCALE: 1" = 30'

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

SOUTH CAROLINA
DAVIS & FLOYD, INC
NO. C005538
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
NO. 28606
CHRISTOPHER A. BATES

DAVIS & FLOYD
SINCE 1854
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9105

OWNER
BEAUFORT COUNTY

PROJECT TITLE
DAUFUSKIE ISLAND AT CROSS ISLAND

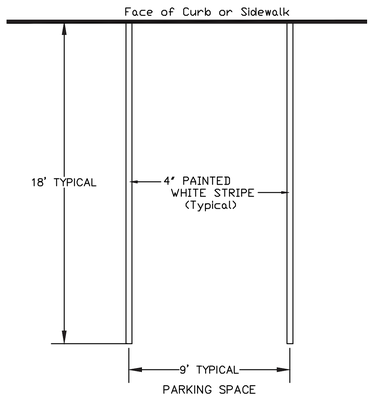
DRAWING TITLE
Conduit Plan

NO.	RELEASED	CHECKED	DATE

JOB NO. 023114100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

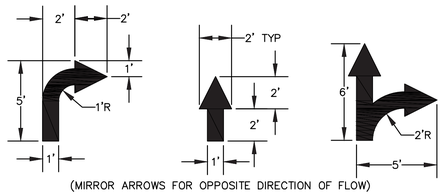
C700

PAGE 10 OF 17



Detail–TYPICAL PARKING SPACE STRIPING

N.T.S.



(MIRROR ARROWS FOR OPPOSITE DIRECTION OF FLOW)

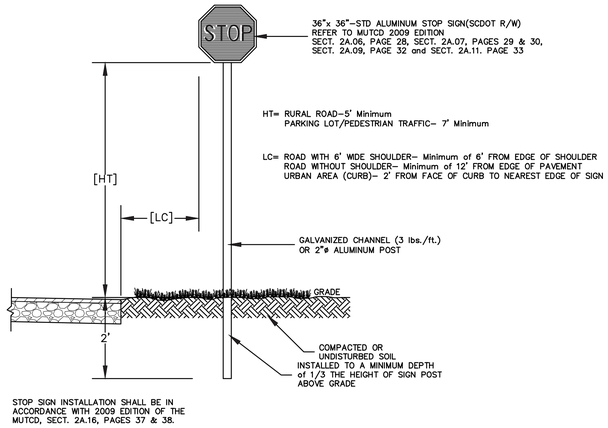
NOTE:

ALL ARROWS, PAVEMENT WORDS & SYMBOL MARKINGS SHALL BE AS INDICATED ON THE PLANS AND INSTALLED IN ACCORDANCE WITH SECT. 3B.20 PAGES 387–393 of the 2009 MUTCD, OR MOST CURRENT EDITION IN EFFECT. UNLESS OTHERWISE DIRECTED.

ALL ARROWS, PAVEMENT WORDS, SYMBOLS AND STRIPING NOT IN R/W SHALL BE TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT. PER SCDOT STD SPEC 2007 EDITION, SEC 625

ALL ARROWS, PAVEMENT WORDS, SYMBOLS AND STRIPING IN SCDOT, CITY OR COUNTY R/W SHALL BE TO BE SOLID WHITE THERMOPLASTIC MARKINGS. PER SCDOT STD SPEC 2007 EDITION, SEC 627, UNLESS OTHERWISE DIRECTED.

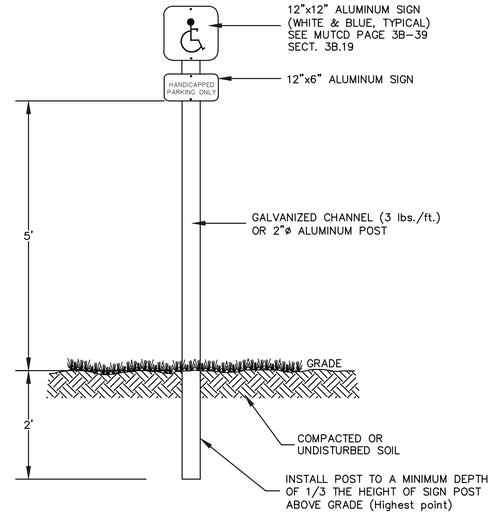
DIRECTIONAL ARROW STRIPE DETAIL



STOP SIGN INSTALLATION SHALL BE IN ACCORDANCE WITH 2009 EDITION OF THE MUTCD, SECT. 2A.16, PAGES 37 & 38.

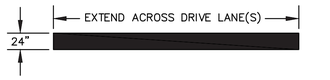
DETAIL–TYPICAL STOP SIGN

N.T.S



HANDICAPPED PARKING SIGN

N.T.S



NOTE: ALL STOP BARS ARE TO BE SOLID WHITE LINES EXTENDING ACROSS THE LANE(S) AND INSTALLED IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD SECT. 3B.16, PAGE 381.

ALL CROSSWALKS SHALL BE AS INSTALLED AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH SECT. 3B.18, PAGE 383 OF THE 2009 MUTCD, OR MOST CURRENT EDITION, UNLESS OTHERWISE DIRECTED.

STOP BAR DETAIL

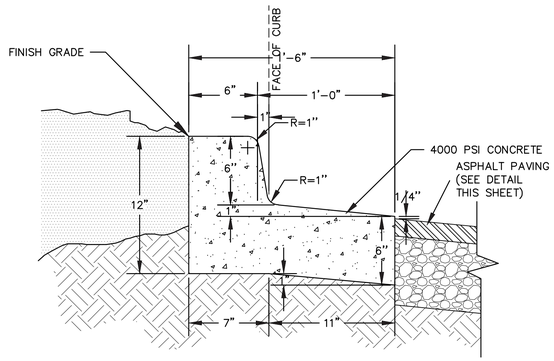
N.T.S.

NOTE: CONTRACTION JOINTS SHALL BE PLACED AT NO MORE THAN 5' AND EXPANSION JOINTS SHALL BE PLACED AT NO MORE THAN 20' IN SIDEWALK

DETAIL 6" STANDING CURB

N.T.S.

SECTION OF HANDICAP RAMP

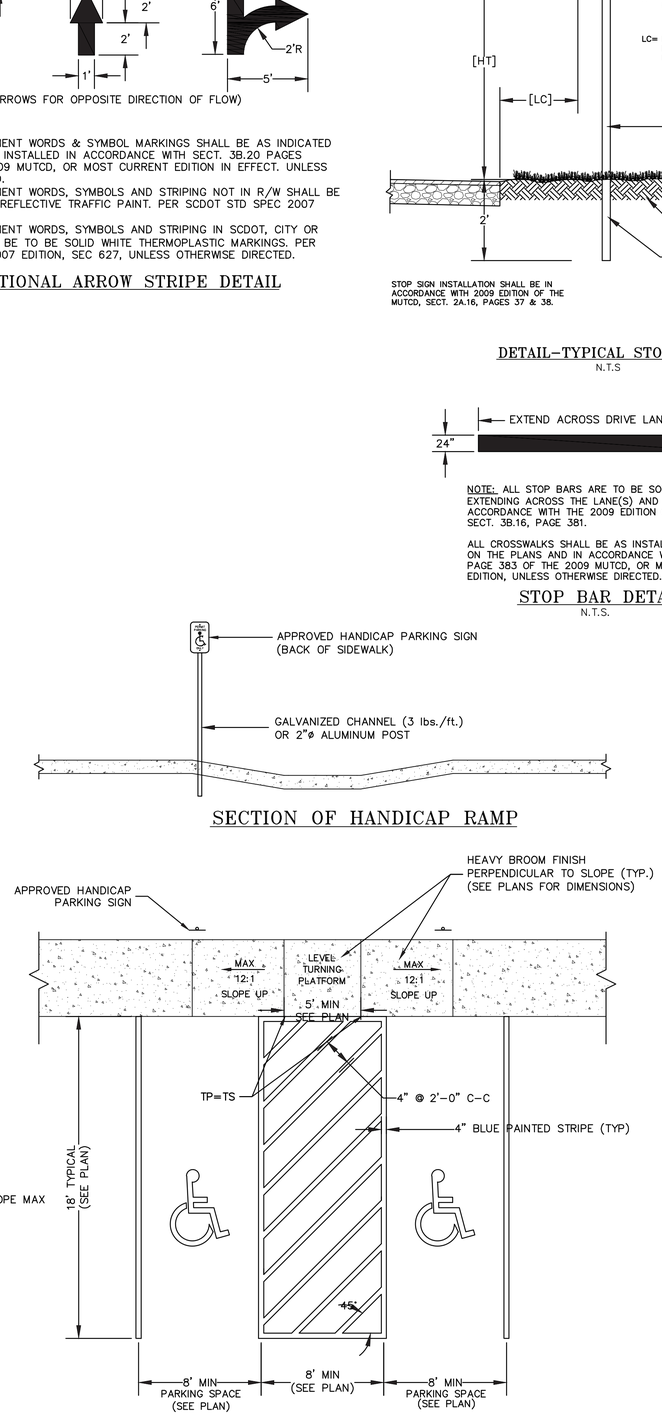


TYPICAL CROSS SECTION 1'–6'' CURB & GUTTER (PITCHED)

N.T.S.

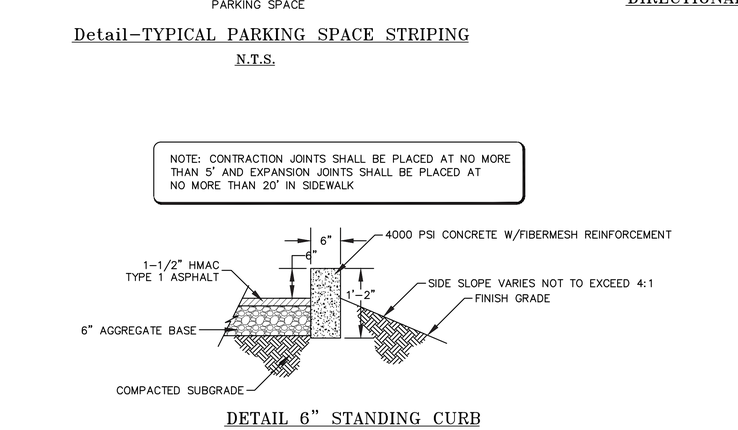
TYPICAL FLUSH SIDEWALK DETAIL @ EAST END OF BUILDING

N.T.S



HANDICAP PARKING DETAIL

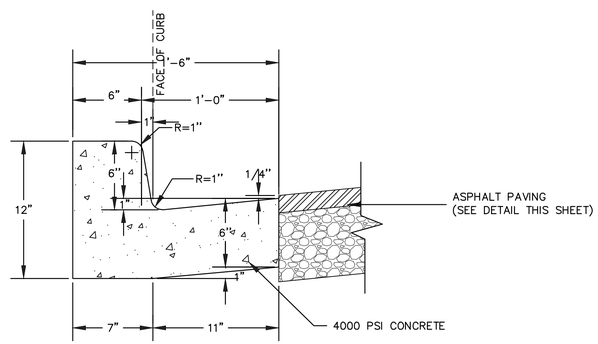
N.T.S.



Know what's below. Call before you dig.

Typical–PAVEMENT & SIDEWALK DETAIL @ RETAIL ENTRY

N.T.S



TYPICAL CROSS SECTION 1'–6'' CURB & GUTTER

N.T.S.

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SOUTH CAROLINA DAVIS & FLOYD, INC NO. COA538 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA PROFESSIONAL ENGINEER REGISTERED NO. 28606 CHRISTOPHER A. BATES
DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9135

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

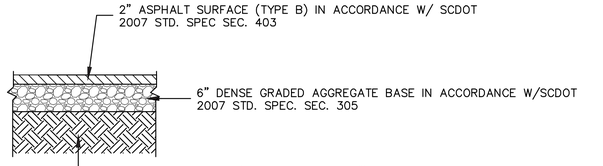
DRAWING TITLE: Site Details 1

NO.	RELEASED	CHECKED	DATE

JOB NO. 03214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

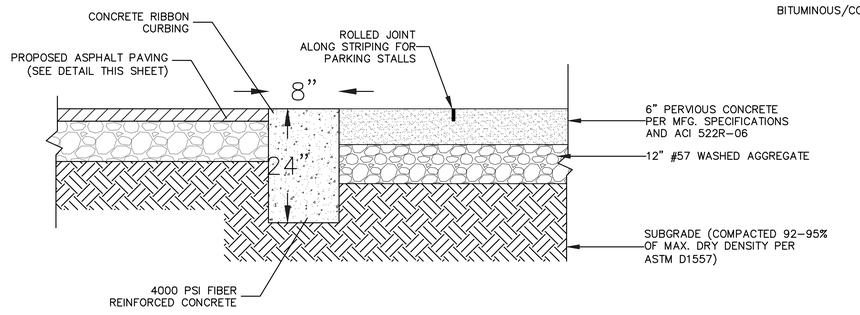
C820

PAGE 11 OF 17



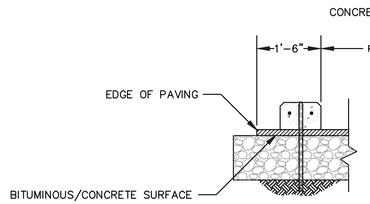
MEDIUM DUTY ASPHALT PAVING DETAIL

N.T.S



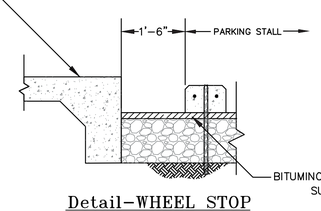
TYPICAL SECTION
PERVIOUS CONCRETE PAVING & RIBBON CURB

N.T.S



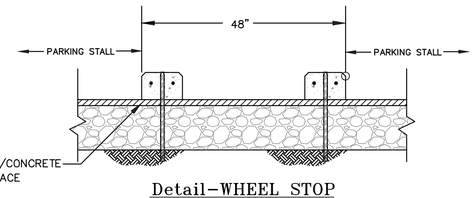
SECTION A-A

N.T.S



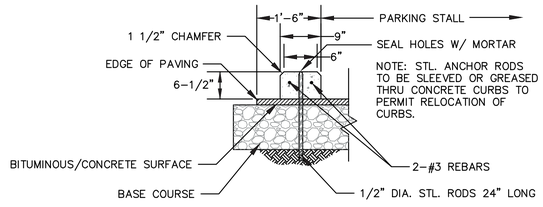
Detail-WHEEL STOP
at
SIDEWALK/CURB

N.T.S



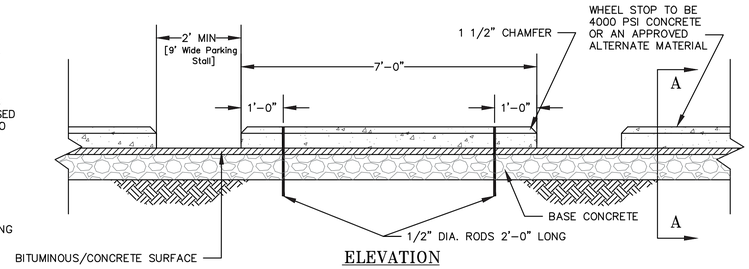
Detail-WHEEL STOP
at
HEAD to HEAD PARKING STALLS

N.T.S



SECTION A-A

N.T.S



ELEVATION

Typical-PRECAST CONCRETE WHEEL STOP DETAILS

N.T.S

811
Know what's below.
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SOUTH CAROLINA DAVIS & FLOYD, INC NO. C005338 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 28606 CHRISTOPHER A. BATES
DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
2710 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9155

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

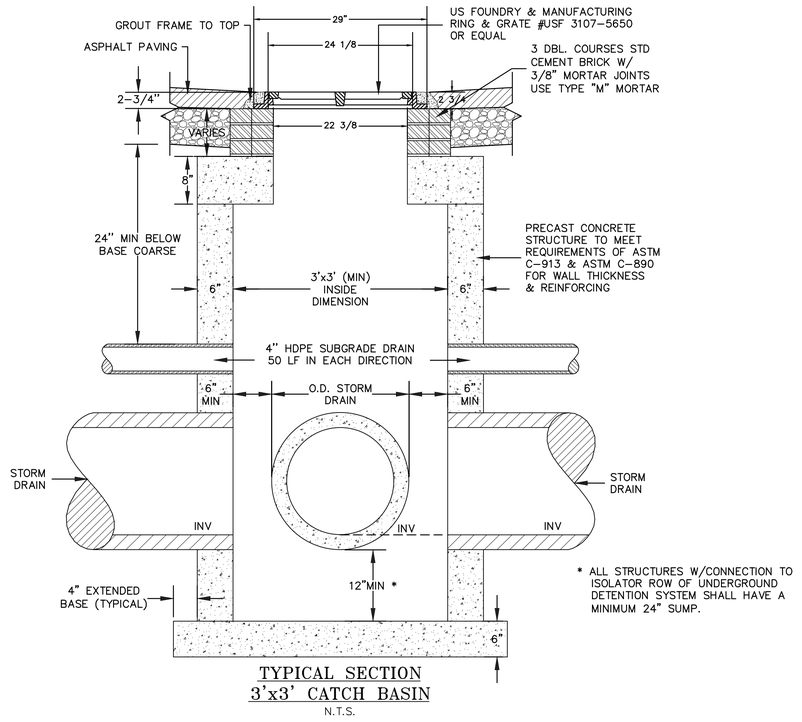
DRAWING TITLE: Site Details 2

NO.	RELEASED	CHECKED	DATE

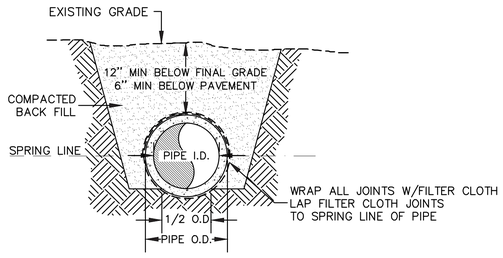
JOB NO. J23214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

C821

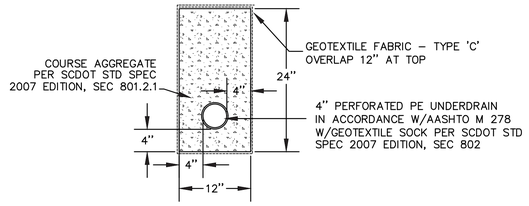
PAGE 12 OF 17



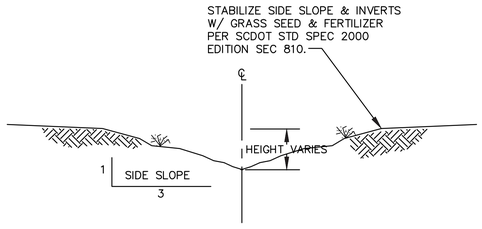
TYPICAL SECTION
3'x3' CATCH BASIN
N.T.S.



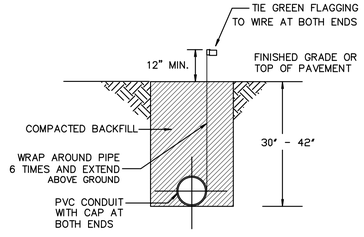
TYPICAL STORM SEWER
PIPE BEDDING DETAIL
N.T.S.



TYPICAL SUBGRADE
DRAIN DETAIL
N.T.S.



TYPICAL SECTION
GRASS SWALE
N.T.S



CONDUIT DETAIL
N.T.S.

811
Know what's below.
Call before you dig.

F:\Projects\2023\2023 Projects\J23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\J23707_det.dwg, 10/20/2023 10:33:58 AM, chris.tates, pe
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SOUTH CAROLINA PROFESSIONAL ENGINEER CHRISTOPHER A. TATES NO. 28606 REGISTERED

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
13
BEAUFORT, SC 29902
843-379-2222

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE FERRY AT CROSS ISLAND

DRAWING TITLE: Drainage Details

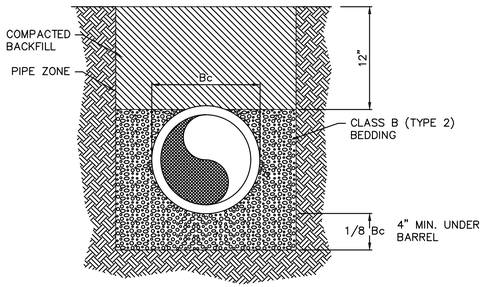
NO.	REVISIONS	DATE	CHECKED

JOB NO. J23214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

C830

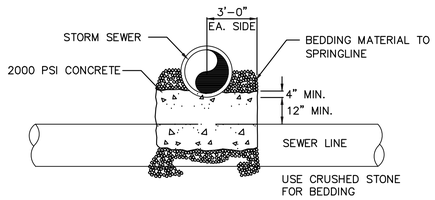
PAGE 13 OF 17

R. p. 1676



BEDDING FOR PVC GRAVITY SEWER PIPE

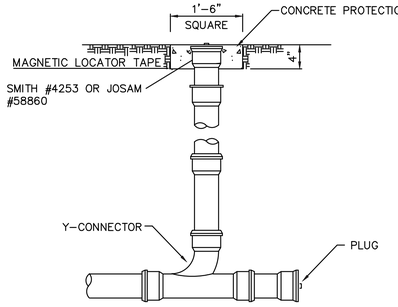
NOT TO SCALE



STORM SEWER CROSSING DETAIL

NOT TO SCALE

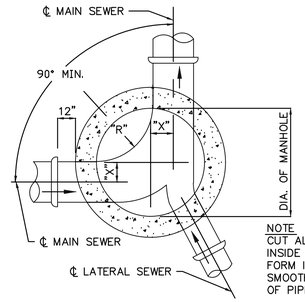
NOTE:
FULL JOINT OF DUCTILE IRON PIPE, CENTERED AT CROSSING



CLEANOUT DETAIL

NOT TO SCALE

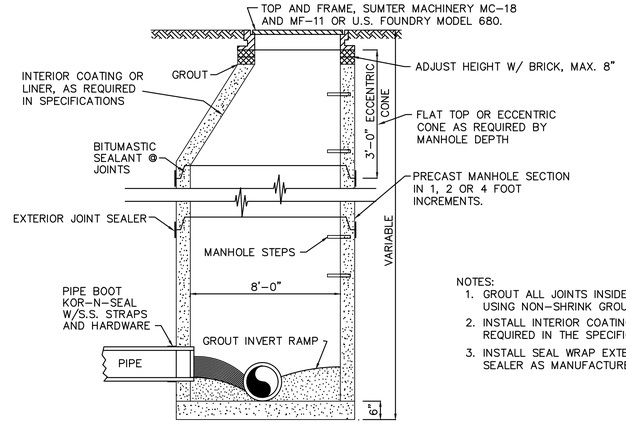
NOTES:
1. THE CLEANOUT SHOULD BE THE SAME SIZE DIAMETER AS THE LINE THAT IT IS INSTALLED ON.
2. CLEANOUT SHOULD CONSIST OF A PLUG SUITABLE FOR AIR TEST.



NOTE
CUT ALL PIPE FLUSH WITH INSIDE WALL OF MANHOLE FORM INVERT UNIFORM AND SMOOTH. CUT OFF TOP HALF OF PIPE AT WALL.

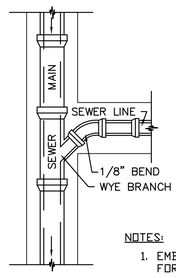
STANDARD MANHOLES
SCHEDULE OF GOVERNING DIMENSIONS

PIPE SIZE	ANGLE △	MANHOLE DIAMETER	"R"	"X"
8" TO 15"	0° TO 90°	4'-0"	2'-0"	0"
18" TO 30"	0° TO 90°	5'-0"	2'-0"	6"
36" TO 42"	0° TO 60°	6'-0"	3'-0"	9"
36" TO 42"	60° TO 90°	6'-0	3'-0"	1'-2"
48" OR LARGER	0° TO 45°	7'-0	4'-0"	6"
48" OR LARGER	45° TO 90°	8'-0	3'-0"	1'-3"



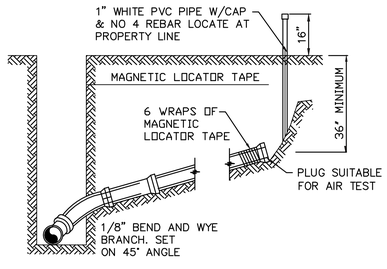
SECTION

NOTES:
1. GROUT ALL JOINTS INSIDE AND OUTSIDE USING NON-SHRINK GROUT.
2. INSTALL INTERIOR COATING OR LINER AS REQUIRED IN THE SPECIFICATIONS.
3. INSTALL SEAL WRAP EXTERIOR JOINT SEALER AS MANUFACTURED BY MAR-MAC.



PLAN

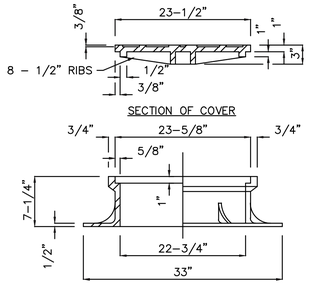
NOTES:
1. EMBEDMENT SAME AS FOR SEWER LINE.
2. SERVICE LINE SHALL BE ON SUCH A GRADE THAT WILL PERMIT SERVICING OF PROPERTY. MINIMUM GRADE SHALL BE 1.0%. MAXIMUM GRADE SHALL BE 50%
3. NO VERTICAL STACKING WILL BE ALLOWED.



SECTION

SEWER SERVICE CONNECTION DETAIL

NOT TO SCALE



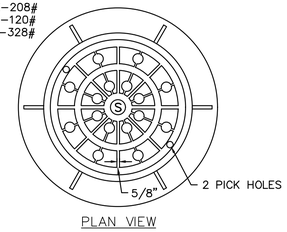
HALF SECTION FRAME HALF ELEVATION FRAME

NOTES:
1. AS MANUFACTURED BY SUMTER MACHINERY CO. NOS. TOP MC-18 & FRAME MF-11 OR U.S. FOUNDRY MODEL 680. PROVIDE WITH 2 COATS OF BITUMASTIC PAINT.
2. MACHINED BEARING SURFACES BETWEEN COVER AND FRAME.

STANDARD FRAME & COVER

NOT TO SCALE

APPROX. WTS
FRAME-208#
COVER-120#
TOTAL-328#



PLAN VIEW

811 Know what's below. Call before you dig.

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\23707_det.dwg, 10/20/2023 10:33:59 AM, chris bates, pw
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SOUTH CAROLINA NOTICE OF AUTHORIZATION DAVIS & FLOYD, INC NO. C005538 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA PROFESSIONAL ENGINEER REGISTERED NO. 28606 CHRISTOPHER A. BATES
DAVIS & FLOYD SINCE 1854 WWW.DAVISFLOYD.COM 2712 BULL STREET SUITE A BEAUFORT, SC 29902 843-743-9105

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Sanitary Sewer Details

NO.	RELEASED	CHECKED	DATE

PROJECT NO. 03214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

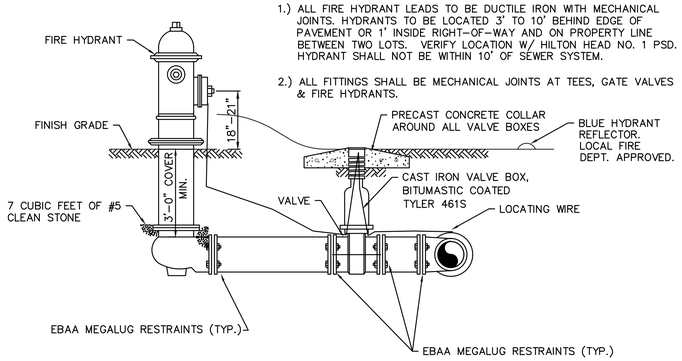
C840

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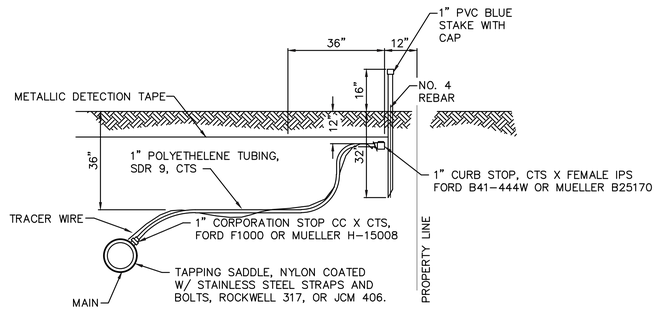
NOTE:
1.) ALL FIRE HYDRANT LEADS TO BE DUCTILE IRON WITH MECHANICAL JOINTS. HYDRANTS TO BE LOCATED 3' TO 10' BEHIND EDGE OF PAVEMENT OR 1' INSIDE RIGHT-OF-WAY AND ON PROPERTY LINE BETWEEN TWO LOTS. VERIFY LOCATION W/ HILTON HEAD NO. 1 PSD. HYDRANT SHALL NOT BE WITHIN 10' OF SEWER SYSTEM.

2.) ALL FITTINGS SHALL BE MECHANICAL JOINTS AT TEES, GATE VALVES & FIRE HYDRANTS.



FIRE HYDRANT, VALVE & TEE SETTING

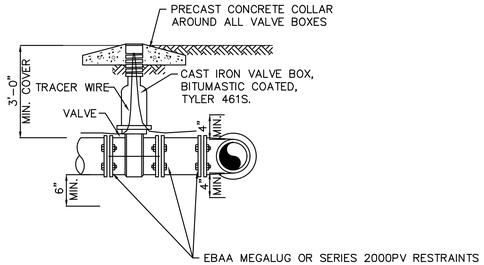
NOT TO SCALE



1" WATER SERVICE CONNECTION DETAIL

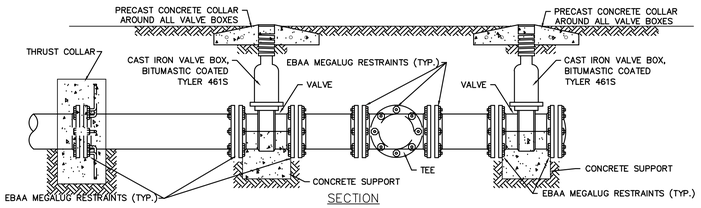
NOT TO SCALE

NOTE:
1.) ALL FITTINGS SHALL BE MECHANICAL JOINTS.
2.) TRACER WIRE SHALL BE LOOPED TO THE TOP OF THE VALVE BOX.

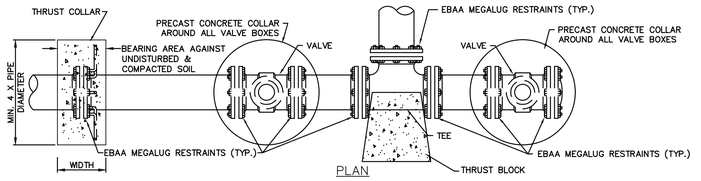


VALVE & TEE SETTING DETAIL

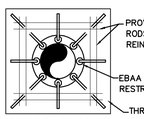
NOT TO SCALE



SECTION



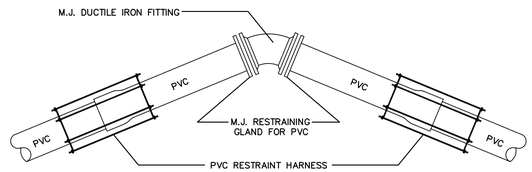
PLAN



CROSS-SECTION

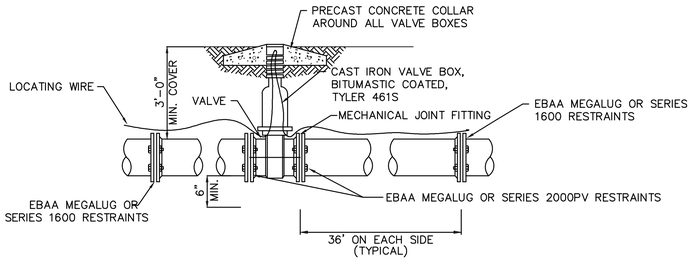
MINIMUM BLOCKING DIMENSIONS			
PIPE SIZE (inches)	BLOCKING BEARING AREA (Ft2)	BLOCKING WIDTH (inches)	# THREADED RODS
4	2	24	4
6	4	24	4
8	7	36	6
10	11	36	6
12	15	36	6
OVER 12" BY THE DESIGN ENGINEER.			

THE MINIMUM DIMENSIONS TABLE IS BASED ON AN ASSUMED SOIL BEARING OF 2000 LBS. PER SQ. FT. IF BEARING VALUE FOR SOIL IS LESS, THEN AREA SHOWN HEREIN SHOULD BE INCREASED ACCORDINGLY.



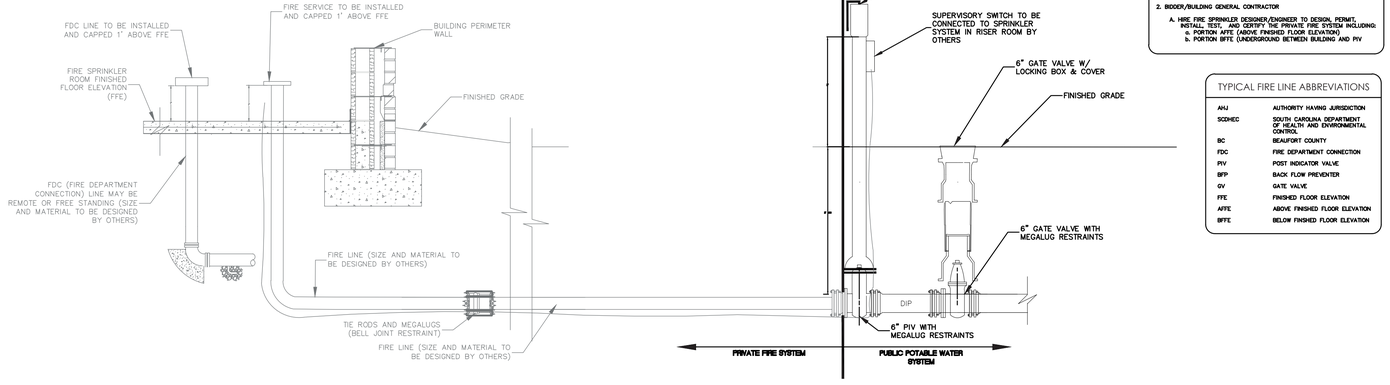
RESTRAINED JOINT FITTING DETAIL

NOT TO SCALE



GATE VALVE SETTING DETAIL

NOT TO SCALE

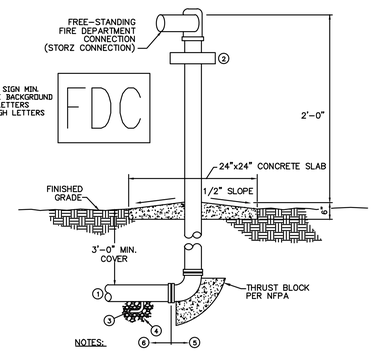


SCHEMATIC OF UNDERGROUND FIRE SPRINKLER SYSTEM
FOR INFORMATION ONLY
N.T.S.

RESPONSIBILITIES:
1. ANDREWS ENGINEERING
   A. DESIGNING AND PERMITTING THE PUBLIC POTABLE WATER SYSTEM WITH PSD.
2. BIDDER/BUILDING GENERAL CONTRACTOR
   A. HIRE FIRE SPRINKLER DESIGNER/ENGINEER TO DESIGN, PERMIT, INSTALL, TEST, AND CERTIFY THE PRIVATE FIRE SYSTEM INCLUDING:
      a. PORTION AFFE (ABOVE FINISHED FLOOR ELEVATION)
      b. PORTION BFFE (UNDERGROUND BETWEEN BUILDING AND PIV

TYPICAL FIRE LINE ABBREVIATIONS

AHJ	AUTHORITY HAVING JURISDICTION
SCDHEC	SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BC	BEAUFORT COUNTY
FDC	FIRE DEPARTMENT CONNECTION
PIV	POST INDICATOR VALVE
BFP	BACK FLOW PREVENTER
GV	GATE VALVE
FFE	FINISHED FLOOR ELEVATION
AFFE	ABOVE FINISHED FLOOR ELEVATION
BFFE	BELOW FINISHED FLOOR ELEVATION



NOTES:

1. WHERE GALVANIZED STEEL PIPE IS INSTALLED UNDERGROUND FOR FIRE DEPARTMENT CONNECTION PIPING, PIPING SHALL BE EXTERNALLY COATED AND WRAPPED INCLUDING ALL CLAMPS, TIE RODS AND BOLTED JOINT ACCESSORIES PER NFPA 13.
2. IDENTIFICATION NAME PLATE.
3. AUTOMATIC BALL DRIP DRAIN VALVE LOCATED AT LOWEST POINT IN PIPING.
4. GRAVEL DRAIN FIELD TO BE SIZED TO ADEQUATELY ACCOMMODATE DRAINAGE.
5. GALVANIZED STEEL OR DUCTILE IRON PIPE FROM THIS POINT UP TO FDC.
6. PIPING BELOW GRADE UP TO THIS POINT MAY BE GALVANIZED STEEL, DUCTILE IRON OR C900 PVC PIPE.

FREE STANDING FIRE DEPARTMENT CONNECTION DETAIL

Know what's below. Call before you dig.

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\23707_det.dwg, 10/20/2023 10:34:00 AM, chris bates, pe
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SOUTH CAROLINA — DAVIS & FLOYD, INC — NO. C005338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — NO. 28606 — REGISTERED — CHRISTOPHER A. BATES

DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
2712 BULL STREET, SUITE A
BEAUFORT, SC 29902
843-743-9155

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Waterline Details

NO.	RELEASED	CHECKED	DATE

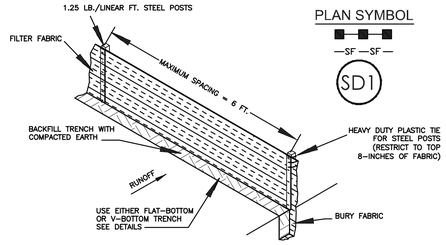
JOB NO. 03214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

C841

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SILT FENCE INSTALLATION

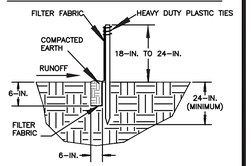


PLAN SYMBOL

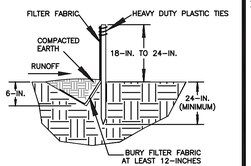
—SF—SF—

SD1

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



SILT FENCE – GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100–feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   - Wrap each fabric together at a support post with both ends fastened to the post, with a 1–foot minimum overlap;
   - Overlap silt fence by installing 3–feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy–duty plastic ties; or,
   - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy–duty plastic ties that are evenly spaced within the top 8–inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie–Backs) every 50–100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE — FEBRUARY 2014 DATE

SILT FENCE – POST REQUIREMENTS

1. Silt Fence posts must be 48–inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38–inches and a nominal "T" length of 1.48–inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17–square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24–inches. A minimum height of 1– to 2– inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6–feet on center.

SILT FENCE – FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36–inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12–inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24–inches above the ground.

SILT FENCE – INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie–backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control

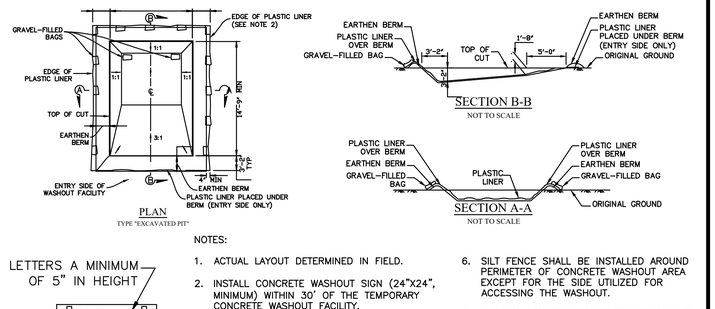
SILT FENCE

STANDARD DRAWING NO. SC-03 Page 2 of 2

GENERAL NOTES — FEBRUARY 2014 DATE

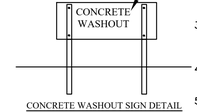
1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
   - Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
   - Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.
3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately or incorrectly installed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.
5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.
8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
11. A copy of the OS-SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
13. Minimize soil compaction and, unless infeasible, preserve topsoil.
14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
16. The following discharges from sites are prohibited:
    - Wastewater from washout of concrete, unless managed by an appropriate control;
    - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
    - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
    - Soaps or solvents used in vehicle and equipment washing.
17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the OS-SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

EXCAVATED PIT CONCRETE WASHOUT



NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.



CONCRETE WASHOUT SIGN DETAIL

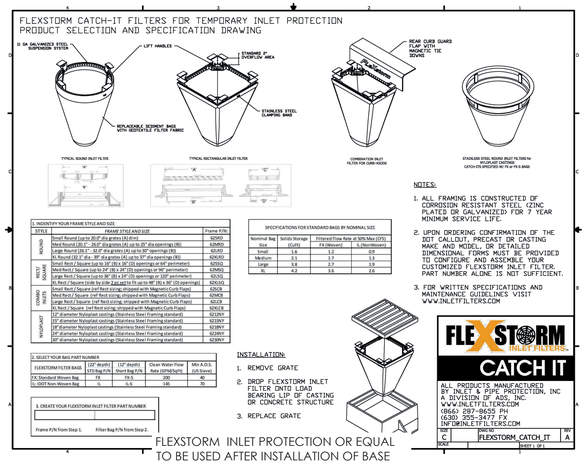
South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT

EXCAVATED PIT

STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE — FEBRUARY 2014 DATE

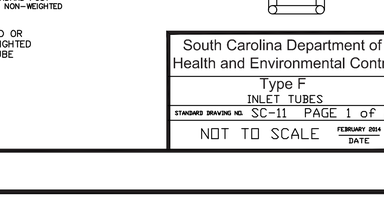


FLEXSTORM INLET PROTECTION OR EQUAL TO BE USED AFTER INSTALLATION OF BASE MATERIAL AND TO REMAIN UNTIL SITE IS STABILIZED. SHOULD BE USED IN PLACE OF TYPE A INLET PROTECTION IN PAVED AREAS.

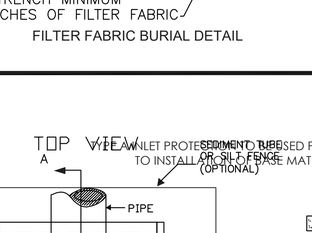
POST INSTALLATION DETAIL



FILTER FABRIC INSTALLATION DETAIL



FILTER FABRIC BURIAL DETAIL



PLAN SYMBOL

A

South Carolina Department of Health and Environmental Control

Type A

FILTER FABIC INLET PROTECTION

STANDARD DRAWING NO. SC-07 PAGE 1 of 2

NOT TO SCALE — FEBRUARY 2014 DATE

TYPE A – FILTER FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36–inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12–inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24–inches above the ground.

TYPE A – POST REQUIREMENTS

1. Silt Fence posts must be 48–inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38–inches and a nominal "T" length of 1.48–inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Install posts to a minimum of 24–inches. A minimum height of 1– to 2– inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
4. Post spacing shall be at a maximum of 3–feet on center.

TYPE A – INSPECTION & MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the sump.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overtopping the inlet protection.
7. Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new filter fabric immediately.
8. Inlet protection structures should be removed after all the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

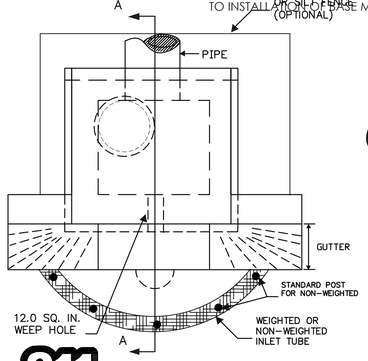
Type A

FILTER FABIC INLET PROTECTION

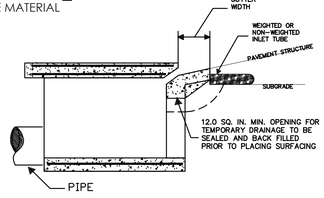
STANDARD DRAWING NO. SC-07 PAGE 2 of 2

GENERAL NOTES — FEBRUARY 2014 DATE

TOP VIEW



SECTION A–A



PLAN SYMBOL

F

South Carolina Department of Health and Environmental Control

Type F

INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 1 of 2

NOT TO SCALE — FEBRUARY 2014 DATE

TYPE F – INLET TUBES INLET PROTECTION

GENERAL NOTES

1. Inlets tubes should be composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, a hardwood mulch, or a mix of these materials enclosed by a flexible netting material.
2. Inlets tubes should utilize an outer netting that consists of seamless, high–density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high–density polyethylene non–degradable material. Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products rolled up to create an inlet tube device are not allowed.
3. Do not use straw, straw fiber, straw bales, pine needles, or leaf mulch as fill material within inlet tubes.
4. Weighted inlet tubes must be capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.
5. Install weighted tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube. Do not stack inlet tubes. Do not completely block inlet with tube.
6. Non–weighted inlet tubes require staking or other stabilization methods to keep them safely in place.
7. Overflow or overtopping of inlet tubes must be allowed to flow into inlet unobstructed.
8. To avoid possible flooding, two or three concrete cinder blocks may be placed between the tube and the inlet.

INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall event that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. Replace inlet tube when damaged or as recommended by manufacturer's specifications.
8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type F

INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 2 of 2

GENERAL NOTES — FEBRUARY 2014 DATE

Know what's below. Call before you dig.

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\23707_det.dwg, 10/20/2023 10:34:00 AM, chris bates, pe
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DAVIS & FLOYD
SINCE 1954
WWW.DAVISFLOYD.COM
2712 BULL STREET SUITE A
BEAUFORT, SC 29902
843-712-9135

SOUTH CAROLINA PROFESSIONAL ENGINEER — DAVIS & FLOYD, INC — NO. C005538 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — NO. 28606 — CHRISTOPHER A. BATES

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Sediment and Erosion Control Details 1

NO.	REVISIONS	DATE	CHECKED

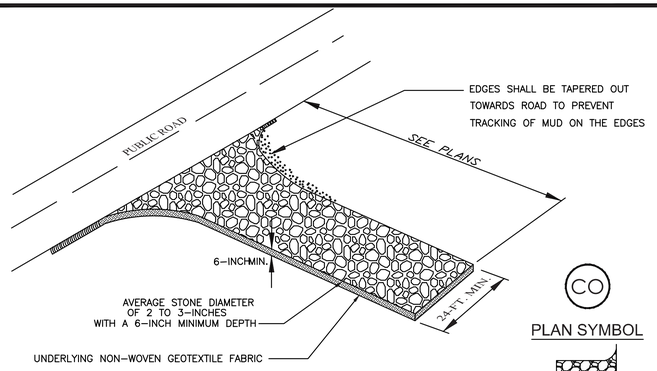
RELEASED

DATE: 03214100
DATE: October 2023
DESIGNED: CB
DRAWN: CB
CHECKED: CB
APPROVED: CB

C850

PAGE 16 OF 17

R. p. 1679



CO

PLAN SYMBOL

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

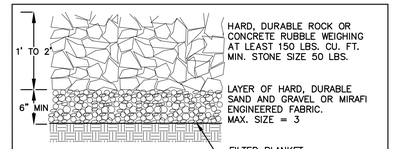
1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control

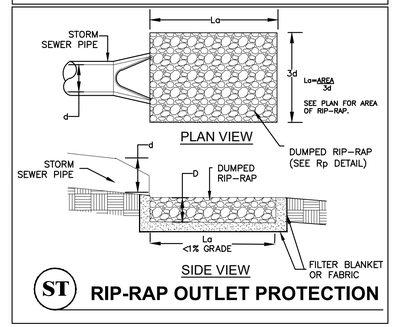
CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

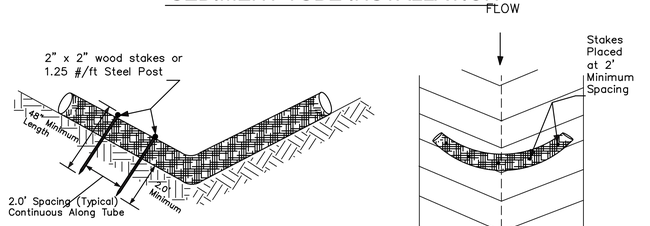


RP **DUMPED RIP-RAP**



ST **RIP-RAP OUTLET PROTECTION**

SEDIMENT TUBE INSTALLATION



ST1

PLAN SYMBOL

SEDIMENT TUBE SPACING

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
GREATER THAN 6%	25-FEET

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SEDIMENT TUBES - GENERAL NOTES

1. Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.
2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
3. The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
4. Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
6. Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
7. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
8. The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
10. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
11. Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
12. Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES - INSPECTION & MAINTENANCE

1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

TS TEMPORARY SEEDING



ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.

PS PERMANENT SEEDING



ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES,SHRUBS,VINES, GRASSES,SOD,OR LEGUMES ON DISTURBED AREAS.

VEGETATATIVE SEEDING NOTES

-TEMPORARY STABILIZATION IS REQUIRED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IS COMPLETE UNLESS CONSTRUCTION ACTIVITY IS GOING TO RESUME WITHIN 21 DAYS.

-COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER.

-WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE.

-KEEP SEEDED AREAS ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS.

-WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF.

-SEED SELECTION IS BASED ON GEOGRAPHICAL LOCATION, SOIL TYPE AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE.

Temporary Seeding – Coastal

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sandy, Droughty Sites													
Browntop Millet	40 lbs./ac.												
Rye, Grain	56 lbs./ac.												
Ryegrass	50 lbs./ac.												
Well drained, clayey/loamey Sites													
Browntop Millet or Japanese Millet	40 lbs./ac.												
Rye, Grain or Oats	56 lbs./ac. 75 lbs./ac.												
Ryegrass	50 lbs./ac.												

Permanent Seeding - Coastal

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sandy, Droughty Sites													
Browntop Millet Bahiagrass	10 lbs./ac. 40 lbs./ac.												
Browntop Millet Bahiagrass Sericea Lespedeza	10 lbs./ac. 30 lbs./ac. 40 lbs/ac.												
Browntop Millet Atlantic Coastal Panicgrass	10 lbs./ac. 15 lbs./ac. PLS												
Browntop Millet Switchgrass (Alamo) Little Bluestem Sericea Lespedeza	10 lbs./ac. 8 lbs./ac. PLS 4 lbs./ac. 20 lbs./ac.												
Browntop Millet Weeping Lovegrass	10 lbs./ac. 8 lbs./ac.												
Well drained, clayey/loamey Sites													
Browntop Millet Bahiagrass	10 lbs./ac. 40 lbs./ac.												
Rye, Grain Bahiagrass Clover, Crimson (Annual)	10 lbs./ac. 40 lbs./ac. 5 lbs./ac.												
Browntop Millet Bahiagrass Sericea lespedeza	10 lbs./ac. 30 lbs./ac. 40 lbs./ac.												
Browntop Millet Bermuda, Common Sericea lespedeza	10 lbs./ac. 10 lbs./ac. 40 lbs./ac.												
Browntop Millet Bermuda, Common Kobe Lespedeza (Annual)	10 lbs./ac. 12 lbs./ac. 10 lbs./ac.												
Browntop Millet Bahiagrass Bermuda, Common Sericea lespedeza	10 lbs./ac. 20 lbs./ac. 6 lbs./ac. 40 lbs./ac.												
Browntop Millet Switchgrass Little Bluestem Indiangrass	10 lbs./ac. 8 lbs./ac. PLS 3 lbs./ac. PLS 3 lbs./ac. PLS												

Know what's **below.** Call before you dig.

F:\Projects\2023\2023 Projects\23707 Daufuskie Ferry at Cross Island Landing Ph 1\dwg\23707_det.dwg, 10/20/2023 10:34:01 AM, chris.tates, pe
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SOUTH CAROLINA DAVIS & FLOYD, INC NO. C00538 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA PROFESSIONAL ENGINEER REGISTERED CHRISTOPHER A. TATES NO. 28606
DAVIS & FLOYD SINCE 1954 WWW.DAVISFLOYD.COM 2712 BULL STREET, SUITE A, BEAUFORT, SC 29902 843-763-9155

OWNER: BEAUFORT COUNTY

PROJECT TITLE: DAUFUSKIE ISLAND AT CROSS ISLAND

DRAWING TITLE: Sediment and Erosion Control Details 2

NO.	REVISIONS	DATE	CHECKED

JOB NO. 03214100
DATE October 2023
DESIGNED CB
DRAWN CB
CHECKED CB
APPROVED CB

C851

PAGE 17 OF 17

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	R
	MAG BLA	3	Magnolia grandiflora 'D.D. Blanchard' / D.D Blanchard Southern Magnolia	4" Cal.	B&B	F
	PIN TAE	13	Pinus taeda / Loblolly Pine	2" Cal.	30 Gal.	
	QUE VIR	8	Quercus virginiana / Southern Live Oak	4" Cal.	100 Gal.	
	SAB PAL	3	Sabal palmetto / Sabal Palm	Bare Root		S
	TAX DI2	2	Taxodium distichum / Bald Cypress	4" Cal.	B&B	

SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	R
	CAL AME	6	Callicarpa americana / American Beautyberry	3 gal.	Container	
	DIE VE2	9	Dietes vegeta / White African Iris	3 gal.	Container	
	MUH WHI	47	Muhlenbergia capillaris 'White Cloud' / White Cloud Muhly Grass	3 gal.	Container	
	PAN SHD	12	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	3 gal.	Container	
	RUD GO2	33	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower	1 gal.	Container	
	SAL BAR	7	Salvia leucantha 'Santa Barbara' / Santa Barbara Mexican Bush Sage	3 gal.	Container	
	SER CIN	30	Serenoa repens 'Cinerea' / Silver Saw Palmetto	7 gal.	Container	
	ZAM PUM	13	Zamia pumila / Coontie Cycad	3 gal.	Container	

MINIMUM CRITICAL LINE SETBACK (5 FT)
MINIMUM CRITICAL LINE BUFFER (15 FT)
OCRM CRITICAL LINE
IN STREET BUFFER (ALT)
10FT MIN STREET BUFFER
STREET BUFFER
DHEC/OCRM CRITICAL AREA LINE
MARSHES OF ROAD CREEK
4 - QUE VIR
4" Cal.
13 - PIN TAE
2" Cal.
1 - QUE VIR
4" Cal.
3 - ZAM PUM
3 gal.
1 - SAB PAL
Bare Root
3 - SAL BAR
3 gal.
LOADING ZONE
CONCRETE RAMP
4 - ZAM PUM
3 gal.
3 - CAL AME
3 gal.
1 - SAB PAL
Bare Root
3 - CAL AME
3 gal.
PROPOSED PAVILION
FFE=11.00
33 - RUD GO2
1 gal.
6 - SER CIN
7 gal.
11 - SER CIN
7 gal.
3 - DIE VE2
3 gal.
1 - SAB PAL
Bare Root
12 - PAN SHD
3 gal.
BIKE RAMP
TYPICAL 4" CONDUIT
1 - TAX DI2
4" Cal.
26 - MUH WHI
3 gal.
1 - QUE VIR
4" Cal.
3 - MAG BLA
4" Cal.
1 - QUE VIR
4" Cal.
9 - MUH WHI
3 gal.
7 - SER CIN
7 gal.
6 - DIE VE2
3 gal.
6 - ZAM PUM
3 gal.
3 - MUH WHI
3 gal.
6 - SER CIN
7 gal.
4 - SAL BAR
3 gal.
1 - TAX DI2
4" Cal.
9 - MUH WHI
3 gal.
1 - QUE VIR
4" Cal.
PARCEL E
R552 010 000 0650 0000
3.892 ACRES
169,543 SQ. FT
BENCHMARK SET
NAIL IN PAVEMENT
ELEV=8.02'
DATUM=NAVD88
EDGE OF PAVEMENT
RIP RAP
(TYP.)
North
Scale: 1"=16'-0"
16' 0' 8' 16' 32'

Landscape Plan

Daufuskie Embarkation

57 Helmsman Way
Hilton Head Island, South Carolina

the greenery, inc.®
— EMPLOYEE OWNED —
Post Office Box 6569 Hilton Head Island, SC 29938
843.785.3848 www.thegreeneryinc.com

By:Todd M. Parrott
Scale: 1"=16'-0"
Date: 10.03.2023
Revs:
Revs:
Revs:

Sht: L-1.0

R. p. 1681

AVERAGE CRITICAL LINE BUFFER (35 FT)

MINIMUM CRITICAL LINE SETBACK (5 FT)

MINIMUM CRITICAL LINE BUFFER (15 FT)

OCRM CRITICAL LINE

20FT IN STREET BUFFER (ALT)

10FT MIN STREET BUFFER

10FT MIN STREET BUFFER

FLOOD ZONE

DHEC/OCRM CRITICAL AREA LINE

MARSHES OF BROAD CREEK

EX SAN SEWER MH
RIM=7.03
INV8"n=-0.61
INV4"se=2.59
INV8"s=-1.00

APPROXIMATE LOCATION
EXISTING 8" WATER

2 - MAG BLA
4" Cal.

1 - QUE VIR
4" Cal.

5 - PIN TAE
2" Cal.

1 - QUE VIR
4" Cal.

1 - SAB PAL
Bare Root

3 - SAL BAR
3 gal.

3 - ZAM PUM
3 gal.

LOADING ZONE

1 - QUE VIR
4" Cal.

9 - MUH WHI
3 gal.

6 - SER CIN
7 gal.

7 - SER CIN
7 gal.

4 - SAL BAR
3 gal.

3 - CAL AME
3 gal.

4 - ZAM PUM
3 gal.

1 - SAB PAL
Bare Root

3 - CAL AME
3 gal.

PROPOSED PAVILION
FFE=11.00

33 - RUD GO2
1 gal.

6 - SER CIN
7 gal.

1 - TAX DI2
4" Cal.

9 - MUH WHI
3 gal.

11 - SER CIN
7 gal.

3 - DIE VE2
3 gal.

6 - DIE VE2
3 gal.

1 - SAB PAL
Bare Root

6 - ZAM PUM
3 gal.

12 - PAN SHD
3 gal.

TYPICAL 4" CONDUIT

3 - MUH WHI
3 gal.

1 - TAX DI2
4" Cal.

26 - MUH WHI
3 gal.

1 - QUE VIR
4" Cal.

PARCEL E
R552 010 000 0650 0000
3.892 ACRES
169,543 SQ. FT

BENCHMARK SET
NAIL IN PAVEMENT
ELEV=8.02
DATUM=NAVD88

EDGE OF PAVEMENT

RIP RAP
(TYP.)

CURB

EDGE

North

16' 0' 8' 16' 32'
Scale: 1"=16'-0"

Landscape Plan
Daufuskie Embarkation
57 Helmsman Way
Hilton Head Island, South Carolina

the greenery, inc.®
— EMPLOYEE OWNED —
Post Office Box 6569 Hilton Head Island, SC 29938
843.785.3848 www.thegreeneryinc.com

By:Todd M. Parrott
Scale: 1"=16'-0"
Date: 10.03.2023
Revs: 10.30.23 Tree Mitigation Requirements
Revs:
Revs:

Sht: L-1.0

R. p. 1682

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS
	MAG BLA	2	Magnolia grandiflora 'D.D. Blanchard' / D.D Blanchard Southern Magnolia	4" Cal.	B&B	Full To Ground
	PIN TAE	5	Pinus taeda / Loblolly Pine	2" Cal.	30 Gal.	
	QUE VIR	4	Quercus virginiana / Southern Live Oak	4" Cal.	100 Gal.	
	SAB PAL	3	Sabal palmetto / Sabal Palm	Bare Root		See Plan for CT Heights
	TAX DI2	2	Taxodium distichum / Bald Cypress	4" Cal.	B&B	
SHRUBS	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**SIZE**	**CONTAINER**	**REMARKS**
	CAL AME	6	Callicarpa americana / American Beautyberry	3 gal.	Container	
	DIE VE2	9	Dietes vegeta / White African Iris	3 gal.	Container	
	MUH WHI	47	Muhlenbergia capillaris 'White Cloud' / White Cloud Muhly Grass	3 gal.	Container	
	PAN SHD	12	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	3 gal.	Container	
	RUD GO2	33	Rudbeckia fulgida sullivantii 'Goldsturm' / Goldsturm Coneflower	1 gal.	Container	
	SAL BAR	7	Salvia leucantha 'Santa Barbara' / Santa Barbara Mexican Bush Sage	3 gal.	Container	
	SER CIN	30	Serenoa repens 'Cinerea' / Silver Saw Palmetto	7 gal.	Container	
	ZAM PUM	13	Zamia pumila / Coontie Cycad	3 gal.	Container	

TREE MITIGATION SCHEDULE:

Trees Removed per Category									
	Category I		Category II		Category III		Category IV		
Tree Type	**LO**	**LA**	**WO**	**SGM**	**PN**	**PLM**			
Caliper Inches	16	17	13	10	8	15			
	16	15	17		17				
	14	12	9		17				
		14	8		11				
		14			8				
		12			13				
		12			20				
		17			14				
		15			23				
		10			25				
		8			10				
		13			20				
		8			16				
		11			19				
		15			19				
		9			18				
		12			18				
		8			19				
					20				
					15				
					17				
					10				
					17				
					13				
					15				
					13				
Caliper Inches	46	222	47	10	415	15	0	0	
Total Inches Per Cat.	**268**		**57**		**430**		**0**		
Mitigation Factor	1		0.75		0.5		0.25		
Mitigation Inches	268		42.75		215		0		
Mitigation Req.: 1" per 10 caliper inches	**26.8**		**4.275**		**21.5**		**0**		

North

16' 0' 8' 16' 32'

Scale: 1"=16'-0"

Landscape Plan

Daufuskie Embarkation

57 Helmsman Way
Hilton Head Island, South Carolina

the greenery, inc.®
— EMPLOYEE OWNED —
Post Office Box 6569 Hilton Head Island, SC 29938
843.785.3848 www.thegreeneryinc.com

By:Todd M. Parrott
Scale: 1"=16'-0"
Date: 10.03.2023
Revs:10.30.23 Tree Mitigatio Chart
Revs:
Revs:

Sht: L-1.0

September 24, 2024
EXHIBIT
Hank Amundson
7

PLAN CORRECTIONS REPORT DPR-001914-2023
FOR TOWN OF HILTON HEAD ISLAND

PLAN ADDRESS: 68 Helmsman Way
Hilton Head, SC 29928

PARCEL: R552 010 000 0650 0000

APPLICATION DATE: 10/20/2023
EXPIRATION DATE:

SQUARE FEET: 0.00
VALUATION: $0.00

DESCRIPTION: PARKING AND INFRASTRUCTURE TO SUPPORT PROPOSED BUILDING FOR DAUFUSKIE FERRY EMBARKATION

CONTACTS	Name	Company	Address
Applicant	JARED FRALIX	BEAUFORT COUNTRY	
Owner		TOWN OF HILTON HEAD ISLAND	1 Town Center Court Hilton Head Island, SC 29928

Application & Plans (DPR) – Staff comments based on plans submitted 10/20/2023. Staff reviews completed TBD.

REVIEW ITEM	STATUS	REVIEWER	
Development Review & Zoning v.1	Corrections Required	Trey Lowe Ph: 843-341-4690	email: TreyL@hiltonheadislandsc.gov

1) Representatives of the Town have discussed this project with County staff and have communicated their expectation that the proposed improvements should be of a similar quality and functionality to that of the Calhoun Street Dock. Please prepare plans that are generally reflective of these expectations.

2) During the Town's Development Review Team (DRT) meeting a phasing plan was discussed between town staff and the applicant. We will need this phasing plan in writing.

3) A detailed and complete parking plan including offsite parking, shuttle service, and local parking enforcement on Hilton Head Island will be required by Town Staff to be part of phase one of your phasing plan. You will need to demonstrate how the entire parking plan will work together with known existing parking demands of the ferry service. Sufficient parking will be required before the ferry service is permitted to run.

4) As the land containing the off-site parking is not under the same ownership as land containing the principal use served, an off-site parking arrangement shall be established in accordance with LMO Section 16-5-107.H.4.d. We have noted that an agreement is under review with the SCDOT. This comment will remain until the agreement is finalized and the documentation has been submitted.

5) Provide encroachment permits or approvals from all applicable outside agencies such as DHEC, OCRM, PSD, Hargray, Palmetto Electric, any applicable private ARB, SCDOT, Beaufort County, etc. We have noted that your responses state that you will provide these as you receive them. This comment will remain until all approvals/permits are submitted.

6) LMO Section 16-5-108 – Provide a site lighting plan for any new site lighting proposed. We have noted that your responses indicate that we a site lighting plan will be provided upon receipt. This comment will remain until a site lighting plan is submitted.

7) LMO Section 16-5-102.C. – Helmsman Way is classified as an Other Street with an adjacent street setback of 20 feet. The comments state that the setbacks are shown, however we only see the setback for the OCRM critical line required buffer setback.

8) LMO Section 16-5-102.D - The adjacent use setback for the property line adjacent to 60 Helmsman Way is 20 feet. Show and label all setbacks. The comments state that the setbacks are shown, however we only see the setback for the OCRM critical line required buffer setback.

9) Please add note to Sheet C500 - Please contact Trey Lowe at 843-341- 4690 or treyl@hiltonheadislandsc.gov for a pre-clear inspection once tree protection and erosion and sediment control fencing has been installed, prior to beginning any land clearing or construction.

10) Please add note to Sheet C500 - A Certificate of Compliance (C of C) is required for this project. To apply for the C of C, submit a C of C application form and supporting documentation to Trey Lowe at treyl@hiltonheadislandsc.gov. Please note that a C of C must be obtained prior to the building permit being finalized.

Floodplain Review v.1	Corrections Required	Shari Mendrick Ph: 843-341-4687	email: sharim@hiltonheadislandsc.go

11) Show limits of each flood zone based on the March 23, 2021, FEMA Flood Insurance Rate Maps.

Urban Design Review v.1	Corrections Required	Alexis Cook	email: alexisc@hiltonheadislandsc.gov

12) Applicant is currently scheduled for Conceptual Review on 11/14/2023. This project requires review/approval from the Town's Design Review Board under a Major Corridor Review submittal. A Conceptual and Final Review are required.

NPDES Review v.1	Corrections Required	Jacob Terry	email: jacobt@hiltonheadislandsc.gov

13) Extend double row of silt fencing on western border by 30' towards Helmsman Way.

14) Adjust site plan to have a single construction exit rather than two with the location closer to Helmsman Way.

15) The applicant shall submit a completed Stormwater Plan Review form and checklist.

16) Suggest using FODs rather than rock and fabric construction exit.

17) The applicant must complete the second page of the Land Disturbance Permit Application: Certifications.

Natural Resources v.1	Corrections Required	Alex Pinckney	email: AlexP@hiltonheadislandsc.gov

18) Provide a landscaping plan that shows tree mitigation at the rate of (1) tree for every 10" being removed, by category. Current mitigation plan does not meet this requirement.

Traffic Engineering Review	Corrections Required	Jim Iwanicki	email: JimI@hiltonheadislandsc.gov

19) Parking bays must be abutted on their ends by a landscaped median of 15' minimum width per 16-5-107.G.

20) Construction phasing and construction traffic control should be addressed.

21) An approved detectable warning surface (DWS) material must be provided where pedestrian facilities enter or cross streets or drive aisles. Please add (Both Sides) note for the crosswalk at Helmsman Way Need to have DWS at ADA spots for Turn-Down Sidewalk locations.

22) Pedestrian facilities must be 5' min. width per 16-5-105.A.5.g. - Turn-Down sidewalk is shown as 4 foot wide. It needs to be 5 foot minimum.

23) Provide wheel stops per 16-5-107.F.3. The Turndown sidewalk does not replace the need for wheel stops as designed.

24) Encroachment permit is required from the jurisdictional agency due to work proposed on public dedicated right-of-way.

25) Parking design requirements outlined in 16-5-107.E.1 or 16-5-107.E.2 are not satisfied relative to required stall dimensions or backing area dimensions. (10-foot parking stalls adjacent to landscape median)

26) Provide traffic control (signing, marking, etc.) plan. Pathway stop signs, stop bars (parking lot and pathway) and one-way signage in parking lot. Discuss traffic flow and see if additional stop signs/stop bars are required in parking lot.

September 24, 2024
EXHIBIT
Hank Amundson
8

From: Katie Kabala <KatieK@hiltonheadislandsc.gov>
To: Brian Eber
Subject: FW: Daufuskie Island Ferry Embarkation dock - 68 Helmsmen Way at Broad Creek
Date: Monday, October 23, 2023 3:44:49 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.jpg

Brian

Would this need a DRB?

Would there be permit fees on a county project like this?

Katie Kabala
CUSTOMER SERVICE MANAGER
Office: (843) 341-4698
Mobile: (843) 816-1807
Website: hiltonheadislandsc.gov
Address: Town of Hilton Head Island
1 Town Center Court,
Hilton Head Island, SC 29928

From: Nancy Lucas <nancy.oquinnmarine@icloud.com>
Sent: Monday, October 23, 2023 3:29 PM
To: Katie Kabala <KatieK@hiltonheadislandsc.gov>
Subject: Daufuskie Island Ferry Embarkation dock - 68 Helmsmen Way at Broad Creek

THIS MESSAGE ORIGINATED OUTSIDE YOUR ORGANIZATION

Good afternoon,

I need to apply for a Building permit to remove and dispose of the existing float and piles. Then install the new float and piles for the new Daufuskie Island ferry embarkation dock. Do I use the Commercial Building permit form? The job total is $631,533.00. If you can give me a permit total, I'll have a check ready in that amount. Thank you for your assistance in this matter.

Regards,
Nancy

Nancy Lucas, Permit Coordinator
O'Quinn Marine Construction
95 Sheppard Road
Beaufort, SC 29907
843-522-3313 Office
843-522-3138 Fax

September 24, 2024
EXHIBIT
Hank Amundson
9

From: Trey Lowe <TreyL@hiltonheadislandsc.gov>
To: Missy Luick; Shawn Leininger
Cc: Brian Eber; Josh Gruber
Subject: RE: DPR-001914-2023
Date: Tuesday, September 3, 2024 2:56:04 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png

Missy,

Just a few notes below.

- The informal Pre-app for 10 Haig Point Circle does not incorporate any portion of 60 Helmsman Way as a part of their proposal to erect a hotel at the Haig Point Embarkation site. They are proposing all this work only on the property at 10 Haig Point Circle.
- There was a pre-app that came in, in May of 2023, for 60 Helmsman Way for a similar use. Interval occupancy and multi-family condos from what I recall.
- When we released comments for the Daufuskie Island Embarkation proposal, DPR-001914-2024, we had ask them to amend their proposal, per Marc's comments to Beaufort County Council, that the plan needed to incorporate design features and mimic the appearance of the Calhoun Street Dock in Bluffton.
- In a call, after the fact, to Duncan O'Quinn, marine contractor hired by BC, Brian Eber and I were asked to elaborate on this comment. When Brian and I got clarification on the comment we asked Mr. O'Quinn to contact Hank Amundson, Special Assistant to the County Administrator for BC, and have him work with County Council on a plan to achieve Marc's vision, and if they had any questions they were to consult Marc.
- After that comment, and realizing they couldn't meet their December 31, 2024, deadline due to a total redesign and the DRB schedule, they secured a location on Pinckney Island and this one seemingly dies on the vine. During our final conversation with Mr. O'Quinn, he mentioned he would let us know if they had any questions.

I also, wanted to apologize for my lack of diligence with follow up on this one. Due to the nature of the project and the heightened priority level, I didn't want to overstep my boundaries. I will be glad to answer any questions and provide any details you all need. Thank you Missy!

Kind Regards,

Trey Lowe
SENIOR PLANNER
Office: (843) 341-4690
Website: hiltonheadislandsc.gov
Address: Town of Hilton Head Island
1 Town Center Court,

September 24, 2024
EXHIBIT
Hank Amundson
10

COUNTY COUNCIL OF BEAUFORT COUNTY
OFFICE OF THE INTERIM COUNTY ADMINISTRATOR
ADMINISTRATION BUILDING
BEAUFORT COUNTY GOVE 'MENT ROBERT SMALLS COMPLEX
100 RIBAUT ROAD
POST OFFICE DRAWER 1228

JOHN ROBINSON
INTERIM COUNTY ADMINISTRATOR

CHERYL H. HARRIS
EXECUTIVE ASSISTANT

BEAUFORT, SOUTH CAROLINA 29901-1228
TELEPHONE: (843) 255-2023
FAX: (843) 255-9403
www.beaufortcounrysc.gov

May 10, 2024

The Honorable Tim Scott
Senator, South Carolina
Capitol Building
Washington, DC

Dear Senator Scott:

Beaufort County currently holds a lease on federal property held by US Fish & Wildlife on Pinckney Island, SC. The County built, operates, and maintains a public boat ramp, landing and a ferry dock that serves Daufuskie Island, a bridgeless Island near Hilton Head Island.

Beaufort County is in the process of undertaking two major projects in this area. One is the construction of a new bridge system to Hilton Head Island, and the other is the establishment of a permanent ferry port for service to Daufuskie Island.

Both projects require additional land use on the Pinckney Island Wildlife Preserve to successfully provide public services and provide better access to the Wildlife Preserve. Attached are conceptual designs for preferred option A, and alternative options B and C, each showing the pending bridge project design and the desired area for expansion.

Beaufort County is asking for your support to facilitate conversations with US Fish and Wildlife and assist Beaufort County's initiative to garner authorization for expansion of Beaufort County's footprint on Pinkney Island.

We would appreciate the opportunity to explore this request with you and your team.

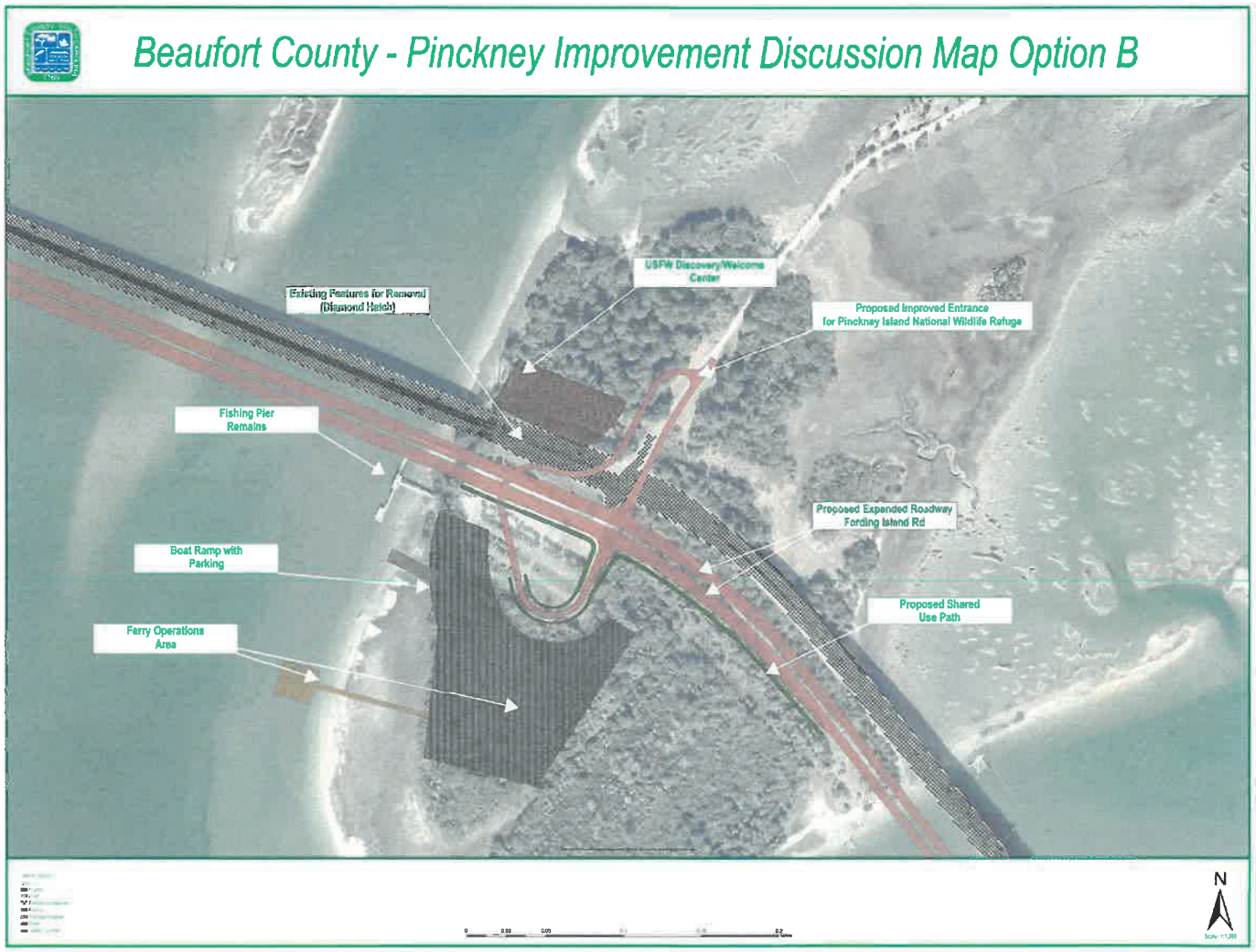
Thank you for your consideration and attention to this matter.

John C. Robinson
Beaufort County
Interim County Administrator
843-263-0650
jrobinson@bcgov.net
JR:ch

Enclosure



BEAUFORT COUNTY 014513



BEAUFORT COUNTY 014514



BEAUFORT COUNTY 014515

September 24, 2024
EXHIBIT
Hank Amundson
11

dhec
Healthy People. Healthy Communities.

October 6, 2023

SEE SPECIAL CONDITION(S)

Beaufort County
C/O John Robinson
100 Ribaut Rd
Beaufort, SC 29902

Re: 2023-01056

91 7199 9991 7030 0132 2965

Dear Mr. Robinson:

The Office of Ocean and Coastal Resource Management (the Department) has reviewed your application to modify an existing dock for a ferry terminal at 68 Helmsman Way, Hilton Head Island, Beaufort County, South Carolina and has issued a permit for this work. You should carefully read the description of the authorized project and special conditions that have been placed on the permit, as these conditions may modify the permitted activity. In addition, there are a series of general conditions that should be reviewed. The original and one photocopy of the permit, as issued, are enclosed. After carefully reading the permit, if you wish to accept the permit as issued, sign and date in the signature block entitled "PERMITTEE" on the original version of the permit and **return it to this Department. Keep the photocopy for your records.**

PLEASE READ CAREFULLY: You are required to sign and return the original version of your permit to this Department. If this permit is not signed and returned within thirty (30) days of issuance, OR appealed within 15 days as described on the enclosed "Guide to Board Review", the Department reserves the right to cancel this permit. Please carefully review the enclosed "Guide to Board Review" for information and deadlines for appealing this permit.

We have also enclosed a "request for a construction placard" card. You must send in this card before the time you wish to start construction. At that time a construction placard will be sent to you to post at the construction site.

PLEASE NOTE: You are not authorized to commence work under the permit until we have received the original version of the entire permit signed and accepted by you, and a construction placard has been issued and posted at the construction site. The receipt of this permit does not relieve you of the responsibility of acquiring any other federal, state, or local permits that may be required. Please return the signed permit to the following address:

Office of Ocean and Coastal Resource Management
1362 McMillan Ave, Suite 400
Charleston, SC 29405

Sincerely,

Sarah E Reed
Project Manager
Critical Area Permitting Section

Enclosure

Ec: Hunter Oriani, McSweeney Engineers

South Carolina Board of Health and Environmental Control

Guide to Board Review

Pursuant to S.C. Code Ann. § 44-1-60

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of $100 is filed with the Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation or settlement discussions during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference. In matters pertaining to decisions under the South Carolina Mining Act, appeals should be made to the South Carolina Mining Council.

I. Filing of Request for Final Review

1. A written Request for Final Review (RFR) and the required filing fee of one hundred dollars ($100) must be received by Clerk of the Board within fifteen (15) calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15th day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day.
2. RFRs should be filed on-line (scdhec.gov/FileRFR) or in person or by mail at the following address:
   South Carolina Board of Health and Environmental Control
   Attention: Clerk of the Board
   2600 Bull Street
   Columbia, South Carolina 29201
   Alternatively, RFRs may be filed with the Clerk by electronic mail (boardclerk@dhec.sc.gov).
3. RFRs shall be in writing and should include, at a minimum, the following information:
   - The grounds for amending, modifying, or rescinding the staff decision;
   - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
   - the relief requested;
   - a copy of the decision for which review is requested; and
   - the name of the Requestor and the Requestor's mailing address, email address, if applicable, and phone number(s) at which the Requestor can be contacted. If the Requestor consists of a group of individuals, a representative of the group should be identified to receive all notices and communications related to the RFR for the group.

   All information submitted is subject to release under the Freedom of Information Act. If the RFR and accompanying documentation contain information the Requestor believes should not be released, such information should be identified.

4. The filing fee may be paid by cash, check or credit card and must be received by the 15th day. Credit card payments may be made by phone (803-898-3460, option 2) or on-line at scdhec.gov/FileRFR.
5. If there is any perceived discrepancy in compliance with this RFR filing procedure or any other procedural question, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor.
7. If an RFR pertains to an emergency order, the Clerk will, upon receipt, immediately provide a copy of the RFR to all Board members. The Chairman, or in his or her absence, the Vice-Chairman shall, based on the circumstances, decide whether to refer the RFR to the RFR Committee for expedited review or to decline in writing to schedule a Final Review Conference. If the Chairman or Vice-Chairman determines review by the RFR Committee is appropriate, the Clerk will forward a copy of

the RFR to Department staff and Office of General Counsel. A Department response and RFR Committee review will be provided on an expedited schedule defined by the Chairman or Vice-Chairman.

8. Following any necessary redaction, the Clerk will email the RFR to staff and Office of General Counsel and request a Department Response within ten (10) working days. If the Requestor is not the applicant, permittee, or licensee, the Clerk will email the RFR to the applicant, permittee, or licensee and give them the option of providing a response within ten (10) working days. Upon receipt of the Department Response and, if timely received, the applicant, permittee, or licensee response, the Clerk will forward the RFR and response(s) to all Board members for review, and all Board members will confirm receipt of the RFR package to the Clerk by email. The responses will also be provided by the Clerk to the Requestor and the applicant, permittee, or licensee if not the Requestor, when provided to the Board; however, questions by RFR Committee members notwithstanding, no subsequent submittals by the parties will be provided to the Board until and if a Conference is scheduled. If a Board member does not confirm receipt of the RFR within a twenty-four (24) hour period, the Clerk will attempt to contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will respond to the Clerk's email within seventy-two (72) hours and will request further review. If no Board member requests further review of the RFR within the seventy-two (72) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. Contested case guidance will be included within the letter.
   NOTE: If the time periods described in this provision end on a weekend or State holiday, the time is automatically extended to the next business day.
9. If the RFR is to be considered by the RFR Committee, the Clerk will notify the Board that further review is requested. The Board member(s) requesting further review will appear at the RFR Committee meeting to discuss the matter with the RFR Committee unless excused by the presiding member. If time allows, an RFR Committee member may submit questions to the parties via the Clerk to be answered in writing prior to the RFR Committee meeting. RFR Committee meetings are open to the public and will be public noticed at least twenty-four (24) hours in advance.
10. Following RFR Committee or Board consideration of the RFR, if it is determined no Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Conference. Contested case guidance will be included within the letter.

II. Final Review Conference Scheduling

1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
2. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publicly noticed and the Notice should:
   - include the place, date and time of the Conference;
   - state the presentation times allowed in the Conference;
   - state evidence may be presented at the Conference;
   - if the conference will be held by a committee other than the RFR Committee or a designee, include a copy of the Chairman's order appointing the committee or the designee; and
   - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
3. Information submitted to the Clerk at least twenty-four (24) hours prior to the Conference will be provided to the Board for consideration prior to the Conference. Such information will also be provided to the parties. While parties may distribute handouts at the Conference, information received by the Clerk after this deadline will not be provided to the Board or the parties.
4. Slide presentations for the Conference must be provided to the Clerk at least twenty-four (24) hours prior to the Conference to allow time for uploading. Slide presentations will be provided to the Board and the parties prior to the Conference.
5. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

III. Final Review Conference and Decision

1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
   - Department staff will provide an overview of the staff decision and the applicable law to include [15 minutes]:
     - Type of decision (permit, enforcement, etc.) and description of the program.
     - Parties
     - Description of facility/site

- Applicable statutes and regulations
- Decision and materials relied upon in the administrative record to support the staff decision.

- Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [20 minutes] *NOTE: The burden of proof is on the Requestor(s)*
- Rebuttal by Department staff [20 minutes]
- Rebuttal by applicant, permittee, or licensee, if not the Requestor [5 minutes]
- Rebuttal by Requestor(s) [15 minutes]

  Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.

2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
3. At any time during the conference, the officers conducting the Conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the Conference.
4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
5. All Conferences are open to the public.
6. The officers may deliberate in closed session.
7. The officers may announce the decision at the conclusion of the Conference or it may be reserved for consideration.
8. The Clerk will mail the written final agency decision (FAD) to parties within thirty (30) days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court or in matters pertaining to decisions under the South Carolina Mining Act, to request a hearing before the South Carolina Mining Council. The FAD will be sent to the parties by certified mail, return receipt requested.
9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT

CRITICAL AREA PERMIT & COASTAL ZONE CONSISTENCY CERTIFICATION

Permittee(s): **Beaufort County**

Permit Number(s): **2023-01056**

Date of Issuance: **October 6, 2023**

Expiration Date: **October 6, 2028**

SEE SPECIAL CONDITION(S)

Location: **On and adjacent to Broad Creek at 68 Helmsman Way, Hilton Head Island Beaufort County, South Carolina (TMS#: R552 010 000 0650 0000)**

This permit is issued under the provisions of S. C. Code Ann. Section 48-39-10, et seq., and 23A S.C. Code Ann. Regs. 30-1 through 30-18, *as amended*. **Please carefully read the project description and special conditions that appear on this permit/certification as they will affect the work that is allowed and may modify the work from that shown on the submitted plans. All special conditions attached to the permit will take precedent over submitted plans.** The general conditions are also a part of this permit/certification and should be read in their entirety. The S. C. Contractor's Licensing Act of 1999, enacted as S.C. Code Ann. Section 40-11-5 through 430, requires that all construction with a total cost of $5,000 or more be performed by a licensed contractor with a valid contractor's license for marine class construction, except for construction performed by a private landowner for strictly private purposes. Your signature on and acceptance of this permit denotes your understanding of the stated law regarding use of licensed contractors. **All listed special and general conditions will remain in effect for the life of the permit. This applies to permittee, future property owners, or permit assignees.**

DESCRIPTION OF THE PROJECT, AS AUTHORIZED

The plans submitted by you, attached hereto, show the work consists of the following: modifications to the existing floating dock at the Cross Island Boat Landing. Specifically, the existing 61' x 6' floating dock will be removed and replaced with a 60' x 14' floating dock running perpendicular to the channel and an adjacent waterward 50' x 20' floating dock running parallel to the channel. The new floating docks will use internally guided piles to maintain position in the channel. The purpose of this project is to relocate Beaufort County ferry operations from the current location to the Cross Island Boat Landing. The new floating docks will provide embarkation for ferry passengers as well as temporary boat docking for recreational boaters using the Cross Island Boat Landing.

SPECIAL CONDITIONS

1. Upon completion of construction activities, all undeveloped disturbed areas, including those impacted for access, must be immediately restored to pre-project elevations and stabilized.

2. The discharge of any kind of waste into state waters, including, but not limited to, garbage, refuse, trash or debris, will be prohibited at the dock facility.

3. Adequate litter receptacles must be located near all docks and walkways.

4. Once the project is initiated, it must be carried to completion in an expeditious manner in order to minimize period of disturbance to the environment.

4. Once the project is initiated, it must be carried to completion in an expeditious manner in order to minimize period of disturbance to the environment.

5. An as-built survey of the dock must be submitted to the Department within 90 days from completion of construction. The survey must be performed by a registered land surveyor, must show all components of the dock, and must list the starting and ending coordinates of the dock walkway in the SC State Plane Coordinate System, which can be obtained by survey-grade Global Positioning System equipment.

6. In the event that any historic or cultural resources and/or archaeological materials are found during the course of work, the applicant must notify the State Historic Preservation Office and the South Carolina Institute of Archaeology and Anthropology. Historic or cultural resources consist of those sites listed in the National Register of Historic Places and those sites that are eligible for the National Register. Archaeological materials consist of any items, fifty years old or older, which were made or used by man. These items include, but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal materials.

PERMITTEE'S ATTENTION IS DIRECTED TO GENERAL CONDITIONS NUMBERS FOUR (4) AND FIVE (5). BY ACCEPTANCE OF THIS PERMIT, PERMITTEE IS PLACED ON NOTICE THAT THE STATE OF SOUTH CAROLINA, BY ISSUING THIS PERMIT, DOES NOT WAIVE ITS RIGHTS TO REQUIRE PAYMENT OF A REASONABLE FEE FOR USE OF STATE LANDS AT A FUTURE DATE IF SO DIRECTED BY STATUTE.

THE PERMITTEE, BY ACCEPTANCE OF THIS PERMIT, AGREES TO ABIDE BY THE TERMS AND CONDITIONS CONTAINED HEREIN AND TO PERFORM THE WORK IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS ATTACHED HERETO AND MADE A PART HEREOF. ANY DEVIATION FROM THESE CONDITIONS, TERMS, PLANS AND SPECIFICATIONS SHALL BE GROUNDS FOR REVOCATION, SUSPENSION OR MODIFICATION OF THIS PERMIT AND THE INSTITUTION OF SUCH LEGAL PROCEEDINGS AS THE DEPARTMENT MAY CONSIDER APPROPRIATE.

Permit Number: **2023-01056**

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

PERMITTEE(S)
Beaufort County - John Robinson

DATE

This permit becomes effective when the State official, designated to act for the Office of Ocean and Coastal Resource Management, has signed below.

Sarah Reed

CRITICAL AREA PERMITTING PROJECT MANAGER
Sarah E. Reed
Or Other Authorized State Official

10/6/2023

DATE

SEE SPECIAL CONDITION(S)

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SEE SPECIAL CONDITION(S)

GENERAL CONDITIONS:

This construction and use permit is expressly contingent upon the following conditions which are binding on the permittee:

1. The permittee, in accepting this permit, covenants and agrees to comply with and abide by the provisions and conditions herein and assumes all responsibility and liability and agrees to save the Department and the State of South Carolina, its employees or representatives, harmless from all claims of damage arising out of operations conducted pursuant to this permit.

2. If the activity authorized herein is not constructed or completed within five years of the date of issuance, this permit shall automatically expire. A request, in writing, for an extension of time shall be made not less than thirty days prior to the expiration date.

3. All authorized work shall be conducted in a manner that minimizes any adverse impact on fish, wildlife and water quality.

4. This permit does not relieve the permittee from the requirements of obtaining a permit from the U. S. Army Corps of Engineers or any other applicable federal agency, nor from the necessity of complying with all applicable local laws, ordinances, and zoning regulations. This permit is granted subject to the rights of the State of South Carolina in the navigable waters and shall be subject, further, to all rights held by the State of South Carolina under the public trust doctrine as well as any other right the State may have in the waters and submerged lands of the coast.

5. This permit does not convey, expressly or impliedly, any property rights in real estate or material nor any exclusive privileges; nor does it authorize the permittee to alienate, diminish, infringe upon or otherwise restrict the property rights of any other person or the public; nor shall this permit be interpreted as appropriating public properties for private use.

6. The permittee shall permit the Department or its authorized agents or representatives to make periodic inspections at any time deemed necessary to ensure that the activity being performed is in accordance with the terms and conditions of this permit.

7. Any abandonment of the permitted activity will require restoration of the area to a satisfactory condition as determined by the Department

8. This permit may not be transferred to a third party without prior written notice to the Department, either by the transferee's written agreement to comply with all terms and conditions of this permit or by the transferee subscribing to this permit and thereby agreeing to comply.

9. If the display of lights and signals on any structure or work authorized herein is not otherwise provided for by law, such lights and special signals as may be prescribed by the United States Coast Guard shall be installed and maintained by and at the expense of the permittee.

10. The permit construction placard or a copy of the placard shall be posted in a conspicuous place at the project site during the entire period of work.

11. The structure or work authorized herein shall be in accordance with the permit, as issued, and shall be maintained in good condition. Failure to build in accordance with the permit, as issued, or failure to maintain the structure in good condition, shall result in the revocation of this permit.

12. The authorization for activities or structures herein constitutes a revocable license. The Department may require the permittee to modify activities or remove structures authorized herein if it is determined by the Department that such activity or structures violates the public's health, safety, or welfare, or if any activity is inconsistent with the public trust doctrine. Modification or removal under this condition shall be ordered only after reasonable notice stating the reasons therefore and provision to the permittee of the opportunity to respond in writing. When the Permittee is notified that the Department intends to revoke the permit, Permittee agrees to immediately stop work pending resolution of the revocation.

13. The Department shall have the right to revoke, suspend, or modify this permit in the event it is determined the permitted structure (1) significantly impacts the public health, safety and welfare, and/or is violation of Section 48-39-150, (2) adversely impacts public rights, (3) that the information and data which the permittee or any other agencies have provided in connection with the permit application is either false, incomplete or inaccurate, or (4) that the activity is in violation of the terms and/or conditions, including any special conditions of the permit. That the permittee, upon receipt of the Department's written intent to revoke, suspend, or modify the permit has the right to a hearing. Prior to revocation, suspension, or modification of this permit, the Department shall provide written notification of intent to revoke to the permittee, and permittee can respond with a written explanation to the Department.(South Carolina Code Section 1-23-370 shall govern the procedure for revocation, suspension or modification herein described).

14. Any modification, suspension or revocation of this permit shall not be the basis of any claim for damages against the Department or the State of South Carolina or any employee, agent, or representative of the Department or the State of South Carolina.

15. All activities authorized herein shall be, if they involve a discharge or deposit into navigable waters or ocean waters, at all times consistent with all applicable water quality standards, effluent limitations, and standards of performance, prohibitions, and pretreatment standards established pursuant to applicable federal, state and local laws.

16. Extreme care shall be exercised to prevent any adverse or undesirable effects from this work on the property of others. This permit authorizes no invasion of adjacent private property, and the Department assumes no responsibility or liability from any claims of damage arising out of any operations conducted by the permittee pursuant to this permit.

SEE SPECIAL CONDITION(S)



DIRECTIONS TO SITE FROM CHARLESTON:

- GET ON HWY 17 S FROM BROAD ST AND LOCKWOOD DR
- CONTINUE ON HWY 17 S TO BURTON
- GET ON US-278 E IN OKATIE FROM SC-170 W
- CONTINUE ON US-278 E TO HILTON HEAD ISLAND
- TAKE HELMSMAN WAY TO CROSS ISLAND PUBLIC BOAT LANDING
- DESTINATION WILL BE ON THE RIGHT

SEE SPECIAL CONDITION(S)

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 25057 9/7/23 WILLIAM D. BARNA

PROJECT VICINITY

SCALE: 1" = 1000'

PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS

ADJACENT PROPERTY OWNERS: SEE SCHEDULE SHEET 6

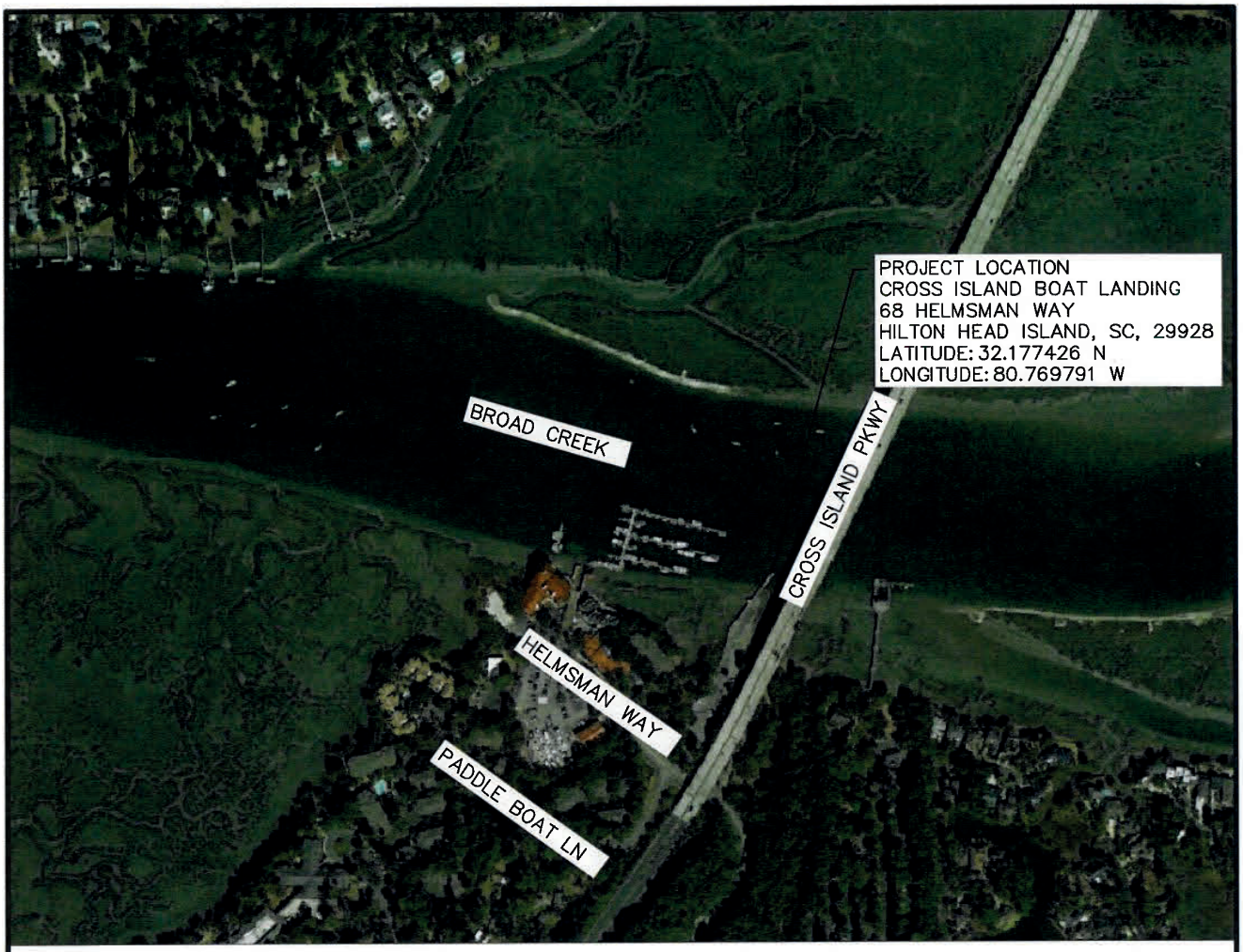
FIGURE 1
LOCATION MAP
1"=1000'
0' 1000' 2000'

APPLICANT
BEAUFORT COUNTY
AGENT
McSWEENEY ENGINEERS, LLC

PROPOSED: FLOATING DOCK
WATERWAY: BROAD CREEK

IN: HILTON HEAD
COUNTY OF: BEAUFORT
APPLICATION NO. REV. 1
SHEET: 1 OF 7 **DATE:** 9/7/2023

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DIRECTIONS TO SITE FROM CHARLESTON:

- GET ON HWY 17 S FROM BROAD ST AND LOCKWOOD DR
- CONTINUE ON HWY 17 S TO BURTON
- GET ON US-278 E IN OKATIE FROM SC-170 W
- CONTINUE ON US-278 E TO HILTON HEAD ISLAND
- TAKE HELMSMAN WAY TO CROSS ISLAND PUBLIC BOAT LANDING
- DESTINATION WILL BE ON THE RIGHT

SEE SPECIAL CONDITION(S)

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 25057 9/7/23 WILLIAM D. BARNA

PROJECT LOCATION

SCALE: 1" = 500'

PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS

ADJACENT PROPERTY OWNERS: SEE SCHEDULE SHEET 6

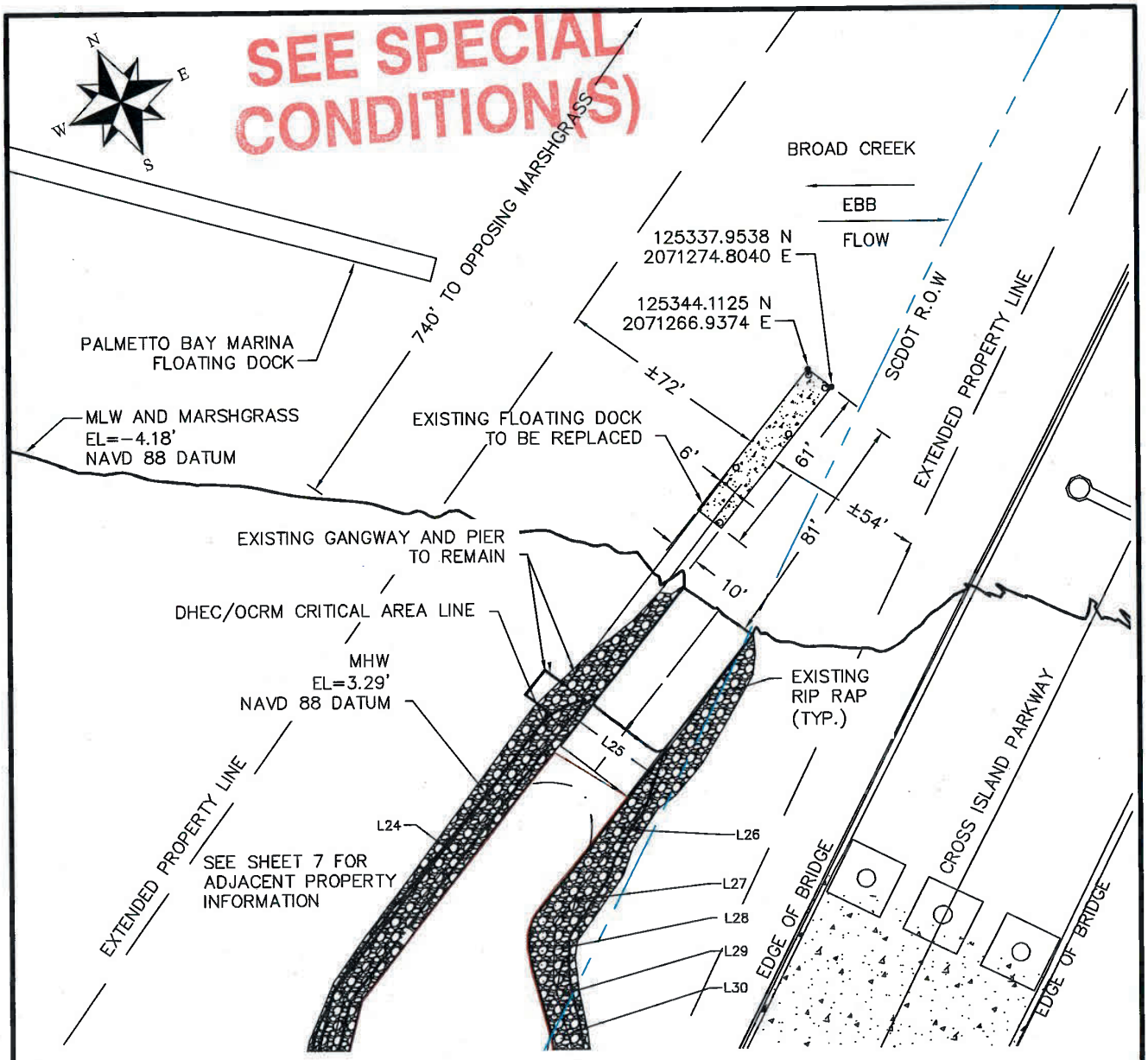
FIGURE 2
VICINITY MAP
1"=500'
0' 500' 1000'

APPLICANT
BEAUFORT COUNTY
AGENT
McSWEENEY ENGINEERS, LLC

PROPOSED: FLOATING DOCK
WATERWAY: BROAD CREEK

IN: HILTON HEAD
COUNTY OF: BEAUFORT
APPLICATION NO. REV. 1
SHEET: 2 OF 7 **DATE:** 9/7/2023

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NOTE: THIS DRAWING IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR ENGINEERING DESIGN OR DETAIL.

ALL CRITICAL LINE INFORMATION IS OBTAINED FROM A PLAT PERFORMED BY ANDREWS ENGINEERING AND SURVEYING ON 7/14/2023.

EXISTING SITE PLAN

SCALE: 1:50

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 25057 9/7/23 WILLIAM D. BARNA

PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS

ADJACENT PROPERTY OWNERS: SEE SCHEDULE SHEET 6

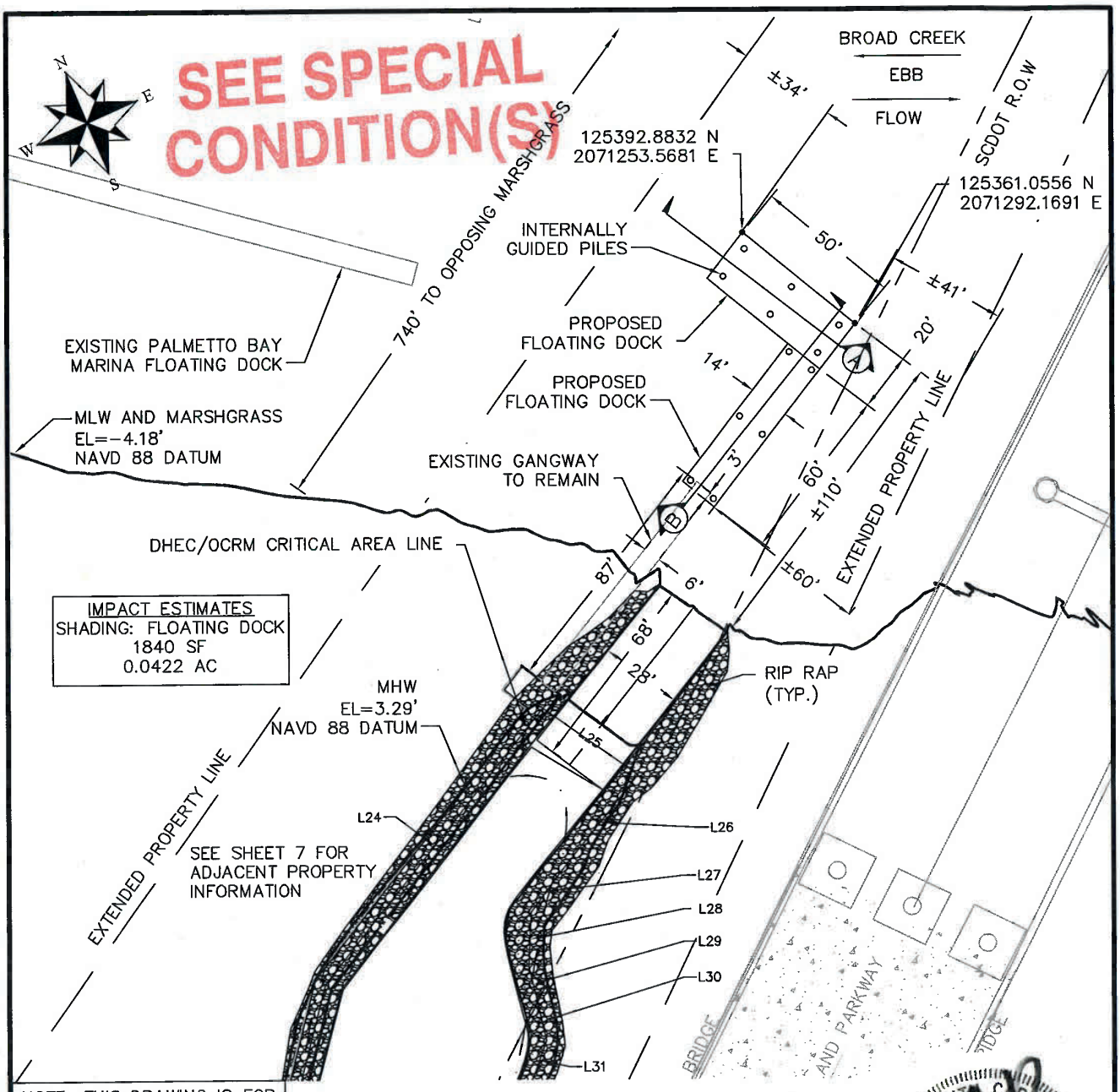
FIGURE 3
EXISTING SITE PLAN
1:50
0' 50' 100'

APPLICANT
BEAUFORT COUNTY
AGENT
McSWEENEY ENGINEERS, LLC

PROPOSED: FLOATING DOCK
WATERWAY: BROAD CREEK

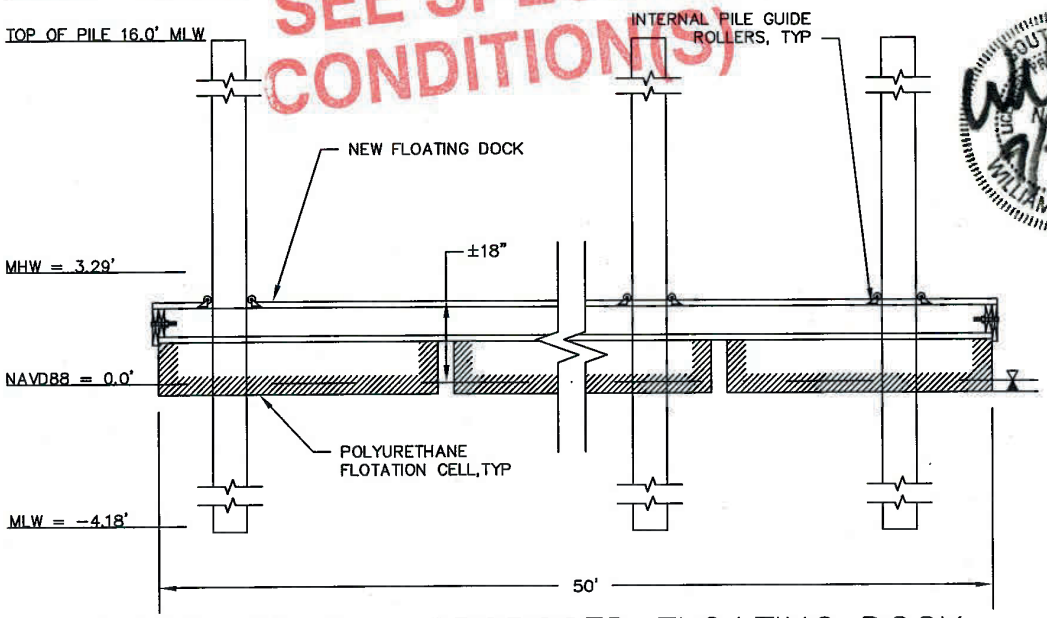
IN: HILTON HEAD
COUNTY OF: BEAUFORT
APPLICATION NO. REV. 1
SHEET: 3 OF 7 **DATE:** 9/7/2023

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SEE SPECIAL CONDITION(S)
BROAD CREEK
EBB
FLOW
±34'
SCDOT R.O.W
125392.8832 N
2071253.5681 E
125361.0556 N
2071292.1691 E
740' TO OPPOSING MARSHGRASS
INTERNALLY GUIDED PILES
50'
±41'
EXISTING PALMETTO BAY MARINA FLOATING DOCK
PROPOSED FLOATING DOCK
14'
20'
PROPOSED FLOATING DOCK
MLW AND MARSHGRASS
EL=-4.18'
NAVD 88 DATUM
EXISTING GANGWAY TO REMAIN
3'
60'
±110'
EXTENDED PROPERTY LINE
DHEC/OCRM CRITICAL AREA LINE
87'
6'
±60'
IMPACT ESTIMATES
SHADING: FLOATING DOCK
1840 SF
0.0422 AC
68'
25'
RIP RAP (TYP.)
MHW
EL=3.29'
NAVD 88 DATUM
L25
L24
L26
L27
L28
L29
L30
L31
EXTENDED PROPERTY LINE
SEE SHEET 7 FOR ADJACENT PROPERTY INFORMATION
BRIDGE
AND PARKWAY
BRIDGE
NOTE: THIS DRAWING IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR ENGINEERING DESIGN OR CONSTRUCTION.
ALL CRITICAL LINE INFORMATION IS OBTAINED FROM A PLAT PERFORMED BY ANDREWS ENGINEERING AND SURVEYING ON 7/14/2023.
PROPOSED SITE PLAN
SCALE: 1:50
No. 25057
9/7/23
WILLIAM D. BARNA
PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS
ADJACENT PROPERTY OWNERS: SEE SCHEDULE SHEET 6
FIGURE 4
PROPOSED SITE PLAN
1:50
0'
50'
100'
APPLICANT
BEAUFORT COUNTY
AGENT
McSWEENEY ENGINEERS, LLC
PROPOSED: FLOATING DOCK
WATERWAY: BROAD CREEK
IN: HILTON HEAD
COUNTY OF: BEAUFORT
APPLICATION NO. REV. 1
SHEET: 4 OF 7
DATE: 9/7/2023

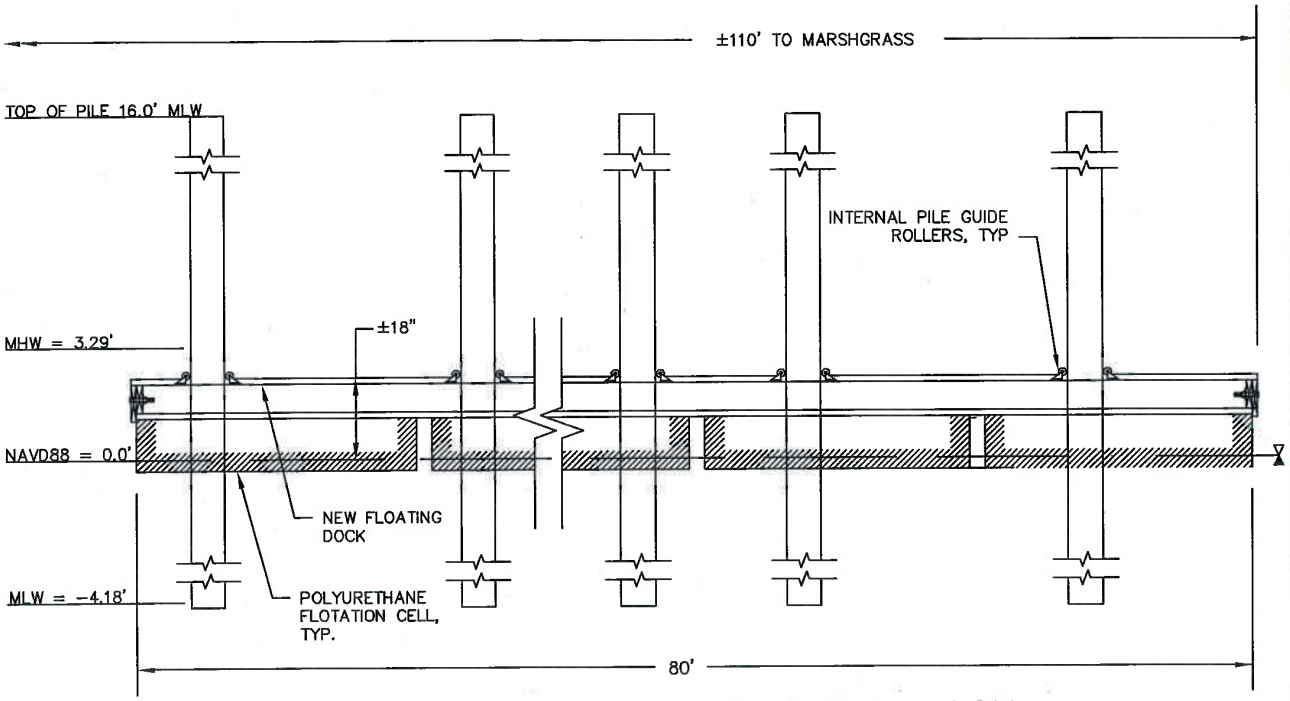
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SEE SPECIAL CONDITIONS)



SECTION A – PROPOSED FLOATING DOCK

SCALE: 1:5



SECTION B – PROPOSED FLOATING DOCK

SCALE: 1:5

PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS

ADJACENT PROPERTY OWNERS: SEE SCHEDULE SHEET 6

FIGURE 5
TYPICAL DOCK SECTIONS
1:5
0' 5' 10'

APPLICANT
BEAUFORT COUNTY
AGENT
McSWEENEY ENGINEERS, LLC

PROPOSED: FLOATING DOCK
WATERWAY: BROAD CREEK

IN: HILTON HEAD
COUNTY OF: BEAUFORT
APPLICATION NO. REV. 1
SHEET: 5 OF 7 **DATE:** 9/7/2023

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ADJACENT PROPERTY TMS:	OWNER:	ADDRESS:
1. R552 010 000 314E 0000	BRIGHTON BAY ASSOCIATES LP SUITE	200 BLDG 20 1827 POWER FERRY RD ATLANTA, GA 30309
2. R552 010 000 0649 0000	SC DEPARTMENT OF TRANSPORTATION	3100 DEVINE ST, COLUMBIA, SC, 29205
3. R552 010 000 0309 0000	TOWN OF HILTON HEAD	ONE TOWN CENTER CT, HILTON HEAD ISLAND, SC, 29928
4. R552 010 000 273A 0000	BRIGHTON BAY ASSOCIATES LP	2 CORPUS CHRISTI STE 302, HILTON HEAD, ISLAND, SC, 29928
5. R552 010 000 314C 0000	PALMETTO BAY MARINA LLC	2 PARK LN SUITE 301, HILTON HEAD ISLAND, SC, 29928

SEE SPECIAL CONDITION(S)

LINE TABLE			LINE TABLE		
LINE #	BEARING	LENGTH	LINE #	BEARING	LENGTH
L13	N66°18'54"E	12.69'	L29	S13°09'23"E	12.61'
L14	N48°14'22"E	27.56'	L30	S13°09'23"E	13.77'
L15	N21°20'35"E	13.62'	L31	S19°36'30"W	14.53'
L16	N29°21'49"W	9.28'	L32	S27°14'11"W	67.45'
L17	N10°21'26"E	17.00'	L33	S40°26'27"E	15.51'
L18	N33°25'45"E	8.79'	L34	S84°10'17"E	19.98'
L19	S83°15'57"E	8.44'	L35	S00°36'26"W	16.83'
L20	N81°17'32"E	19.86'	L36	S23°26'07"W	24.40'
L21	N59°36'02"E	11.32'	L37	S38°33'31"W	16.99'
L22	N89°11'26"E	14.61'	L38	S34°02'42"E	9.80'
L23	N14°28'52"E	81.13'	L39	N81°38'28"E	8.02'
L24	N38°27'07"E	122.15'	L40	N25°46'23"E	47.56'
L25	S53°48'02"E	39.52'	L41	S77°50'22"E	22.41'
L26	S37°49'43"W	41.73'	L42	S71°11'36"E	39.32'
L27	S35°38'11"W	18.03'	L43	S79°53'44"E	32.31'
L28	S02°51'17"W	18.84'	L44	S71°15'26"E	46.55'
			L45	S71°15'26"E	10.96'

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 25057 9/7/23 WILLIAM D. BARNA

PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS

ADJACENT PROPERTY OWNERS: SEE SCHEDULE THIS SHEET

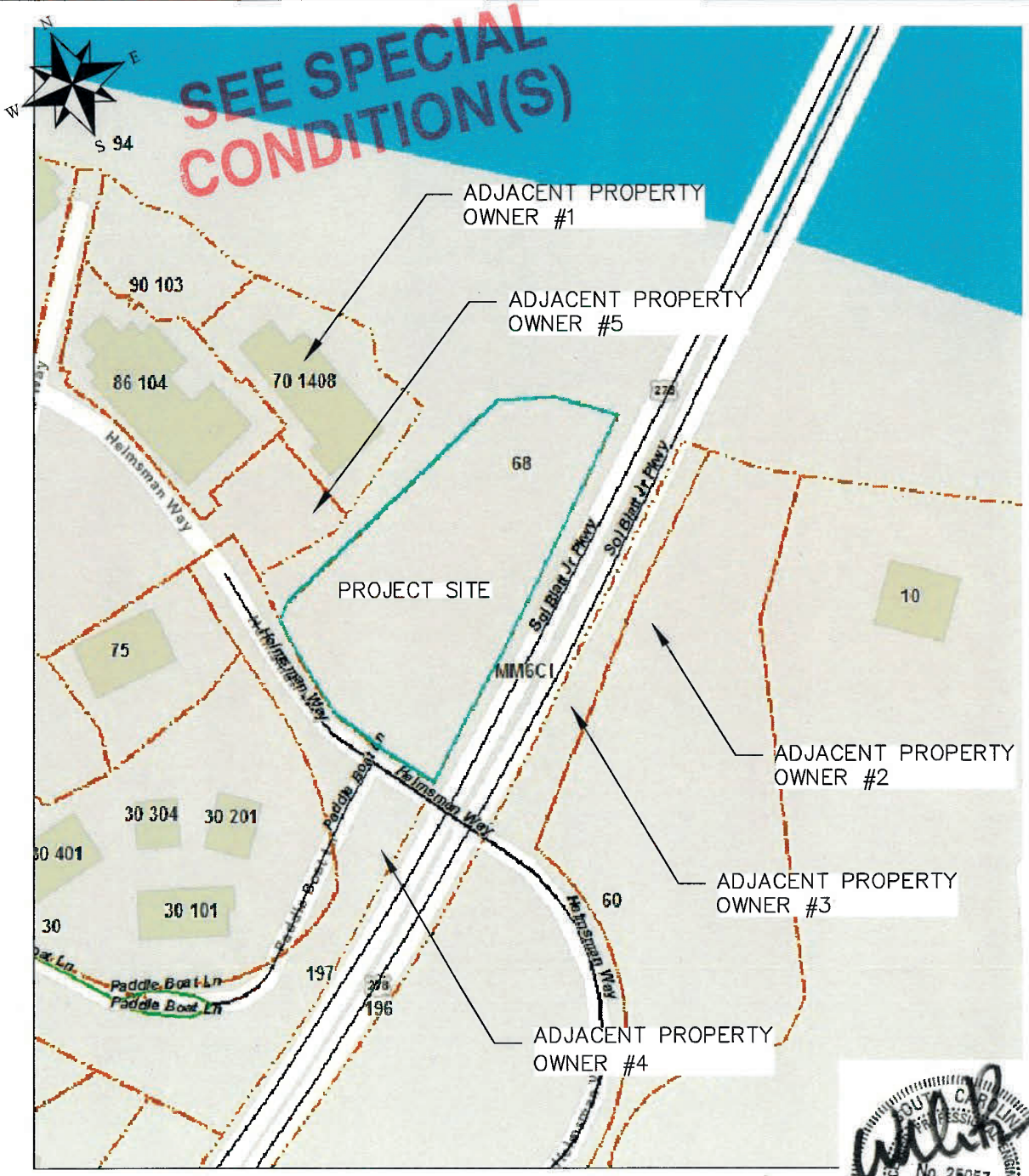
FIGURE 6
ADJACENT PROPERTY OWNERS AND LINE TABLE

APPLICANT
BEAUFORT COUNTY
AGENT
McSWEENEY ENGINEERS, LLC

PROPOSED: FLOATING DOCK
WATERWAY: BROAD CREEK

IN: HILTON HEAD
COUNTY OF: BEAUFORT
APPLICATION NO. REV. 1
SHEET: 6 OF 7 **DATE:** 9/7/2023

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ADJACENT PROPERTY OWNERS MAP

SCALE: NTS

PURPOSE: SHORELINE STABILIZATION & RECREATIONAL ACCESS **ADJACENT PROPERTY OWNERS:** SEE SCHEDULE SHEET 6	**FIGURE 7** ADJACENT PROPERTY OWNERS MAP SCALE: NTS **APPLICANT** BEAUFORT COUNTY **AGENT** McSWEENEY ENGINEERS, LLC	**PROPOSED:** FLOATING DOCK **WATERWAY:** BROAD CREEK **IN:** HILTON HEAD **COUNTY OF:** BEAUFORT **APPLICATION NO.** REV. 1 **SHEET:** 7 OF 7 **DATE:** 9/7/2023

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IN THE COURT OF COMMON PLEAS
FOURTEENTH JUDICIAL CIRCUIT
FOR THE STATE OF SOUTH CAROLINA
BEAUFORT COUNTY

DEPOSITION OF JARED FRALIX, PE,
AS 30(b)(6) OF BEAUFORT COUNTY

TMS: R552 010 000 0648 0000
R552 010 000 0649 0000

BROAD CREEK DEVELOPMENT, LLC,

Plaintiff/Landowner,

vs. CASE NO. 2022-CP-07-1978

BEAUFORT COUNTY,

Defendant.

DEPONENT: JARED FRALIX, PE
AS 30(b)(6) OF BEAUFORT COUNTY

DATE: OCTOBER 2, 2024

TIME: 2 PM

LOCATION: VIA REMOTE VIDEOCONFERENCE

REPORTED BY: RONDA K. BLANTON, RPR
CLARK BOLEN COURT REPORTING
CHARLESTON, SC 29422
843-762-6294
WWW.CLARKBOLEN.COM

A P P E A R A N C E S
(All Appearances via Videoconference)

ON BEHALF OF THE PLAINTIFF:

BYBEE & TIBBALS
BY: RICHARD D. BYBEE, ESQ.
735 Johnnie Dodds Boulevard, Suite 104
Mount Pleasant, SC 29464
(843)881-1623
Rdb@bybeetibbals.com

ON BEHALF OF THE DEFENDANT:

MURPHY LAW OFFICES
BY: CHRIS MURPHY, ESQ.
146 Fairchild Street, Suite 130
Charleston, SC 29492
843-800-1187
Cmurphy@rlattorneys.com

COUNTY OF BEAUFORT
BY: BRIAN HOLBROOK, ESQ.
102 Industrial Village
Building 1
Beaufort, SC 29901

ALSO
PRESENT: Joey Dotterer

- - -

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JARED FRALIX, PE,
AS 30(b)(6) OF BEAUFORT COUNTY,
having been first duly sworn, was examined and testified as follows:

EXAMINATION

BY MR. BYBEE:

Q. Mr. Fralix, we've met before; and I appreciate your patience in going forward in this deposition.

As before, this is a 30(b)(6) deposition. You are testifying on behalf of the county. If I ask you a question you don't understand, I don't want you to answer it. I want you to ask me about my question, and I'll try and rephrase it.

Is that understood?

A. That is. Mr. Bybee, is there any way to adjust your screen so I can see you a little?

Q. There you go. How about that?

A. There you go.

Q. Move up a little bit.

A. Thank you.

Q. The questioning, I'm hopeful, will be less than an hour. We'll see. If you -- if we take a break -- and you're entitled to a break,

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as everybody else in the proceeding is. If you take that break, you can't communicate with Mr. Murphy by text, by email, or whatever about the substance of your testimony.

Do you understand that?

A. I do.

Q. Okay. Tell me what you did to prepare for today's deposition.

A. I'm sorry. I didn't hear that.

Q. What did you do to prepare for today's deposition?

A. I had a short consultation with Mr. Murphy and our deputy attorney, Brian Holbrook.

Q. Did you look at documents?

A. No.

Q. Did you discuss certain topics?

A. Yes.

Q. What topics did you discuss?

A. Hold on. I'm sorry. Mr. Holbrook, our deputy attorney, just stepped in our office. He had problems with his link. So he's going to join by sitting in my office.

Q. That's fine.

A. I'm sorry. If you could repeat the

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question.

Q. The topics that you discussed in preparation for this 30(b)(6) deposition were what?

A. We were --

MR. MURPHY: Rick, hold up. I don't mind you asking him that. I just don't want it to be alleged as a waiver of any attorney-client privilege.

MR. BYBEE: Understood.

MR. MURPHY: Okay.

A. We just talked about the specifics of -- of the site and more focus under the Cross Island Parkway and the project plans, and that was the basis of our discussions.

Q. Okay. Did you discuss Pinckney Island?

A. It -- it came up in short as -- as we were talking through, yeah. There was some discussions regarding Pinckney Island.

Q. And were there discussions concerning the photographs that have been recently provided to us?

A. No.

Q. Have you seen the photographs that have been recently provided to us?

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A. No.

Q. These are photographs at Pinckney Island dock area that -- are you familiar with those photographs?

A. No.

Q. All right. We'll get to them in a little bit more specific.

Were you able to read and review the notice of -- excuse me. The notice of deposition -- the 30(b)(6) notice of deposition that we were operating from for Mr. --

A. Yeah.

Q. Okay.

A. They were provided, yes.

Q. And you're prepared to go forward on all -- all of those topics?

A. Yes.

Q. Thank you.

MR. BYBEE: Madam Court Reporter, Ronda, if you would, Exhibit 3 is a news article. Could you post that, please?

THE REPORTER: Give me a minute. I'll go get it. (Complies with request.)

Q. Mr. Fralix, have you -- are you familiar with this article? It's concerning the move of

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278 for the project and some activity with Hilton Head Island.

A. I'm not familiar with the article. I'm familiar with the project and the subject matter.

Q. All right. The article references a memorandum of agreement between Beaufort County and the DOT along with a municipal consent agreement.

Are you familiar with the memorandum of agreement between Beaufort County and DOT?

A. I'm familiar with the memorandum of agreement between Beaufort County and Town of Hilton Head. That's proposed.

Q. But not an agreement between Beaufort County and DOT?

A. There -- there's an IGA with Beaufort County but not an MOA.

Q. Okay. That's -- I'm using the wrong term. So you are familiar with the IGA; is that correct?

A. That's correct.

Q. Is the IGA between Beaufort County and the DOT and the town, or is it just between Beaufort County and the DOT?

A. Beaufort County and the DOT.

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Q. And when was that agreement signed? Can you tell me that?
A. I don't know specifically, but it's many years ago. I believe in around 2017 or '18.
MR. BYBEE: All right. So if we could get that IGA. We've asked for it a couple of times, and we'd just appreciate you getting it to us.
(This page contains Requested Information.)
A. Mr. Bybee, I know I'm not supposed to ask the questions; but maybe you can help me. How the IGA -- how the 278 project is connected to the property under question.
Q. That -- you're right. You're not allowed to ask me.
A. Okay.
Q. The next thing that's discussed in this news article --
MR. BYBEE: And scroll down just a bit more, Ronda.
THE REPORTER: (Complies with request.)
Q. And it's indicating that there is an evaluation of the various transportation methods,

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such as a ferry system, for the 278 DOT project.
Are you familiar with that?
A. No.
Q. You've not seen documents relative to such an evaluation?
A. Not as part of the 278 project.
Q. Okay. Thank you.
MR. BYBEE: That's all I have on Exhibit 3. Ronda, if you'd pick up Exhibit 4, please.
THE REPORTER: (Complies with request.)
Q. This was marked as Exhibit 4 to the 30(b)(6) of Mr. Amundson. Are you familiar with this document?
A. If you could scroll down.
MR. BYBEE: Ronda, would you move down the exhibit.
THE REPORTER: (Complies with request.)
THE WITNESS: And down to the next page, please.
A. And does it have a date?
Q. Not right there.
A. I think it was -- yes, I am familiar

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with that.
Q. All right. Describe it for me, please.
A. Well, I'm sorry. If you can go up to the date. And the reason I'm asking is there's several documents on the project.
Q. Sure.
A. Okay. Yes, I'm familiar with this.
Q. And describe it for me, please.
A. So this is a resolution passed by the Town of Hilton Head with an associated proposed MLU in coordination with the 278 project between the Town of Hilton Head and -- and Beaufort County.
Q. Thank you.
And how -- how did you become familiar with this document?
A. I was there when they voted to approve the document.
Q. Did you negotiate or participate in the negotiations of the document?
A. I was a participant that -- I attended the meetings, and they had an iteration of various meetings that led to this eventual approval. Some that I was asked questions and others -- other meetings I was not asked for

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input.
MR. BYBEE: All right. And then if you would turn, Madam Court Reporter, to page 6 of the document.
THE REPORTER: (Complies with request.)
Q. Do you need a moment to look that page over, Mr. Fralix?
A. No. I'm familiar with the page. It depends on what question's asked.
Q. So paragraph 2 says that the project's design will be modified to reflect elements that are shown in Exhibit 2 in order to achieve project goals while reducing or eliminating impacts to the private property owners.
Can you tell me specifically what that is in reference to?
A. Yeah. So as part of the project, we went through the -- evaluating the need to process and alternatives analysis and we whittled the design down from 19 different various alternatives down to a preferred alternative.
The preferred alternative was updated through the course of the project to a modified preferred alternative. And then prior to this --

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this motion and proposed MOA by the Town of Hilton Head, there was some additional changes that were proposed. Three specific changes to eliminate some turn lanes at Squire Pope intersection in order to reduce the amount of right-of-way impacts associated with the project.

And so Exhibit 2 references the project to date to include those three minor changes at that interchange. Intersection.

Q. Okay. And the process of comparing alternatives and evaluating the merits of each is a long process, is it not?

A. That's correct.

Q. Okay. Can you estimate how long it took you to do it?

A. We started in 2018, and we are close -- we have submitted a document to federal highway for consideration in 2024. So about six years.

Q. Okay. Is that typical for projects of this nature?

A. It's a long process, but it's not unheard of. So major infrastructure projects like this are from four or five years to 15 years. So I would say it's typical.

Q. Okay. And then in paragraph 3, it

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references in the first portion of the first sentence that the project needs to be accomplished within existing right-of-way with the exception.

Do you see that?

A. I do.

Q. Is the multi-path -- multi-use pathway, does that go through the entire length of the project or just this portion of the project?

A. It -- it does.

Q. So there would be some kind of multi-use pathway on Pinckney Island?

A. Yes.

Q. And that's reflected in the DOT plans?

A. That's correct.

Q. Thank you.

MR. BYBEE: Ronda, if you could go to page 10.

THE REPORTER: (Complies with request.)

Q. I'm on paragraph 14. Just read that silently, and tell me when you're ready.

A. (Complies with request.) Okay.

Q. It's talking about the conveyance of town-owned land in order to accomplish the

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project. Can you give me a general description of what town-owned land has to be needed in order to complete the project?

A. Sure. So the town owns various properties along the corridor; and as part of the corridor plans, there will be widening of the existing right-of-way required needing a -- needing a certain amount of property crossing each of those parcels.

So as part of the project, the town would be working to -- to convey those portions of right-of-way expansions needed across their town-owned property to project.

Q. Very good. That's all I have on the Exhibit 4.

MR. BYBEE: Ronda, if you would pick up just the front page of Exhibit 5, please.

THE REPORTER: (Complies with request.)

Q. All right. Mr. Fralix, I'm now showing you what's been marked as Exhibit No. 5 to the 30(b)(6) deposition that Mr. Amundson has already given.

Do you recognize this document?

A. Yes.

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Q. You were the agent submitting the application packet; correct?

A. That's correct.

Q. And you were submitting it to the town for what purpose?

A. In order to get a development permit from the town regarding the project at the Cross Island Parkway boat landing.

Q. And that project was the ferry embarkation location; is that correct?

A. That's -- it included that, that's correct.

MR. BYBEE: And then if you scroll down, Ronda, a little bit to the signature page.

THE REPORTER: (Complies with request.)

Q. That's your signature. Is that right, Mr. Fralix?

A. That's correct.

Q. I'm not going to ask you to -- this entire document. I'm going to ask you about one specific part of it.

MR. BYBEE: And we have premarked that as Exhibit 5, Ronda. If you would pull Exhibit 5 and display it on the screen? Excuse

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me. Exhibit 5A.

THE REPORTER: (Complies with request.)

Q. Can you see Exhibit 5A, Mr. Fralix?

A. I can.

Q. Do you need me to scroll down to the bottom or you just --

A. I can see it.

Q. Can you tell me whether you were involved in procuring the service of Davis & Floyd for this parking needs analysis?

A. Yes.

Q. Can you tell me what direction or what you requested of Davis & Floyd?

A. So both Hank and I were involved in this process, and the goal was to do -- by the scope of the request was to provide a site plan for the -- we were building a -- a facility for ticketing and storage of -- where people can stand and improved dock area and as much improved parking as -- as available within the site -- available site that we had.

Q. And this document reflects the parking needs; is that correct?

A. I'm sorry? The parking what?

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Q. Parking needs.

A. It reflects the parking needs as it associates with the boat landing and it -- any additional vehicle needs could be supported in part of this.

It is not a full comprehension of the needs of -- of the ferry operations. The ferry operations with this specific project, it was focused to meet the order that the county has to move operations from Buckingham Plantation.

And so the primary focus behind this was to provide a landing spot for the ferry boat in itself; and if this project moved forward, then we would still have to figure out additional parking requirements until other measures were taken care of.

Q. And did you direct Davis & Floyd on the methodology of estimating the number of vehicle spaces that were being proposed in this --

A. The direction was for them to make the pavilion and then provide as many additional vehicle spaces that they can while balancing boat landing trailer spaces at the same time.

Q. So when you received this document, did you review it?

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A. The -- the proposal?

Q. Yes. The parking needs analysis.

A. This is not a parking needs analysis. This -- this is parking as much spaces as possible. Not the full analysis of -- their scope was not to provide the parking needs of the entire ferry but just specific to this site is what this proposal was for.

MR. BYBEE: Ronda, scroll down among the document, please, to the table.

THE REPORTER: (Complies with request.)

Q. Can you see, Mr. Fralix, the title of the table is the Daufuskie Ferry Embarkation Parking Needs Analysis?

A. Uh-huh.

Q. Is that accurate?

A. I think what this is looking at is the current needs of what was represented in trying to re-create as much as possible at Buckingham Plantation.

Q. And when you use the term "current needs," you mean the current as of today as opposed to future needs; correct?

A. Yes.

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Q. All right. And the methodology that Davis & Floyd employed to estimate current needs, do you have any disagreement with that methodology?

A. I think they were taking the information that was currently being provided as far as the staffing and what is -- was being utilized at Buckingham Plantation.

Q. Was this based upon the current ferry operators' numbers, or was this the Haig Point contract numbers; or do you know?

A. That, I am not certain of.

Q. Okay. Reading the document it reflects four different periods of embarkation and disembarkation, does it not?

A. That's what it reads.

Q. And it also estimates the number of spaces necessary for the passengers arriving and departing, does it not?

A. That's what it reads.

Q. And then the -- it concludes at the last sentence that a total of 68 new vehicle spaces are proposed. Is that not correct?

A. That's what it reads.

Q. And that is -- is -- as you said, the

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current needs; correct?
A. Yes.
Q. Thank you.
MR. BYBEE: Madam Court Reporter, if you would go to Exhibit 7, please.
THE REPORTER: (Complies with request.)
Q. All right. We're now displaying Exhibit 7 from Mr. Amundson's 30(b)(6) deposition.
Do you recognize this document, sir?
A. I don't specifically recognize it; but it appears to be the town's application, their internal application and comment process.
Q. And the applicant that's listed is yourself; correct?
A. That's correct. So Davis & Floyd at this point was under contract and submitted the application. So they were the party that was facilitating this and the interaction back and forth between the town.
MR. BYBEE: Okay. Let's scroll down, Ronda, to Item 4.
THE REPORTER: (Complies with request.)

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Q. Can you just review that, Mr. Fralix.
A. (Complies with request.) Okay.
Q. That's concerning some offsite parking and an agreement with the DOT. Can you describe what the agreement with the DOT is?
A. So at that time we had a -- an encroachment permit with the DOT for the boat landing parcel and subsequently have a lease agreement in place with SC DOT in lieu of the encroachment permit.
Q. And that encroachment and lease agreement were for right-of-way by for the DOT, I'm going to say, underneath the 278 expressway. Is that not correct?
A. That's correct.
Q. Then in paragraph 5 there are a number of outstanding permits that were necessary to be obtained, at least as of the date. This application date was 10/20/2023. That's the application date. But at least at the time this document was made published, there was a number of different permits that have yet to be obtained by the town.
Is that a fair summary of paragraph 5?
A. That's correct.

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Q. Thank you.
Let's flip over then to page -- the second page of 2 and Items 24, 25, and 26 is what I would call your attention to.
THE REPORTER: (Complies with request.)
Q. Item 24 refers to an encroachment permit required for the jurisdictional agency due to work proposed on public dedicated right-of-way. Which jurisdictional agency does that refer to?
A. I believe this is referring to SC DOT and Helmsman -- the encroachment onto Helmsman Way.
Q. Not OCRM? Not anything else?
A. No. This is their review from the traffic engineer.
Q. Okay.
A. And so he's looking at that -- that element. So I believe that's what that comment is referring to.
Q. It -- it goes back to your prior testimony about your encroachment permit/lease from the DOT?
A. No. I think those are separate. Is what the -- if you go back -- can you scroll up

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to the previous comment, please?
Q. Which number?
A. The four.
Q. Four or five?
A. Four or five.
THE REPORTER: (Complies with request.)
A. If you can -- No. 5. And scroll up just a little bit further who this comment is from.
So, this is from development and zoning. So they're looking at the parcel itself, which is the underneath the bridge parcel. And so that -- they're referring to that encroachment permit and lease for the space underneath the bridge.
And if you go back down to -- the one in the 20s we were referencing.
Q. 24?
THE REPORTER: (Complies with request.)
A. On 24, this is the traffic engineering making a comment; and they're referencing, I believe, the -- an additional encroachment permit being required for the driveway improvements associated with the work as it -- as it meets in Helmsman Way.

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Q. Thank you. Now, can we focus on paragraph 25, please.
A. Okay.
Q. They're referencing some standard of -- I'm assuming that is a town standard. Can you explain what the town is -- the traffic engineer is trying to communicate?
A. Yeah. I think what the -- this comment is in reference to, this is a town standard; and typical spaces are 9 x 8 for vehicular spaces. And it appears that this comment is referencing the space most closest to a landscape island should be a 10-foot versus a 9-foot stall.
Q. Okay. And then the Item 26. What does that comment mean?
A. So this is signage within the parcel. So there's pathway signs that are near the roadway that would require stop signs and stop bars and one-way signage for the flow of traffic within the parcel would be required.
Q. Thank you.
And did the county respond to provide information concerning these 26 items?
A. Davis & Floyd was working through these comments back and forth with the town directly to

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seek a permit. So I'm not sure the status.
I don't believe at the end of the day that the permit was achieved. So I'm not sure the -- whether all these were addressed or not.
Q. All right. And as you sit here today, this permit has not been issued by the town; is that correct?
A. That's my understanding.
MR. BYBEE: Madam Court Reporter, Exhibit 9, would you display that?
THE REPORTER: (Complies with request.)
MR. BYBEE: Madam Court Reporter, that's not Exhibit 9. Thank you.
Q. Mr. Fralix, this is Exhibit 9 of the 30(b)(6) of Mr. Amundson.
Are you familiar with this document?
A. I am not.
Q. Would you read it for me, please?
A. (Complies with request.) Can you scroll down?
THE REPORTER: (Complies with request.)
A. Okay.
Q. Having read it, can you tell me what

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the -- the proposed work at 10 Haig Point Circle refers to in the first bullet point?
A. I'm not familiar. It's another -- it's another encroachment permit, it appears.
Q. Okay. Do you know -- are you familiar with the address of 60 Helmsman Way?
A. I am not.
Q. If you would, then go to the third bullet point; and it references a phone call with Duncan O'Quinn. Do you -- can you see that?
A. In the fourth bullet point?
Q. Yes, sir.
A. Yes.
Q. Are you familiar with the summary of information provided in the fourth bullet point as far as asking Mr. O'Quinn to contact Hank Amundson?
A. I'm not familiar with that phone call.
Q. Okay. And then in the last bullet point, there was some realization that their schedule couldn't be made -- met because of the total redesign of the DRB schedule.
Are you familiar with that project?
A. That's the -- this is the project we were just discussing in the previous exhibit,

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yes, sir.
Q. So the fourth bullet point does refer to the Cross Island ferry embarkation point?
A. It -- excuse me. Say that again.
Q. The fourth bullet point -- if I understood your answer, I thought you were telling me the fourth bullet point refers to the Cross Island ferry permit application with the town.
A. The last one does. The fifth bullet point. I'm assuming the fourth one does, but I'm not familiar with that call.
Q. All right. Let me -- I miscounted the bullet points. Sorry.
During the last one, it -- it says, "After that comment," referring to the Duncan O'Quinn phone call which you tell me you're not familiar with, "and realizing they couldn't meet their December 31, 2024, deadline due to a total redesign and DRB schedule."
Are you familiar with what project that that is referring to?
A. Yeah. The 2024 deadline is the court order to Beaufort County to move from the Buckingham Plantation. So what Bullet No. 4 and

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No. 5 are referencing is the project as previously discussed in the last exhibit with the Cross Island Parkway boat landing improvements.

Q. Okay. And then it goes on to indicate that when they realized they couldn't make that deadline, they secured the location at Pinckney Island; is that correct?

A. That's correct.

Q. And is -- and that's factual, is it not?

A. That's correct.

MR. BYBEE: Madam Court Reporter, can you put up Exhibit 11?

THE REPORTER: I don't see an Exhibit No. 11, Mr. Bybee.

MR. BYBEE: See if you can send the court reporter Exhibit No. 11.

Madam Court Reporter, we have forwarded to you a number of photographs this afternoon that were provided to us by Mr. Murphy's office.

THE REPORTER: Did you tell me which one you wanted to start with? I didn't hear you.

MR. BYBEE: There's a group of photographs. We're going to go through each of them. You can display them in the order that you find them, and I'll match them as you go.

THE REPORTER: (Complies with request.)

Q. Mr. Fralix, can you see this photograph? [Exhibit No. 13A]

A. I can.

Q. Are you familiar with it?

A. Nope.

Q. Do you know what it depicts?

A. I believe so.

Q. What does it depict?

A. It appears to be a gentleman fishing at the head of the dock at Buckingham Plantation.

Q. And why do you think it's Buckingham Plantation?

A. I'm sorry. Excuse me. At C. C. Haigh.

Q. Pinckney Island; correct?

A. Pinckney Island, that's correct.

Q. Have you ever seen the photograph before?

A. Nope.

Q. You just recognize Pinckney Island?

A. That's -- that's what it appears from the limited surroundings.

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Q. You've been there?

A. I have.

Q. You've been there since the ferry dock operation has opened at Pinckney Island, have you not?

A. I have but not recently.

Q. But that's -- but you looking at the photograph and from your memory, that's what this photograph you think is of Pinckney Island; correct?

A. That is my -- yes. That's what I think it is with this limited information seen.

Q. And do you see the -- the pedestrian separators?

A. I do.

Q. What is -- what is the purpose of the pedestrian separators at Pinckney Island?

A. To -- I would -- at Pinckney Island, the -- where the ferry is operating from, is to direct people to the appropriate location for them to embark on the ferry.

Q. All right. Is the gentleman fishing within that embarkation area?

A. It appears so.

Q. Is the gentleman fishing blocking the entrance where the ferry needs to pull in?

A. I don't know where his line is located in the water, but he himself is not in the way of the landing location of the ferry.

Q. Have you had any conversation with the ferry operator or are you aware of any complaints from the ferry operator about interference with the landing by members of the public with the ferry operation?

A. I have had no -- I have not had conversations, but I am aware of conversations regarding interference with their operations and public access to this portion of the dock.

Q. And what do you understand to be the complaint of the ferry operator and its -- its interruption of ferry operation?

A. My understanding is in order to safely facilitate pedestrian access to the landing area, that having additional use, the fishing operation or the fishing as shown, is a conflict to -- to them being able to efficiently and safely operate.

Q. And was that information of a concern ever communicated directly to you by the ferry operator?

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A. No.
Q. What was your source of information?
A. Hank Amundson is the direct point of communication with Lowcountry Ferry and so just hearing -- hearing the information from Hank.
MR. BYBEE: Okay. The next photograph, please, Madam Court Reporter. [Exhibit No. 13B]
THE REPORTER: (Complies with request.)
Q. This -- this one appears to be a cutting board -- fish cutting board. Would you agree with me?
A. I'm not sure what it is but it -- I'm not sure what it is. It could be that, but I'm not sure.
Q. The title at the top says, "Bloody check-in podium." Do you see that?
A. I do see that.
Q. Do you know what that information is intended to convey?
A. I don't, no. I am not familiar with this.
Q. Could it be that it is part of the ferry operator complaint with respect to the access at

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the embarkation point at Pinckney Island?
A. It could be, but I am not -- I don't know what this picture is.
Q. Thank you, sir.
MR. BYBEE: The next one. [Exhibit No. 13C]
THE REPORTER: (Complies with request.)
Q. This legend is entitled "Boarding lane block-fishing"; and it's, basically, a repeat of the same photograph that we looked at first. The first photograph we looked at, but it is a different angle.
Would you agree with that?
A. Yes.
Q. Does this appear to interfere with the embarkation point?
A. So I don't know who was there first, the person or the barricades or the direction of traffic of pedestrians. So I -- it appears that it's separated, but I don't know if it's blocking or not. I can't tell by the picture.
Q. So the only thing you would have to go on is the legend at the top of the photograph?
A. Yeah. And I am -- I'm unfamiliar with

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the legend or the picture before today.
MR. BYBEE: Next item, please. Or photograph. [Exhibit No. 13D]
THE REPORTER: (Complies with request.)
Q. This photograph is identified as "Boat at ferry dock." Do you see the boat at the ferry dock?
A. I do.
Q. Is the boat at the ferry dock going to interfere with the ferry if it was going to dock at the same time?
A. So, yes, if -- if there is additional use, other than the ferry use, there would be a conflict of operations.
MR. BYBEE: Next photograph, Madam Court Reporter. [Exhibit No. 13E]
THE REPORTER: (Complies with request.)
Q. And this legend on this photograph reflects a boat docking at ferry dock.
Do you see that?
A. I see that.
Q. That is what the photograph depicts; correct?

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A. That's what it appears, yes.
Q. And if the ferry were attempting to land for disembarkation and embarkation, this boat would be in the way. Is that not correct?
A. That's correct.
MR. BYBEE: The next photograph, Madam Court Reporter. [Exhibit No. 13F]
THE REPORTER: (Complies with request.)
Q. Mr. Fralix, this photograph is entitled "Boat tied up ferry dock." Do you see it?
A. I do.
Q. Does that interfere with ingress and egress by the ferry operator?
A. If that's in the same location, then that would also interfere; but I can't tell from the picture where specifically that boat is located.
Q. Right. You have to assume it's the same boat we saw in the prior picture?
A. I -- I didn't pay attention to the type of boat of the last picture. So I'm not sure.
Q. Would it help you to go back and look at that?
A. Sure.

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MR. BYBEE: Can you flip backwards, Ronda?

THE REPORTER: (Complies with request.)

Q. That's a different angle, but does that look like the same boat?

A. I can't tell.

MR. BYBEE: All right. Next photograph. [Exhibit No. 13G]

THE REPORTER: (Complies with request.)

Q. There is a photograph of a gentleman with a -- looks like a fishing hoodie titled Southern Summers Charters. Do you see that?

A. I do.

Q. And it says, "Charter captain resisting." Do you know what that title means?

A. I do not.

Q. Do you know the legend of Southern Summers Charters?

A. I do not.

Q. Do you know the captain of your ferry operation?

A. I do. I do not know the captain, no. I do not know who the captain is.

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Q. Do you know the charter captain that this is referring to?

A. I do not.

MR. BYBEE: Next photograph, please, ma'am. [Exhibit No. 13H]

THE REPORTER: (Complies with request.)

Q. This next photograph is labeled "Charter ops on ferry dock." Do you see that?

A. I do.

Q. Is that boat located in the spot which would interfere with the ferry operation on Pinckney Island?

A. I don't know. From the picture I can't tell what dock that is. I don't know if that is the same dock that we were just looking at.

MR. BYBEE: Next photograph, please, ma'am. [Exhibit No. 13I]

THE REPORTER: (Complies with request.)

Q. This one is entitled "Fishermen blocking embarkation."

MR. BYBEE: Can you expand on the photograph, Ronda, please?

THE REPORTER: (Complies with request.)

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Q. Do you see anybody on the dock fishing, Mr. Fralix?

A. I can't see clearly what -- I see people, but I don't see what they're doing specifically.

Q. You don't see an individual sitting down with his feet above the water?

A. I see that, but I can't tell if that individual's fishing.

Q. Can you tell that the photograph is being taken from the ferry?

A. I can't tell. I don't know what boat it's being taken from.

Q. All right. But you do recognize that the legend is entitled "Fishermen blocking embarkation"?

A. Yes.

Q. And you were aware of some complaints from the ferry operator to that condition; is that correct?

A. That's correct.

MR. BYBEE: Okay. Next photograph, please, Ronda. [Exhibit No. 13J]

THE REPORTER: (Complies with request.)

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Q. This photograph is entitled "Fishing charter blocking the ferry dock."

Do you think it's aptly named?

A. It looks like it's the ferry embarkation dock, yes.

Q. And that would be an obstruction to the ferry operator. Is that not correct?

A. If the ferry was trying to land, yes.

MR. BYBEE: Next photograph please, Ronda. [Exhibit No. 13K]

THE REPORTER: (Complies with request.)

Q. And this one is another photograph of other fishermen. This is titled "Fishing on ferry dock," and it's taken from an angle that has the separators for those who are attempting to embark or disembark from the ferry; is that correct?

A. Yes.

Q. And that interference would not be a safe position during the time when the ferry is embarking or disembarking. Would you agree with that?

A. Agreed.

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MR. BYBEE: The next photograph, please, Ronda. [Exhibit No. 13L]

THE REPORTER: (Complies with request.)

Q. This is -- this photograph is entitled "Vandalism by fishermen." Have you seen vandalism depicted in this photograph?

A. I see a broken sign.

Q. So the author of the photograph is the one that's labeling it as vandalism; is that correct?

A. That's correct.

Q. Is that consistent with your understanding of the complaints the ferry operator is having as to the current operation at Pinckney Island?

A. I'm not specifically aware of vandalism.

MR. BYBEE: Madam Court Reporter, the last exhibit is?

MR. DOTTERER: Madam Court Reporter, this is Joey Dotterer. What is your email address? I just want to send you Exhibit 11.

MR. BYBEE: Madam Court Reporter, can you hear him?

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THE REPORTER: Yes, I just had to unmute.

(Off-the-record discussion.)

MR. BYBEE: Ronda, now let's do a little housecleaning here. For the last exhibits, we provided you a series of exhibits that were marked at Mr. Amundson's deposition. What is the last exhibit that you have? Is it 12?

THE REPORTER: Looks like nine and then one that says the final exhibits.

MR. BYBEE: Okay. So as to the photographs themselves, I want you to label those photographs as Exhibit 13; and for each photograph we would have an alphabetical letter thereafter. So that it would be 13A, B, C, et cetera, in the order that we just went through so that we have some clarity when we reread this. Is that fair?

THE REPORTER: Yes, sir.

MR. BYBEE: Thank you. The next document I need displayed does not have an exhibit number and -- but it's in, as you've said, titled final exhibits. Can you pull that up, please?

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THE REPORTER: (Complies with request.)

MR. BYBEE: This is titled "No. 81-1 An Ordinance to Regulate the Use of Pinckney Island Landing." And if you go over three pages, you will see the signature page for the Beaufort County council chairman that signed the ordinance. That document I want marked as Exhibit No. 14 to this deposition.

(Exhibit No. 14 was marked for identification.)

Q. Mr. Fralix, are you familiar with this ordinance?

A. I am familiar with it. I -- I have seen it before.

Q. This is the -- an ordinance passed by Beaufort County referencing the regulation of Pinckney Island Landing; is that correct?

A. Was -- was that a question? I'm sorry.

Q. Yes.

A. Yes, that's -- that's -- I don't see the title but -- yeah. The title is to regulate the use of Pinckney Island Landing.

Q. And the uses as authorized by the ordinance are for the landing itself, docks, the

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fishing ramps; is that correct?

A. County landings, docks, and fishing ramps, yes.

Q. And then the rest of the ordinance speaks for itself.

And you -- you came to the knowledge of this ordinance how?

A. As part of the 278 project that I am the project manager, this was information provided to the design team for them to coordinate with US Fish and Wildlife on the 278 project.

Q. Okay. And the design team, was that DOT; or was that a combination of DOT and private contractors? Who were you referring to as far as a "design team"?

A. Yeah. A combination of SC DOT and private contractor. The design engineer of record is KCI.

MR. BYBEE: Okay. Madam Court Reporter, the next document I want to label is a mutual agreement to use certain property within Pinckney Island National Wildlife. If you'll scroll down just a little bit to the bottom of the page, you'll see a Bates number. Okay. See that? 15821. So this document goes to Bates

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No. 15825, and I want it marked as Exhibit No. 15.

THE REPORTER: (Complies with request.)

(Exhibit No. 15 was marked for identification.)

Q. Mr. Fralix, looking at the front page of Exhibit 15, and whatever else you need to look at, are you familiar with this document?

A. Yes.

Q. And would you describe what it is?

A. It's an agreement between the Pinckney Wildlife Refuge and the state -- or excuse me. Between the state and Beaufort County as far as use of the Pinckney Island Wildlife Refuge, or at least that portion of the refuge as defined in the document.

MR. BYBEE: Okay. Madam Court Reporter, the third page of the document is labeled page 2 and has Bates No. 15823 on it. If you would go to that page, please.

THE REPORTER: (Complies with request.)

Q. Mr. Fralix, I'm going to call your attention to paragraph 3. First of all, let me

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ask you before I go to the paragraph. Are you familiar with this document provided?

A. Yeah. This is the same document. Yes.

Q. This is part of the package that you provided the DOT and its consultants in connection with the 278 project; correct?

A. That's correct.

Q. All right. And then the third paragraph it says, "County shall use the described parcel of land solely as a ferry and boat launching site."

Did I read that correctly?

A. That's how that reads --

Q. And --

A. -- correct.

Q. -- is that a correct summation of the mutual agreement or one of the parts of the mutual agreement between the Pinckney Island National Wildlife Refuge and the State Budget and Control Board of Beaufort County?

A. That's part of this agreement, yes.

Q. And then it reflects a paragraph -- in the middle of that paragraph, "Prior to construction of any facilities on the property, the county shall obtain written approvals of

Page 47

plans from the US Fish and Wildlife Service."

Did I read that correctly?

A. That's correct.

Q. Are you familiar with plan submittals to the US Fish and Wildlife Service?

A. I don't know. Are you -- regarding the improvements or what are -- what plans are you referencing?

Q. It's an open-ended question. If you're familiar with anything, that's what I'm asking.

A. So I am not familiar with any plans of improvements prior to the facility operations being moved from Buckingham Landing.

Q. When the facilities were moved from Buckingham Landing to Pinckney Island, what facilities were there?

A. There was a boat landing with some rock parking and open air -- open grass area and then a -- a dock as it's currently configured, separate dock, that has two floats, one on either side, as it's currently configured.

Q. And was that dock where the current ferry operations are tying in and utilizing --

A. Yes.

Q. -- that dock to the embarkation and

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disembarkation?

A. Yes.

Q. So your knowledge is limited to those features and not, for example, the original plans for the dock and what have you?

A. That's correct.

Q. Okay. I understand.

MR. BYBEE: All right. Madam Court Reporter, that's -- hang on one second. That's all I have on Exhibit No. 15. If you would go -- scroll to the next page of that compiled exhibit.

THE REPORTER: (Complies with request.)

MR. BYBEE: All right. And I would like this document labeled as Exhibit No. 16. It is titled Easement Exchange Agreement Pinckney Island National Wildlife Refuge and the State Budget and Control Board and the US Fish and Wildlife Services; and it's got a Bates number at the bottom of that page of 15826 and ends at 15836. That's how I would like to have Exhibit No. 16 to be shown. Do you understand?

THE REPORTER: Yes, sir. (Complies with request.)

MR. BYBEE: Thank you.

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(Exhibit No. 16 was marked for identification.)

Q. Mr. Fralix, are you familiar with this document?

A. Yes.

Q. Would you describe it, please?

A. This is an easement document between US Fish and Wildlife and the State Budget and Control Board in regards to the -- the approximately 6 acres south of the US 278 bridge open air -- open area acreage.

Q. All right. And then on the second page of the document --

MR. BYBEE: If you scroll down, please, Ronda. There we go.

THE REPORTER: (Complies with request.)

Q. Do you see where it -- in the first "whereas" clause mentioning a number of islands including Pinckney Island?

A. Yes.

Q. And do you see the next "whereas" clause, the state was desiring to use it as a ferry landing?

A. Yes.

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MR. BYBEE: Would you turn to the next page, which is Bates No. 15828.

THE REPORTER: (Complies with request.)

Q. And now we have a couple of clauses that start with the word "that." I want to go to the third paragraph that starts with the word "that."

Are you familiar with the document, sir; or do you want to read it?

A. I would need to read it if you're going to ask a question reference --

Q. Please do.

A. (Complies with request.) Okay.

Q. The paragraph reads that the state and the service agree that the intent and purpose of this agreement is to provide for the state's use of Last End Point as a ferry and boat launching site and to provide for facilities to affect such purposes to be constructed thereon.

Did I read that correctly?

A. Yes.

Q. Can you describe for me what the "Last End Point" refers to?

A. For the remainder of that or -- are you talking about --

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Q. It says, "Provide for the state's use of Last End Point" all in caps. Is that part of Pinckney Island, or do you know?

A. I think what that's in reference to, Last End Point, is the exhibit that's referenced later in the document that shows the 6 -- approximately 6 acres.

Q. Thank you, sir.

And so the intent and purpose was to provide both ferry and boat launching facilities at that location; correct?

A. That's what it appears the intent of the agreement, yes.

Q. And provide for facilities to effect such purposes to be constructed thereon; correct?

A. Correct.

Q. Are you familiar with any restriction on the kinds of facilities that can be constructed in order to support ferry embarkation?

A. No. All that I'm familiar with is as it reads in the verbiage discussed.

Q. But as far as the facilities that you're familiar with it, it was the dock, the ramp, and the parking area that you described; is that correct?

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A. Those are the ones that have been constructed, yes.

Q. Thank you.

MR. BYBEE: Ronda, if you would go on to Bates No. 015829. And I want to direct your attention to paragraph 1.

THE REPORTER: (Complies with request.)

A. Which -- which paragraph? There's two No. 1s.

Q. It starts out "the state shall use the property solely for the purposes of the ferry and boat launching facility."

A. Okay.

Q. Do you see that?

A. I see it.

Q. Okay. And then it continues that the state may improve, construct, and maintain a ferry slip and/or launching ramp, transport vehicle supplies and people to Daufuskie and other islands, and a boat ramp to load and unload vehicles on the ferry; correct?

A. Yes.

Q. To your knowledge, has there ever been a boat ramp to unload and load the vehicles from

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the ferry constructed at that location?
A. So there's a boat ramp there. Whether it's been used to unload vehicles or not, I'm not aware of that.
Q. Okay. Thank you.
And then in the last sentence of that paragraph, "The service," referring to Fish and Wildlife Service, "reserves the right to review and approve all construction plans prior to any construction."
You're not -- are you aware of any such tables or plans in the past?
A. No. I -- I don't know what plans have been submitted to Fish and Wildlife in the past.
Q. And in connection with the current operation of Pinckney Island, did the county submit anything to the Fish and Wildlife Service for review and approval for the use of the -- the ferry operation as it was conducted today?
A. Yes. There was coordination. I don't know what plans were submitted. I know there was -- I'm -- I'm pretty sure there was email correspondence describing the intent and the plans and response from Fish and Wildlife.
Q. And who crafted the plans and what plans

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were you -- were being submitted to Fish and Wildlife via this email?
A. Again, I don't know if it was formal set of plans or if it was a description of the -- of the work to be associated with the ferry, the current ferry use.
Q. Have you seen the email itself?
A. Yes.
Q. Do you have a copy of the email?
A. I think I can produce it, yes. I believe the email was between myself and the representative from Fish and Wildlife.
Q. Do you recall the name of the person at Fish and Wildlife?
A. I don't off the top of my head.
Q. Would you provide --
A. Yes.
Q. -- Mr. Murphy a copy of that email and whatever attachments that are contained therein?
A. Certainly.
(This page contains Requested Information.)
MR. BYBEE: Madam Court Reporter, that's all I have on Exhibit No. 16. And then the last document we have marked as Exhibit

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No. 17, is titled Management Agreement Copy Not Executed; and it is at Bates No. 15837.
THE REPORTER: (Complies with request.)
(Exhibit No. 17 was marked for identification.)
Q. Are you familiar with this management agreement, Mr. Fralix?
A. Yes. I know it's part of the overall agreement.
Q. Okay. All of these documents that we've been talking about were submitted to DOT and the consultants; correct?
A. That's correct.
Q. And, again, this management agreement is referring to the Pinckney Island location; and it is the agreement between the State and the US Fish and Wildlife Service. Is that fair?
A. Yes.
Q. And it's also concerning public park and boat launching site; correct?
A. Yes.
MR. BYBEE: Paragraph 4 at Bates No. 15839, Madam Court Reporter, if you'll scroll to that.

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THE REPORTER: (Complies with request.)
Q. That paragraph provides that county is responsible for maintaining the property in a clean and orderly condition. And then provides: Structures, facilities, and equipment placed on the property by the county shall remain the property of the county and may be removed within six months of filing the termination of the agreement.
Is that -- did I read that correctly?
A. Yes.
Q. Are you familiar with any of the definitions of the term structures and facilities or facilities?
A. No. I don't know if there's definitions to this document.
Q. Okay. Has there been discussion between the county and the wildlife or others, including DOT and its consultants, as to what structures could be placed in addition to the ramp that's already there and the dock that's already there?
A. That -- that correspondence in the -- with US Fish and Wildlife as we described what we'd like to improve upon with additional

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parking, that --
Q. Is that the email that you referred to earlier, or is that a different document?
A. Same email.
Q. All right. So that one I've already requested; and if you would get that to Mr. Murphy, I'd appreciate it.
A. Sure.
MR. BYBEE: I'm about finished, gentlemen. If I could have five minutes, and we'll go from there. We'll take a break.
(A recess was taken.)
BY MR. BYBEE:
Q. Mr. Fralix, back to the -- to the -- the issue of the photographs that we went over.
Can you describe the steps the county is taking to address the complaints of its current ferry operator?
A. No. I am not the project manager associated with the ferry operations.
Q. And who is that individual?
A. Hank Amundson.
Q. Can you recall of any similar problems at Buckingham?
A. No. Not that I'm aware of, but I also

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was not the direct manager over that operation while it was at Buckingham either.
Q. Okay. And this is unrelated to the photographs. This is a general knowledge question.
Do you have an understanding of the term "public use" in the context of the condemnation of private property?
A. General understanding, yes.
Q. Describe that for me, please.
A. So "public use" being a use that county services provides to make available to public citizens, the use of that parcel.
Q. And is that the limits of your understanding of the term?
A. Yes.
Q. Another general question.
Prior to the condemnation of the property owned by Broad Creek by the county, do you recall any staff discussions of a landowner's right to challenge the condemnation prior to or after the filing of the -- of the condemnation notice?
A. I -- I don't know. I don't recall of any discussion. My understanding is from an

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infrastructure and transportation project as far as condemnation proceedings and my experience with condemnation proceedings have been that once the condemnation proceedings have been -- or the condemnation documents have been filed, then the county, then, therefore, has the right of entry while those condemnation proceedings take place through the court system.
Q. All right. So you just weren't -- were unaware as a staff person that a landowner could challenge a condemnation; is that correct?
A. That's my understanding. I am -- I am not the legal counsel for the county, but just the staff person from other working on transportation projects.
Q. And you lacked that knowledge prior to the condemnation and you lack that knowledge today?
A. I have since learned that via us in this deposition and me sitting here today that that is an appropriate action that a landowner can take.
Q. Okay. But it was not within your knowledge prior to the filing of the condemnation notice in this case?
A. That's correct.

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MR. BYBEE: Now, Madam Court Reporter, if you'd go to Exhibit 11.
THE REPORTER: (Complies with request.)
Q. Can you identify what's been marked as Exhibit 11 to Mr. Amundson's 30(b)(6) deposition?
A. Give me a second so I can review, please.
Q. And can you scroll down, Madam Court Reporter.
THE REPORTER: (Complies with request.)
A. (Complies with request.) If you could scroll down, please. Okay.
Q. Are you familiar with the document?
A. I am not familiar with the specific document, but I have seen documents like this before.
Q. How would you describe this document?
A. This is a permit approval for OCRM critical area permit.
MR. BYBEE: All right. And, Madam Court Reporter, if you would go forward in the document, there's a series of typed pages and then there's a series of formal letters pages.

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And I want to ask a question about page 2 -- is it 77? There we go. We got the right page.

THE REPORTER: (Complies with request.)

Q. This document does not have the signature of Mr. Robinson on behalf of Beaufort County. Is there another document with Mr. Robinson's signature?

A. I am unsure.

Q. Who would you ask?

A. Mr. Robinson. Or Miss Sherrill who was at this time the assistant -- John Robinson was the interim administrator. So Miss Sherrill is his assistant. Or was his assistant.

Q. Do you know whether or not if that -- the county purposely did not sign this permit application?

A. I'm not aware.

MR. BYBEE: Okay. Chris, if you would, see if you -- if there is one that's actually signed.

MR. MURPHY: All right.

MR. BYBEE: My recollection was that Hank said it wasn't a signed version. I'm just trying to nail that down.

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(This page contains Requested Information.)

MR. BYBEE: I have no further questions. Chris, do you have questions?

MR. MURPHY: I -- I don't have any questions.

MR. BYBEE: Madam Court Reporter, we appreciate your help and would ask that you expedite this transcript.

THE REPORTER: All right. When do you need it, Mr. Bybee?

MR. BYBEE: Chris, will you join me on this?

MR. MURPHY: Yeah, that's fine. It doesn't need to be tomorrow. It could be in a couple days so -- for me.

MR. BYBEE: I would like it as quickly as you can get it to me.

THE REPORTER: I can get it to you by tomorrow morning. How soon do you want it?

MR. BYBEE: That would be fine.

THE REPORTER: Morning. Okay.

(The deposition concluded at 3:26 p.m.)

- - -

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CERTIFICATE OF REPORTER
STATE OF SOUTH CAROLINA
COUNTY OF HORRY

I, Ronda K. Blanton, a Registered Professional Reporter and Notary Public for the State of South Carolina at Large, do hereby certify that the witness in the foregoing deposition was by me duly sworn to testify to the truth, the whole truth, and nothing but the truth in the within-entitled cause; that said deposition was taken at the time and location therein stated; that the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed by computer-aided transcription; that the foregoing is a full, complete, and true record of the testimony of the witness and of all objections made at the time of the examination; that this deposition was taken via videoconference and may contain misinterpreted words; and that the witness was given an opportunity to read and correct said deposition and to subscribe the same.

Should the signature of the witness not be affixed to the deposition, the witness shall not have availed himself/herself of the opportunity to sign or the signature has been waived.

I further certify that I am neither related to nor counsel for any party to the cause pending or interested in the events thereof.

Witness my hand, I have hereunto affixed my official seal on October 3, 2024, at Myrtle Beach, Horry County, South Carolina.

Ronda K. Blanton
NCRA REGISTERED PROFESSIONAL REPORTER, RPR
Notary Public,
State of South Carolina at Large
My Commission expires:
May 15, 2028.

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DEPONENT CORRECTION SHEET

I, the undersigned, JARED FRALIX, PE, AS 30(b)(6) OF BEAUFORT COUNTY, do hereby certify that I have read the foregoing deposition and wish to make the following clarifications and/or corrections, if any.

PAGE	LINE	CHANGE	REASON

JARED FRALIX, PE Date

RB

EXHIBIT

13A

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EXHIBIT
13B
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EXHIBIT

13C

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EXHIBIT
13D
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13E

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13F
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GARMIN


EXHIBIT
13G
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SOUTHERN SUMMERS
CHARTERS
ESTD
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EXHIBIT
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EXHIBIT

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13J
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13K
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HILTON HEAD

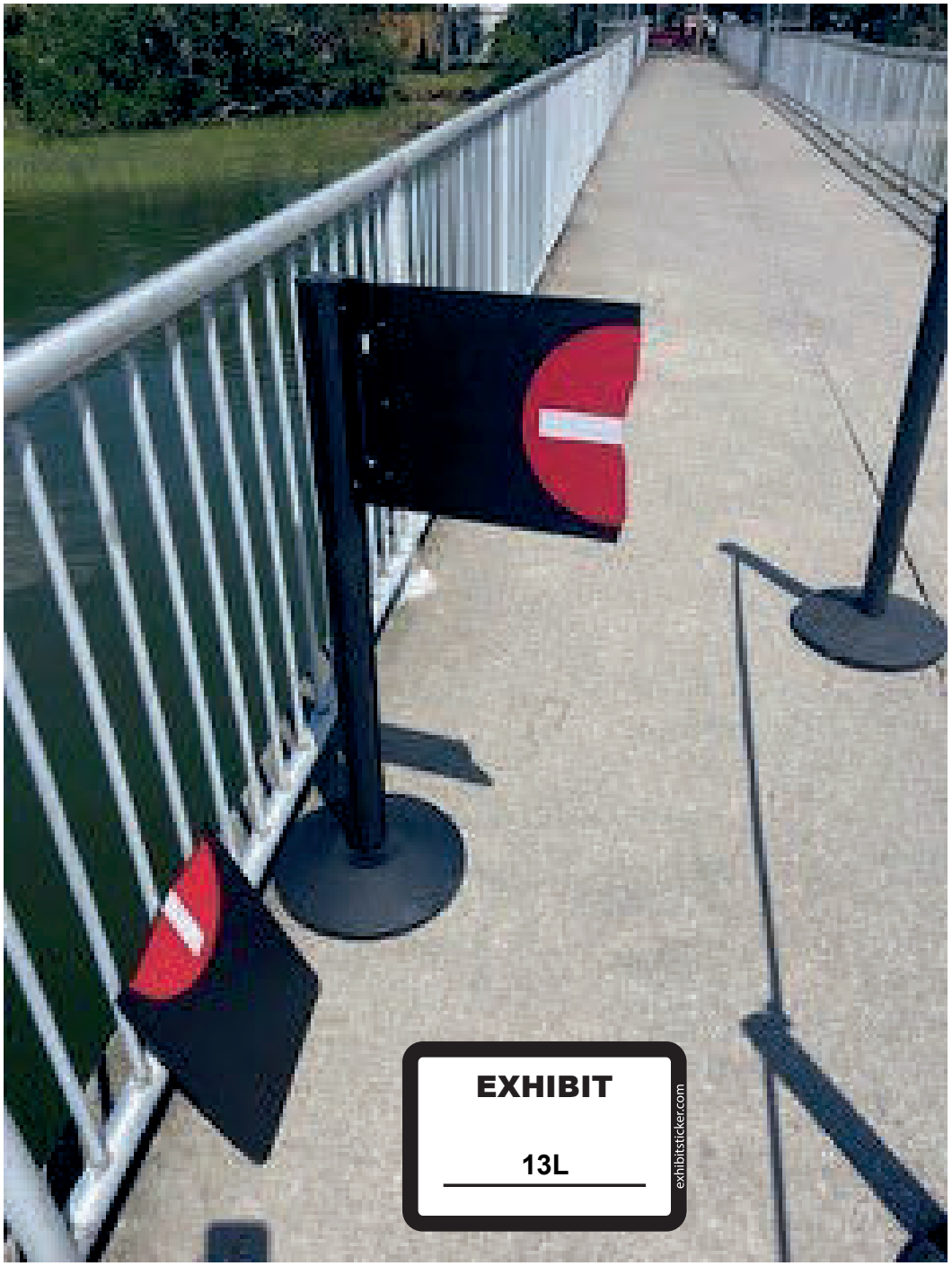

EXHIBIT
13L
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EXHIBIT
14
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No. 81 - 1

AN ORDINANCE

TO REGULATE THE USE OF PINCKNEY ISLAND LANDING

Section I.

County Landings, Docks and Fishing Ramps Defined. This Ordinance applies exclusively to Pinckney Island Landing which is leased from the U. S. Fish and Wildlife Service through the State of South Carolina and will be maintained by Beaufort County.

Section II.

Use of Pinckney Island Landing. Beaufort County's Pinckney Island Landing and ramp is maintained by the County for the purposes of a ferry access to Daufuskie Island and public access for fishing and boating; loading and unloading passengers, supplies, boats and boating gear. It is the policy of the County to maintain and regulate such facilities in a manner that is consistent with the agreements signed by the State and which will permit the County and public use of the facility and avoid continuous occupancy, congestion, or blocking thereof.

Section III.

Rules and Regulations That Apply Mutually to Boat Landings, Docks and Fishing Ramps.

1) No fires are allowed on County docks or landings. No overnight camping of any type will be permitted on County docks, landings, or ramps.

2) No person or agency shall build, maintain, extend or make structural alterations on any County landing, dock or fishing ramp without first obtaining a written permit to do so from County Council and the Public Works Director.

Section IV.

Landing Rules.

1) To assure County and public use and avoid extensive occupancy, congesting or blocking of County landings, the Beaufort County Public Works Director is authorized and directed to post signs limiting the time during which a vessel may be docked or gear may be placed at or on any County dock to three (3) hours.

2) Emergency vehicles and public carrier vessels shall have priority over all other vehicles at all County docks.

3) Sections of County landings to be used by public carrier ferry vessels shall be clearly posted as to the time of usage. No other vessel shall occupy marked sections during posted times.

4) No person shall fuel any vessel on County landings with any petroleum product directly from a tank, wagon or truck.

5) No person shall intentionally obstruct the free access to or any departure from any portion of any County landing.

6) It shall be unlawful to conduct commercial fishing operations of any type, including crabbing or loading oysters at Pinckney Island Landing.

Section V.

Landing Rules

1) No person shall intentionally obstruct access to or any departure from the landing by parking vehicles or submerging vessels in areas of such facilities. It shall be unlawful for any person to leave unattended or abandoned any watercraft within fifty (50) yards distance from any point of access to any Beaufort County boat landing whether it be from water or land; this provision shall apply to both commercial and private crafts. The Public Works Director is empowered to remove any watercraft or vessel which has been abandoned on or about a County landing for a period of one week or more. It is further provided that the Public Works Director may, in his discretion, destroy such abandoned watercraft or vessels if in his opinion the vessel was permanently abandoned as having no salvage value. It is further provided that those vessels removed by the Public Works Department which appear to have salvage value be towed to and stored at a location designated by the Sheriff where they may be claimed by the owner with proper identification and with payment of a towing fee not less than $25.00 or the actual cost of removal and towing, whichever is greater. Vessels left unclaimed after a period of thirty (30) days will be disposed of as provided by South Carolina Law.

2) Vehicles ready to load boats or trailers shall have preference over those ready to discharge, the order being on a first come basis.

3) The use of access ways and public boat landings shall be for placement in the water and the retrieving of boats from the water. It shall be unlawful to park unattended vehicles in access ways proper or in any posted no parking area of public boat landings.

Section VI.

Penalty

Any person, firm or corporation violating any provision of this Ordinance shall be fined not less than One Hundred ($100.00) Dollars, not more than Two Hundred and 00/100 ($200.00) Dollars and/or imprisonment for not more than thirty (30) days. A separate offense shall be deemed committed on each day during or on which a violation occurs or continues. Because this facility is operated under a cooperative agreement between the State of South Carolina, the U. S. Fish and Wildlife Service, and Beaufort County, Title 50 Code of Federal Regulations applies to the use of this facility.

APPROVED AND ADOPTED ON THIRD AND FINAL READING THIS 26th DAY OF JANUARY, 1981.

COUNTY COUNCIL OF BEAUFORT COUNTY

By Arthur Horne

Arthur Horne, Chairman

ATTEST:

Brenda Long

Clerk to Council

1st Reading: December 8, 1980
2nd Reading: December 22, 1980
3rd and Final Reading:
January 26, 1981



Mutual Agreement to Use Certain Properties within

Pinckney Island National Wildlife Refuge

July 21, 1981

SC State Budget and Control Board and Beaufort County

US Fish and Wildlife Services

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

AGREEMENT

THIS AGREEMENT, made and entered into this 21st day of July, 1981, by and between the SOUTH CAROLINA STATE BUDGET AND CONTROL BOARD, a State agency, hereinafter called STATE, and the COUNTY OF BEAUFORT, a political subdivision of State government, hereinafter called COUNTY, WITNESSETH THAT:

WHEREAS, the STATE has entered into negotiations with the Department of the Interior, U.S. Fish and Wildlife Service, concerning a mutual agreement to use certain properties within the Pinckney Island National Wildlife Refuge in Beaufort County, South Carolina; and

WHEREAS, the U.S. Fish and Wildlife Service has under its administration a tract of land more particularly described as:

> A portion of that certain tract, piece or parcel of land, situated, lying and being in Beaufort County, South Carolina, located south of U.S. 278 and known as Last End Point of Pinckney Island and being more particularly described as follows:
>
> BEGINNING at the intersection of the southwest right-of-way boundary of U.S. Highway Number 278 with the line of mean high water on the east bank of Mackay Creek; thence southeasterly, with said southwest right-of-way boundary, a chord distance of 660 feet; thence S.29 55'W., 400 feet; thence N.60 05'W., 660 feet to the line of mean high water on the east bank of Mackay Creek; thence N.29 55'E., with said line of mean high water, 400 feet to the PLACE OF BEGINNING, containing 6.06 acres, more or less; this being a portion of those lands conveyed to the United States of America by quitclaim deeds of donation dated December 3, 1975, by John S. Dunhill and Thomas E. Jones, Jr., and recorded in Book 233, Page 2015, Clerk of Court, Beaufort County and dated December 4, 1975, by Natural Lands Trust, Inc., and recorded in Book 233, Page 2019, Clerk of Court, Beaufort County, hereinafter called "Last End Point," as shown on the attached map labeled Exhibit "A".

WHEREAS, the COUNTY has expressed its desire to use the above desired tract of land as a ferry and boat launching site and to make certain improvements thereon; and

WHEREAS, the STATE is the presumed owner, in trust, of certain tidelands within the Pinckney Island National Wildlife Refuge and the U.S. Fish and Wildlife Service has expressed its desire to use these tidelands for purposes associated with the wildlife refuge and has offered to exchange the use of the above described tract as a ferry and boat launching facility for the use of said tidelands as a wildlife refuge; and

Beaufort County-015822

WHEREAS, the STATE, subject to the terms and conditions of an agreement with the U.S. Fish and Wildlife Service concerning the use of the above referenced lands and tidelands, desires the COUNTY to assume full responsibility for the construction, operation, maintenance, and supervision of a ferry and boat launching facility on Last End Point.

NOW, THEREFORE, IT IS MUTUALLY AGREED AS FOLLOWS:

1. The purpose of this agreement is to provide the COUNTY with rights and obligations concerning the use of a parcel of land known as Last End Point as a ferry and boat launching facility subject to the terms and conditions contained herein.

2. This agreement shall become effective on the date that an agreement is executed between the STATE and U.S. Fish and Wildlife Service which authorizes the State to enter upon the property and use such property as a ferry and boat launching site. This agreement shall have no effect unless and until the above mentioned agreement between the STATE and U.S. Fish and Wildlife Service is executed and shall terminate or expire on the date that such agreement terminates or expires. The COUNTY shall be subject to the terms and conditions of the agreement between the STATE and U.S. Fish and Wildlife Service as would be the STATE concerning the use of the property.

3. The COUNTY shall use the described parcel of land solely as a ferry and boat launching site, and shall be solely responsible for all construction, improvement, repair, maintenance and operation of the site. The area shall be kept, to the maximum extent feasible, natural-like in appearance. Prior to construction of any facilities on the property, the COUNTY shall obtain written approval of plans from the U.S. Fish and Wildlife Service. The COUNTY shall not use the property for any purpose inconsistent or incompatible with the use of the property as a ferry and boat launching facility and shall prevent inconsistent or incompatible uses by any other persons or persons.

4. The COUNTY shall be responsible for maintaining the property in a clean and orderly condition at all times. Structures, facilities, and equipment placed on the property by the COUNTY shall remain the property of the COUNTY and may be removed at any time within six (6) months following the termination of this agreement, provided, however, upon

Beaufort County 015823

termination, and a demand by the U.S. Fish and Wildlife Service, the COUNTY shall be responsible for restoring the property to its original condition.

5. The COUNTY shall comply with all laws and regulations applicable to the area as the Pinckney Island National Wildlife Refuge. This agreement does not obviate the necessity to obtain any other local, State, or federal permission or approval for the use or construction on the property. The COUNTY agrees that in the construction, operation, and maintenance of the project, no employee or applicant for employment shall be discriminated against because of race, creed, color, or national origin. An identical provision shall be included in all subcontracts.

6. The exercise of the rights and obligations herein agreed shall be without cost to the State.

7. The COUNTY agrees to save and hold the STATE and the U.S. Fish and Wildlife Service harmless from all damage suits in connection with the construction, operation, or maintenance on the property for such injuries or damages as may occur to persons or property from the use of the property or COUNTY facilities on the property.

8. Upon the request of an authorized representative of the U.S. Fish and Wildlife Service, the COUNTY shall assist the Service to prevent or suppress fires in the Pinckney Island National Wildlife Refuge by making available vehicles and manpower as might be reasonably availabe in the area of COUNTY for such purposes.

IN WITNESS WHEREOF, this instrument is being executed in accordance with the action of the South Carolina Budget and Control Board at its meeting held on the 28 day of July, 1981.

WITNESSES:

William A. McInnis

Donna K. Williams

THE STATE OF SOUTH CAROLINA

By Richard W. Riley
Governor Richard W. Riley

ATTORNEY GENERAL OF SOUTH CAROLINA

Approved Daniel R. McLeod
Attorney General Daniel R. McLeod

Beaufort County 015824

IN WITNESS WHEREOF, I have hereunto set my hand this 21 day of July, 1981.

WITNESSES:

THE COUNTY OF BEAUFORT

William Gary Horn

By [signature]

Jessie K. Barber
10/26/87

Beaufort County 015825



Easement Exchange Agreement

Pinckney Island National Wildlife Refuge

July 28, 1981

SC State Budget and Control Board and

US Fish and Wildlife Services

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

EASEMENT
EXCHANGE
AGREEMENT

THIS AGREEMENT, made and entered into this 28th day of July, 1981, between the Department of Interior, through the UNITED STATES FISH AND WILDLIFE SERVICE, hereinafter referred to as SERVICE, and the STATE OF SOUTH CAROLINA, BUDGET AND CONTROL BOARD, hereinafter referred to as STATE, WITNESSETH THAT:

WHEREAS, the SERVICE has under its administration certain lands located on Pinckney, Big Harry, Little Harry, Corn and Buzzard Islands in Beaufort County, South Carolina, known collectively as the Pinckney Island National Wildlife Refuge; and

WHEREAS, the STATE desires to use as a ferry landing and boat launching site a parcel of said property as hereinafter described:

> A portion of that certain tract, piece or parcel of land, situated, lying and being in Beaufort County, South Carolina, located south of U.S. 278 and known as Last End Point of Pinckney Island and being more particularly described as follows:
>
> BEGINNING at the intersection of the southwest right-of-way boundary of U.S. Highway Number 278 with the line of mean high water on the east bank of Mackay Creek; thence southeasterly, with said southwest right-of-way boundary, a chord distance of 660 feet; thence S.29 55'W., 400 feet; thence N.60 05'W., 660 feet to the line of mean high water on the east bank of Mackay Creek; thence N.29 55'E., with said line of mean high water, 400 feet to the PLACE OF BEGINNING, containing 6.06 acres, more or less; this being a portion of those lands conveyed to the United States of America by quitclaim deeds of donation dated December 3, 1975, by John S. Dunhill and Thomas E. Jones, Jr., and recorded in Book 233, Page 2015, Clerk of Court, Beaufort County and dated December 4, 1975, by Natural Lands Trust, Inc., and recorded in Book 233, Page 2019, Clerk of Court, Beaufort County, hereinafter called "Last End Point," as shown on the attached map labeled Exhibit "A".

WHEREAS, the STATE is the presumed owner in trust of certain tidelands, lying between the mean high and mean low water lines, located adjacent to Pinckney, Big Harry, Little Harry, Corn and Buzzard Islands in Beaufort County, such tidelands being within the boundaries of the Pinckney Island National Wildlife Refuge; and

WHEREAS, the SERVICE desires to use as part of the Pinckney Island National Wildlife Refuge those tidelands hereinafter described:

> Twenty-seven hundred and twenty-eight acres, more or less, of tidelands adjacent to Pinckney Island, Beaufort County, South Carolina, as shown on the attached United States Department of the Interior Map, Pinckney Island National Wildlife Refuge, Natural Lands Trust, Inc. et. al., tracts (10, a-k, m-n, p-r) Beaufort County, South Carolina, as recorded in Plat Book 24, Page 42, in the Office of Clerk of Court for Beaufort County dated November 17, 1976, hereinafter collectively called "Tidelands."

Beaufort County-015827

WHEREAS, the SERVICE is authorized to enter into this agreement pursuant to provisions of the National Wildlife Refuge System Administrative Act of 1966 (16 USC Section 668 dd) and the STATE, pursuant to Sections 1-11-70, et. seq. of the 1976 South Carolina Code of Laws.

NOW, THEREFORE, IT IS MUTUALLY AGREED AS FOLLOWS:

THAT, the STATE, as grantor, in consideration of the sum of One Dollar ($1.00) and other valuable considerations, receipt of which is hereby acknowledged, does hereby grant and convey to the SERVICE, its successors and assigns, an easement in, to, upon, and over the above described Tidelands, such Tidelands situate in the County of Beaufort and lying below the mean high water line, for the purposes and under the conditions provided herein.

THAT, the SERVICE, as grantor, in consideration of the sum of One Dollar ($1.00) and other valuable considerations, receipt of which is hereby acknowledged, does hereby grant and convey to the STATE, its successors and assigns, an easement in, to, upon, and over the above described portion of Last End Point, such land situate in the County of Beaufort, for the purposes and under the conditions provided herein.

THAT, the STATE and SERVICE agree that the intent and purpose of this agreement is to provide for the STATE'S use of Last End Point as a ferry and boat launching site and to provide for facilities to affect such purposes to be constructed thereon and for the SERVICE'S use of the Tidelands as part of the Pinckney Island National Wildlife Refuge, under such conditions and restrictions as are herein contained.

THAT, it is further understood and agreed that Last End Point shall be under the administration of the County of Beaufort, which shall be responsible and liable for such construction, maintenance, supervision, and control as is specified in an agreement between the STATE and County of Beaufort dated the 21st day of July, 1981 and Beaufort County Ordinance #80, "To Regulate the Use of Pinckney Island Landing", attached hereto and incorporated by reference.

THAT nothing in this agreement shall be construed as waiving or relinquishing any claim, right, title or ownership, other than the mutual exchange of easements herein provided, by either party of their

Beaufort County-015828

respective properties.

The STATE is granted the use of that portion of Last End Point under the following terms and conditions:

1. The STATE shall use the property solely for the purposes of a ferry and boat launching facility. Together with the right of ingress and egress, the STATE may improve, construct, and maintain a ferry slip and/or launching ramp to transport vehicles, supplies, and people to Daufuskie or other islands and a boat ramp to load and unload vehicles on the ferry. The STATE may improve, construct and maintain such parking facilities, necessary to use the property as a ferry and boat launching site. Repair and maintenance of such facilities shall be the responsibility of the STATE. The SERVICE reserves the right to review and approve all construction plans prior to any construction. The STATE shall maintain the natural condition of the property to the greatest extent feasible.

2. All structures, facilities and equipment placed on the property by the STATE shall remain the property of the STATE and may be removed at any time within six months following the termination of this agreement. Upon termination and a demand by the SERVICE, the STATE within six months shall restore the property to its condition at the time this agreement becomes effective.

3. The STATE shall use the property solely for the purposes of a ferry and boat launching area and shall prevent any inconsistent or imcompatible uses.

The SERVICE is granted the use of the Tidelands under the following terms and conditions:

1. The SERVICE shall use the Tidelands solely as part of the Pinckney Island Natural Wildlife Refuge under authority of the Migratory Bird Conservation Act (16 USC Section 715). Together with the right of ingress and egress, the SERVICE may manage, limit, prohibit, and police the Tidelands, under the applicable provisions of Title 50 of the Code of Federal Regulations. The SERVICE may post or otherwise mark the Tidelands and may enforce such regulations as are consistent and compatible with the maintenance of the area as a wildlife refuge, provided, however, the SERVICE shall not prohibit, obstruct or otherwise impair the right of public navigation, fishing, crabbing or oyster

Beaufort County-015829

gathering in the Tidelands. Nothing in this agreement shall be construed as limiting the STATE's authority to manage shellfish, however, the STATE agrees to coordinate the management of shellfish with the SERVICE to avoid conflict. The STATE agrees that it will not grant any other party rights and privileges such as leases, easements or rights-of-way on the Tidelands subject to this agreement without the prior written approval of the SERVICE.

2. The STATE shall do everything reasonable both independently and on request of any duly authorized representative of the SERVICE to suppress any fires which may occur on lands to be occupied under the agreement including making available such vehicles and manpower as may be reasonably obtainable for the suppression of such fires.

THAT STATE AND SERVICE further agree:

1. That both parties will maintain the respective areas in a clean and orderly fashion.

2. That the exercise by the STATE and the SERVICE of the rights hereinabove agreed to shall be without cost to the other party.

3. That the STATE and SERVICE shall comply with all applicable laws and regulations. Title 50 regulations will be enforced on all lands encompassed by this agreement.

4. That in the construction, operation, and maintenance on the easement areas, no employee or applicant for employment shall be discriminated against because of race, creed, color, or national origin. An identical provision shall be included in all subcontracts.

5. That the STATE shall, to the extent permitted by State law, hold the SERVICE harmless and the SERVICE shall hold the STATE harmless from any damages suffered by or upon any person or persons or property on the respective easement areas.

This agreement shall be effective for a term of ninety-nine (99) years, at which time it shall expire. Either party may elect to extend the term of this agreement for an additional 99 years at any time prior to its expiration.

This agreement may be terminated by mutual consent of both parties upon six (6) months written notice. Upon expiration or termination, such interests as the STATE or SERVICE may have, shall revert to the respective party.

Beaufort County-015830

IN WITNESS WHEREOF, this instrument is being executed in accordance with the action of the South Carolina State Budget and Control Board at its meeting held on the 28 day of July, 1981

WITNESSES:

William A. McInnis

Donna K. Williams

THE STATE OF SOUTH CAROLINA

By Richard W. Riley
Governor Richard W. Riley

ATTORNEY GENERAL OF SOUTH CAROLINA

Approved Daniel R. McLeod
Attorney General Daniel R. McLeod

IN WITNESS WHEREOF, I have hereunto set my hand this 21st day of August, 1981.

WITNESSES:

Wm. A. Swanson

Ronald E. Hood

THE UNITED STATES OF AMERICA

By Walter O. Steuglitz
Regional Director
U.S. Fish and Wildlife Service

Edward Starr, III, and Ralph T. Starr as co-executors of the estate of Edward Starr, Jr., Deceased, Edward Starr, III, Mary Anne Ritchie, and Ralph T. Starr as the heirs of Edward Starr, Jr., Deceased, Harris Trust and Savings Bank (as Trustee of Deed of Trust of James M. Barker dated April 19, 1973), Robert R. Barker (as Trustee of Deed of Trust of James M. Barker dated April 19, 1973) and Hugh Barker, Cecily Barker Finley, Ralph Barker, and Robert R. Barker as heirs of James M. Barker, Deceased, and Natural Lands Trust, Inc., a Pennsylvania non-profit corporation, (hereinafter "parties of the third part") in their status as transferors to the U.S. Fish and Wildlife Service of the property in question, or as successors to the said transferors to join herein solely for the purpose of and do hereby consent to the provisions of the agreement made herein. The parties of the third part specifically do not warrant that the use restrictions cannot or will not be enforced by other parties in interest.

The parties of the third part, in consideration of the benefits

Beaufort County-015831

to be derived in the management of Pinckney Island National Wildlife Refuge from this agreement, do not construe the provisions of this agreement as intent to violate the restrictions as set forth in the deeds of conveyance from John S. Dunhill and Thomas F. Jones, Jr. and the Natural Lands Trust, Inc. to the U.S. Fish and Wildlife Service dated November 3, 1975, and December 4, 1975, respectively, which restrictions shall otherwise continue in full force and effect.

WITNESSES:

Unofficial

Notary Public
My Commission Expires May 31, 1982

NATURAL LANDS TRUST, INC.

By
Allston Jenkins

WITNESSES:

Unofficial

Notary Public
My commision expires April 13, 1982

HARRIS TRUST AND SAVINGS BANK

By
John S. Dunhill
Vice-President
Now Retired

WITNESSES:

Unofficial

Notary Public
My commision expires April 13, 1982

HARRIS TRUST AND SAVINGS BANK

By
Thomas F. Jones, Jr.
Vice-President

Beaufort County-015832

WITNESSES:

Jean E. Sanders
Unofficial

Maureen DeLorenzo
Notary Public

MAUREEN De LORENZO
Notary Public, State of New York
No. 41-4616328
Qualified in Queens County
Cert. Filed in New York County
Commission Expires March 30, 1983

By [illegible] for
Robert R. Barker

WITNESSES:

[illegible]
Unofficial

Martha L. Vaughn
Notary Public
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES JULY 30 1983
BONDED THRU GENERAL INS. UNDERWRITERS

By Hugh Barker
Hugh Barker

WITNESSES:

[illegible]
Unofficial

Helena J. Torres
Notary Public

OFFICIAL SEAL
HELENA J. TORRES
NOTARY PUBLIC - CALIFORNIA
Principal Office in San Diego County
My Commission Exp. Jan. 18, 1985

By Cecily Barker Finley
Cecily Barker Finley

WITNESSES:

[illegible]
Unofficial

[illegible]
Notary Public 3/3/84

By Ralph Barker
Ralph Barker

Beaufort County-015833

WITNESSES:

Lois K. Minderjahn
Unofficial

By Mary Anne Ritchie
Mary Anne Ritchie

Jean A Gilchrist
Notary Public
JEAN A. GILCHRIST
Notary Public Phila. Phila. Co.
My Commission Expires May 31, 1982

WITNESSES:

Lois K. Minderjahn
Unofficial

By Ralph T Starr
Ralph T. Starr

Jean A Gilchrist
Notary Public
JEAN A. GILCHRIST
Notary Public Phila. Phila. Co.
My Commission Expires May 31, 1982

WITNESSES:

Lois K. Minderjahn
Unofficial

By Edward Starr III
Edward Starr, III

Jean A Gilchrist
Notary Public
JEAN A. GILCHRIST
Notary Public Phila. Phila. Co.
My Commission Expires May 31, 1982

Beaufort County-015834

STATE OF SOUTH CAROLINA)
)
COUNTY OF RICHLAND)

PERSONALLY appeared before me William A. McInnis and made oath that he/~~she~~ saw the within named South Carolina State Budget and Control Board by Richard W. Riley, sign, seal and as their act and deed deliver the within Easement Exchange Agreement and that he/~~she~~ along with Donna K. Williams witnessed the execution thereof.

William A. McInnis
By:

Sworn to before me this 28th
day of July, 1981.

Lee C. Coggs
Notary Public for South Carolina
My Commission expires

My Commission Expires September 21, 1989

Beaufort County-015835

STATE OF GEORGIA)

)

COUNTY OF FULTON)

PERSONALLY appeared before me Wm. A. Swanson and made oath that he/she saw the within named United States Fish and Wildlife Service by Walter O. Stieglitz, sign, seal and as their act and deed deliver the within written Easement Exchange Agreement and that he/she along with Ronald E. Hood witnessed the execution thereof.

By: Wm. A. Swanson

Sworn to before me this 21
day of August, 1981.

Carol L. Marbutt
Notary Public for Georgia, State at Large

My Commission expires: Notary Public, Georgia, State at Large
My Commission Expires Aug. 6, 1985



Management Agreement

Copy not executed.

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

MANAGEMENT
AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 1979, by and between the SOUTH CAROLINA STATE BUDGET AND CONTROL BOARD, a State agency, hereinafter called STATE, and the COUNTY OF BEAUFORT, a political subdivision of State government, hereinafter called COUNTY, WITNESSETH THAT:

WHEREAS, the STATE has entered into negotiations with the Department of the Interior, U.S. Fish and Wildlife Service, concerning a mutual agreement to use certain properties within the Pinckney Island National Wildlife Refuge in Beaufort County, South Carolina; and

WHEREAS, the U.S. Fish and Wildlife Service has under its administration a tract of land known as "Last End Point" more particularly described as:

> All that certain tract, piece or parcel of land, situated, lying and being in Beaufort County, South Carolina, located south of U.S. 278 and known as Last End Point of Pinckney Island and being more particularly described as follows:
>
> That part of Pinckney Island lying southwest of U.S. 278, and bounded on southeast by the southwest right-of-way boundary of U.S. Highway 278 and on the east, south, and west by the line of mean low water, containing 49.70 acres, more or less; this being a portion of those lands conveyed to the United States of America by quitclaim deeds of donation dated December 3, 1975, by John S. Dunhill and Thomas F. Jones, Jr. and recorded in Book 233, Page 2015, Clerk of Court, Beaufort County, and dated December 4, 1975, by Natural Lands and Trust, Inc. and recorded in Book 233, Page 2019, Clerk of Court, Beaufort County.

WHEREAS, the COUNTY has expressed its desire to use the tract of land known as Last End Point as a public park and boat launching site and to make certain improvements thereon; and

WHEREAS, the STATE is the presumed owner, in trust, of certain tidelands within the Pinckney Island National Wildlife Refuge and the U.S. Fish and Wildlife Service has expressed its desire to use these tidelands for purposes associated with the wildlife refuge and has offered to exchange the use of Last End Point as a public park and boat launching facility for the use of said tidelands as a wildlife refuge; and

Beaufort County-015838

WHEREAS, the STATE, subject to the terms and conditions of an agreement with the U.S. Fish and Wildlife Service concerning the use of the above referenced lands and tidelands, desires the COUNTY to assume full responsibility for the construction, operation, maintenance, and supervision of a public park and boat launching facility on Last End Point.

NOW, THEREFORE, IT IS MUTUALLY AGREED AS FOLLOWS:

1. The purpose of this agreement is to provide the COUNTY with rights and obligations concerning the use of a parcel of land known as Last End Point as a public park and boat launching facility subject to the terms and conditions contained herein.

2. This agreement shall become effective on the date that an agreement is executed between the STATE and U.S. Fish and Wildlife Service which authorizes the State to enter upon the property and use such property as a public park and boat launching site. This agreement shall have no effect unless and until the above mentioned agreement between the STATE and U.S. Fish and Wildlife Service is executed and shall terminate or expire on the date that such agreement terminates or expires. The COUNTY shall be subject to the terms and conditions of the agreement between the STATE and U.S. Fish and Wildlife Service as would be the STATE concerning the use of the property.

3. The COUNTY shall use that parcel of land known as Last End Point solely as a public park and ferry launching site, and shall be solely responsible for all construction, improvement, repair, maintenance and operation of the site as a public park and ferry launching facility. The area shall be kept, to the maximum extent feasible, natural-like in appearance. Prior to construction of any facilities on the property, the COUNTY shall obtain written approval of plans from the U.S. Fish and Wildlife Service. The COUNTY shall not use the property for any purpose inconsistent or incompatible with the use of the property as a public park and boat launching facility and shall prevent inconsistent or incompatible uses by any other person or persons.

4. The COUNTY shall be responsible for maintaining the property in a clean and orderly condition at all times. Structures, facilities, and equipment placed on the property by the COUNTY shall remain the property of the COUNTY and may be removed at any time within six (6) months

Beaufort County-015839

following the termination of this agreement, provided, however, upon termination, and a demand by the U.S. Fish and Wildlife Service, the COUNTY shall be responsible for restoring the property to its original condition.

5. The COUNTY shall comply with all laws and regulations applicable to the area as the Pinckney Island National Wildlife Refuge. This agreement does not obviate the necessity to obtain any other local, State, or federal permission or approval for the use or construction on the property. The COUNTY agrees that in the construction, operation, and maintenance of the project, no employee or applicant for employment shall be discriminated against because of race, creed, color, or national origin. An identical provision shall be included in all subcontracts.

6. The exercise of the rights and obligations herein agreed shall be without cost to the State.

7. The COUNTY agrees to save and hold the STATE and the U.S. Fish and Wildlife Service harmless from all damage suits in connection with the construction, operation, or maintenance on the property for such injuries or damages as may occur to persons or property from the use of the property or COUNTY facilities on the property.

8. Upon the request of an authorized representative of the U.S. Fish and Wildlife Service, the COUNTY shall assist the Service to prevent or suppress fires in the Pinckney Island National Wildlife Refuge by making available vehicles and manpower as might be reasonably available in the area to COUNTY for such purposes.

IN WITNESS WHEREOF, this instrument is being executed in accordance with the action of the South Carolina Budget and Control Board at its meeting held on the _____ day of_____, 1979.

WITNESSES:

_____

_____

THE STATE OF SOUTH CAROLINA

By_____
Governor Richard W. Riley

ATTORNEY GENERAL OF SOUTH CAROLINA

Approved_____
Attorney General Daniel R. McLeod

IN WITNESS WHEREOF, I have hereunto set my hand this 11th day of December, 1979.

WITNESSES:

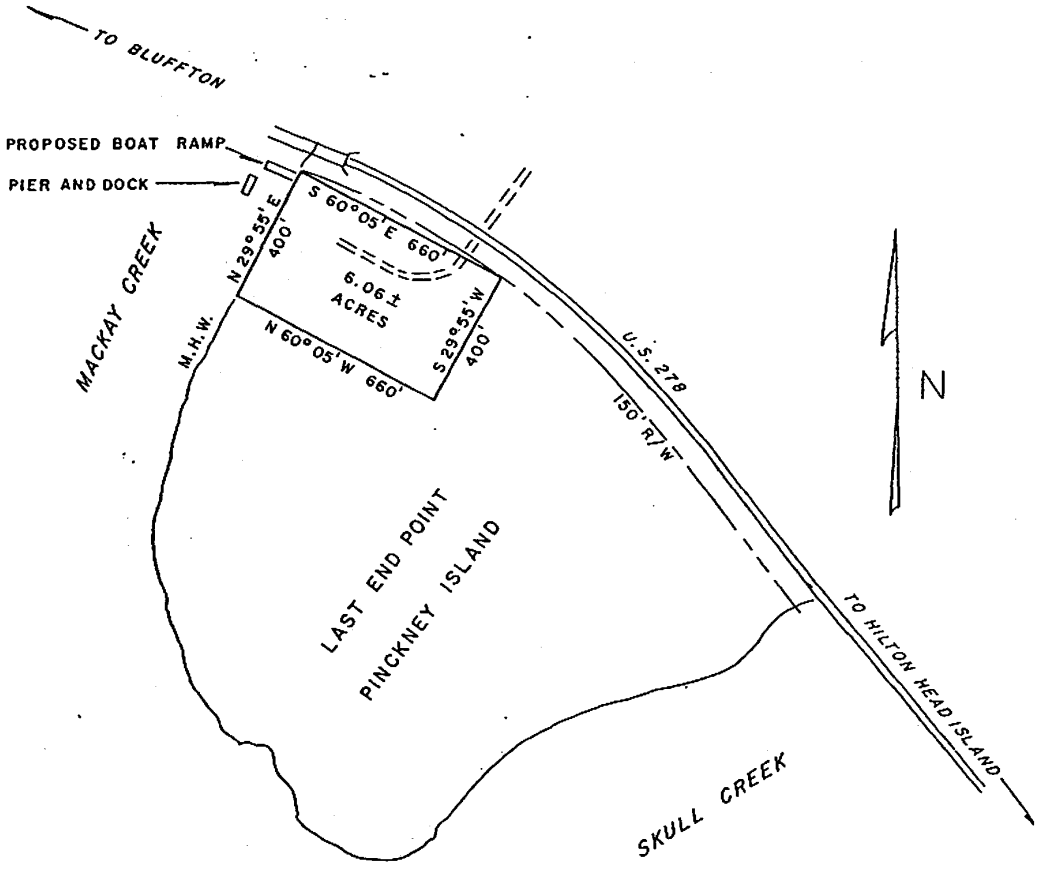
Brenda H. Long

THE COUNTY OF BEAUFORT

By Arthur Horne

Arthur Horne
Chairman

PINCKNEY ISLAND NATIONAL WILDLIFE REFUGE



BEAUFORT COUNTY
SOUTH CAROLINA

PLAT OF A PORTION OF LAST END POINT, PINCKNEY ISLAND, BEAUFORT COUNTY, CONTAINING 6.06 ACRES, MORE OR LESS, BEING THOSE LANDS REFERENCED EXHIBIT "A" IN EASEMENT EXCHANGE AGREEMENT BETWEEN STATE OF SOUTH CAROLINA AND U.S. FISH AND WILDLIFE SERVICE

SCALE : 1" = 400'

DATE : DECEMBER 22, 1980

BY: BEAUFORT COUNTY PUBLIC WORKS DEPARTMENT

EXHIBIT "A"

Beaufort County-015842

FISH AND WILDLIFE SERVICE

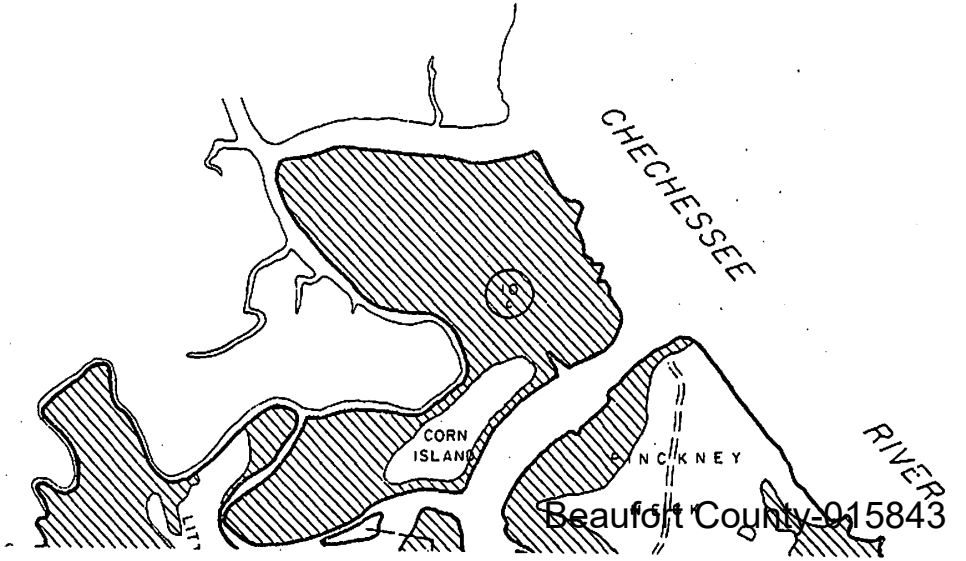
PINCKNEY ISLAND NATIONAL WILDLIFE REFUGE

NATURAL LANDS TRUST, INCORPORATED ET AL TRACTS
(10, a-k, m, n, p-r)
4052.70 ACRES
BEAUFORT COUNTY, SOUTH CAROLINA

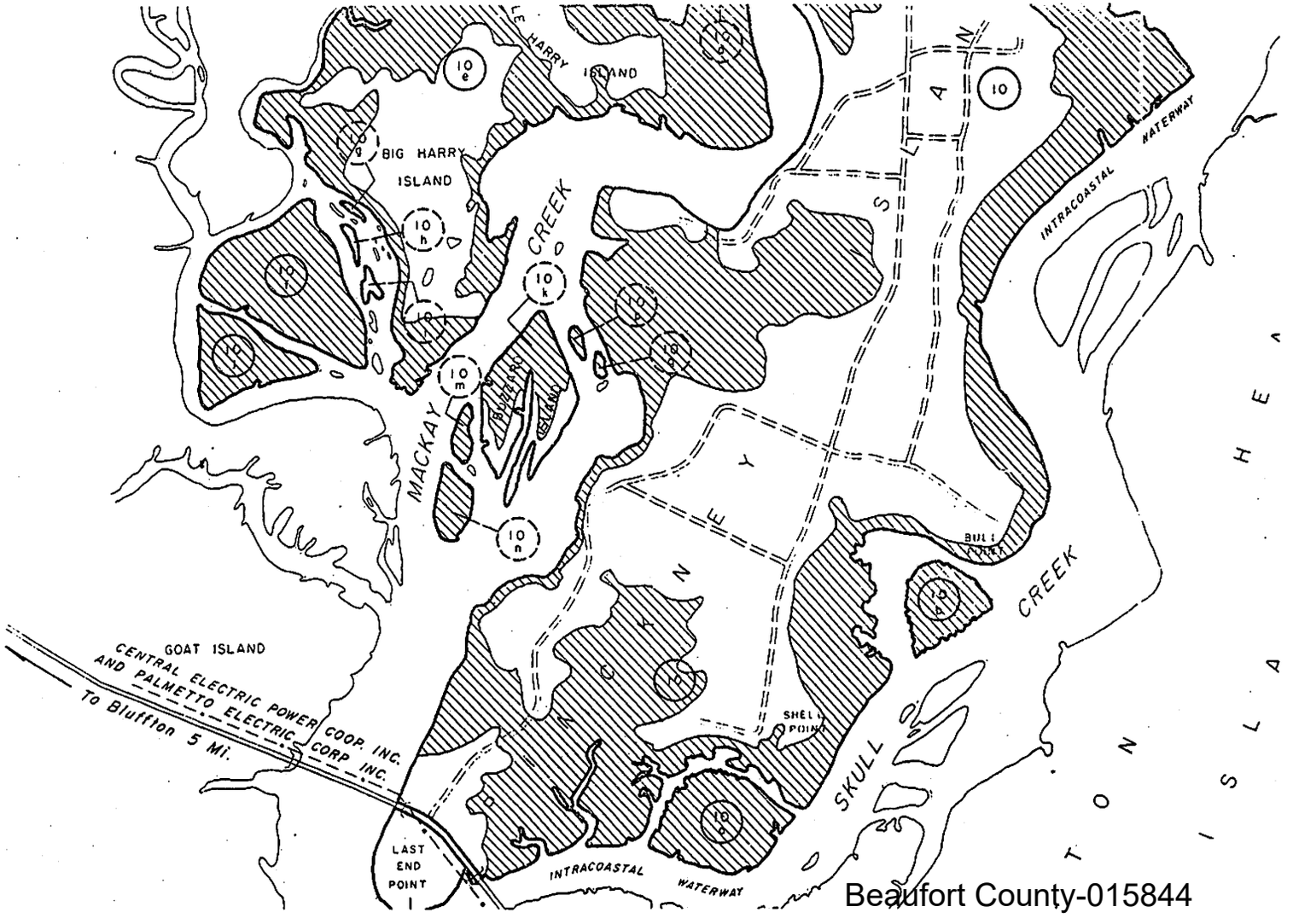
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TRACT	ACRES
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10b	36.20
10c	403.58
10d	4.59
10e	745.33
10f	108.36
10g	1.30
10h	1.99
10i	3.06
10j	45.00
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10m	6.05
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10p	2.30
10q	1.91
10r	49.70
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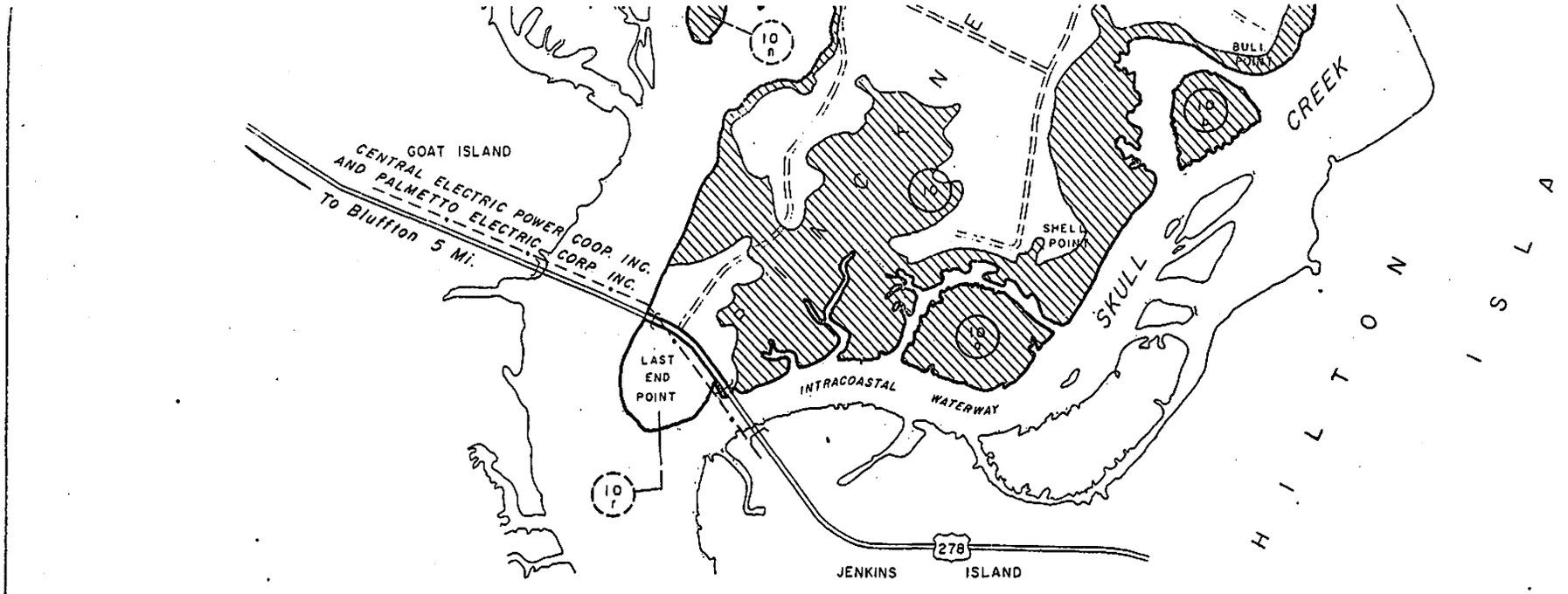




Beaufort County-015843



Beaufort County-015844



LEGEND

TIDELANDS

THIS MAP was compiled from aerial ,
March 24, 1972, U.S. Geological Survey
dated 1956-1971 and recorded plat of
Island by C.E. Durant, Engineer and S
I, 1937.

November 17, 1976

RECORD
PAGE 4
THE CL
BEAUFO

Beaufort County-015845

IN THE COURT OF COMMON PLEAS
FOR THE STATE OF SOUTH CAROLINA
BEAUFORT COUNTY

DEPOSITION OF DEAN PIERCE
30(b)(6) BROAD CREEK DEVELOPMENT

TMS: R552 010 000 0648 0000
R552 010 000 0649 0000

BROAD CREEK DEVELOPMENT, LLC,

Plaintiff,

vs. CASE NO. 2022-CP-07-01978

BEAUFORT COUNTY,

Defendant.

DEPONENT: DEAN PIERCE

DATE: OCTOBER 8, 2024

TIME: 1:59 P.M.

LOCATION: VIA VIDEOCONFERENCE

REPORTED BY: KELLY B. BAEKELANDT, RPR, CSR (GA)
CLARK BOLEN
CHARLESTON, SC 29405
843-762-6294
WWW.CLARKBOLEN.COM

A P P E A R A N C E S

(ALL APPEARANCES VIA VIDEOCONFERENCE)

ON BEHALF OF PLAINTIFF:

BYBEE & TIBBALS
BY: RICHARD D. BYBEE
880 JOHNNIE DODDS BOULEVARD
SUITE 2
MOUNT PLEASANT, SC 29464

ON BEHALF OF DEFENDANT:

RESNICK & LOUIS
BY: CHRISTOPHER L. MURPHY
146 FAIRCHILD STREET
SUITE 130
CHARLESTON, SC 29492

INDEX

EXAMINATION PAGE

BY MR. MURPHY 4
CERTIFICATE OF REPORTER 25
DEPONENT CORRECTION SHEET 26

EXHIBITS

EXHIBIT DESCRIPTION PAGE

(None marked.)

DEAN PIERCE,

having been first duly sworn, was examined and testified as follows:

EXAMINATION

BY MR. MURPHY:

Q. All right. Mr. Pierce is it?

A. It is.

Q. All right. My name's Chris Murphy, I represent Beaufort County. This is going to be a pretty quick deposition, but if you need a break, let us know. If you do take a break and talk to your attorney about the case, I can ask about the substance. If you hear an objection, you can go ahead and answer unless you're instructed not to. We got to do our best not to talk over each other and also give verbal responses.

All right, sir?

A. Sure.

Q. All right. Tell me what is your position or your role with the Broad Creek Development, LLC.

A. I'm a member and the manager of the LLC.

Q. All right. And what -- who else are members of the LLC?

A. It's myself and Dwight Trew.

Page 5

Q. And how do I spell Dwight Trew? Is it T-R-U-E?
A. First name Dwight, D-W-I-G-H-T, last name Trew, T-R-E-W.
Q. All right. And when did you and Mr. Trew become owners of Broad Creek Development, LLC?
A. Well, when it was formed.
Q. All right. So let's go back a little bit. It was -- were you the original folks who formed the LLC?
A. Yes, sir.
Q. All right. And does the LLC -- what holdings does the LLC have?
A. It's a single purpose entity. It -- it holds the -- the land at controversy in this case.
Q. And I assume that's the only asset within the LLC?
A. Well, I mean, there's a bank account with some, you know, some funds in it to operate the LLC, but there's no other property, no.
Q. All right. And you -- who is Canton Foster, is he an owner of the property?
A. Cantzon.

Page 6

Q. Cantzon?
A. Yeah, Cantzon Foster. He -- he is our attorney and our agent with regard to the project.
Q. All right. So in terms of agent, is he the registered agent?
A. He -- he was the registered agent, he's also our agent for the property, for dealing with the outside world.
Q. Okay. All right. And so let me ask you, when did you obtain this property? And when I say this property, I'm talking about the two tracts at issue.
A. Sure. We got it from the Department of Transportation. I -- I want to say it was in 2012.
Q. And did you do it via -- via bid?
A. There was a -- actually the -- the -- the DOT had given an option to a group here, Waterway Ferry Services, LLC, I think was the name, I believe because that's been a long time ago. But, in any event, they held an option, we purchased that option from them, and then we ultimately exercised that option. And I think it was based, you know, on -- on an appraisal at the

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time. I'm not really -- you know, I don't really recall for sure, but I think it was an appraisal.
Q. Okay. And going back to two thousand -- I'm sorry, September -- let's just say 2022 area. Did you know that the County had an interest in acquiring this property?
A. So my understanding is Brittany Ward, the County's attorney reached out to Cantzon Foster, our attorney and agent, and indicated that the County was interested in purchasing the property. And, you know, Cantzon, my understanding is, told her that we were not interested in selling the property, and --
Q. Okay. And I assume since we're here today that interest has not changed, that you still don't want to sell the property?
A. I -- I'm not interested in voluntarily selling the property. I mean, obviously if I am forced to sell it through a condemnation, that the law will act as the law acts. But, you know, voluntarily I'm not interested in selling the property, no.
Q. Okay. And so let's talk a little bit about your background. Where you -- what's your educational background and professional

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background?
A. Sure. Graduated high school, went to Furman University undergrad up in Greenville, South Carolina. And then attended the University of South Carolina School of Law in Columbia.
Q. Okay. And what type of -- how long have you been practicing law?
A. Well, I don't actively practice law anymore. I maintain my law license, but I -- I don't practice.
Q. After law school, what did you do?
A. I went to work with a -- a law firm in Columbia, and, you know, worked at that firm for a number of years.
Q. And what type of law were you doing at that firm?
A. Mainly -- well, it was a general practice, but sort of our bread and butter was domestic litigation.
Q. Okay. Was it for a plaintiff type or defense law firm?
A. You know, I guess it'd be fair to say we -- we took either side. I mean, it wasn't, you know, only plaintiff's work or only defendant's work.

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Q. And then how long did you work at that law firm, do you recall?
A. So I think I was there until 2002 maybe.
Q. Okay. And in 2002 after that, what did you do?
A. I came to Hilton Head and went in -- went to work for my now business partner. You know, over time I became no longer an employee but became a business partner. And so, you know, I've been here since.
Q. Okay. So what is your current job? If I -- if you're telling people what do you do for work, what is your -- your job?
A. Sure. I'm in real estate.
Q. Okay. And I would assume when you say that you buy and sell properties?
A. We -- we do buy and sell properties, and we also develop properties, you know, and -- and we also manage properties.
Q. Okay. Do you have a real estate agency that you work for or a business that you work for?
A. Elite Resort Group is the management company that I -- I'm an employee of.
Q. Okay.

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A. And, you know, we have a broker associated with that. But I -- I don't hold a real estate sales license or brokerage license.
Q. I got it. All right. And I spoke with Mr. Bybee this morning and understand you're not prepared to talk about certain topics that were listed in this 30(b)(6) deposition. Is that the case -- still the case?
A. Well, you know, again, given the timing of the thing, you know, because I -- I didn't get to see that until, I guess, you know, yesterday or so, you know, before I saw the topics, you know, I really haven't had a chance to prepare on those topics because they were brand-new. And so, you know, again, it's not so much an unwillingness, it's just given the timing of this deposition and the notice about the timing it has put me in a position where I did not have sufficient time to study to be able to speak to some of those issues.
Q. I -- I get it and I'm not going to hold your feet to the fire. All right, sir? If I -- I'm just going to ask you a couple very brief questions. If you say you need more time, that's fair enough. Okay?

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Have you seen any of the appraisals provided by Beaufort County in this case?
A. I think at some point I saw the original appraisal that was done back in 2021 maybe.
Q. Okay. And so I'll kind of help you along and you can just tell me if -- if it's your memory or not. There's a fellow named Mr. Tony Martin that did two appraisals, one for $3.4 million and one for 3.7 million. Do you recall seeing those appraisals?
A. I know there was an appraisal for 3.4 and -- and I think it was done, again, back in 2021 prior to the litigation, the County had had that done. I don't remember the fellow's name though that did it.
Q. Okay. Well, it -- and what I'm asking you -- I guess what I'm asking you is really do you -- I assume you disagree with those numbers that were in those appraisals by the County, would that be a fair statement, in terms of value?
A. I think it's fair to say that I thought the property -- I think the property is more valuable than the appraised value that -- that -- the 3.4 appraised value or whatever, yeah.

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Q. Okay. And I -- I would ask you the same question about -- and, you know, I can just kind of cut to the chase, to the 4.37 million. You -- do you think the property is more valuable than that?
A. To me it is. I think it probably is, yeah.
Q. What about market value, do you have an idea -- opinion on market value of the property back in --
A. I'm not prepared to give market value today.
Q. Okay. Now, in terms of dealings with the County, did you ever ask -- is it -- you know, Mr. Foster to talk with the County about their interest in the property?
A. Cantzon handled those discussions with Brittany Ward. I think no one other than Brittany Ward contacted us. And I think she contacted us on maybe three occasions, you know, one in June, one in July, and then I think an email in August of 2021. I think that's it.
Q. Okay. And do you -- did -- did Cantzon have any orders or direction by you in terms of how to deal with the County or --

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A. Cantzon talked with me about the -- the County. And, again, it was presented to us by Brittany Ward as a unsolicited, you know, voluntary offer on the property. And, you know, we weren't interested in selling the property, you know, in that condition, you know, when that's listed third party approaching us about buying the property. So we did have those conversations, sure.

Q. All right. And did you -- were you aware that the County had done any type of appraisal on the property back in that 2022 time frame?

A. No, I wasn't aware. And -- and Brittany Ward did not share with us that there was an appraisal or that one had been done. She did not share the appraisal with us. I think the first time we knew about the appraisal that had been done back in 2021 was when, you know, the lawsuit got filed by the County.

Q. Okay. And do you know if Cantzon and Brittany Ward ever discussed an appraisal?

A. They did not.

Q. Okay. And what about did you know why the County wanted to acquire this property?

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A. So Brittany Ward didn't say during the first and second conversation. I think when she sent the email in maybe August of that year, 2022 I guess it was prior to the filing of the lawsuit, you know, in any event in that email I think she said that the County was interested in acquiring the property. You know, they wanted to maybe put some sort of, you know, boat landing situation there and they, you know, would like to offer 3.2, but, you know, they didn't have county council approval for that or some such.

Q. All right. Did you have any idea what was going on with the Buckingham boat landing at the time you talked to -- you talked to Brittany?

A. No, I wasn't following it. But, you know, since I -- I've understood some more about it. But, you know, at the time, I didn't -- I wasn't following it and didn't really know that that was going on.

Q. Okay. And prior to this condemnation have you or your partner or the LLC had any type of negative dealings with the County or -- or any dealings at all with the County?

A. Not that I recall.

Q. I mean, have you applied for a permit

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and got denied or did they --

A. To my knowledge, I mean, you know, the permitting that we do is -- is normally with Hilton Head Island.

Q. Okay.

A. You know, our stuff is really here on the island. And Beaufort County doesn't really, you know, involve itself in what's going on, you know, in the municipality of Hilton Head Island, South Carolina, so most of our dealings are with the town.

Q. When I looked on the Secretary of State's website I see the registered agent as one of those CT corporations.

A. Sure.

Q. Do you -- where does the registration -- if somebody sends that -- those folks a letter, what happens to it? Does it go to -- what's the process of getting it in your hands?

A. You know, I -- I think it would come here to us, I think.

Q. And my question is how would somebody know to contact you the way your property is set up as the owner?

A. Well, they would know to contact Cantzon

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which was our intent, you know, was -- he was going to be the agent, you know, to deal with this property. His name is on the deed to the property, which is a matter of public record. His address is on the deed to the property, which is a matter of public record. And, you know, I guess, again, it's a matter of public record. So -- and apparently Brittany Ward was able to discern that and be in touch with Cantzon.

Q. Okay. Did you know Brittany Ward before this action?

A. No, sir. I -- I don't know her --

Q. What about --

A. -- other than, you know, the fact of the name. I don't think I've met her.

Q. Yeah. No dealings with her at all?

A. None that I recall, no, sir.

Q. Yeah. What about -- I'm going to ask you the same question about any dealings with David Wilhelm. Do you know him at all or --

A. I don't. I'm not aware of any dealings, no, sir.

Q. What about Hank Amundson?

A. I -- I know the name from this litigation, but I -- as far as I know, I've never

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had any dealings with him.
Q. And -- and what about finally Jared Fralix?
A. Again, I know the name from the litigation that we're in, but I -- to my knowledge, I've not had any dealings with him.
Q. Was Cantzon instructed to -- and I say Cantzon, was Mr. Foster instructed to do any type of -- engage in any type of negotiations with the County or was he engaged not to -- instructed not to engage?
MR. BYBEE: Objection as to attorney-client communication.
Q. At the -- are you -- well, strike that.
All right. At the time when Brittany was talking to Mr. Foster, were you being represented by counsel?
A. Cantzon was --
MR. BYBEE: Objection, again, to counsel questions.
MR. MURPHY: Who is?
MR. BYBEE: Objection to -- to questions of an attorney-client nature.
MR. MURPHY: All right. I'm not asking what was discussed, I'm just asking if he

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was represented. Is that still the same objection?
MR. BYBEE: Rephrase the question, Chris. What period of time are we talking about?
MR. MURPHY: I'm talking about the summer of 2022 when Mr. Foster was talking with Brittany Ward prior to litigation, prior to the condemnation.
MR. BYBEE: And his testimony was that Brittany was communicating with Foster as his counsel.
MR. MURPHY: All right. And -- and so Foster was -- was his attorney representing him at the time then.
A. He was our attorney, and he was also our agent for purposes of this property.
Q. All right. And so -- all right. Do you have any experience in the eminent domain area of law?
A. I -- I don't. I don't recall ever being involved as an attorney or a defendant in an eminent domain action before this -- this case.
Q. And do you have any -- or what is your understanding of the eminent law -- or, I'm sorry, the Eminent Domain Act, what is the --

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your understanding of how that process works, or do you have an understanding of how it works?
A. Well, generally speaking, you know, it is a -- you know, it's a -- the -- the authority of eminent domain and condemnation is a creature of statute. And a municipality, you know, town, county, whatever, they have to comply with the statute in order to condemn, because they don't have any authority outside of the statute to take somebody's property. So it's sort of like a red light green light. You know, the statute tells the county or the municipality what to do and in order to avail themselves of the authority to condemn under the statute, they've got to follow the -- the traffic lights. And that's why we're here.
Q. Okay. And if the County -- you alleged in your complaint that the traffic lights weren't followed, so to -- so to say. If the traffic lights were followed, do you have an opinion as how that would change our position today?
MR. BYBEE: Objection.
A. If -- if the -- if the County had complied with the statute and had told us they were looking to condemn the property instead of

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presenting it to us as an unsolicited voluntary offer on the property, we would have hired counsel, most likely, you know, Rick and Jeff, and they would have advised us of our rights under the condemnation act, and we would have, you know, abided by the statute. And, you know, it would have been -- we certainly wouldn't be here today in this contest action if the County had followed the statute, because we -- we would have then engaged, you know, and followed the statute on our end and -- and work to a completion there. And, you know, again, the County didn't do that, though, and so here we are.
Q. Okay. And specifically in terms of not following the statute, you knew that the County didn't follow the statute according to your complaint when you received the filed pleadings, isn't that true?
MR. BYBEE: Objection to the form.
A. I -- I don't know that it was when we received the filed pleadings, but, I mean, certainly we retained counsel and -- and, you know, figured it out.
Q. Well, let me ask you this -- I'll just

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go through the complaint here. First cause of action says that the County failed to prepare a condemnation appraisal.

Do you know what a condemnation appraisal is?

A. It -- it would be an appraisal that is prepared pursuant to the -- the statute. You know, under the statute as I understand it now, you know, the County is required to give us just compensation --

Q. Okay.

A. -- and it is required to -- it's required to, you know, have a -- you know, to get to that number, it's required to have an appraisal done. And, you know, it's got to be timely. It can't be old and stale. It's got to be timely. It -- you know, it has to otherwise comply with the rules of the road. And -- and it has to be given to the landowner, which, in that case, would have been, you know, Cantzon Foster, our agent, you know, and it wasn't done.

Q. Okay. And do you know if Cantzon ever asked for the appraisal?

A. Nope, he hadn't -- he -- he didn't know there was an appraisal to ask for.

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Q. Okay.

A. Brittany Ward never said, we've got an appraisal, would you like it? Or say, you know, here's what we're going to offer, it's based off of an appraisal. You know, there was no way for us to know there was an appraisal, because, again, this was presented to us as a voluntary unsolicited offer. It just happened to be from the County. It could have just as easily been Mrs. Smith. And, you know, it's not in the normal course of business for somebody to, you know, get an appraisal done before they make an offer on a property. You know, so we didn't have any reason to believe there was an appraisal.

Q. All right. But I -- I thought you said you didn't have any experience in the eminent domain process?

A. I don't.

Q. Well, how can you say what the normal course of business is if you don't have experience in it?

A. I'm not talking about eminent domain normal course of business, I'm talking about the normal course of business for a -- a voluntary offer of sale and a voluntary negotiation of

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sale, and a voluntary -- between -- an arms-length transaction between third parties. That's how Brittany Ward presented it to us. She said --

Q. Okay.

A. -- we've got an interest in buying the property. She didn't say, you know, and -- and this is -- this is part of a condemnation process that we're about to -- to -- you know, to bring. We had -- we had no reason to believe there was a condemnation process going on, you know. She presented it as we're interested in buying the property, and so we took it that way. We took her at her word. She wouldn't -- she wouldn't be fair in dealing with us because she knew behind the scenes that the County was gearing up to take our property, you know. And she apparently knew she had a $3.4 million appraisal in her pocket she never told us about. And she also knew that she was offering us less than the appraised value that she had in her own appraisal which was stale. You know, she knew all that stuff. She had us at a disadvantage, because she was presenting to us like, hey, the County is interested in buying your property, full stop.

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MR. MURPHY: Mr. Pierce, that's all I've got for you. Thank you.

MR. BYBEE: No questions.

THE WITNESS: Thank you.

(The witness, after having been advised of his right to read and sign this transcript, does not waive that right.)

(The deposition concluded at 2:26 P.M.)

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CERTIFICATE OF REPORTER
STATE OF SOUTH CAROLINA
COUNTY OF BEAUFORT

I, KELLY B. BAEKELANDT, Registered Professional Reporter and Notary Public for the State of South Carolina at Large, do hereby certify that the witness in the foregoing deposition was by me duly sworn to testify to the truth, the whole truth and nothing but the truth in the within-entitled cause; that said deposition was taken at the time and location therein stated; that the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed by computer-aided transcription; that the foregoing is a full, complete and true record of the testimony of the witness and of all objections made at the time of the examination; and that the witness was given an opportunity to read and correct said deposition and to subscribe the same.

Should the signature of the witness not be affixed to the deposition, the witness shall not have availed himself/herself of the opportunity to sign or the signature has been waived.

I further certify that I am neither related to nor counsel for any party to the cause pending or interested in the events thereof.

Witness my hand, I have hereunto affixed my official seal on October 8, 2024, at Bluffton, Beaufort County, South Carolina.

KELLY B. BAEKELANDT
REGISTERED PROFESSIONAL REPORTER
RPR, CSR (Georgia)
My Commission expires
June 16, 2026

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DEPONENT CORRECTION SHEET

I, the undersigned, DEAN PIERCE, do hereby certify that I have read the foregoing deposition and wish to make the following clarifications and/or corrections, if any.

PAGE	LINE	CHANGE	REASON

DEAN PIERCE Date

KB