

**From:** Toole, Jason L. (P.E.)  
**To:** [Carron, Theresa](#)  
**Cc:** [Bowes, Kimberly](#); [Toole, Jason L. \(P.E.\)](#)  
**Subject:** FW: St. Andrews State Park Campground Drainage Improvements - Floodplain question  
**Date:** Sunday, August 5, 2018 9:09:58 PM

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Teri,

Below are emails that cover 7A. It takes care of Bay County Stormwater and Floodplain.

**Jason Toole, P.E., LEED AP**  
**Senior Vice President**  
CPH  
(P) 850-563-1490 x 4801  
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**From:** Paguada, Yvonne (P.E.)  
**Sent:** Friday, March 9, 2018 1:40 PM  
**To:** Toole, Jason L. (P.E.)  
**Subject:** FW: St. Andrews State Park Campground Drainage Improvements - Floodplain question

See below emails. Top one from Wayne regarding no floodplain permit required and further down from Natasha regarding no stormwater permit required.

**Yvonne Paguada, P.E.**  
**CPH**  
Phone: (850) 563-1490 x 4804

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**From:** Wayne Porter [<mailto:wporter@baycountyfl.gov>]  
**Sent:** Friday, March 9, 2018 11:59 AM  
**To:** Paguada, Yvonne (P.E.); Natasha Lithway  
**Cc:** Ian Crelling; Allen Golden  
**Subject:** RE: St. Andrews State Park Campground Drainage Improvements - Floodplain question

Yvonne,

We have reviewed the information and feel comfortable that there will not be a negative impact of the floodplain in that area. No permit is required from the County.

Thanks,

**Wayne Porter, CFM**  
**Planner/Floodplain Manager**  
**Bay County Planning & Zoning**  
**850-248-8258**  
[wporter@baycountyfl.gov](mailto:wporter@baycountyfl.gov)

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**From:** Paguada, Yvonne (P.E.) [<mailto:ypaguada@cphcorp.com>]  
**Sent:** Friday, March 09, 2018 9:36 AM  
**To:** Wayne Porter; Natasha Lithway  
**Cc:** Ian Crelling  
**Subject:** RE: St. Andrews State Park Campground Drainage Improvements - Floodplain question

Wayne,

In the actual design, we ended up adding more fill to the campsites and roads than I described below in order to get better separation from the groundwater and to design stormwater ponds with a net benefit in treatment and attenuation (NFWFMD permit requirement). We are raising the campsites by 2 to 3 ft. and creating dry detention (some retention) pond areas with bottom elevations roughly at existing grade. The pond bottoms are +/- 1 to 2 ft. above or below existing grade. Attached are our latest grading plans for your reference. Would a floodplain permit still not be required based on this additional information?

Thank you for your help with this!

**Yvonne Paguada, P.E.**  
**CPH**  
Phone: (850) 563-1490 x 4804

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**From:** Wayne Porter [<mailto:wporter@baycountyfl.gov>]  
**Sent:** Friday, March 9, 2018 9:19 AM  
**To:** Natasha Lithway; Paguada, Yvonne (P.E.)  
**Cc:** Ian Crelling  
**Subject:** RE: St. Andrews State Park Campground Drainage Improvements - Floodplain question

Yvonne,

Based on the job description below, no floodplain permit will be required from Bay County.

Please let me know if you have any questions.

Sincerely,

**Wayne Porter, CFM**

**Planner/Floodplain Manager**  
**Bay County Planning & Zoning**  
**850-248-8258**  
[wporter@baycountyfl.gov](mailto:wporter@baycountyfl.gov)

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**From:** Natasha Lithway  
**Sent:** Friday, March 09, 2018 9:13 AM  
**To:** [ypaguada@cphcorp.com](mailto:ypaguada@cphcorp.com)  
**Cc:** Wayne Porter; Ian Crelling  
**Subject:** FW: St. Andrews State Park Campground Drainage Improvements - Floodplain question

Yvonne,  
County does not regulate stormwater for state parks.  
Please get in touch with Wayne in regards to floodplain. He is being copied on this email

Thank you  
Natasha Lithway, PE  
Bay County Public Works Engineering  
850-248-8301, phone

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**From:** Paguada, Yvonne (P.E.) [<mailto:ypaguada@cphcorp.com>]  
**Sent:** Thursday, March 08, 2018 12:59 PM  
**To:** Natasha Lithway <[nlithway@baycountyfl.gov](mailto:nlithway@baycountyfl.gov)>  
**Cc:** Toole, Jason L. (P.E.) <[jtoole@cphcorp.com](mailto:jtoole@cphcorp.com)>  
**Subject:** RE: St. Andrews State Park Campground Drainage Improvements - Floodplain question

Hi Natasha,

How are you doing? FDEP asked for something written to confirm that the County does not require a floodplain permit for this St. Andrews State Park campground project that we have been working on. I remember talking to you after I sent you the below email and if I remember correctly you said that the County would not require any floodplain or stormwater permitting. Is that correct and do you mind confirming that by email?

Thank you,

**Yvonne Paguada, P.E.**  
**CPH**  
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**From:** Paguada, Yvonne (P.E.)  
**Sent:** Tuesday, June 6, 2017 4:49 PM  
**To:** [nlithway@baycountyfl.gov](mailto:nlithway@baycountyfl.gov)  
**Cc:** Jason L. Toole (P.E.) ([jtoole@cphcorp.com](mailto:jtoole@cphcorp.com)) ([jtoole@cphcorp.com](mailto:jtoole@cphcorp.com))

**Subject:** St. Andrews State Park Campground Drainage Improvements - Floodplain question

Natasha,

We are working on a project for FDEP to correct some of the flooding problems they have had at the St. Andrews SP Campground. Some of the problem areas are low areas due to erosion and traffic that just need to be maintained by filling and better grading design. There are also some low areas (either natural or that were created from filling the campsites) between campsites that collect runoff and have no outfall before flooding the campsites. We would like to do a few things:

- 1 – correct the low areas that just need to be maintained and properly graded
- 2 – add outfalls to the low areas between campsites or fill them and create low areas in alternate locations where they would be safer, more suitable, and better maintained
- 3 – Add a raised camping pad at each campsite which is basically a gravel, paved, and/or grassed apron about 20' wide by 50' deep bordered by landscape timbers and about 6" above the surrounding areas. The camping pads will define the camping areas which in turn would have several benefits.

In our design, what do we need to consider for the floodplain that it is in? The entire campsite is within the AE flood zone with a BFE of 9 ft. NAVD which is well above most of the campsite. We have surveyed the campsite and the elevations range from about 2 to 5 ft. NAVD 88. I see though why the bathhouses were constructed above 9 ft. Do we need to consider floodplain compensation? Do we need to apply for a permit with the County?

Thank you and let me know if you have any questions.

**Yvonne Paguada, P.E.**

**CPH**

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