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May 16, 2012

Mrs. Teresa Barnes
Butler County Engineer's Office
1921 Fairgrove Avenue
Hamilton, Ohio 45011



Re: Voice of America Park

Dear Mrs. Barnes:

Enclosed please find one copy the revised detention calculations, storm sewer calculations, and too copies other of the revised site improvement drawings. Changes have been made per your review comments received on May 2, 2012 via email and the following:

Page C4.0

1. The fabricated reducers have been removed and manholes 9b and 10b have been added.

Page C4.1

2. Proposed grading on the South end of the fields has been revised so that no low point will be created.

Page C4.2

3. The proposed fence to be constructed with Butler Warren Road improvements has been added.
4. In an email sent on February 10, 2012, we asked Steve Hartke to have the path improvement plans changed so that the inverts of the southern 24" pipe would be changed to 886.70 (inlet) and 886.53 (outlet). We will follow up with Steve to make sure that the inverts were changed.
5. Depending on the timing of construction for the park and the proposed path, a couple of storm sewers under the proposed path may not be needed. At this time we do not the construction timing for the park improvements.
6. The spillway for lake #3 has been revised and a proposed ditch has been added to direct to water to the culvert pipe under Butler Warren Road.
7. Outlet for Lake #3 has been revised.
8. The top of grate elevation for Structure 30 (lake #3 outlet structure) has been corrected on all sheets.

General

9. The CN value for post-construction drainage area 3 has been corrected and all calculations for lake #3 have been revised.
10. The storm sewer calculations have been revised to carry the pipe between structures 1 and 2 throughout the calculations.
11. All storm inverts on the plan sheets have been revised to match the storm sewer calculations.
12. Storm sewer pipe sizing for section 18-19 and 20-21-22 have been added to the storm calculations.

Please review the enclosed and contact us should you have any questions or need any additional information. If I can be of any assistance, please call me.

Sincerely,

Gregory J Koch, P.E.

Cc: John Granville, Butler County Metroparks

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