From:	Eric Morris
To:	BarnesT@bceo.org
Cc:	HartkeS@bceo.org; PottengerE@bceo.org
Subject:	RE: 8315 Cin-Day Shell Redevelopment
Date:	Thursday, January 15, 2015 8:52:32 AM
Attachments:	14M075-000 CD Stm Drainage Map 141201.pdf 14M075-000 Storm Calcs 141201.pdf

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Teresa,

Attached is the storm sewer calculations and storm sewer drainage area map for 8315 Cin-Day Rd. We have submitted the plans though the building department, so you should have those. If not, I can send PDFs. We are right at the capacity of the new 12" pipe being installed as part of the roadway project during the 10 year event.

Let me know if you have any questions. Thanks!

Eric

Eric Morris, PE, CFM
Project Manager
Professional Engineer
Certified Floodplain Manager
Bayer Becker
(513) 336-6600
ericmorris@bayerbecker.com

From: BarnesT@bceo.org [mailto:BarnesT@bceo.org]
Sent: Monday, October 20, 2014 2:46 PM
To: Eric Morris
Cc: HartkeS@bceo.org; PottengerE@bceo.org
Subject: RE: 8315 Cin-Day Shell Redevelopment

Eric

Yes - you are correct in that the site will be required to submit calculations that show the site run-off amount is within the capacity of the system along Cincinnati-Dayton Highway. If the site run-off is not within the capacity of these pipes, detention will be required.
Note that the previous correspondence also mentions to remove the catch basin from the right-in/right-out island and call for a slotted storm sewer pipe. That will be required for any proposed right-in/right-out onto Cincinnati-Dayton Highway. Design needs to ensure that water will not leave the site onto the roadway.
THANKS

Teresa

Teresa Barnes, P.E., CPESC
Design Engineer
Butler County Storm Water District
1921 Fairgrove Avenue
Hamilton, Ohio 45011

513-785-4142 Office
513-867-5849 Fax

From: Eric Morris <ericmorris@bayerbecker.com>
To: "BarnesT@bceo.org" <BarnesT@bceo.org>,
Cc: "HartkeS@bceo.org" <HartkeS@bceo.org>, "PottengerE@bceo.org" <PottengerE@bceo.org>
Date: 10/15/2014 02:37 PM
Subject: RE: 8315 Cin-Day Shell Redevelopment

Teresa,

So I went back and looked at the correspondence (attached) from BCEO on the McD project review. From comment #1, it looks like the Dunkin Donuts site storm runoff will be limited to the capacity of the proposed 12" storm at 1.40%. Is that correct?

Assuming that is the case, I've looked at the drainage areas/runoff coefficients and it appears we'll have just enough capacity in the proposed 12" pipe during the 10 storm event- which would make sense because we aren't changing the drainage area to that pipe like the McDonalds plan was. I would have expected MSP to size the pipe to handle the existing drainage pattern, and it looks like they did based upon my proposed site runoff being almost equal to the capacity provided.

I'll provide the maps and calcs with the construction drawings to back up my numbers, but it appears that we'll be OK draining our site to the proposed 12" @ 1.40%.

Eric

Eric Morris, PE, CFM
Project Manager
Professional Engineer
Certified Floodplain Manager
Bayer Becker
(513) 336-6600
ericmorris@bayerbecker.com

From: BarnesT@bceo.org [mailto:BarnesT@bceo.org]
Sent: Friday, September 26, 2014 9:41 AM
To: Eric Morris
Cc: HartkeS@bceo.org; PottengerE@bceo.org
Subject: Re: 8315 Cin-Day Shell Redevelopment

Eric

This site is under different circumstances than the site on 747 and Smith.
Due to the Butler Tech being constructed nearby, the intersection of Cincinnati-Dayton and Woodbridge on the Lake will be redone. This includes the storm drainage system in the area.
Unfortunately, given some existing site constraints, the new raod system is virtually at capacity.
Therefore, analysis of the proposed Dunkin Donuts would be required. Any additional run-off from the site that exceeds the capacity of the proposed system will have to be detained on-site.
If the difference between the amount of run-off and the capacity of the new roadway system is not to large, it might be able to be handled in an on-site water quality feature. If the water quality feature is not an option, upsizing of the pipes might be required with control orifices in place to ensure that the roadway system does not surcharge.
I believe that Etta has the calculations for the proposed new system for use when working on the previously proposed McDonald's.
Let me know if you have any questions.
THANKS

Teresa

Teresa Barnes, P.E., CPESC
Design Engineer
Butler County Storm Water District
1921 Fairgrove Avenue
Hamilton, Ohio 45011

513-785-4142 Office
513-867-5849 Fax

From: Eric Morris <ericmorris@bayerbecker.com>
To: "barnest@bceo.org" <barnest@bceo.org>,
Date: 09/25/2014 04:52 PM
Subject: 8315 Cin-Day Shell Redevelopment

Teresa,

We are working on another site plan for Pat Gilligan, this one is at 8315 Cin-Day Road. We are taking the old Shell station and tearing off the existing canopy & carwash. What's left of the old building is going to be converted to a standalone Dunkin Donuts (no Shell component, no future gasoline service or sales).

Pat is hoping he can do this without the need for storm detention. I know at the 747 & Smith Rd store we only did water quality, and the detention requirement was waived as the impervious areas on the pre-developed and post-developed sites were comparable. Can we do the same here? (Minus the WQ part, since we are well under 1 ac and won't have to file an NOI).

I've ran the numbers already and we are not adding any additional impervious area. Even if I include the changes in the ROW to the entrance drives, we are still at the same impervious area, pre vs post.

Eric

Eric Morris, PE, CFM
Project Manager
Professional Engineer
Certified Floodplain Manager
Bayer Becker
(513) 336-6600
ericmorris@bayerbecker.com

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