

From: [Matthew Carey](#)
To: [David Buechl](#)
Cc: [Jackie Herington](#); [Alex Damien](#)
Subject: RE: Kohl's Detention Pond documents
Attachments: [image001.png](#)
[image003.png](#)
[1270.00-WI CN EXHIBIT.PDF](#)

Exhibit attached Dave.

Matt Carey, P.E. (WI, IL, MI), LEED AP | Project Manager

PINNACLE ENGINEERING GROUP

CIVIL ENGINEERING | NATURAL RESOURCES | SURVEYING

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From: David Buechl <dbuechl@waukesha-wi.gov>
Sent: Friday, March 30, 2018 10:52 AM
To: Matthew Carey <Matt.Carey@pinnacle-engr.com>
Cc: Jackie Herington <jackie.herington@kohls.com>; Alex Damien <ADamien@waukesha-wi.gov>
Subject: RE: Kohl's Detention Pond documents

Matt:

If you can put together an exhibit showing these areas and associated curve numbers, then we can put this into the submittal documents and City file.

Dave

From: Matthew Carey [<mailto:Matt.Carey@pinnacle-engr.com>]
Sent: Monday, March 26, 2018 2:45 PM
To: David Buechl <dbuechl@waukesha-wi.gov>
Cc: Jackie Herington <jackie.herington@kohls.com>
Subject: RE: Kohl's Detention Pond documents

Dave,

Given these plans showing the future truck dock area as being labeled as a future expansion area for 19,200 SF, we can offer the following regarding the calculation for the Curve Number (CN) for the site:

This is based off of Page 4.03 of the 2001 Stormwater Report Completed by RA Smith which states that the Kohl's site as a CN of 92 for approximately 13.96 AC.

From the drawings we have on file, we are calculating about 118,500 SF (2.72 AC) of greenspace, excluding the entire future expansion area (19,200 SF), assuming this is impervious area for the calculation as a conservative approach. This leaves a remaining area of 489,600 SF of impervious area (11.24 AC). This is based upon the CAD files provided by Kohl's. We are getting about a 91 CN for the site.

$$\frac{(11.24 \text{ AC} \times 98 \text{ CN}) + (2.72 \text{ AC} \times 61 \text{ CN})}{13.96 \text{ AC}} = \mathbf{90.79 \text{ CN}}$$

A 61 curve number for the green space areas assumes Type B soils for greater than 75% grass cover. This is referenced in the 2001 report for the greenspace areas, as well as was used for the approved stormwater report for the adjacent Cooper Power site to the west, which we did a few years ago.

Please let us know of any questions.

Thanks,

Matt Carey, P.E. (WI, IL, MI), LEED AP | Project Manager

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From: Jackie Herington <jackie.herington@kohls.com>
Sent: Monday, March 26, 2018 1:14 PM
To: Matthew Carey <Matt.Carey@pinnacle-engr.com>; dbuechl@waukesha-wi.gov
Subject: Kohl's Detention Pond documents

Hi Matt / Dave

I am attaching the construction documents we have on file for the grading and utility construction at the Southwest Waukesha store.

From a quick look at this grading plan there does appear to be a safety shelf included with the design. The detail of the outlet structure is included on the grading and drainage plan for your information as well.

Please review and let me know if there is anything that looks to be an issue from a current standard for pond construction at this time. We will of course defer to the asbuilt survey once we have it. Just trying to get an idea on whether we expect an issue for the current pond geometry.

Thanks again for your time and input this morning!

Jackie Herington, P.E.

Site Development Coordinator
jackie.herington@kohls.com



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