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### Client

Elder Engineering

Contact: James Elder, PE, RLS

(262) 628-1409

### Project

Deer Brook Residential Subdivision

### Overview/Description

Elder Engineering, LLC designed the roadway and utilities for the proposed subdivision. SSE assisted Elder with the stormwater and drainage plan, storm sewer and stormwater management plan.

### Concerns/Challenges

- Site is surrounded by existing subdivisions and commercial areas.
- Runoff from the development drains in a drainage easement through rear yards of adjoining subdivision
- MMSD Chapter 13 requires volumetric control of flows from the site

### Actions Addressing Challenges

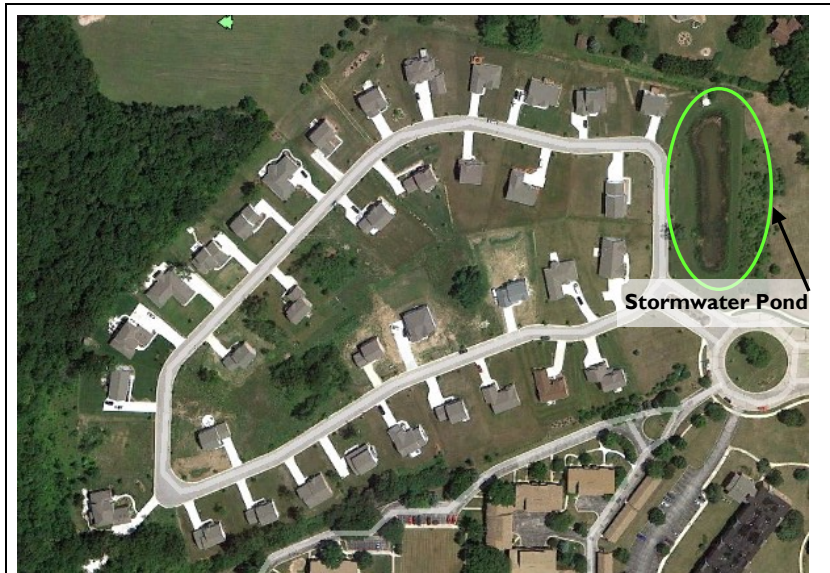
- Storm sewer and drainage swales were designed to convey flows from subdivision to a drainage easement at rear yards.
- Flows from a design 100-year storm event were checked to ensure no flooding of existing adjacent neighborhoods.
- Milwaukee Metropolitan Sewerage District (MMSD) Chapter 13 rules were followed for controlling flows on a volumetric basis.
- A wet stormwater detention pond was designed to meet the water quality and discharge control rules.
- SSE prepared the stormwater management plan which includes an evaluation of the existing and proposed site flows and water quality, for MMSD and the Village of Brown Deer review and approval.



### Wet Detention Pond Under Construction



### Wet Detention Pond Summer and Spring



### Aerial Photo of Post-Development Subdivision



**Stormwater Solutions Engineering, LLC**

100 East Sumner Street | Hartford, WI 53027

Phone: (262)673-9697 | Fax: (262)397-8426

Web: [www.stormwater-solutions-engineering.com](http://www.stormwater-solutions-engineering.com)