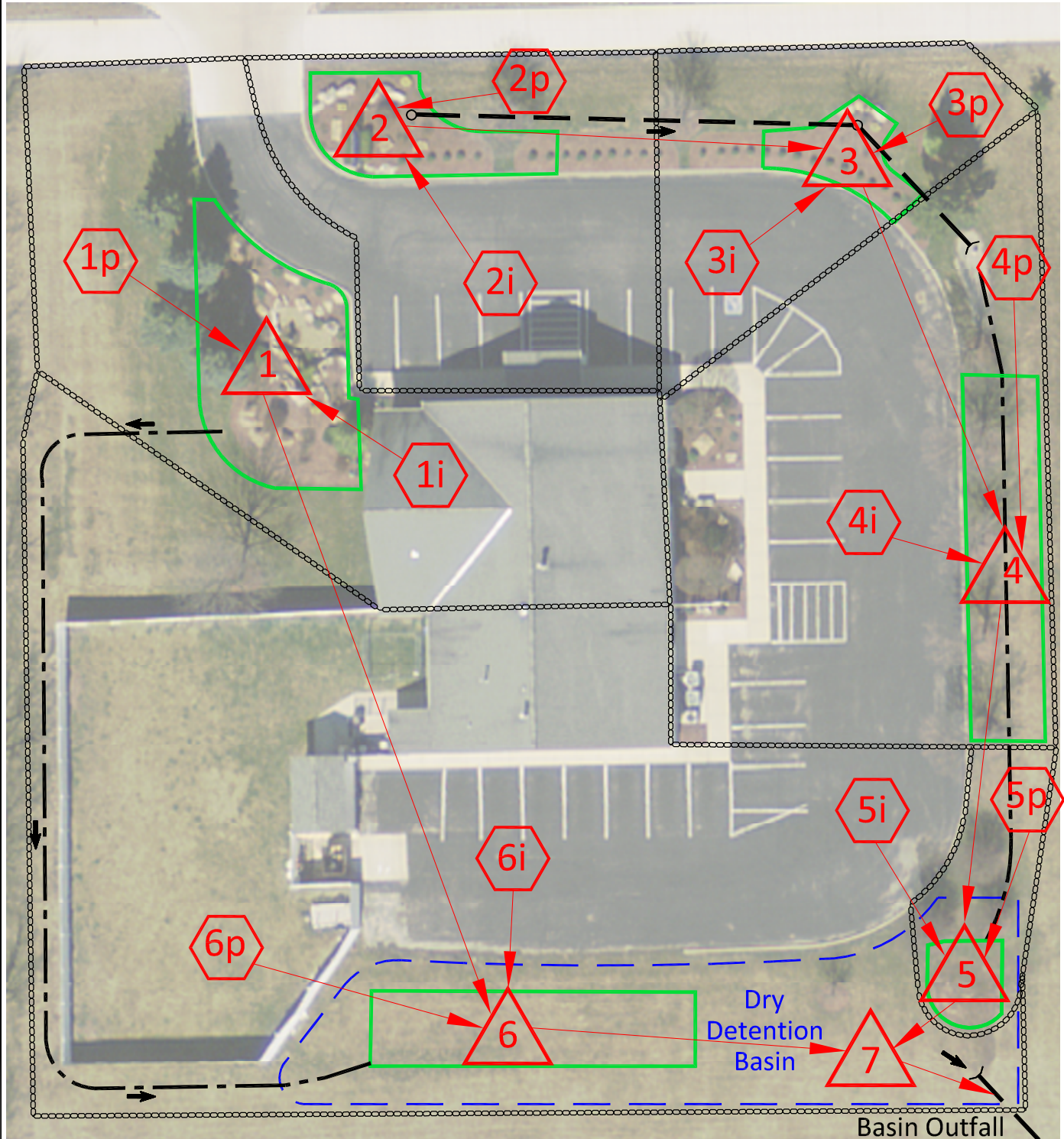


Per SW11.05 – Reduced Runoff Method for Stormwater Quality Calculations, a zero discharge from the site during a 1-inch rainfall will meet the stormwater quality requirement. This site layout utilizes several different green infrastructure techniques to this end.



- #p Pervious Shed Area (Subcatchment)
- #i Impervious Shed Area (Subcatchment)
- # Basin Routing

The micro-model treats each green infrastructure feature as a basin. Each feature will have an impervious shed area and a pervious shed area (not a weighted curve number for the total shed area). The basins are calculated as interconnected ponds. A zero discharge for a 1-inch rainfall meets the stormwater quality requirement. The model is then ran for the 100-year event to document that the stormwater quantity requirements are achieved.



2 Bio-Retention Basin
Storage Volume is equal to 1" rainfall event. Greater events overflow into raised inlet casting.

3 Bio-Retention Basin
Storage Volume is equal to 1" rainfall event. Greater events overflow into raised inlet casting.

1 Bio-Retention Basin
Storage Volume is equal to 1" rainfall event. Greater events overflow into the conveyance swale.

4 Water Quality Swale
Storage Volume by terracing and retentive grading is equal to 1" rainfall event. Greater storm events are passed through the swale.

6 Constructed Wetlands
Storage Volume is equal to 1" rainfall event. Larger rainfall events overflow into the dry basin and leave the site through the basin outfall.

5 Forebay Pretreatment
Storage Volume is equal to 0.1" rainfall event. Not a stand alone feature.

7 Dry Detention Basin
No Water Quality Value. Sized for the difference between the volumes contained in the water quality features and the required volume for the 100-year storm event through the entire site.

Water Quality Features shall include pretreatment and other construction elements per the Design Manual. The model shall include the volumes of the pretreatment features in the water quality basin volumes as applicable.

**Basin
Outfall
Structure**

