

## **Wardenburg Farms**

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City of Wildwood, Missouri

Wardenburg Farms is a 33-acre residential development located on the south side of Wild Horse Creek Road. The development consists of ten homes on 3-acre lots. Intuition & Logic is responsible for evaluating the proposed development for possible alternatives that would better manage stormwater runoff from the site, while reducing the size of the proposed retention facility, thereby minimizing the effects on receiving streams and the surrounding environment.

We developed several alternatives to the standard large retention facility. Two preferred alternatives were developed:

- 1) The existing house configuration was maintained, but roof tops were disconnected and allowed to flow overland across grassed surfaces to a grass-lined swale for collection. The swales collected into two ponds that would be integrated into the lot landscaping.
- 2) The existing house configuration is altered slightly to provide microdetention facilities for each lot. Outflow from the microdetention cells would be collected in grass-lined swales and directed to the proposed retention facility.

Both options allow for an environmentally sensitive design credit due to the low – density development and relatively flat slopes of the site. The credit would remove the water quality volume treatment requirement from the design process.