

B. Historic/Architectural Resources

The DNR's State Historic Architectural and Archaeological Research Database (SHAARD) GIS website was reviewed for archaeological and historical sites located within the Planning Area and project areas, the results of which can be seen in **Table 1-2 – SHAARD List** and **Figure 1-5 – SHAARD Map**. The SHAARD indicates there are five (5) county historic survey sites and one (1) cemetery located within the Planning Area. No historic districts or National Register Sites were noted in the SHAARD. While there are historic resources located within the Planning Area, no historic properties or cemeteries overlap with project areas or are located within 250 feet of project areas. As such, no historic sites or cemeteries in the Planning Area are anticipated to be impacted by the proposed project.

**Table 1-2
SHAARD List**

SHAARD_ID	HISTORIC NAME	RATING
County Historic Sites		
029-283-25025	House	Demolished
029-283-25023	House	Contributing
029-283-25049	Farm	Demolished
029-283-25024	Farm	Contributing
029-283-25026	T. Langdale Farm	Notable
Historic Bridges		
Cemeteries		
CR-15-109	Sugar Grove	Not applicable

C. Wetlands

The Federal government defines wetlands as areas:

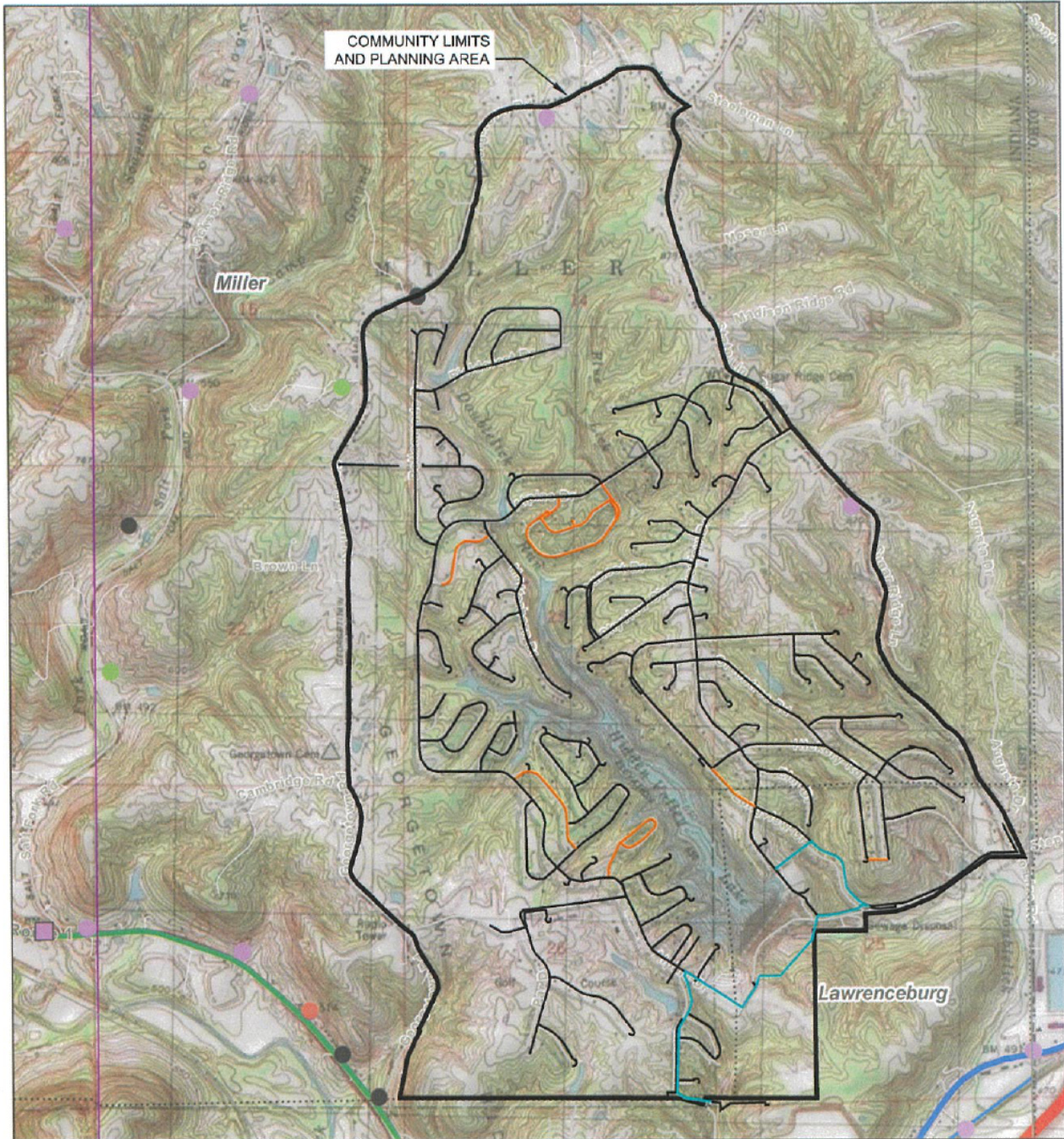
1. With hydric soil (soil formed in the presence of water), and
2. Water at or near the ground surface long enough in the growing season to support hydrophytic vegetation.

The U.S. Army Corps of Engineers (USACE) and the U.S. Environmental Protection Agency (EPA) define wetlands as "... areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas." This definition means that a particular piece of land does not have to be a wetland currently, only the potential to be a wetland, to be considered a wetland.

Wetland areas are particularly important due to their ability to sustain a vast array of plant and animal life that depends solely on the hydrologic and physiographic conditions. Because of this, wetlands have higher potential to support certain endangered species habitat, and therefore, the species themselves.

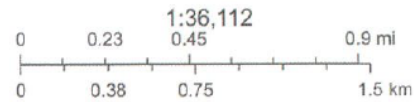
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DHPA IHBBC Map



LEGEND:

- EX. WATER MAIN
- EX. WATER MAIN TO BE REPLACED WITH 6"
- NEW 8" REDUNDANT FEED LINE
- USA Topo Maps
- Counties
- Cemeteries
- Historic Bridges
- Contributing
- County Survey Sites
- Outstanding
- Notable
- Contributing
- Demolished
- Canals-Historic Routes
- US Railroads 1870
- Civil Township Boundaries
- USGS Topo Quads



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SHAARD MAP
FIGURE 1-5

The U.S. Fish and Wildlife (USFWS) National Wetlands Inventory mapping was reviewed to identify wetlands areas located within the Planning Area. The wetlands located within the Planning Area are depicted in **Figure 1-6 – Wetlands Map**. Several small wetlands are shown within the Planning Area. No wetlands identified on mapping overlap with proposed project areas. If necessary, a regulated waters delineation will be performed to ensure project components remain outside of any wetland boundaries. Mitigation measures to lessen or compensate for wetland impacts cited in comment letters from the Indiana Department of Environmental Management (IDEM), USACE, and USFWS will be implemented, if deemed necessary and impacts are unavoidable.

D. Surface Waters

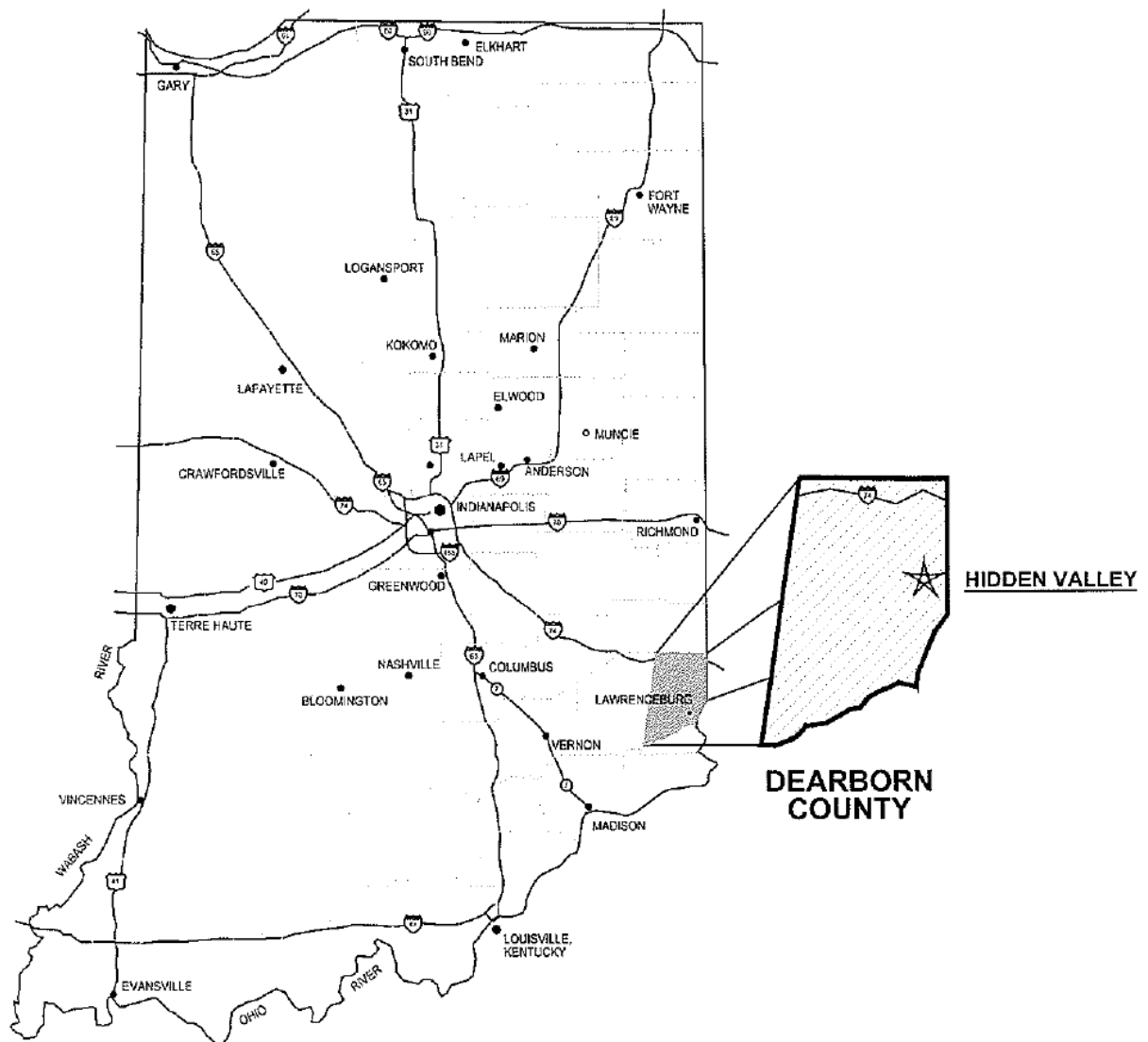
Surface waters located within the Planning Area are shown in **Figure 1-7 – Surface Waters Map**. The major surface waters in the Planning Area are Hidden Valley Lake, Doublelick Run, and an unnamed tributary of the Great Miami River. No waterbodies within the Planning Area are on the Indiana Outstanding Rivers List. None of these waterbodies are listed on Indiana's Natural, Scenic and Recreational Rivers and Streams [312 IAC 7-2]. No waterbodies within the Planning Area are designated as Waters of High Quality [327 IAC 2-1-2(3)], Exceptional Use Streams [327 IAC 2-1-11(B)], or Salmonid Waters [327 IAC 2-1.5-5(A)(3)]. As such, no crossing or boring under any waterbodies with any of these designations will be required.

There are two (2) stream crossings proposed for the new redundant feed line south of Hidden Valley Lake. Installation will utilize trenchless methods to minimize disturbance to streams.

IDEM develops Indiana's 303(d) List of Impaired Waters, a list which identifies streams that do not meet water quality standards. No water bodies in the Planning Area are listed on the Indiana's 303(d) List of Impaired Waters.

E. Groundwater

The USDA Natural Resource Conservation Service (NRCS) has published depth to water table data on the USDA Web Soil Survey Website. The depth to the water table for the Planning Area is shown in **Figure 1-8A to 1-8D – Depth to Water Table Map**. The depth of the water table in the Planning Area varies but is generally greater than 50 centimeters. A geotechnical investigation should be performed during design to determine the effects of groundwater on any new structures proposed. Construction activities are not anticipated to cause long-term detriment to the groundwater table of local wells. No sole source aquifers will be affected by the proposed project.



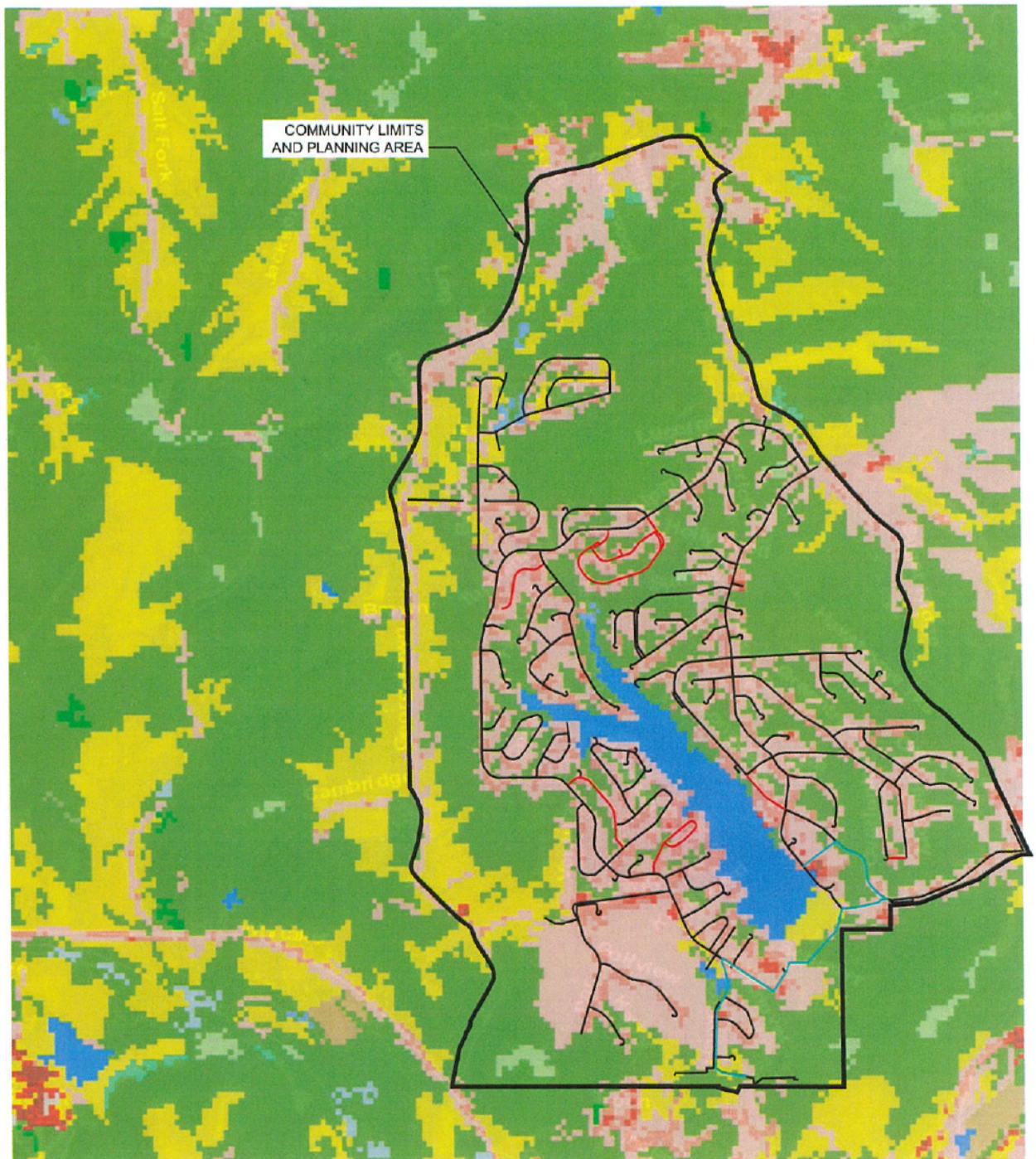
GENERAL LOCATION

NO SCALE



















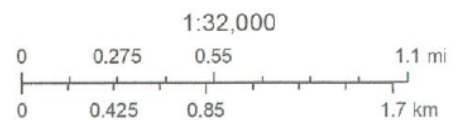
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GENERAL LOCATION
FIGURE 1-1



LEGEND:

	Open Water		Evergreen Forest		EX. WATER MAIN
	Developed, Open Space		Herbaceous		EX. WATER MAIN TO BE REPLACED WITH 6"
	Developed, Low Intensity		Hay/Pasture		NEW 8" REDUNDANT FEED LINE
	Developed, Medium Intensity		Cultivated Crops		
	Developed, High Intensity		Woody Wetlands		
	Barren Land		Emergent Herbaceous Wetlands		
	Deciduous Forest				



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LAND USE MAP
FIGURE 1-4