NYAPT Nassau County Presentation

November 18, 2026

Presented by:

NELSON+POPE
engineers • architects • surveyors



Introduction

- N & P Engineering, Architecture and Land Surveying, PLLC ("Nelson + Pope" or "N+P") is an established multidisciplined engineering, architecture and surveying partnership located in Melville, New York
- N+P has been serving municipal and private clients in Nassau and Suffolk Counties since 1954 and has fostered an excellent working relationship with many Town, County and State agencies
- Russell Z. Scott, PE, Senior Partner
- Dan Freeman, Senior Engineer

Software

- ESRI ArcGIS Pro 3.6 Software
- Geographic Information Systems (GIS) is a technology that stores, analyzes, and visualizes information based on location.
- For a school district, GIS allows staff to view schools, school boundaries, bus routes, and transportation infrastructure on a single interactive map rather than relying on spreadsheets and paper maps.
- We can determine transportation eligibility determination, walking distances, school capacity planning, route optimization, and bus stop placement analysis.









Software



NPV

VILLAGE OF MALVERNE MUNICIPAL SEPARATE STORM SEWER SYSTEM MAP

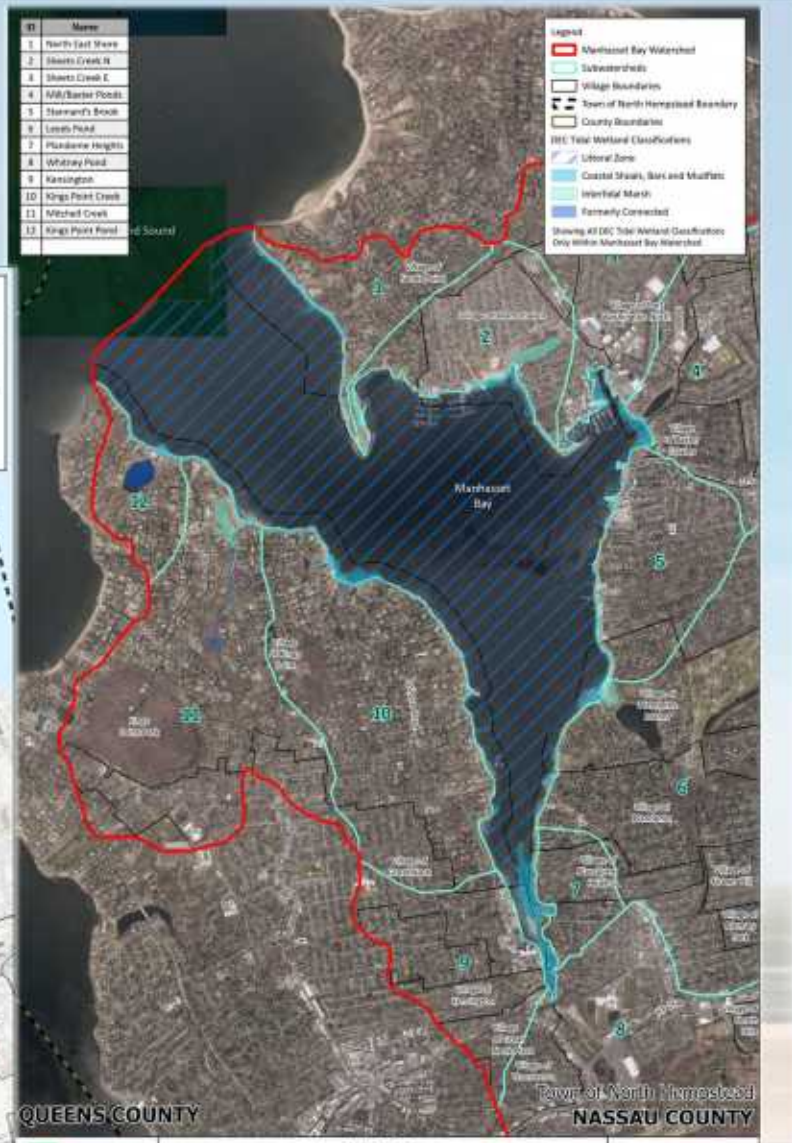
Sources: NYS Orthoimagery, 2023; NOAA 2022; NYS DEC, 2025; Village of Malverne, 2026
Scale: 1 inch equals 350 feet



NPV | Department of State

FIGURE 4-2
LAND USE MAP

Manhasset Bay
Water Quality Improvement Plan
North Hempstead, NY



NPV | Department of State

FIGURE 4-6
NYSDEC WETLAND MAP

Manhasset Bay
Water Quality Improvement Plan
North Hempstead, NY

This document was prepared with funding provided by the New York State Department of State under Title 11 of the Environmental Protection Fund

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Quality Control

- N+P staff will perform field visits to review and confirm additional types of non-mapped paths, such as walking paths and cut throughs
- These paths will be located, photographed and added to the ArcGIS map








Elementary School

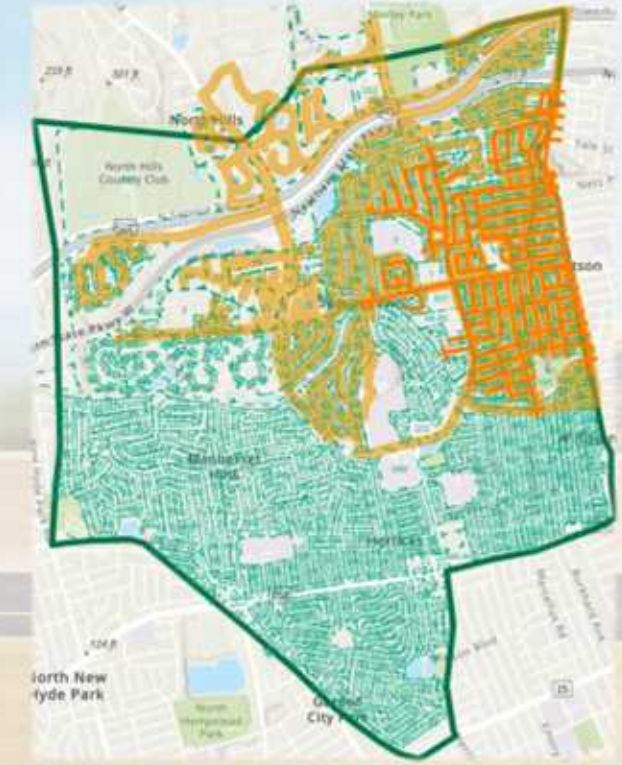

Middle School


High School

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Service Area

- This tool is used to calculate a specific distance away from a point on the map
- The elementary school maps depict transportation eligibility of greater than ¾ of a mile
- The middle and high school maps depict transportation eligibility of greater than 1 ½ miles



Elementary School



Middle School



High School

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Closest Facility

- This tool is used to calculate the shortest distance between two points using a road/path network (door-to-door distance, midpoint to nearest entrance)



Elementary 1 Zone
Parcels and Shortest Routes



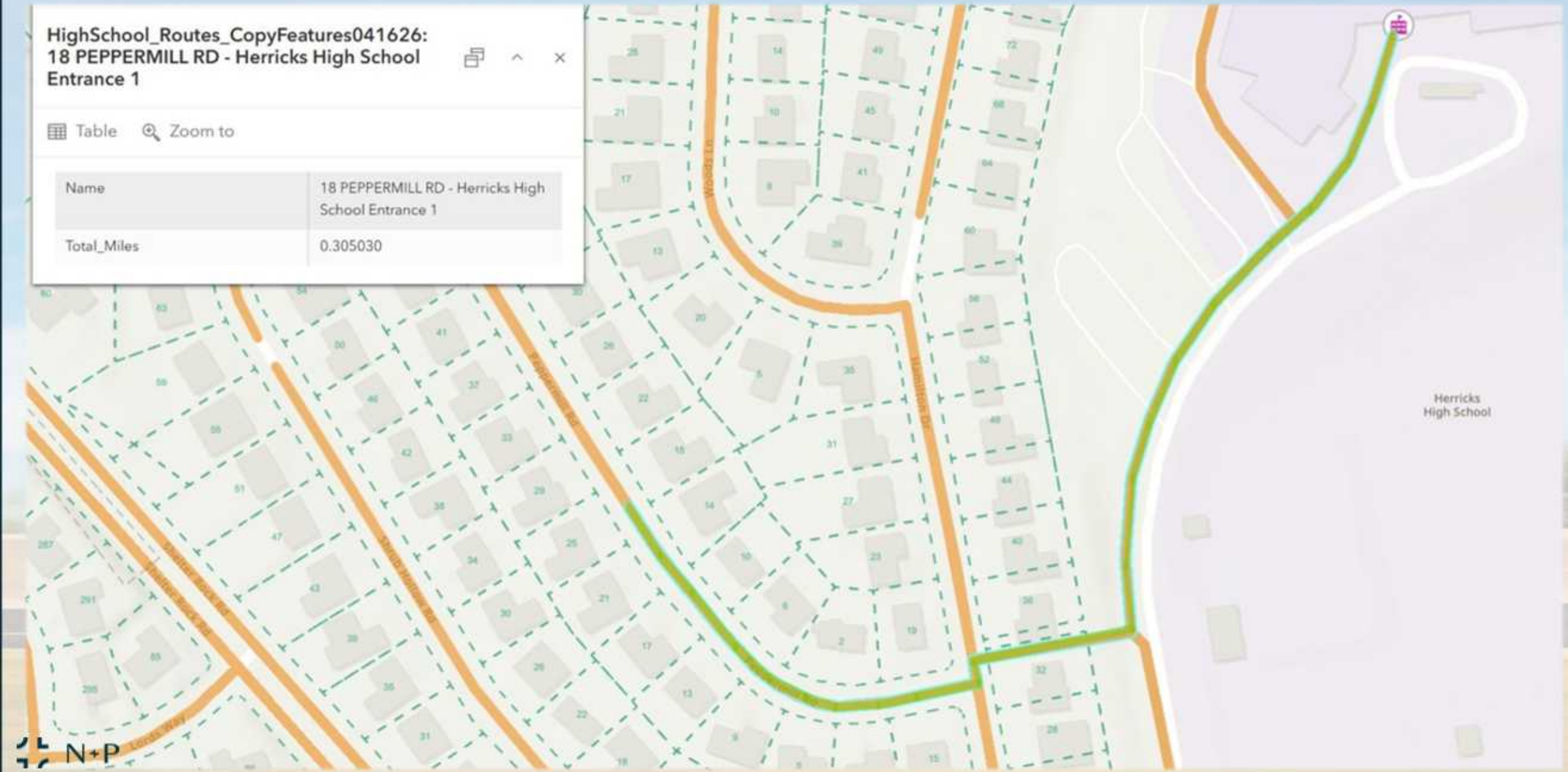
Elementary 2 Zone
Parcels and Shortest Routes



Elementary 3 Zone
Parcels and Shortest Routes

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Example


HighSchool_Routes_CopyFeatures041626:
18 PEPPERMILL RD - Herricks High School Entrance 1
Table
Zoom to
Name
18 PEPPERMILL RD - Herricks High School Entrance 1
Total_Miles
0.305030
Herricks High School
N+P

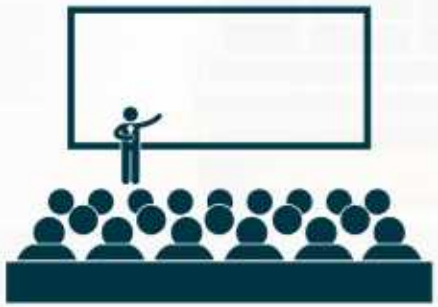
Example

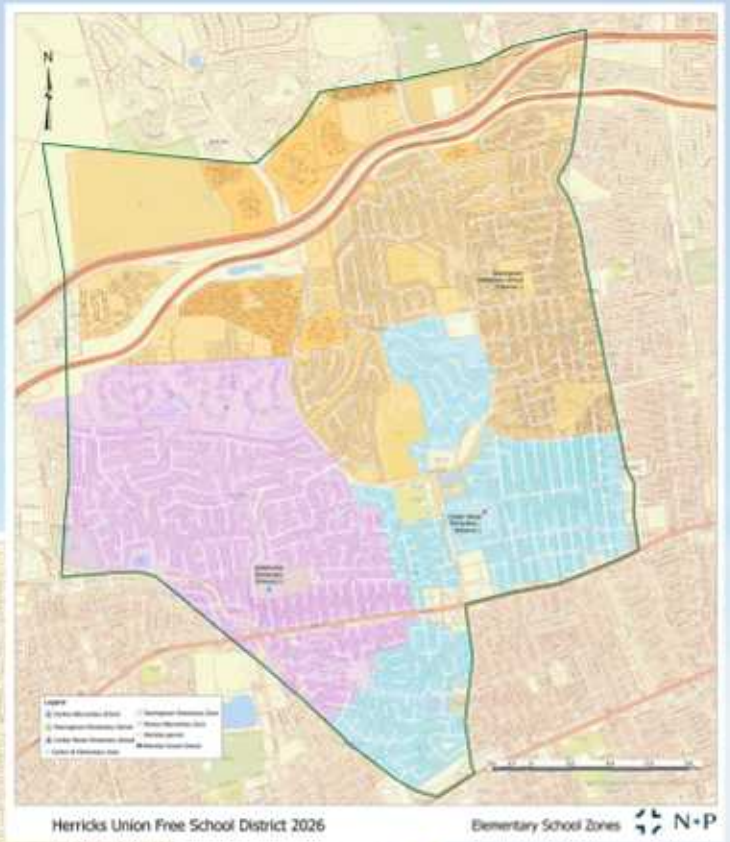
T_PROPERTY_HOUSE_NUMBER	T_PROPERTY_STREET_ADDR	Full_Address	Name	Total_Miles
	18 PEPPERMILL RD	18 PEPPERMILL RD	18 PEPPERMILL RD - Herricks High School Entrance 1	0.305029737

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Services We Can Provide

- GIS online access for up to 1 year
- Excel spreadsheet exports
- Shape files for schools to import into their own GIS system
- PDF exports of maps
- Printing and/or lamination of full-size maps (up to 36 x 48 inches)
- Public presentations









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Thank you !

Questions ?

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