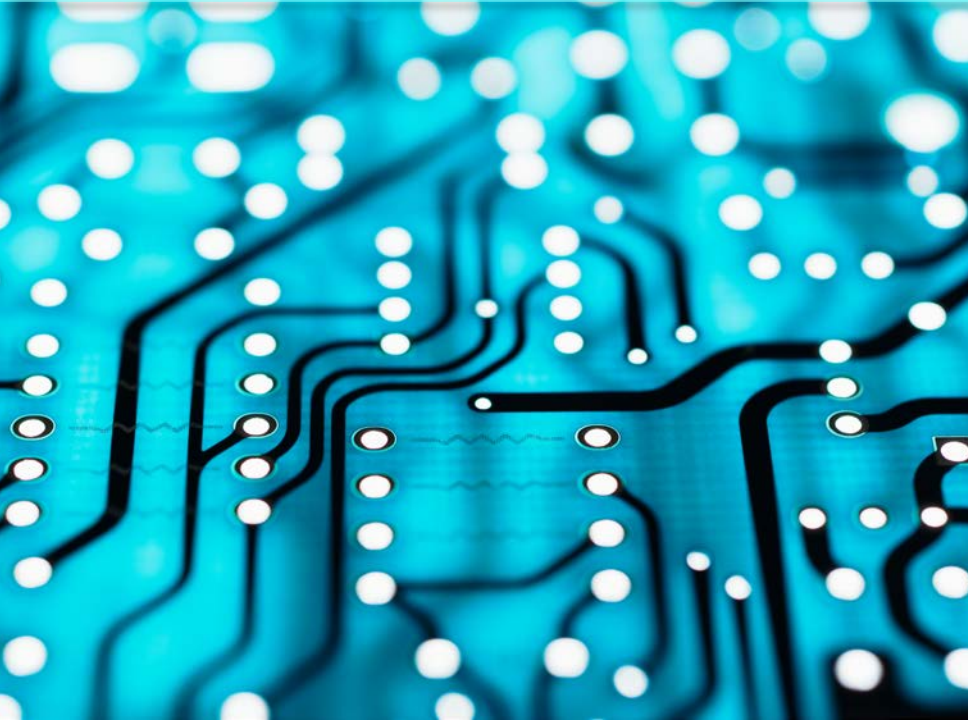


LEGISTAR 24-0307

IT DEPARTMENT

MAY 2024



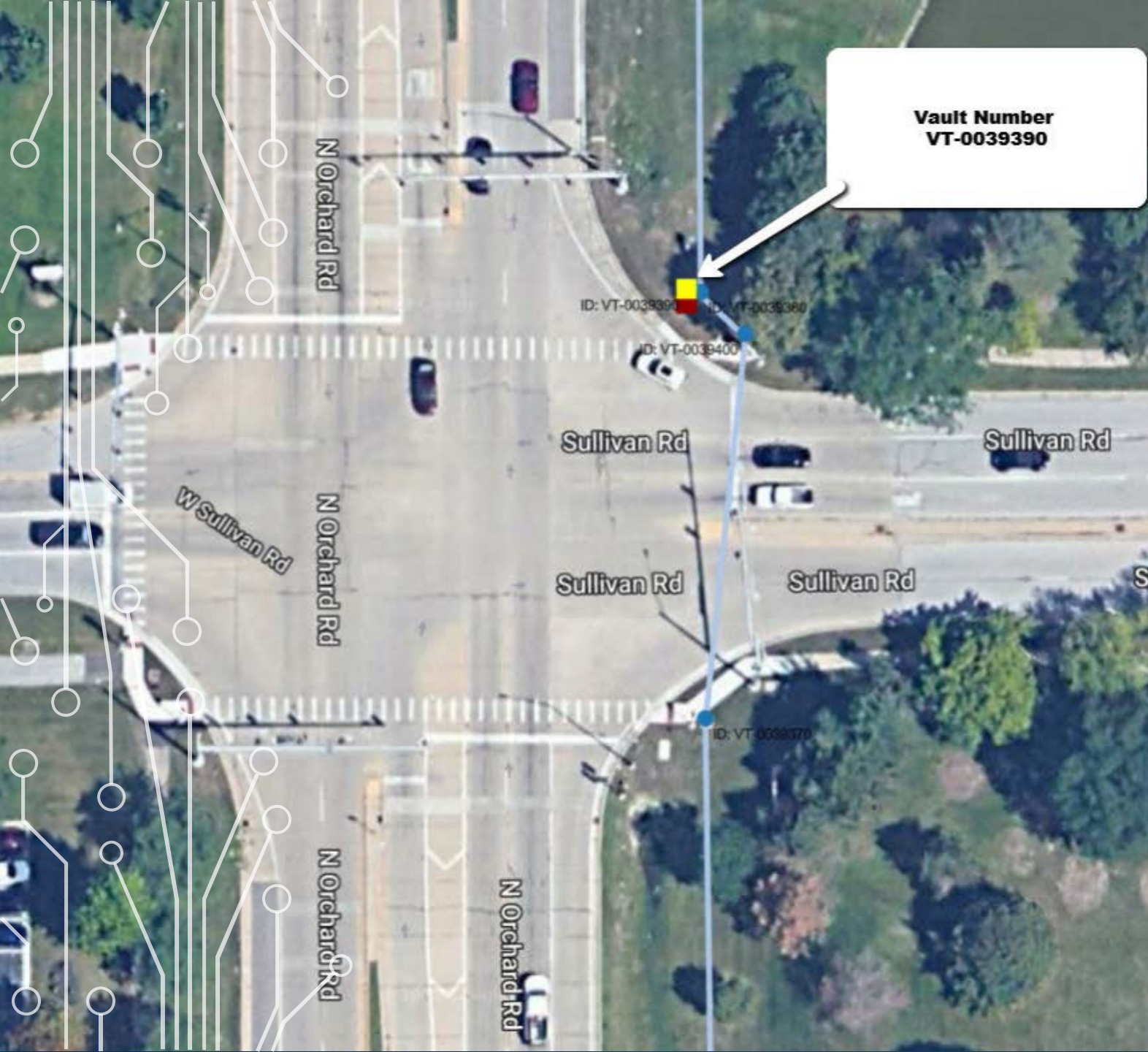
EXECUTIVE SUMMARY

- A resolution to award \$243,686.00 to NTI National Technologies (NTI), Downers Grove, IL, to provide an alternate fiber infrastructure route to the Fox Valley Habitat for Humanity Habitat Green Freedom Subdivision.
- PURPOSE: R23-132 approved the use \$265,666.00 of 2023 CIP fiber funds to connect the Fox Valley Habitat for Humanity Habitat Green Freedom to Kane County fiber on Orchard Road for reconnection to city-owned fiber on Sullivan Road. The City was to lease the fiber along Orchard Road from Kane County.
- Subsequently, leadership within Kane County determined that the County could not continue leasing fiber to municipalities without new State legislation, despite having previously leased fiber to government agencies through Intergovernmental Agreements. Kane County anticipates an update to the legislation in September 2024. However, due to ongoing construction of this housing project, the City must complete the connection to its fiber infrastructure using an alternate route by the end of June 2024 to facilitate pre-construction planning activities.



- From the intersection of Orchard Road and Sullivan Drive to the Intersection of Orchard Road and Jericho Road
- 2 Dark Fibers of Kane County Fiber starting from the Northeast quadrant of the intersection of Orchard Road and Sullivan Drive going south to the Southwest Corner of Orchard Road and Jericho Road.
 - 6.5 Linear Miles
 - 13 Strand Miles

- From the intersection of Orchard Road and Sullivan Drive to the Intersection of Orchard Road and Jericho Road
- 2 Dark Fibers of Kane County Fiber starting from the Northeast quadrant of the intersection of Orchard Road and Sullivan Drive going south to the Southwest Corner of Orchard Road and Jericho Road.
 - 6.5 Linear Miles
 - 13 Strand Miles



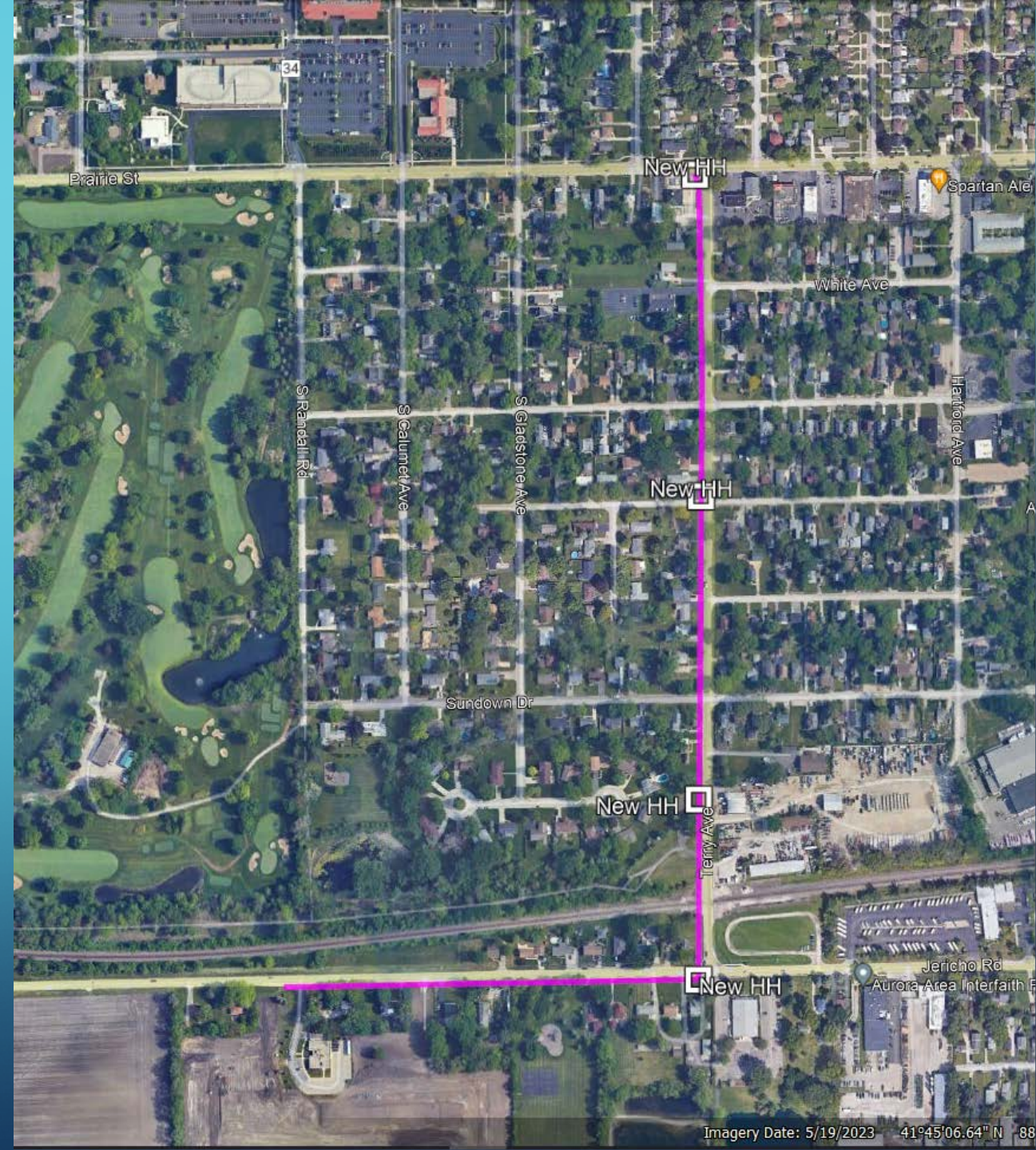
INTERSECTION OF ORCHARD ROAD & SULLIVAN ROAD



INTERSECTION OF ORCHARD ROAD & JERICHO ROAD

**Vault number
VT-0033730**

PROPOSED OPTION: CITY OF AURORA FIBER PATH



EXECUTIVE SUMMARY: FIBER OPTIC LEASE COSTS

Key Points

1. Lease Costs:

- The annual lease cost is \$13,000.00 for years 1, 10, and 20.
- Total lease cost over 20 years: \$52,000.00.

2. Yearly Maintenance:

- The maintenance cost is \$1,950.00 per year for all 20 years.
- Total maintenance cost over 20 years: \$39,000.00.

3. Initial Setup:

- A one-time setup fee of \$2,500.00 is incurred in the first year.
- Total initial setup cost: \$2,500.00.

4. Grand Total:

- The overall cost over 20 years, including lease, maintenance, and setup: \$93,500.00.

After conducting a comprehensive analysis of the total cost of ownership (\$509,352) in comparison to the lease cost (\$93,500), which results in a variance of (\$415,852), and considering potential project schedule delays, the IT Department thoroughly reevaluated the long-term implications. With a focus on community well-being and a proactive stance toward unforeseen challenges, the department confidently affirms that investing in and owning the fiber infrastructure is the optimal decision. This decision not only mitigates risk but also creates enduring value for Aurora residents, making it the first Smart Neighborhood in Illinois.

The background is a blue gradient. In the corners, there are white line-art designs resembling circuit boards or neural networks, with lines and small circles connecting them.

THANK YOU AND QUESTIONS

OVERVIEW: CITY OF AURORA FIBER MAP

