

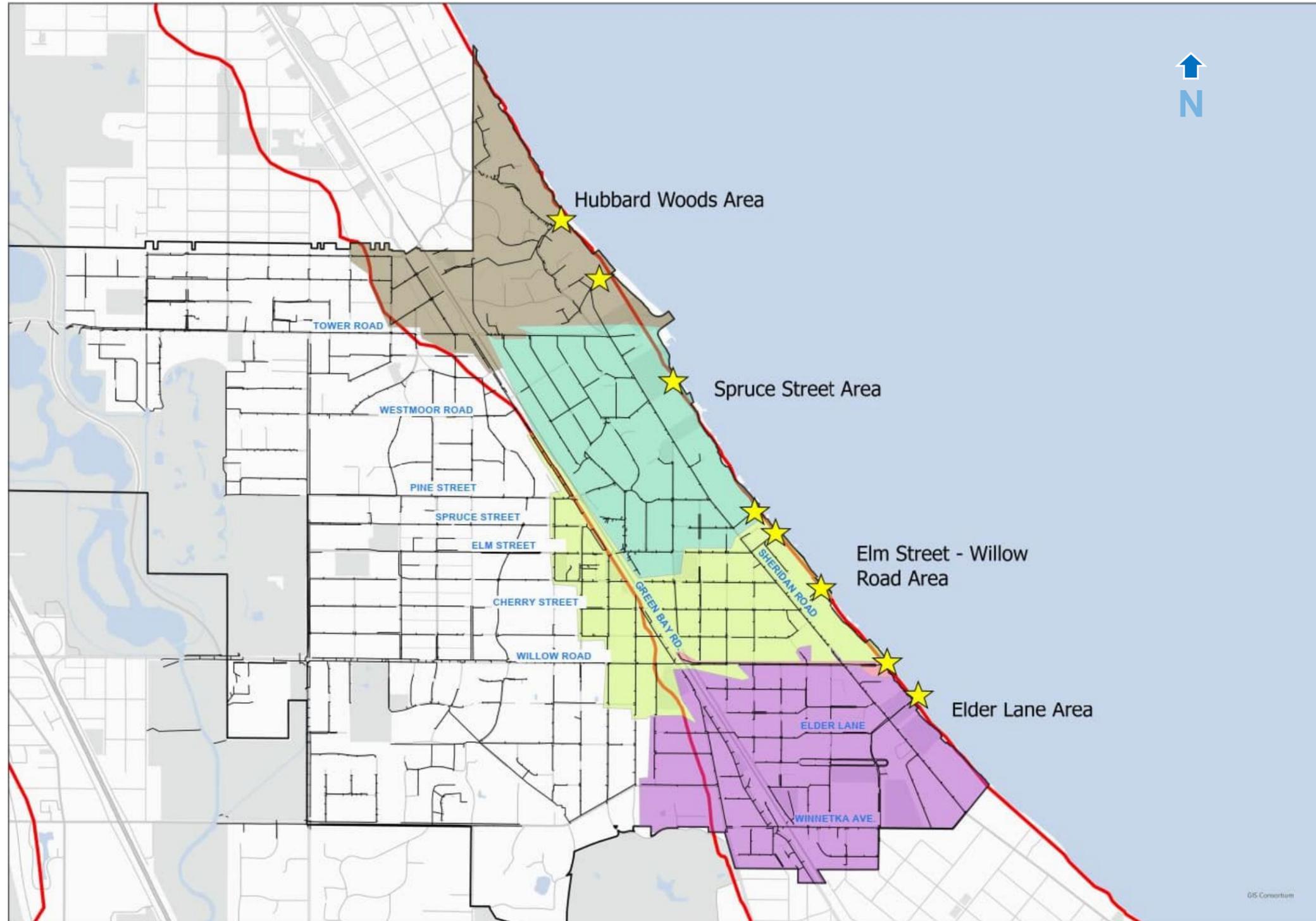
Stormwater Management Study: Evaluation of Stormwater Improvements For Eastern Winnetka

Village of Winnetka Council Check-In No. 2

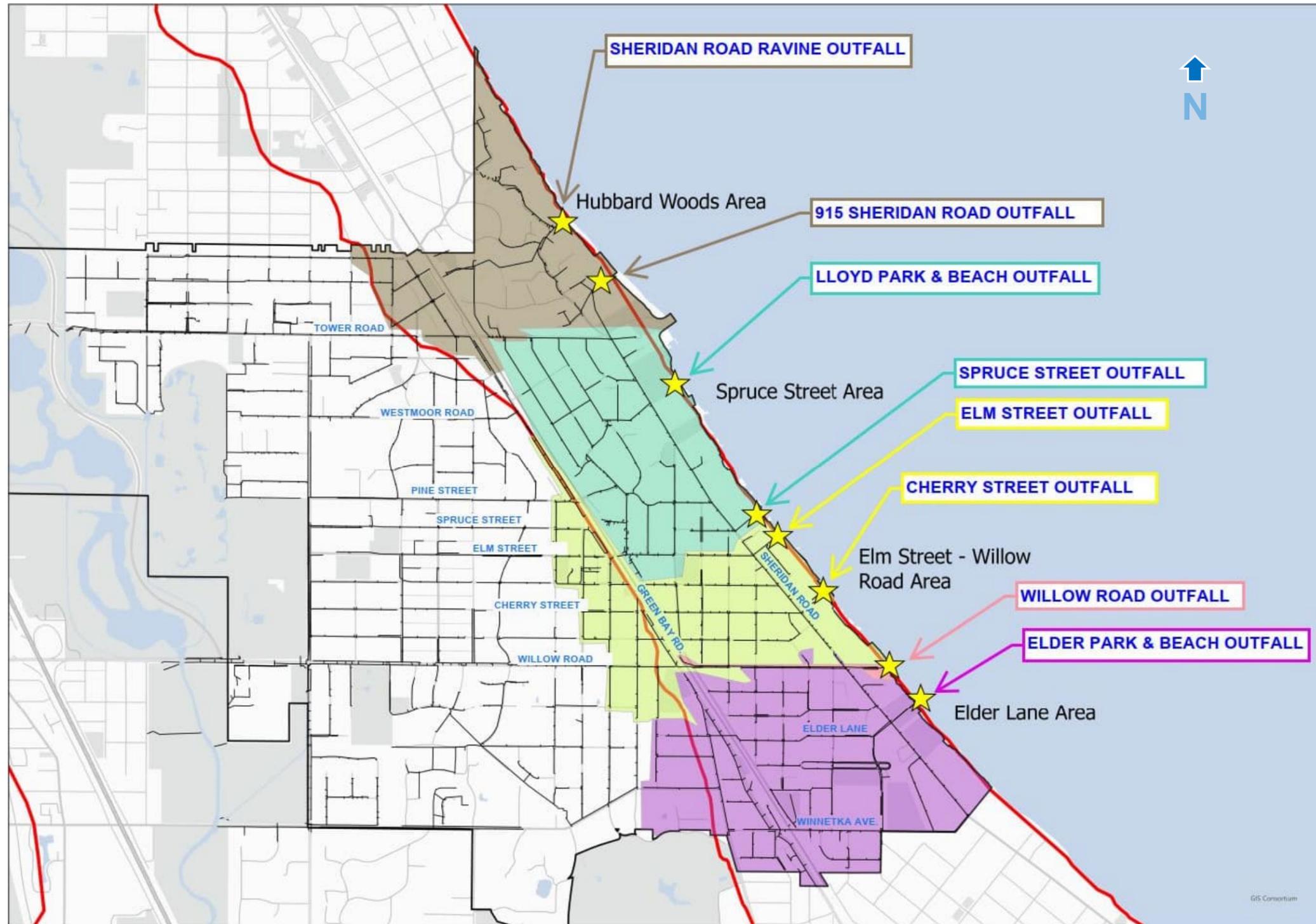
January 14, 2025



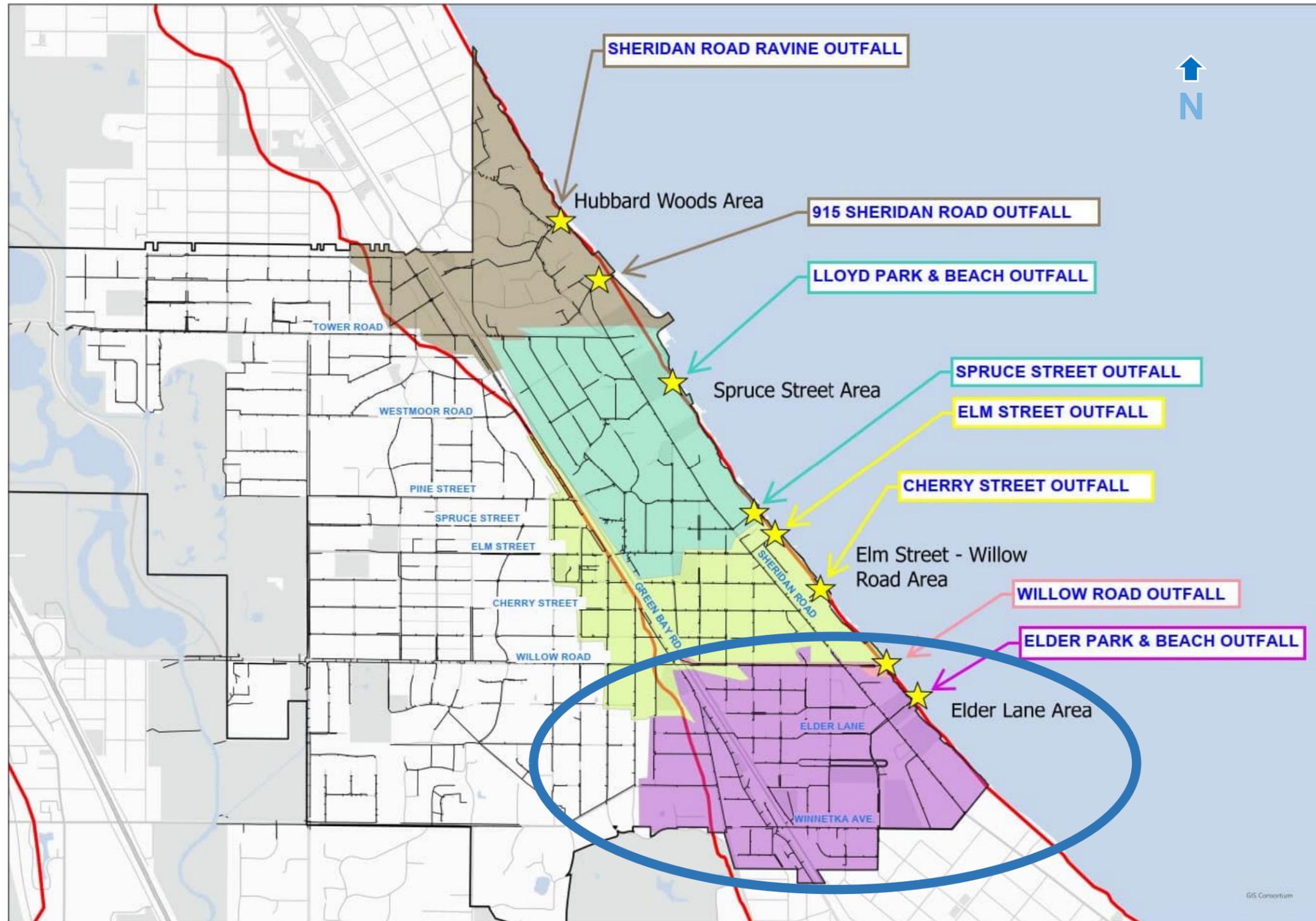
Lake Michigan Watershed (Eastern Winnetka) and Four Sub-Areas



Lake Michigan Watershed and Eight Existing Outfalls

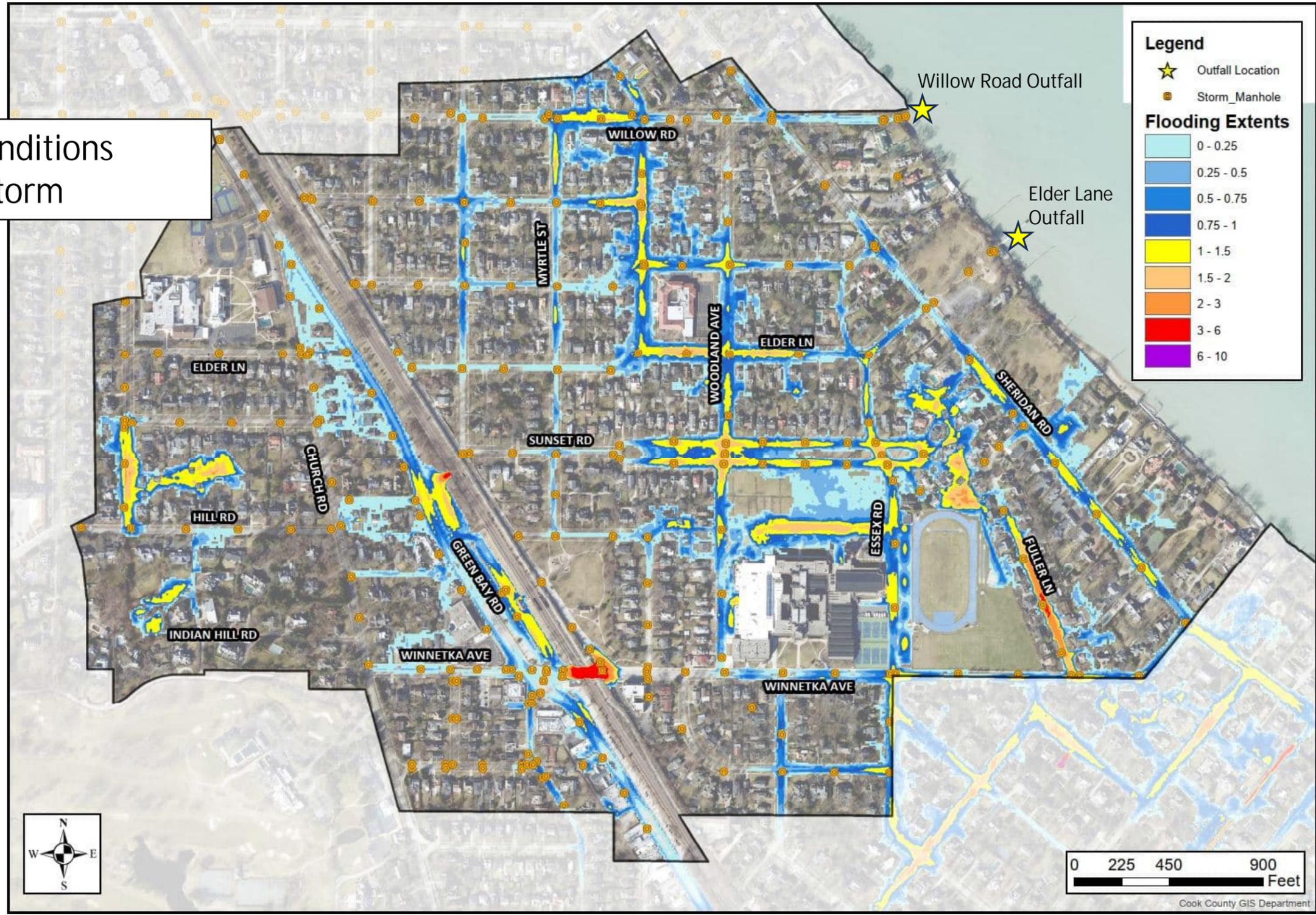


Stormwater Management Study – Elder Lane Sub-Area

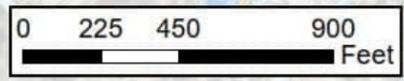


Elder Lane Sub-Area Flooding

Existing Conditions
100-Year Storm

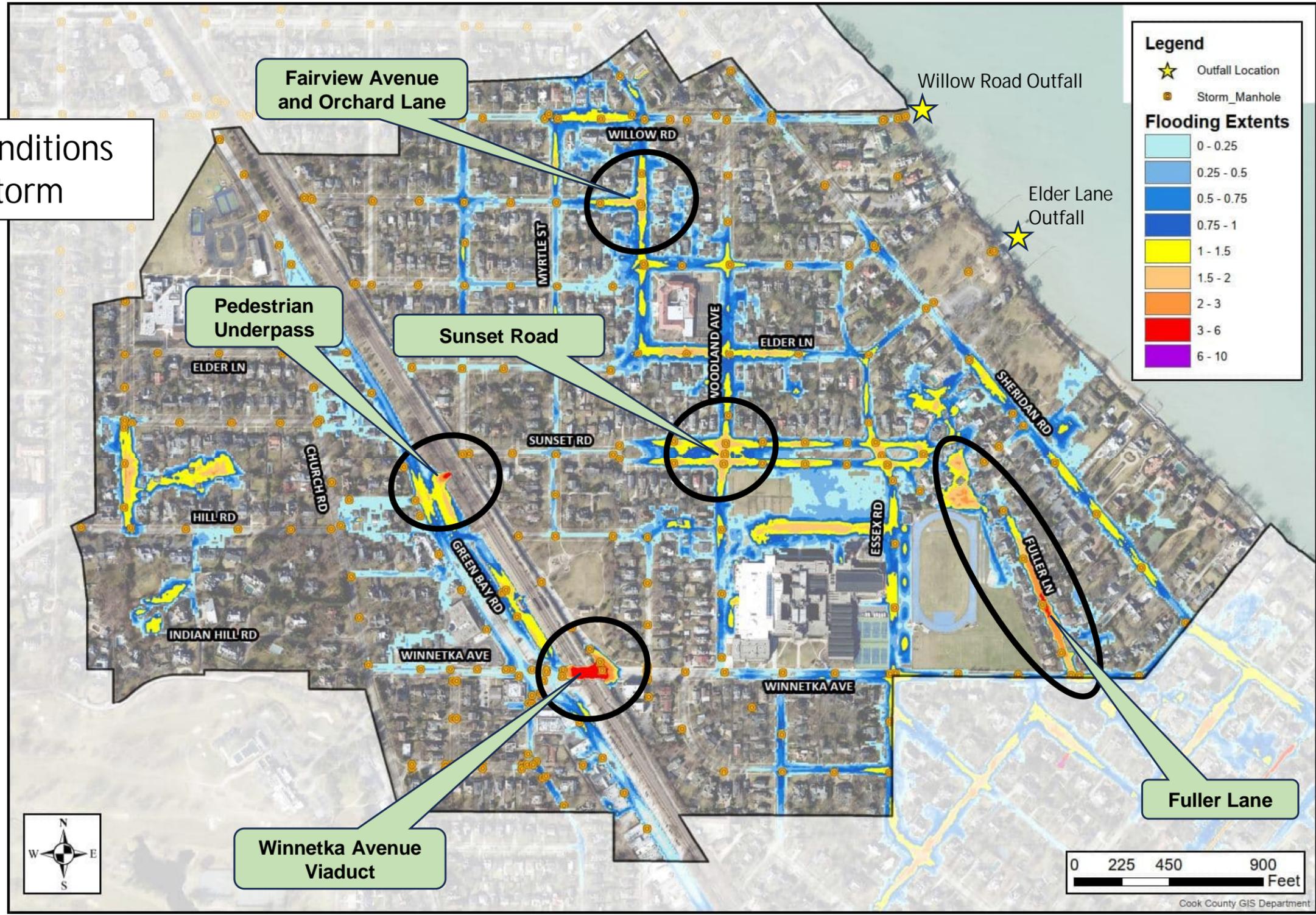


ELDER LANE EXISTING CONDITIONS
FLOOD EXTENTS 100-YEAR, 2-HOUR STORM
 EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
 AND ALTERNATIVES FOR EASTERN WINNETKA
 VILLAGE OF WINNETKA
 COOK COUNTY, ILLINOIS



Elder Lane Sub-Area Flooding

Existing Conditions
100-Year Storm



**ELDER LANE EXISTING CONDITIONS
FLOOD EXTENTS 100-YEAR, 2-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS**

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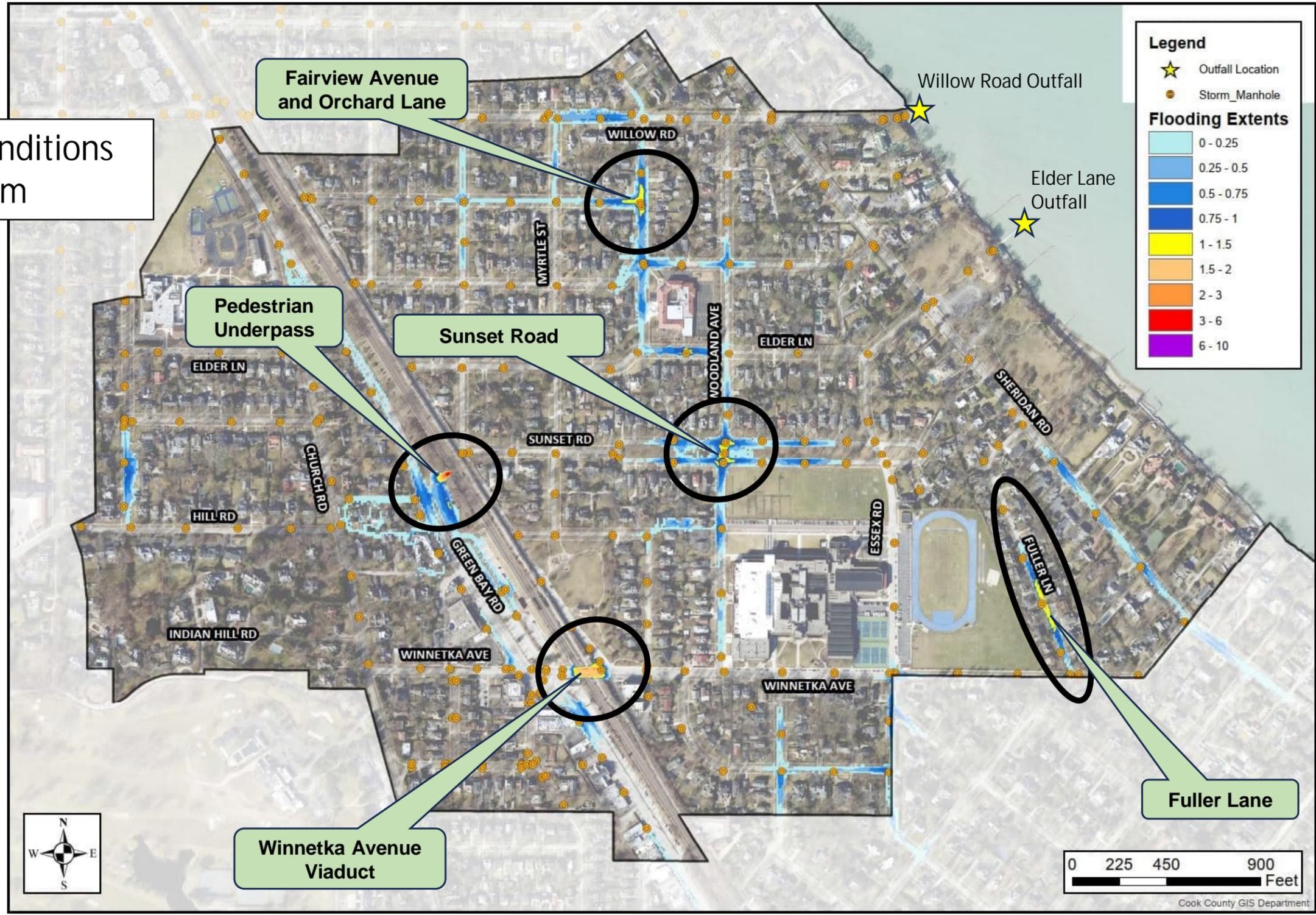
**FIGURE 6
1619.043**



Cook County GIS Department

Elder Lane Sub-Area Flooding

Existing Conditions
2-Year Storm



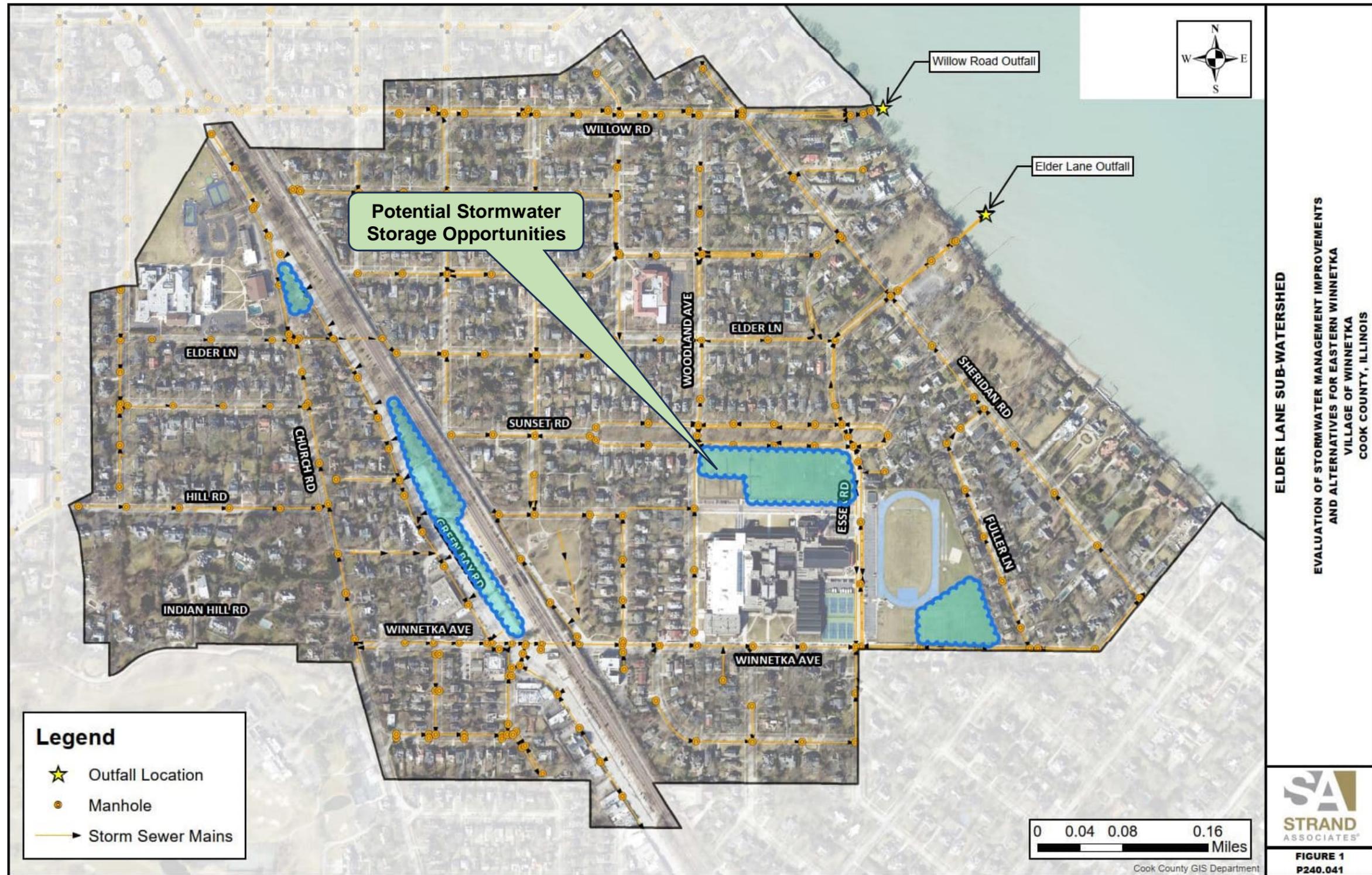
ELDER LANE EXISTING CONDITIONS
FLOOD EXTENTS 2-YEAR, 2-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

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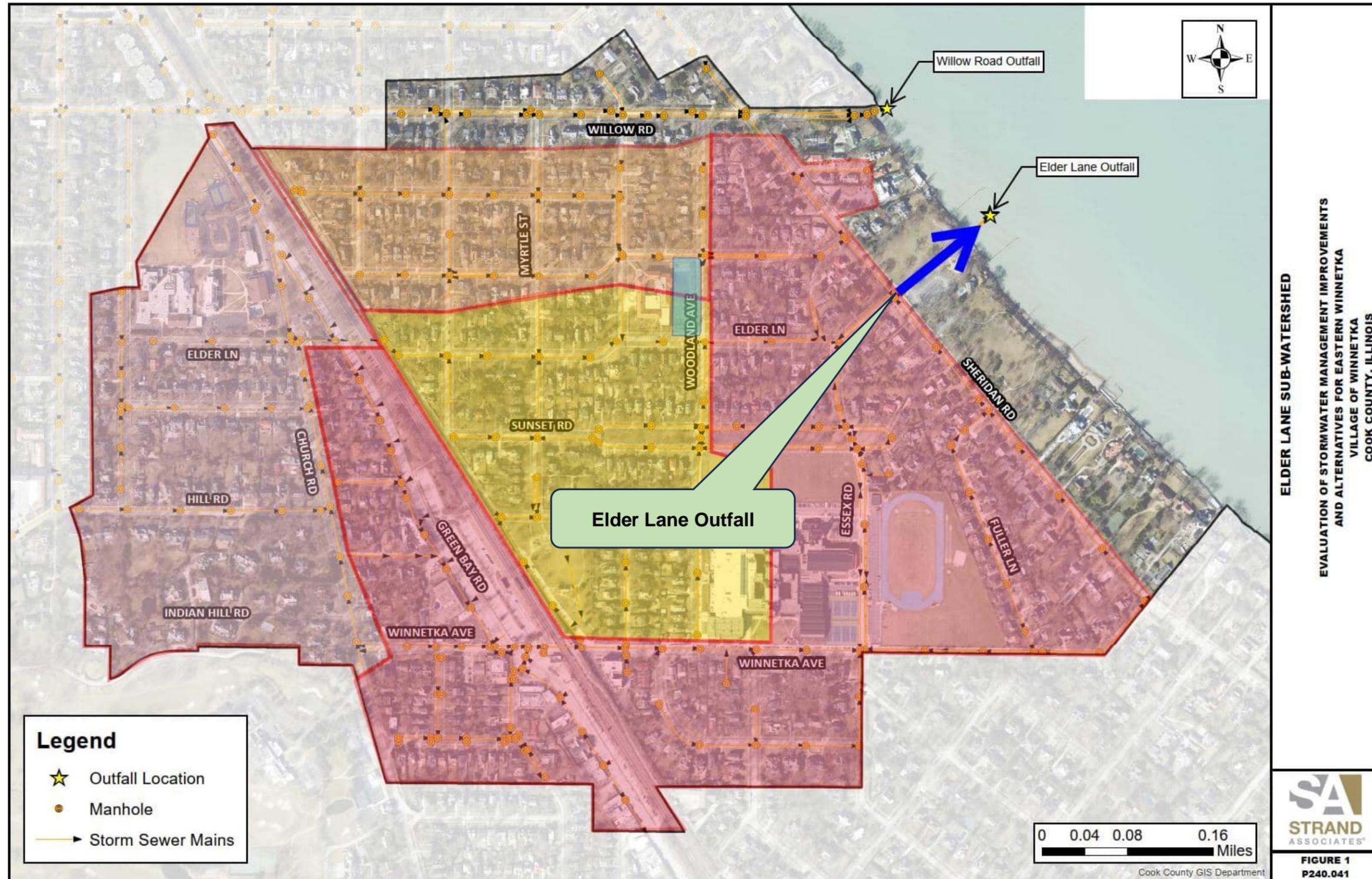
FIGURE 1
1619.043



Elder Lane Sub-Area Alternatives Evaluation - Storage

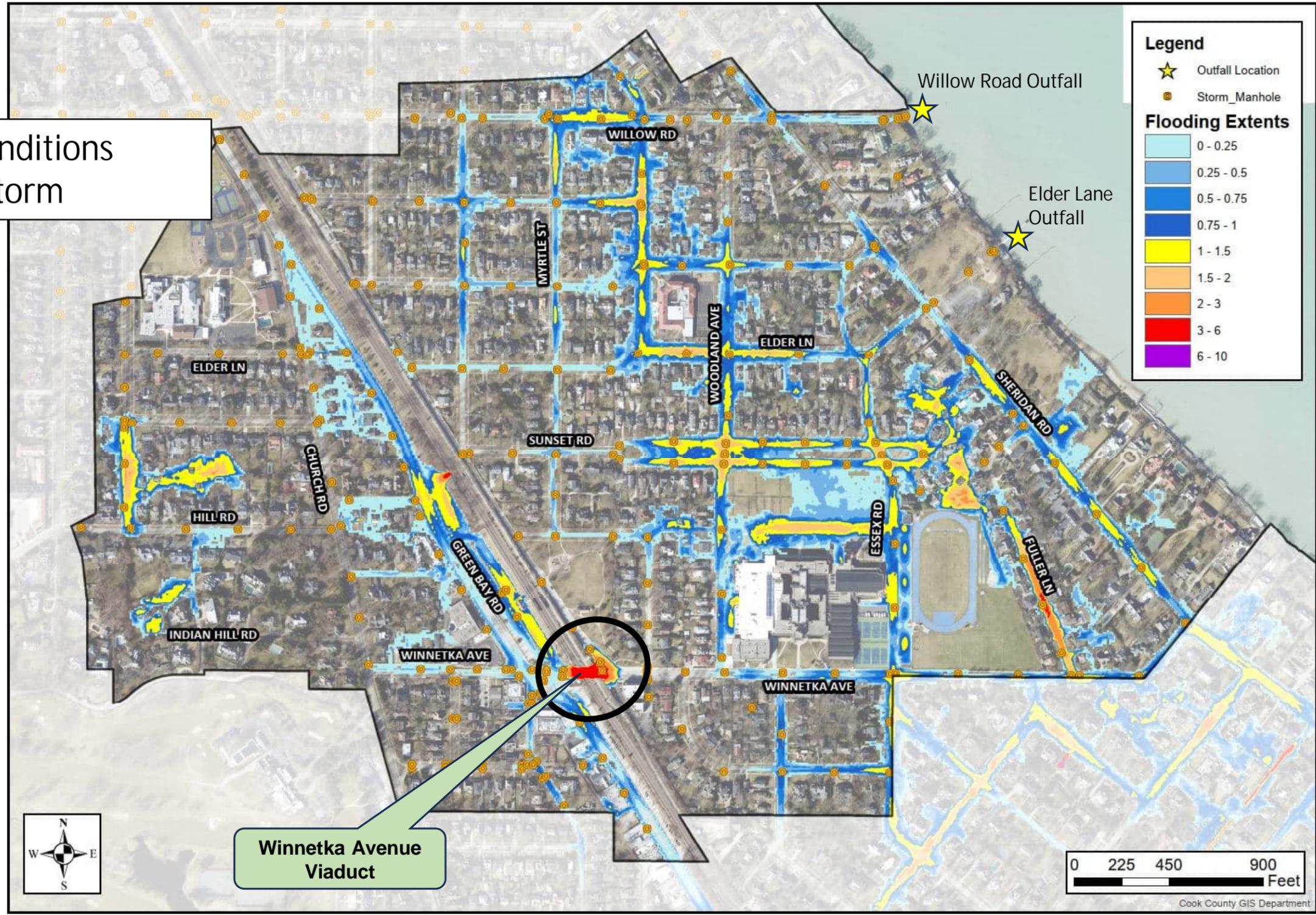


Elder Lane Sub Area Alternatives Evaluation - Conveyance



Elder Lane Sub-Area Flooding – Winnetka Avenue Underpass

Existing Conditions
100-Year Storm



Legend

- ☆ Outfall Location
- Storm_Manhole

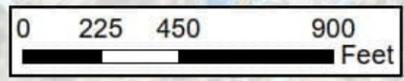
Flooding Extents

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 6
- 6 - 10

ELDER LANE EXISTING CONDITIONS
FLOOD EXTENTS 100-YEAR, 2-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

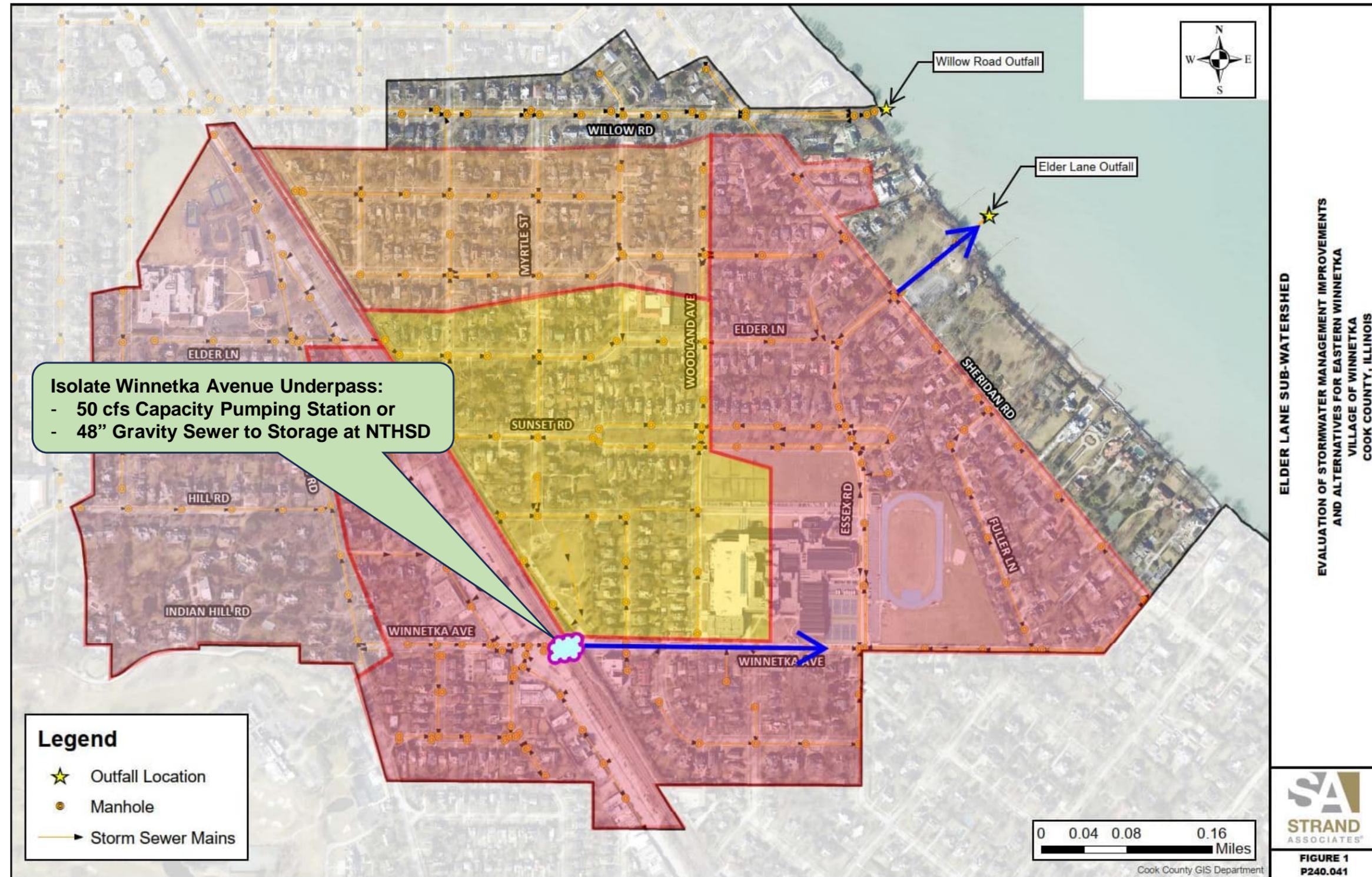


Winnetka Avenue
Viaduct



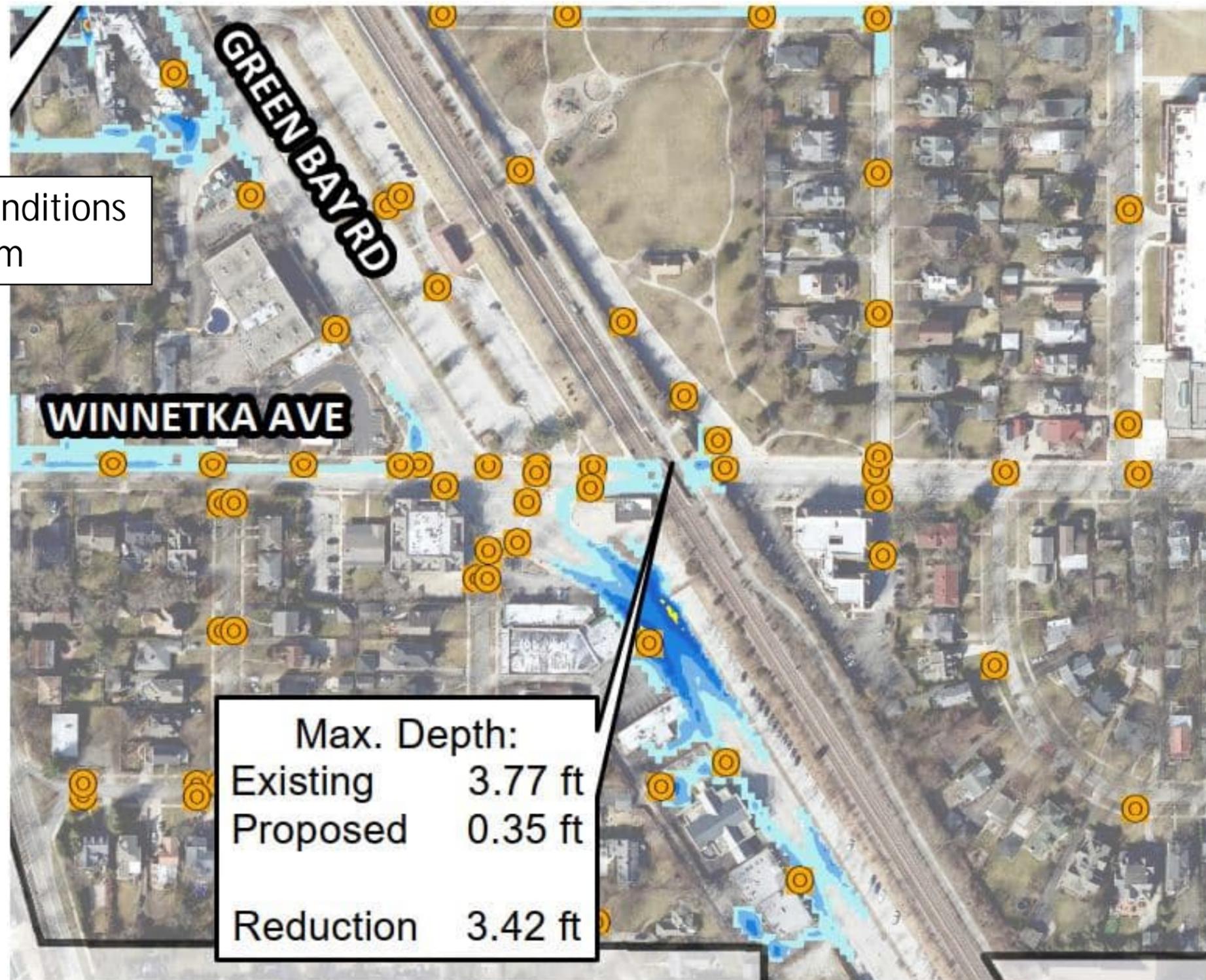
Cook County GIS Department

Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass



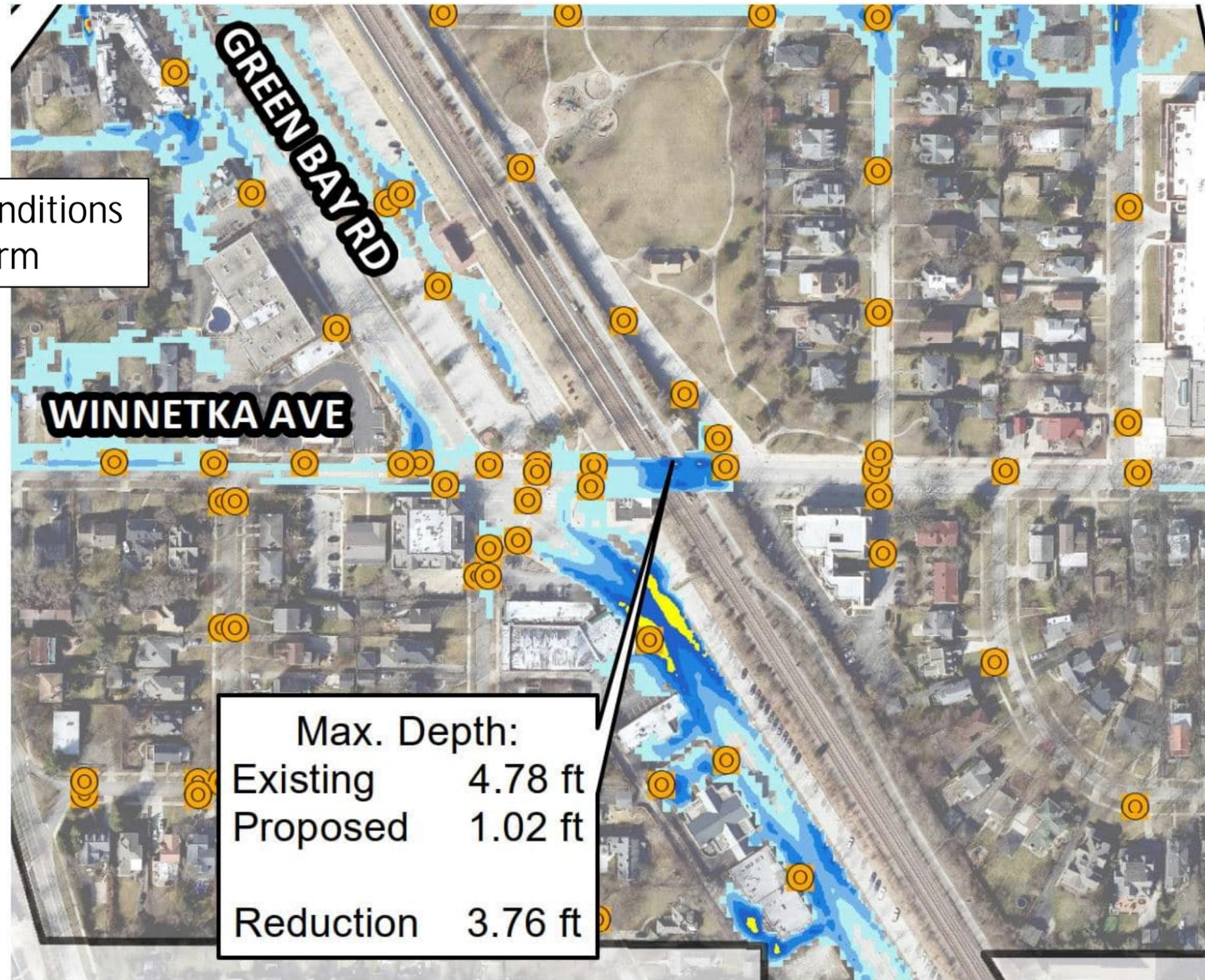
Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass

Proposed Conditions
10-Year Storm

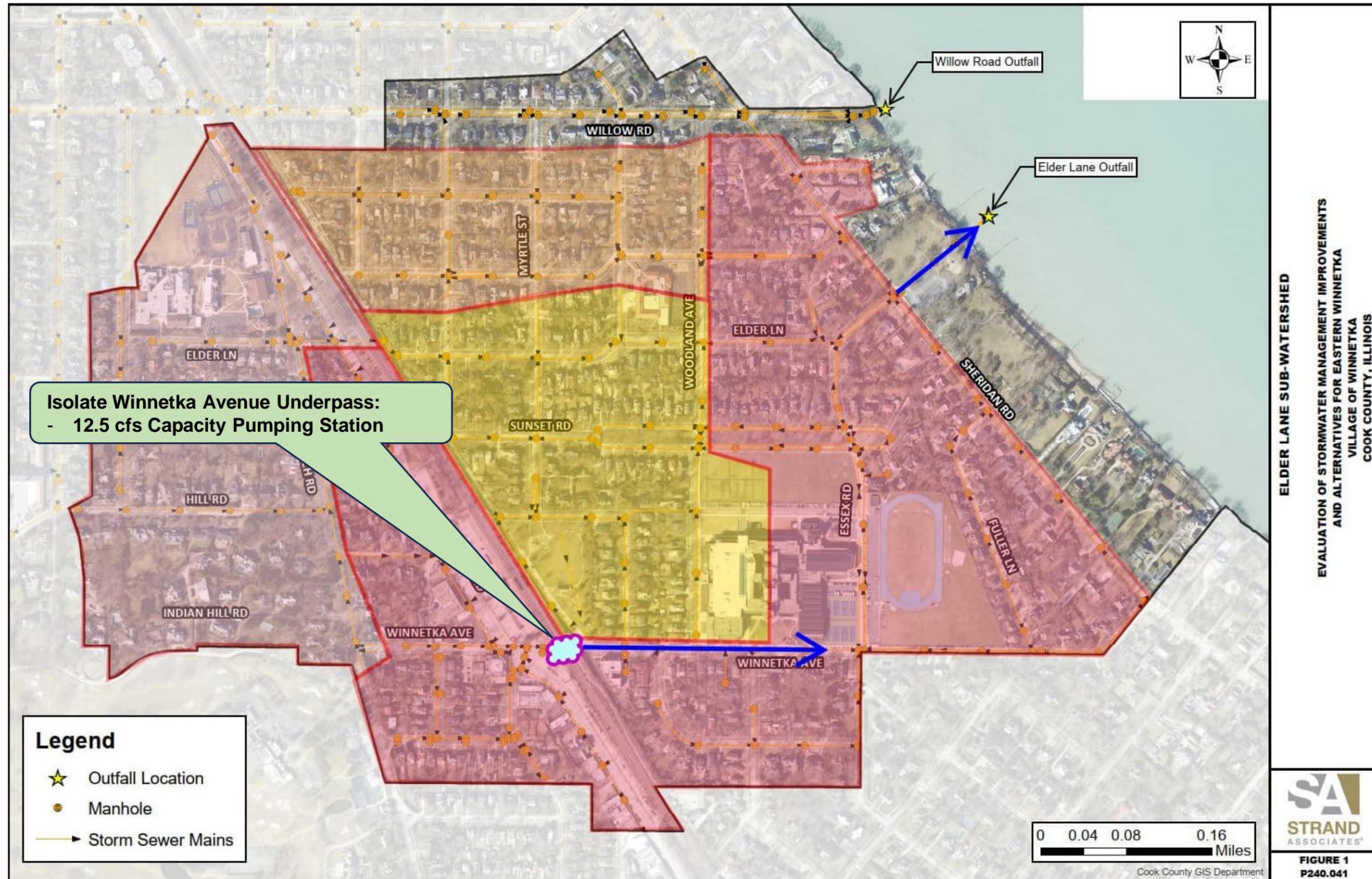


Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass

Proposed Conditions
100-Year Storm

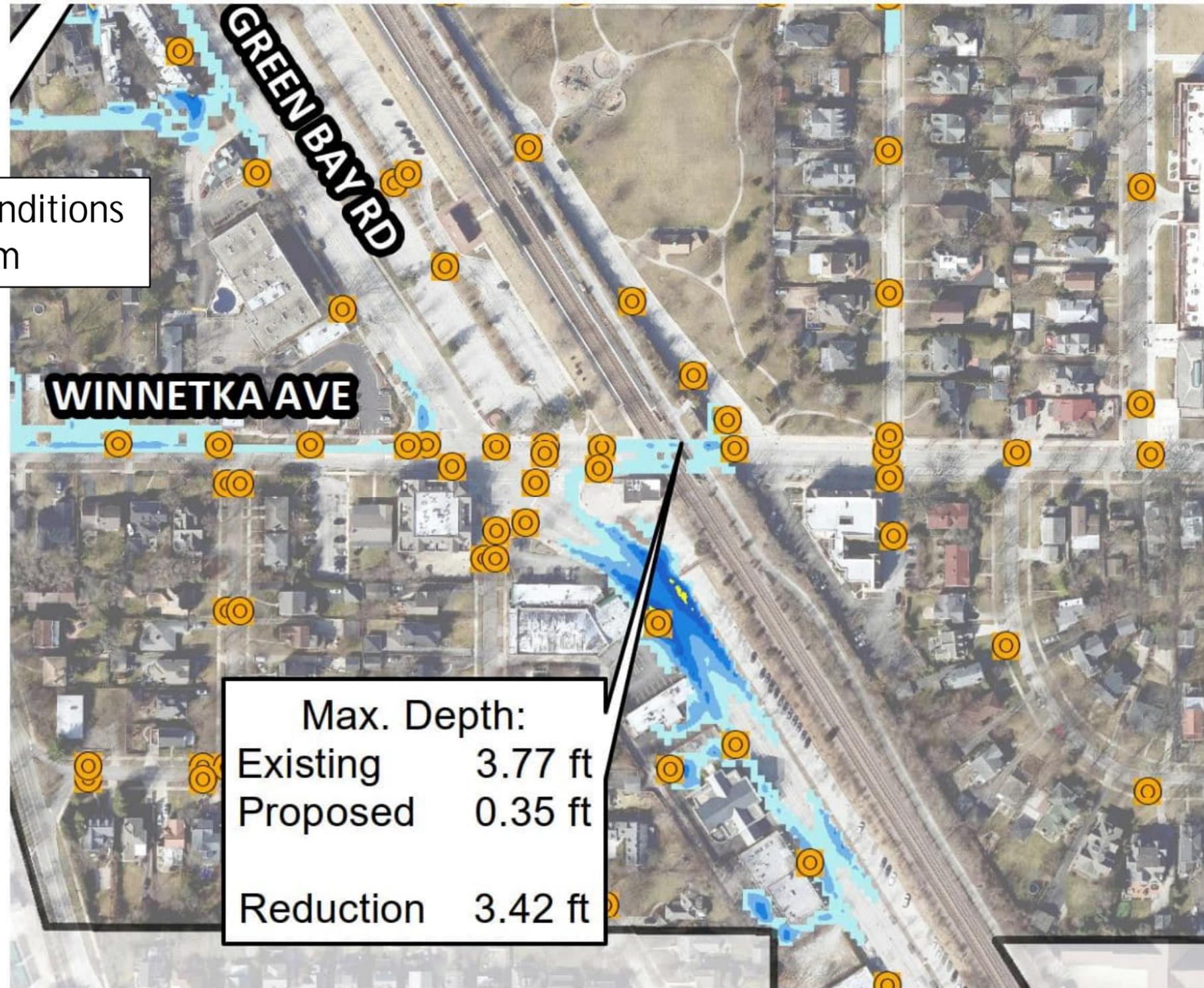


Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass



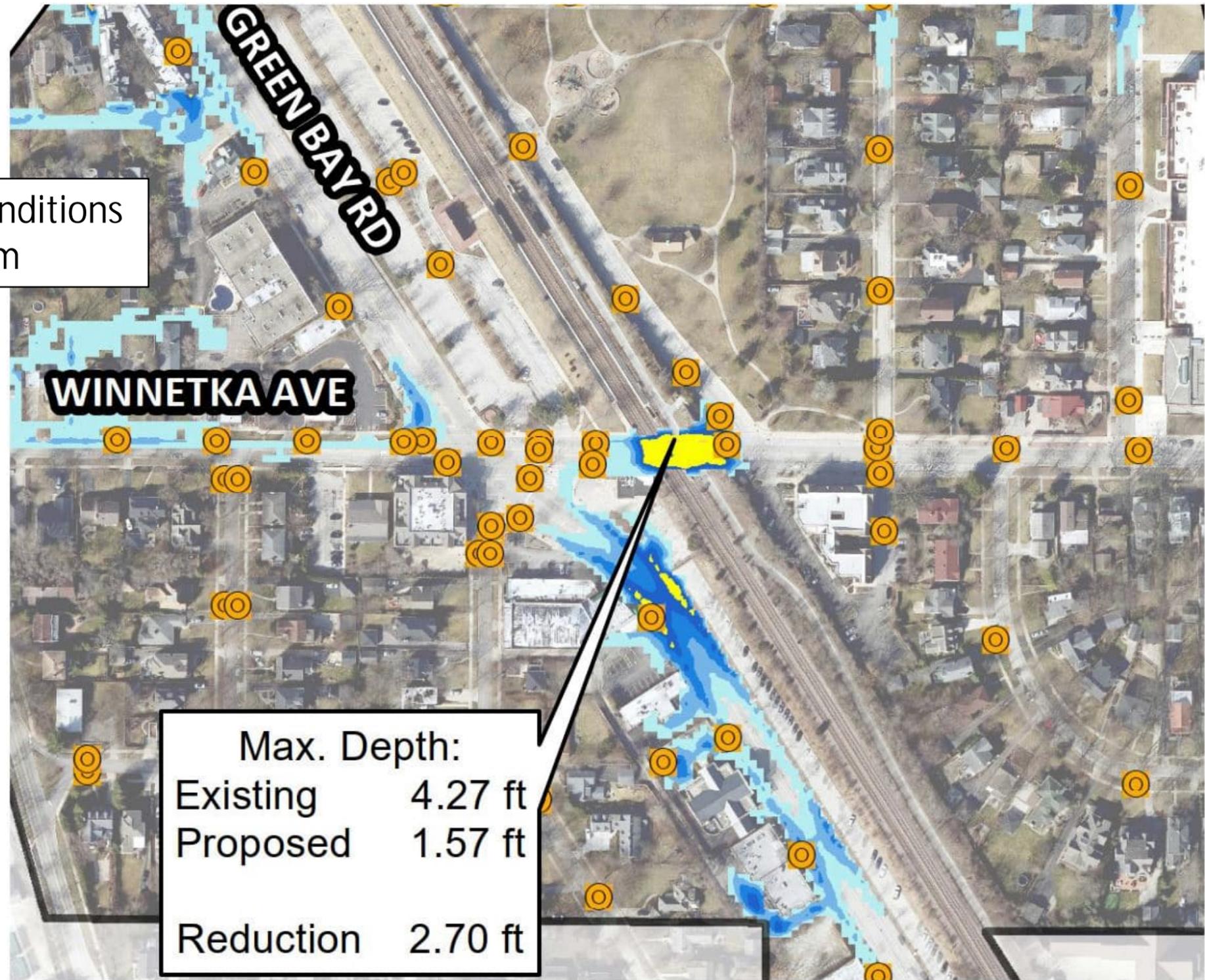
Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass

Proposed Conditions
10-Year Storm



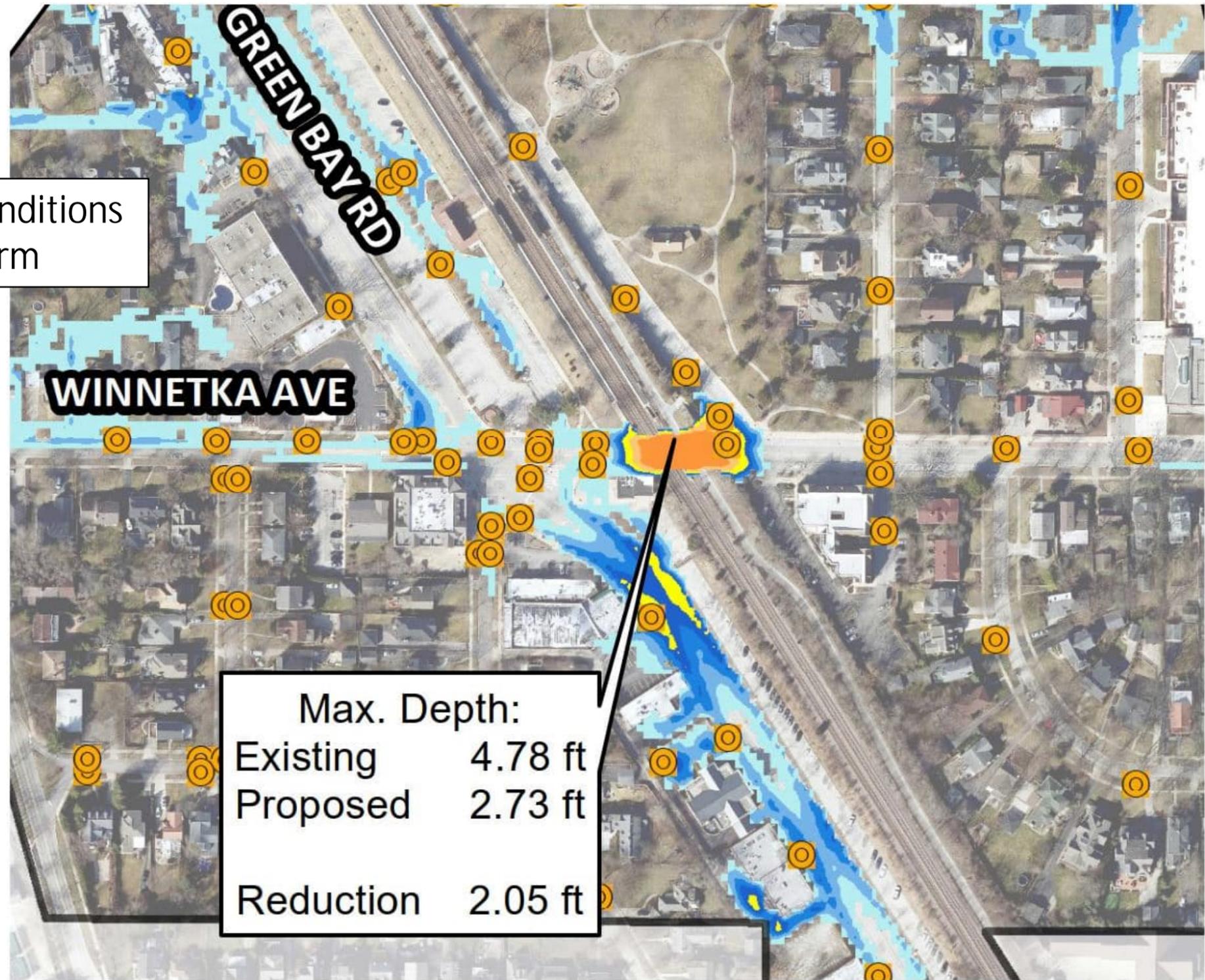
Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass

Proposed Conditions
25-Year Storm

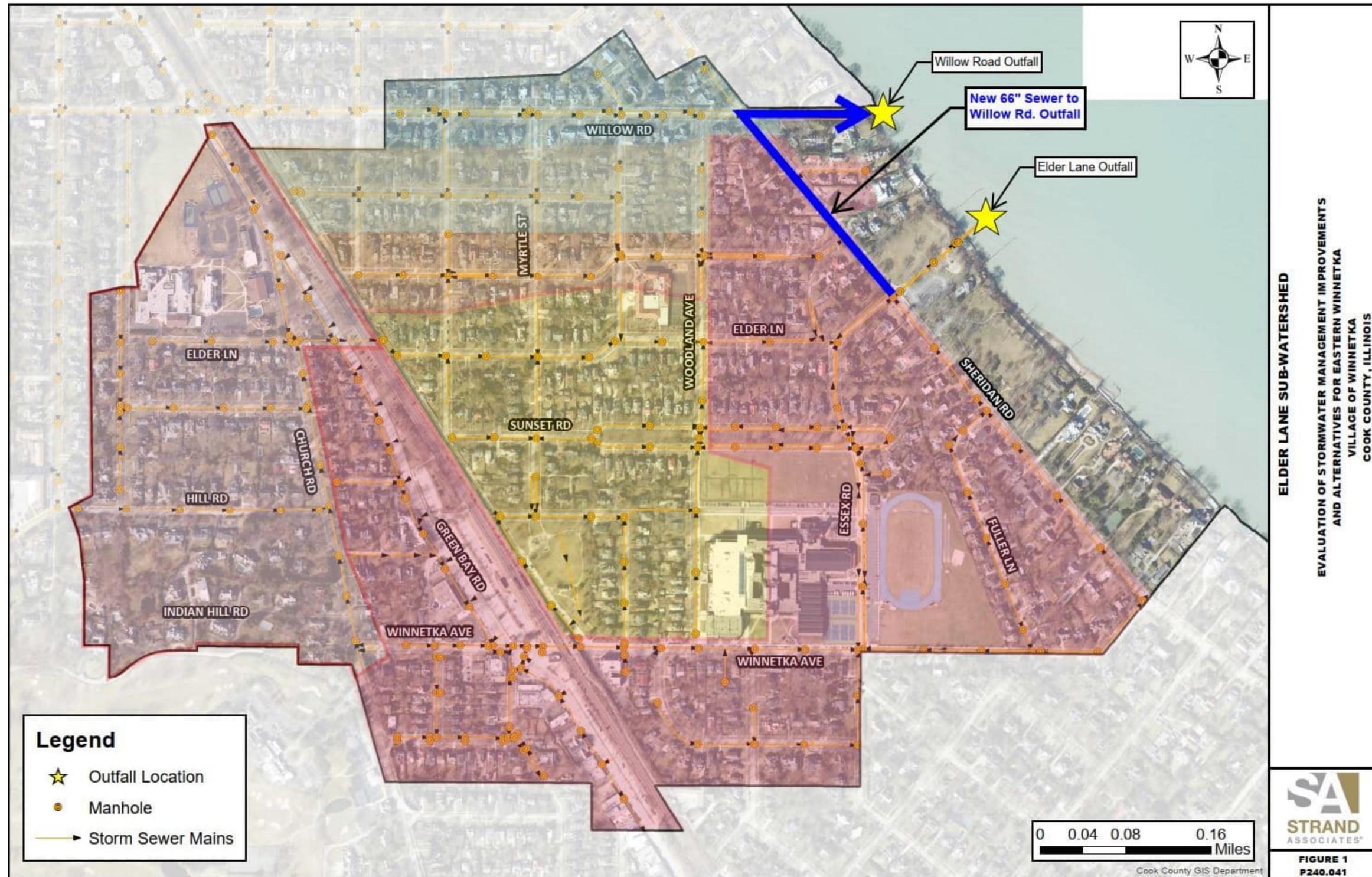


Elder Lane Sub-Area Alternatives Evaluation – Winnetka Avenue Underpass

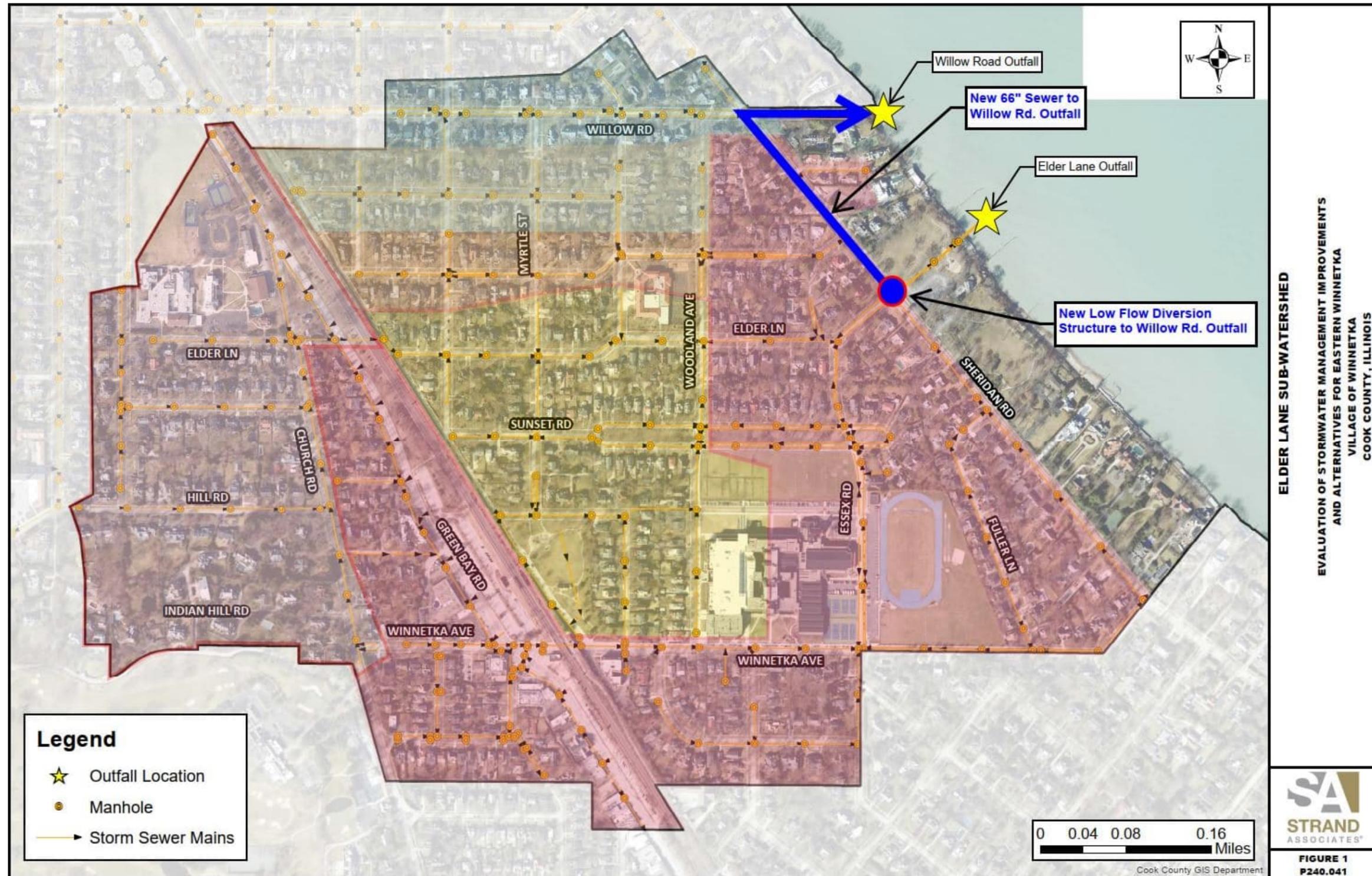
Proposed Conditions
100-Year Storm



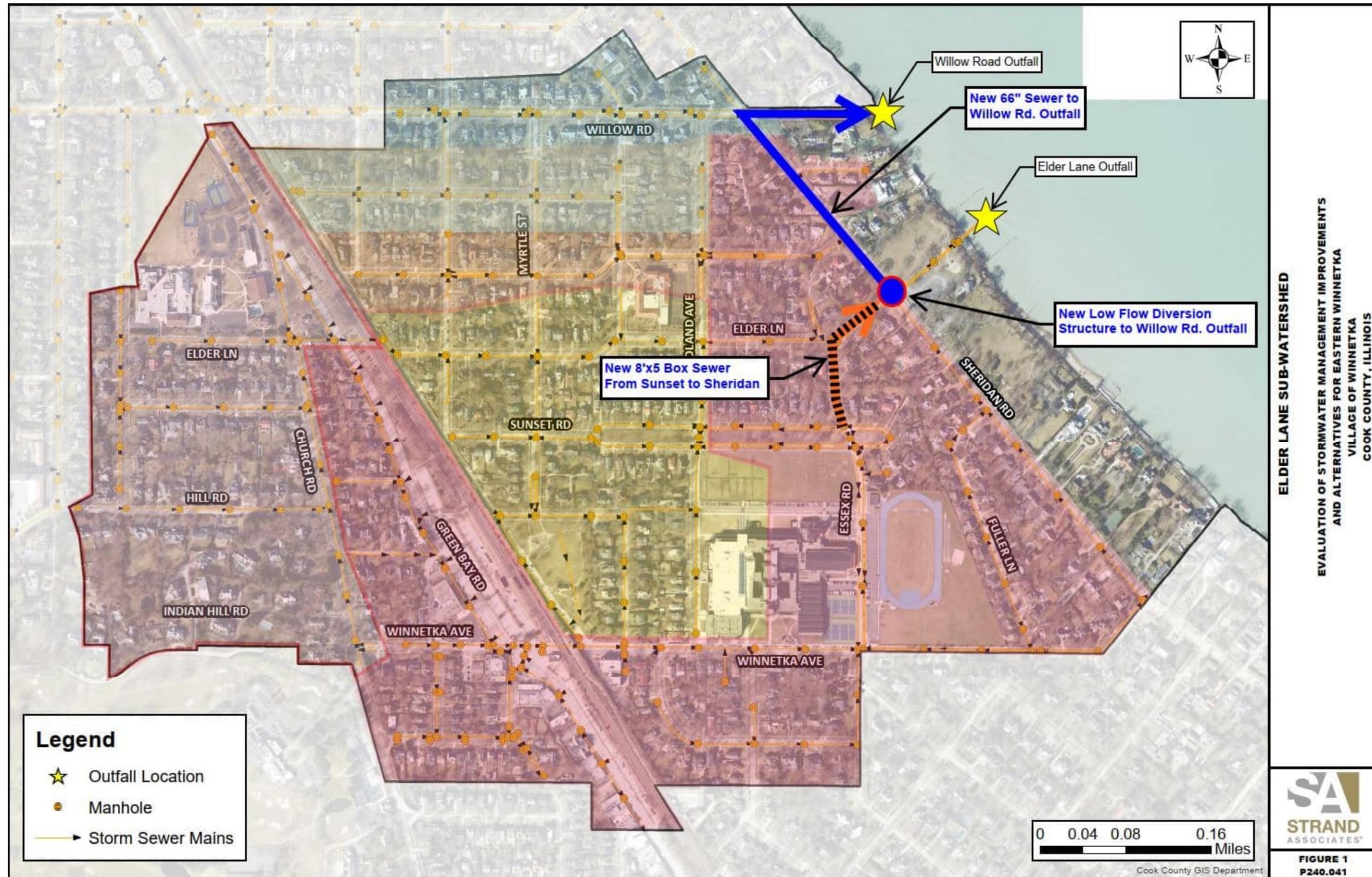
Elder Lane Sub-Area Stormwater Improvements



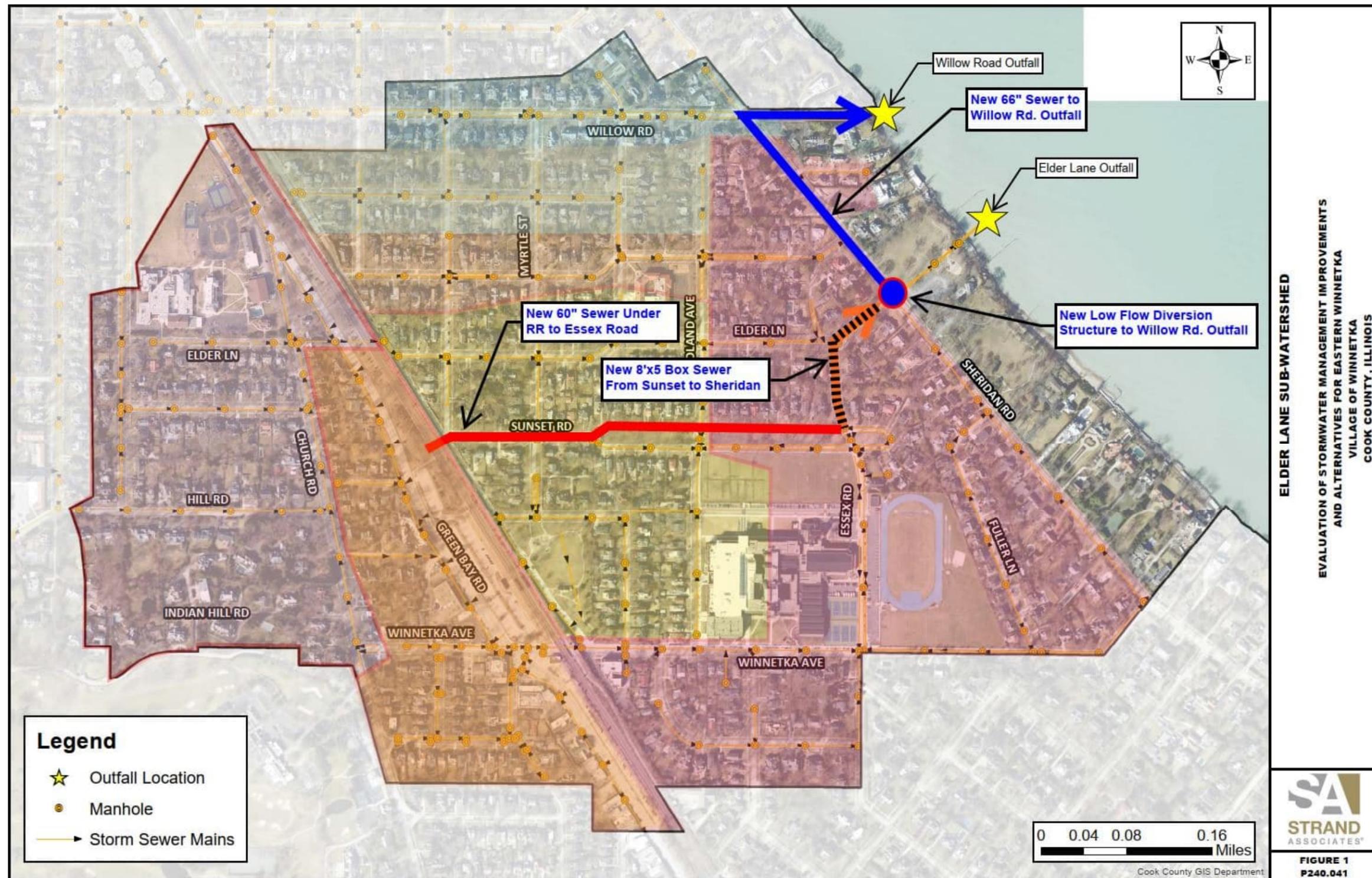
Elder Lane Sub-Area Stormwater Improvements



Elder Lane Sub-Area Stormwater Improvements



Elder Lane Sub-Area Stormwater Improvements



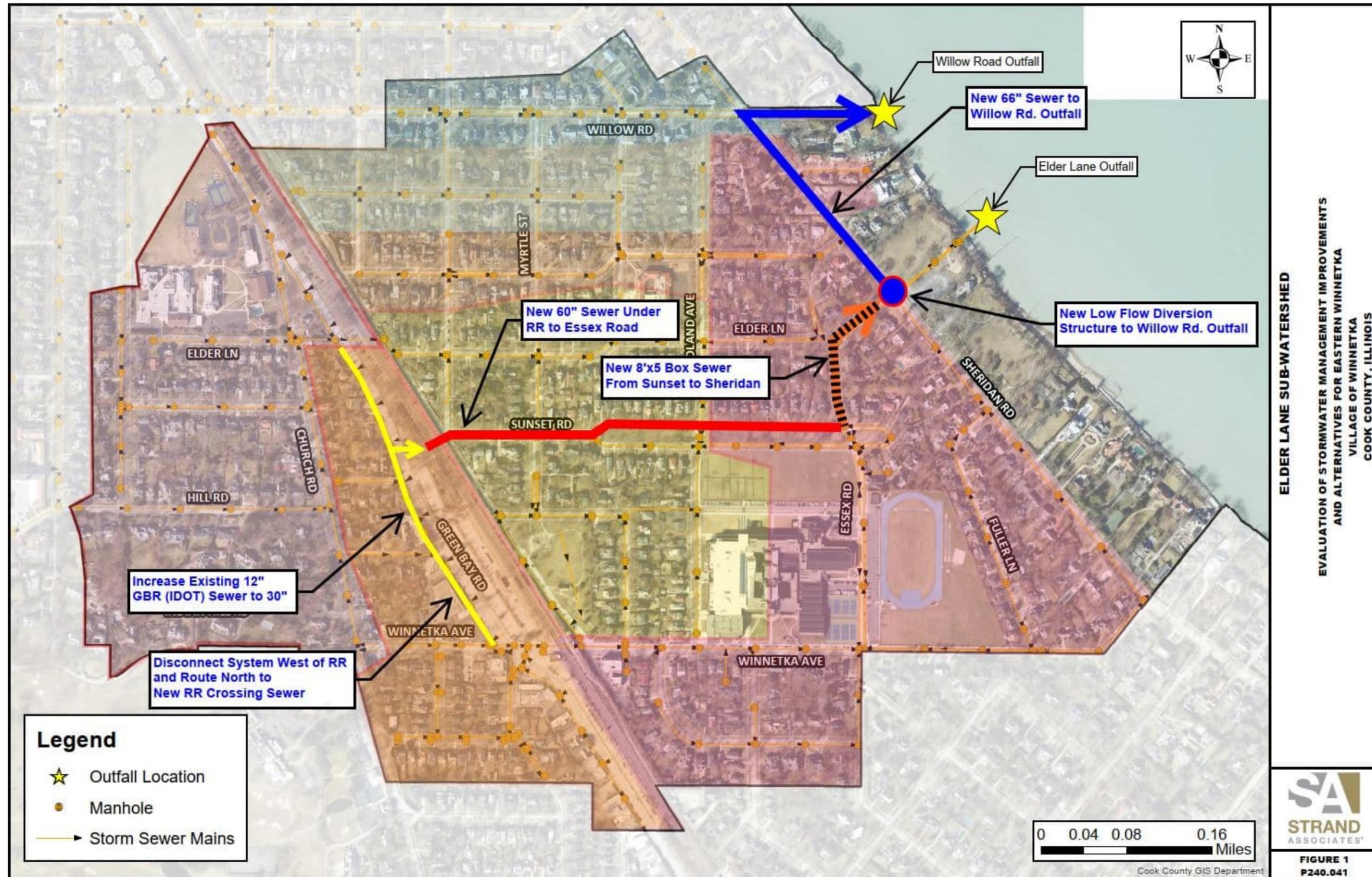
ELDER LANE SUB-WATERSHED
 EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
 AND ALTERNATIVES FOR EASTERN WINNETKA
 VILLAGE OF WINNETKA
 COOK COUNTY, ILLINOIS



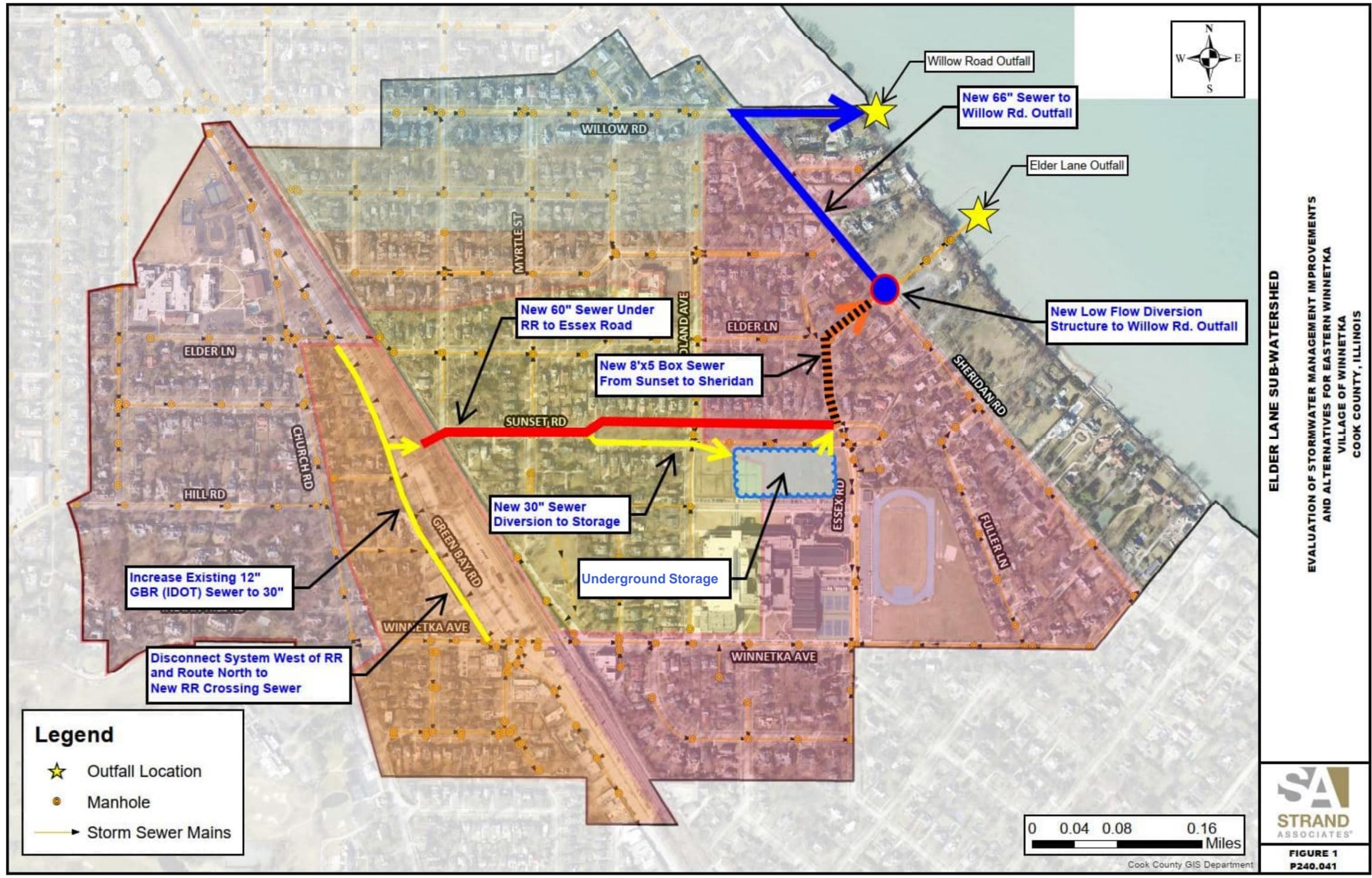
FIGURE 1
P240.041

Cook County GIS Department

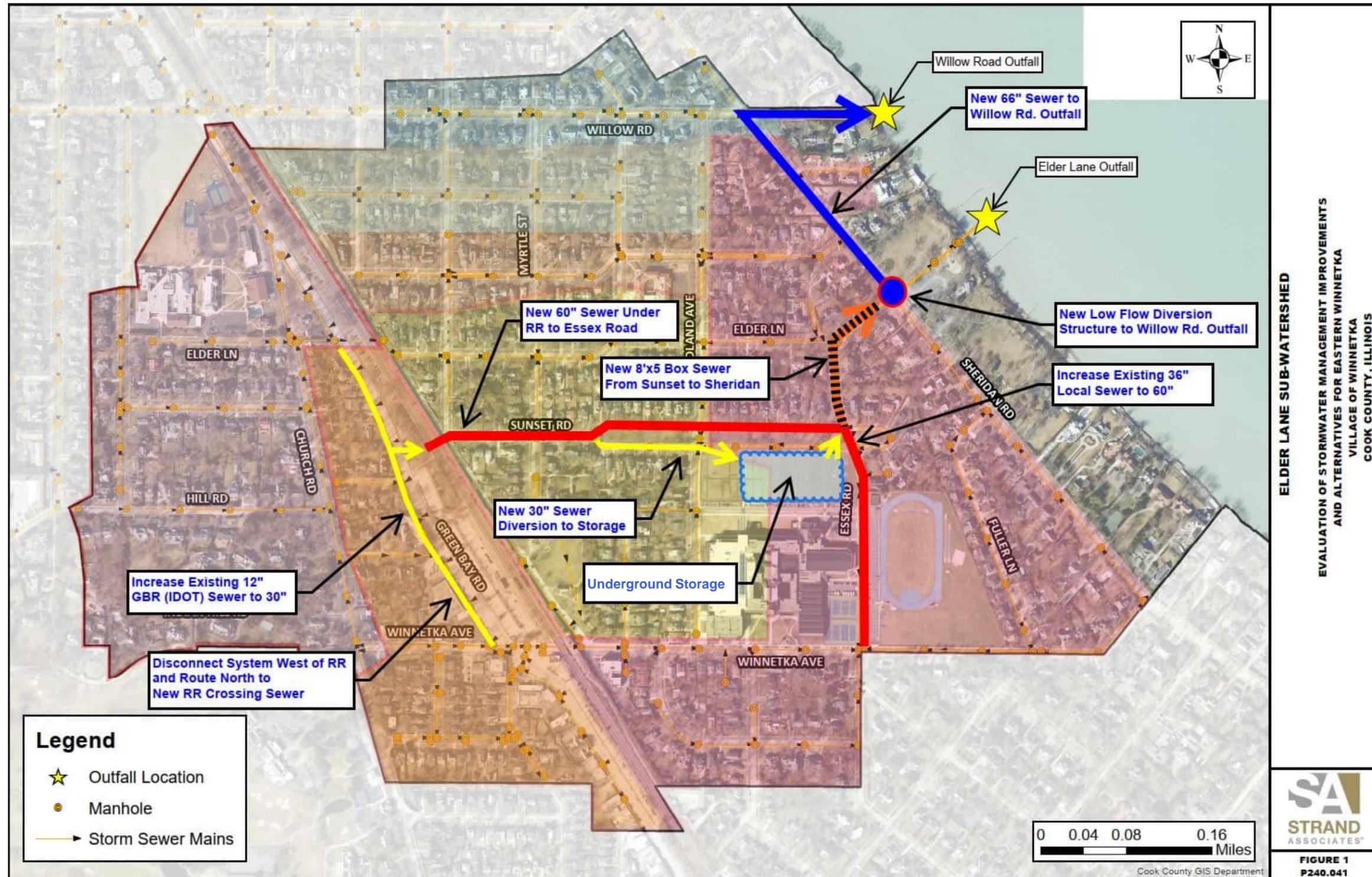
Elder Lane Sub-Area Stormwater Improvements



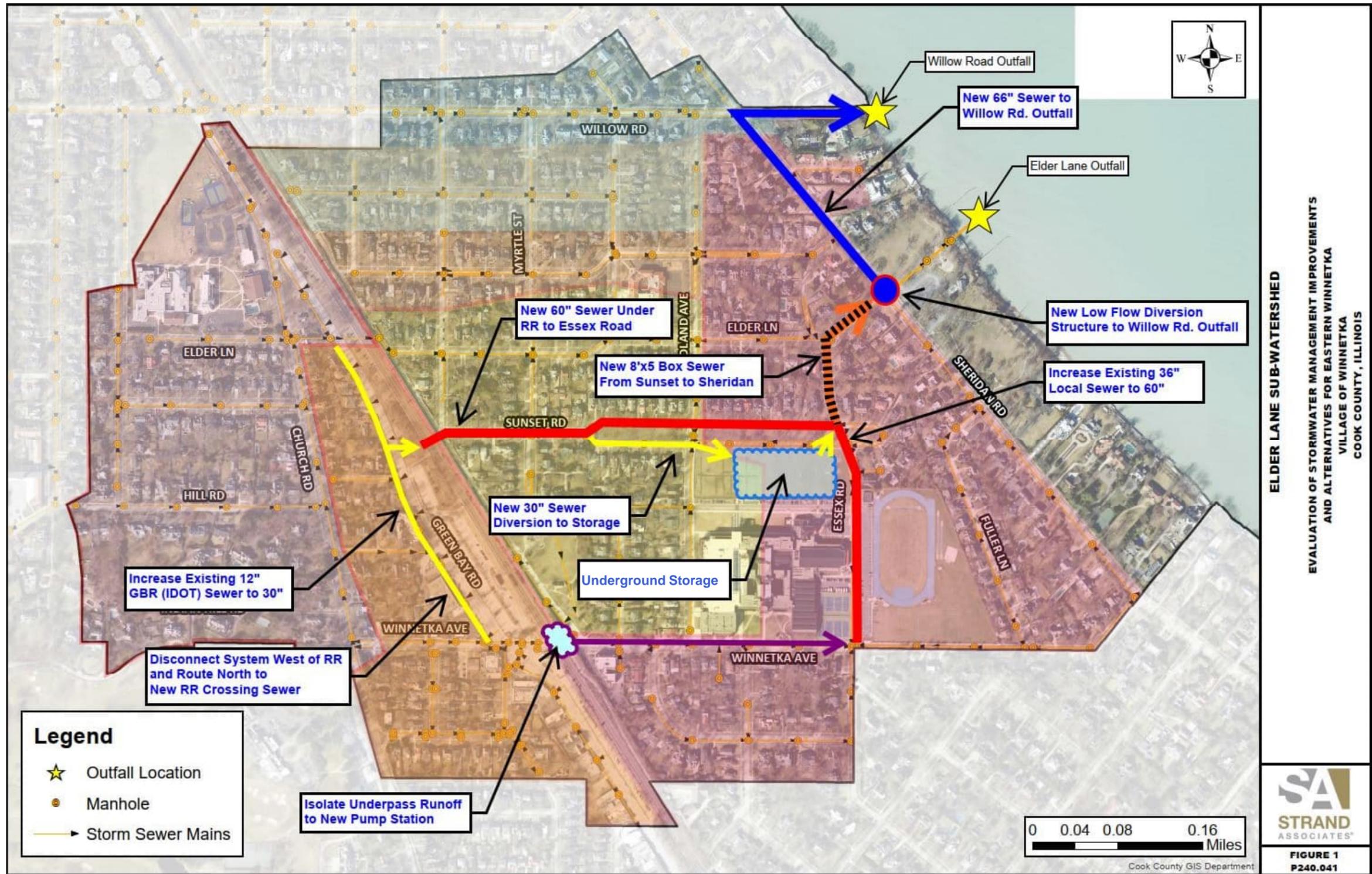
Elder Lane Sub-Area Stormwater Improvements



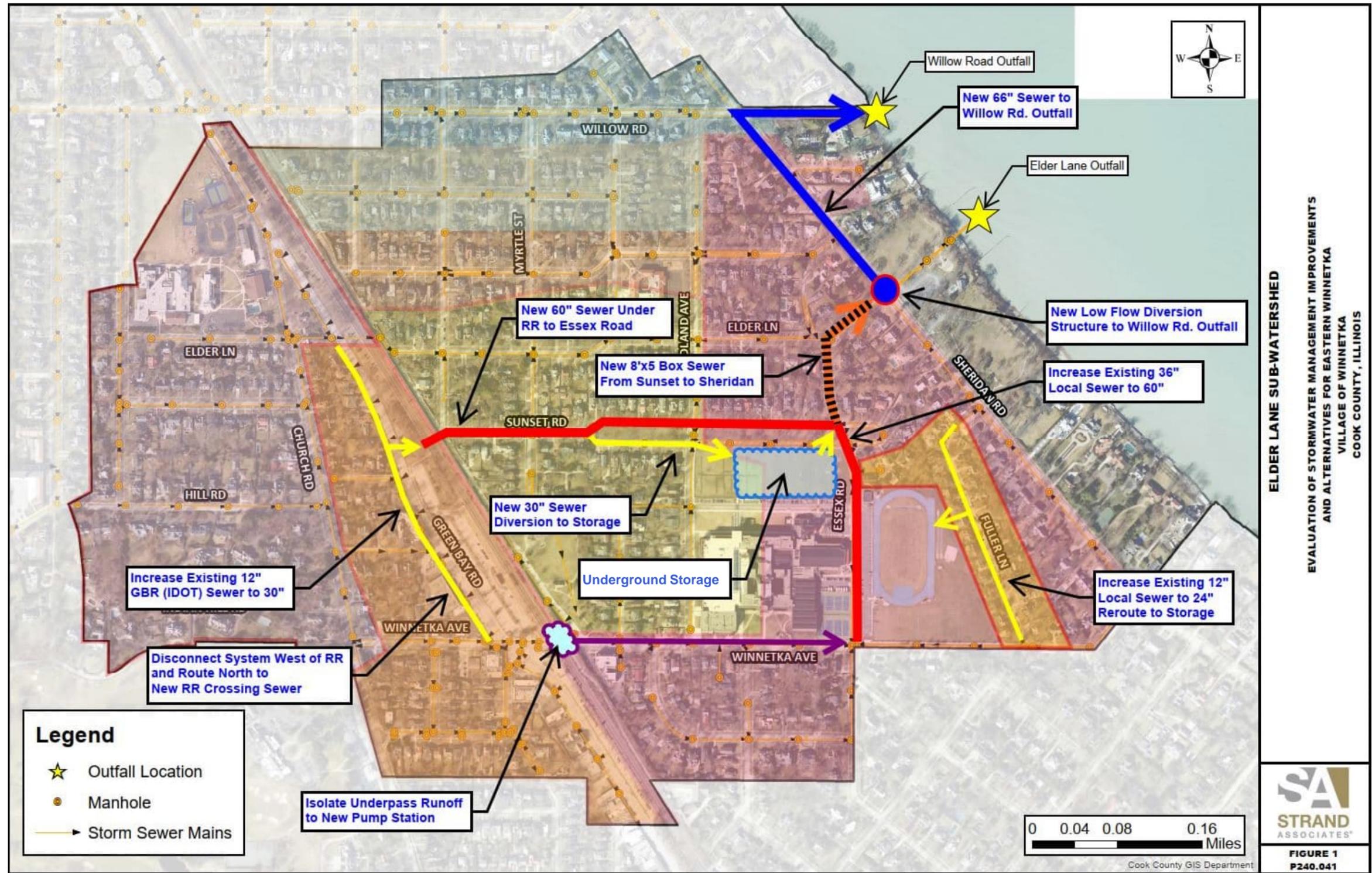
Elder Lane Sub-Area Stormwater Improvements



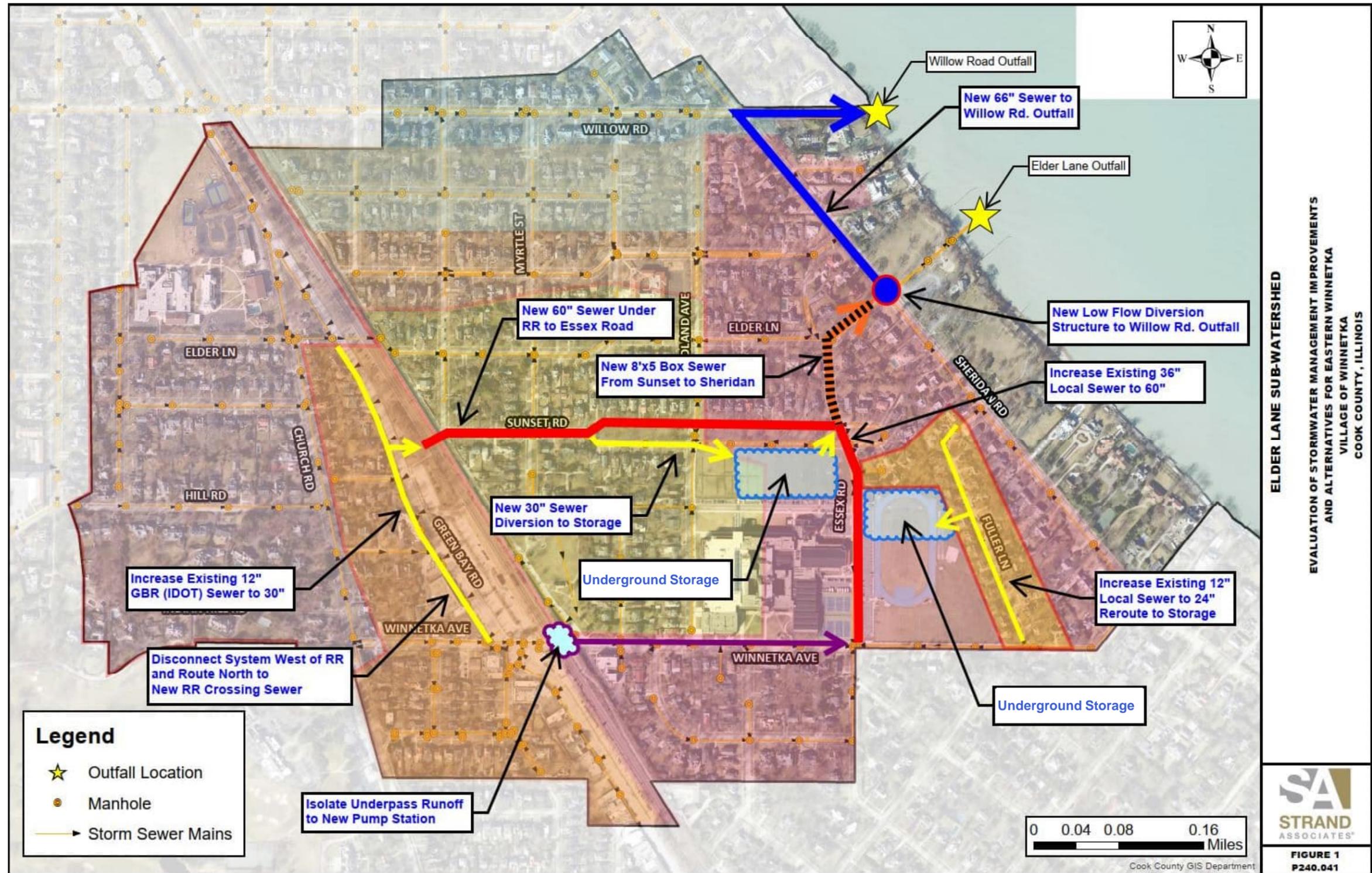
Elder Lane Sub-Area Stormwater Improvements



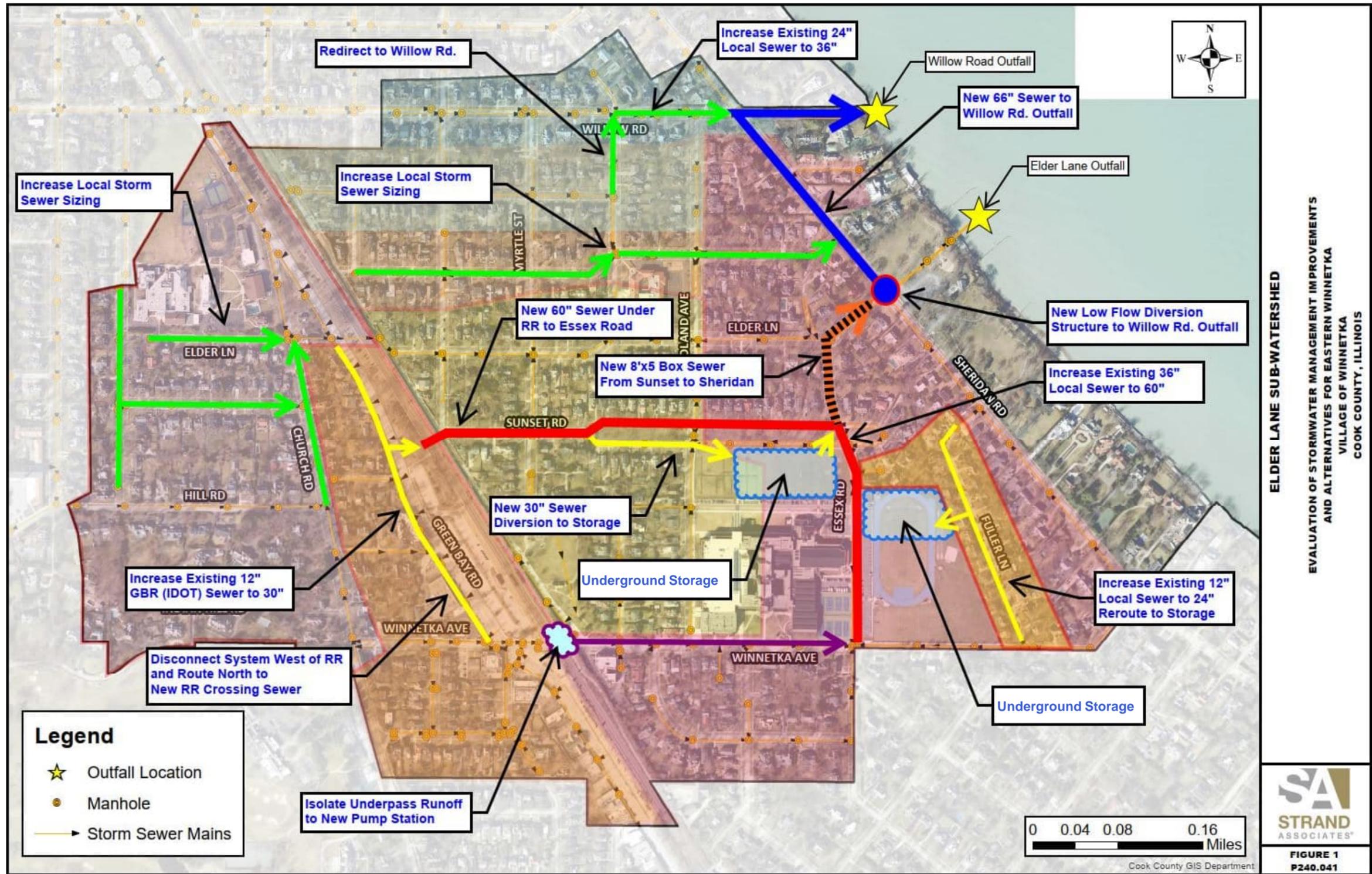
Elder Lane Sub-Area Stormwater Improvements



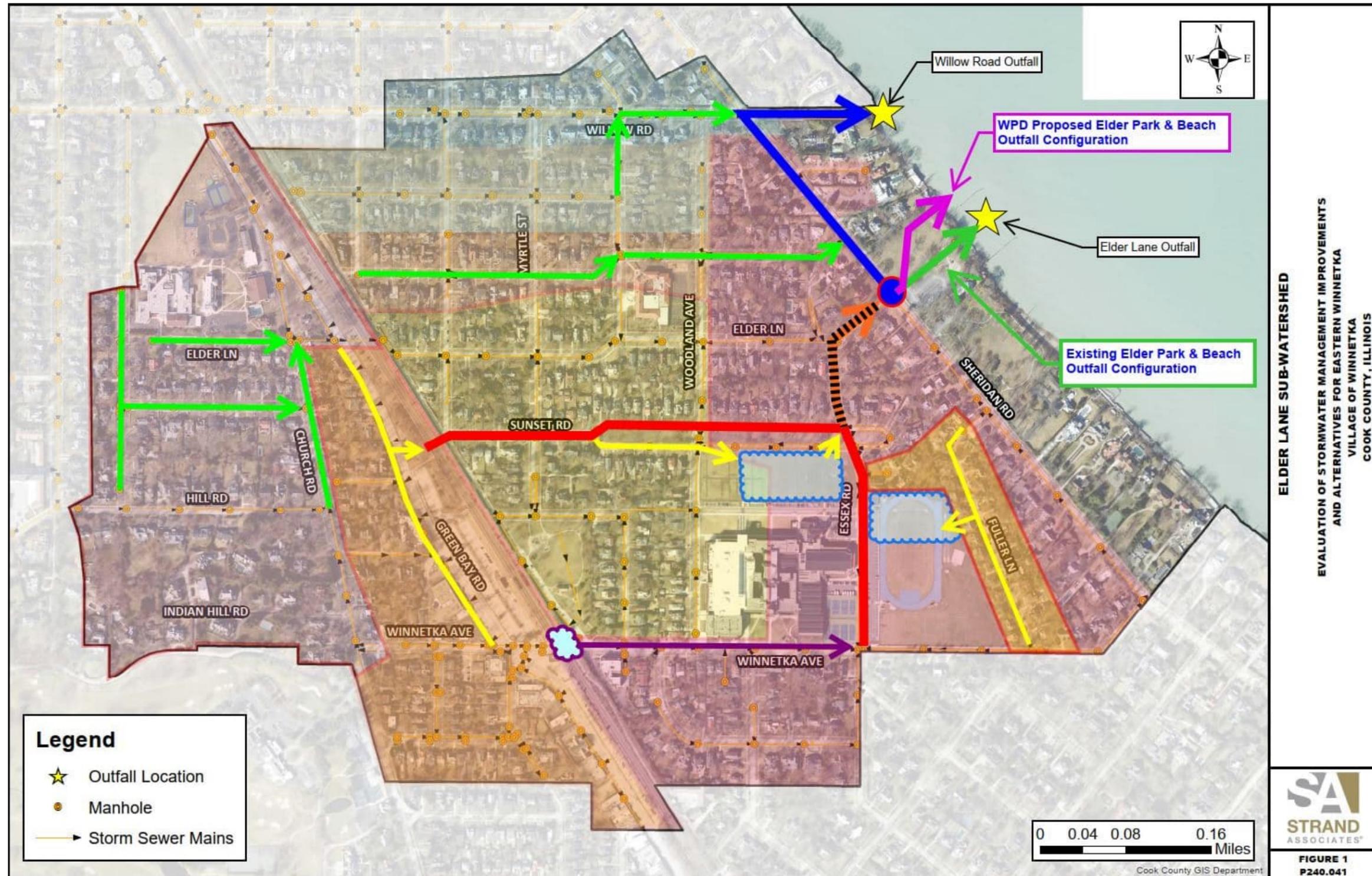
Elder Lane Sub-Area Stormwater Improvements



Elder Lane Sub-Area Stormwater Improvements



Elder Lane Sub-Area Stormwater Improvements



ELDER LANE SUB-WATERSHED
 EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
 AND ALTERNATIVES FOR EASTERN WINNETKA
 VILLAGE OF WINNETKA
 COOK COUNTY, ILLINOIS

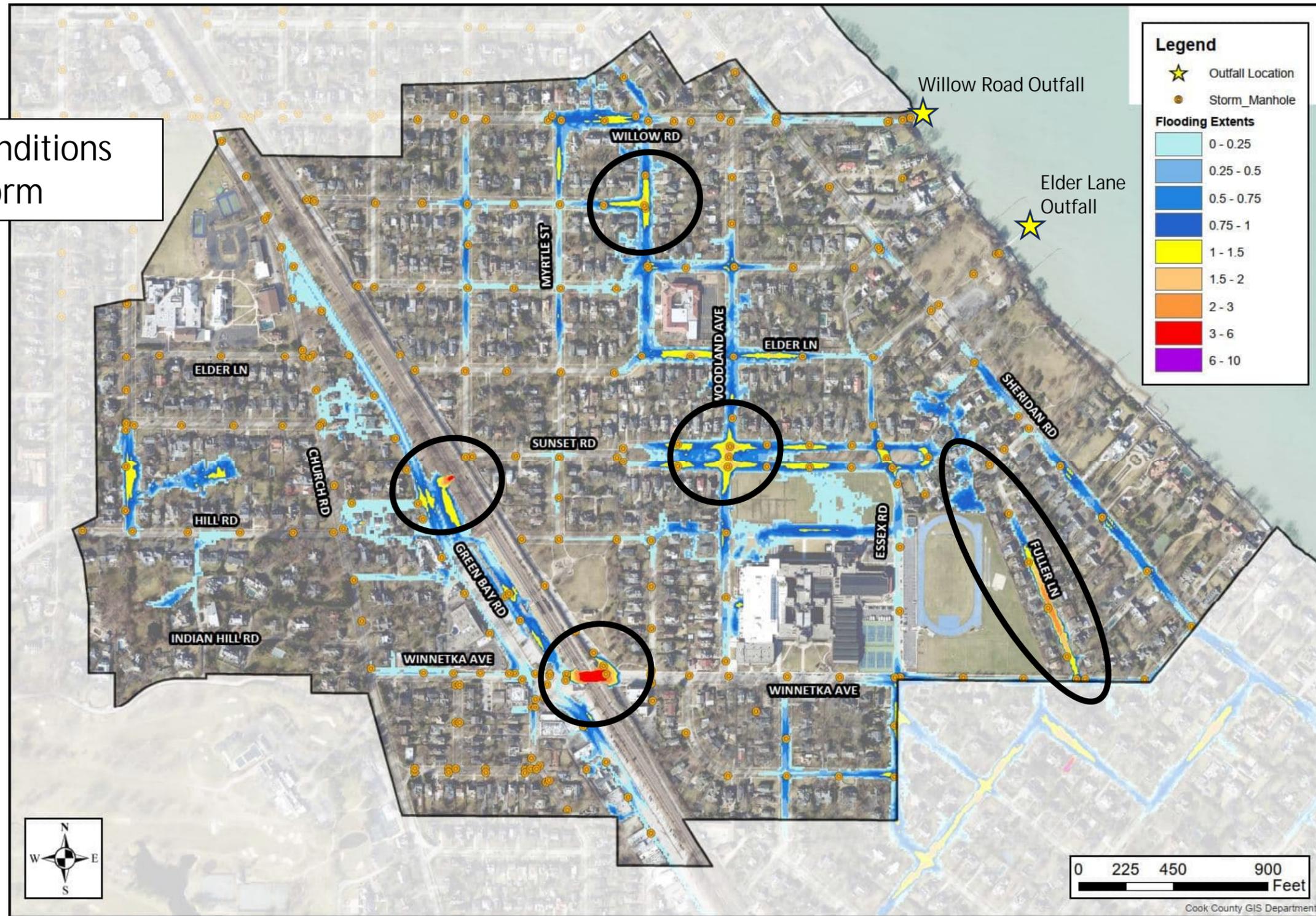


FIGURE 1
P240.041

Cook County GIS Department

Elder Lane Sub-Area - Flooding

Existing Conditions
10-Year Storm



ELDER LANE EXISTING CONDITIONS
FLOOD EXTENTS 10-YEAR, 2-HOUR STORM
 EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
 AND ALTERNATIVES FOR EASTERN WINNETKA
 VILLAGE OF WINNETKA
 COOK COUNTY, ILLINOIS

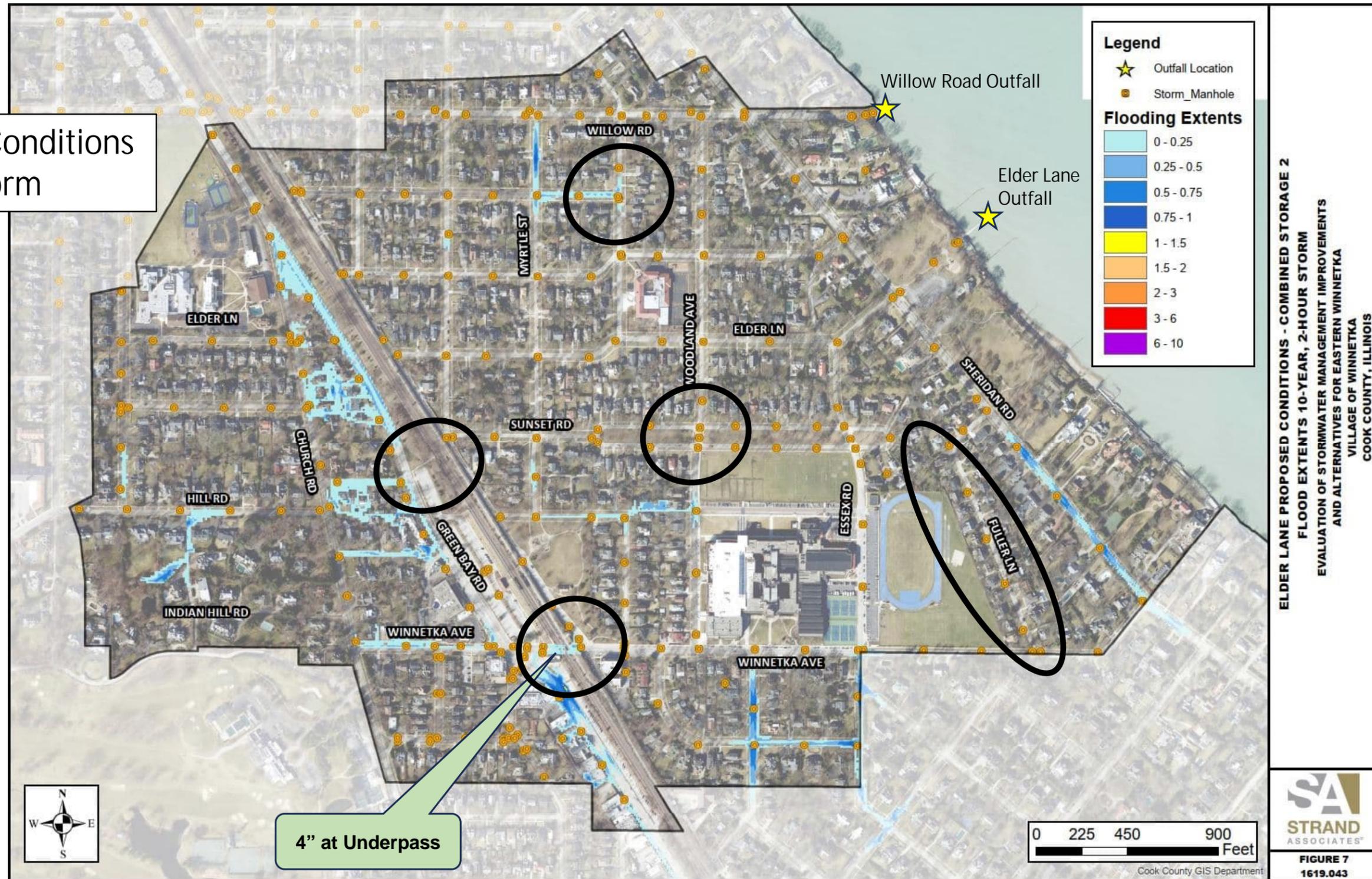
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FIGURE 3
1619.043



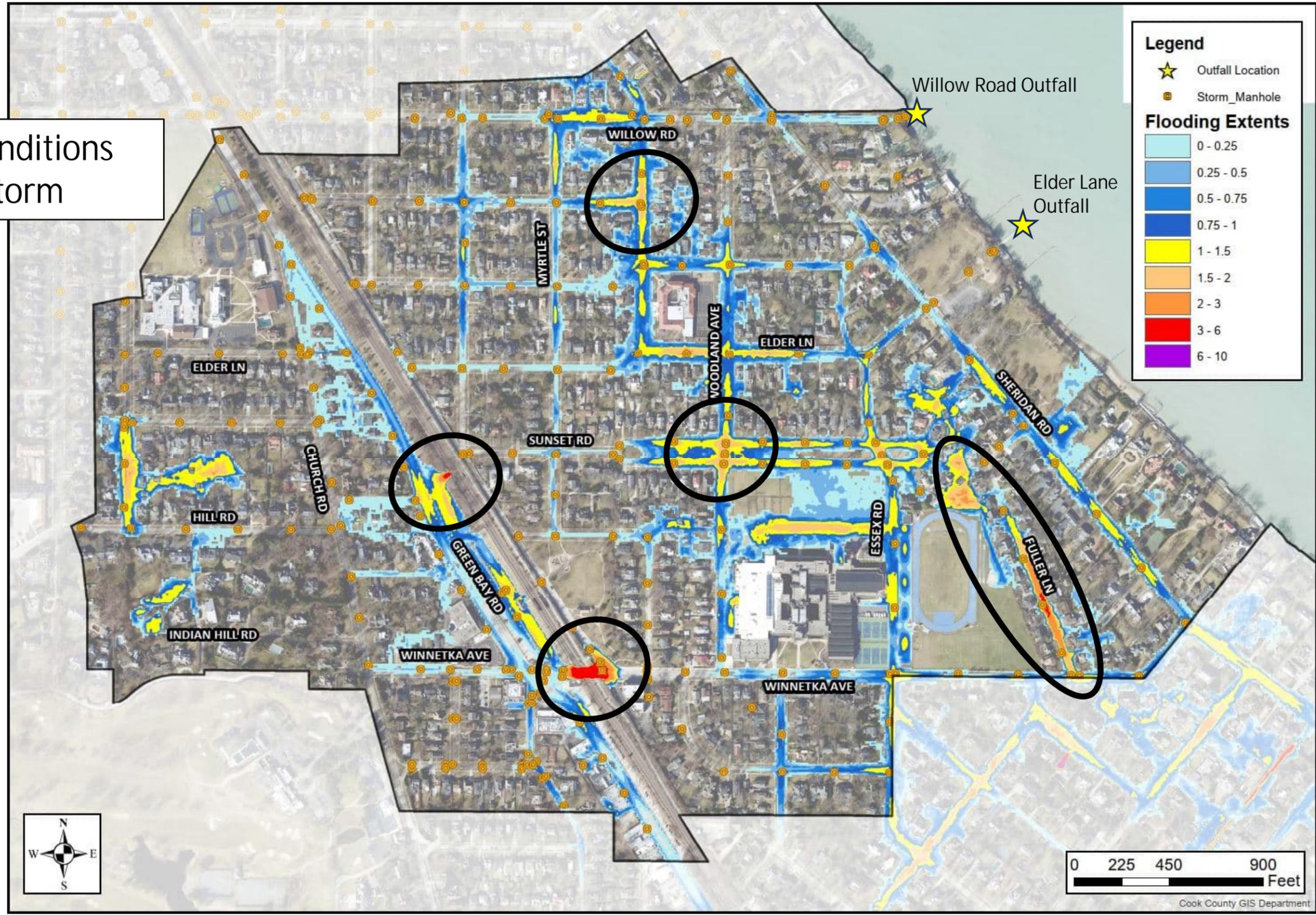
Elder Lane Sub-Area Stormwater Improvements - Flood Mitigation

Proposed Conditions
10-Year Storm

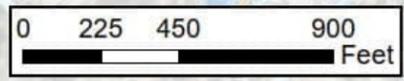


Elder Lane Sub-Area Stormwater Improvements - Flood Mitigation

Existing Conditions
100-Year Storm



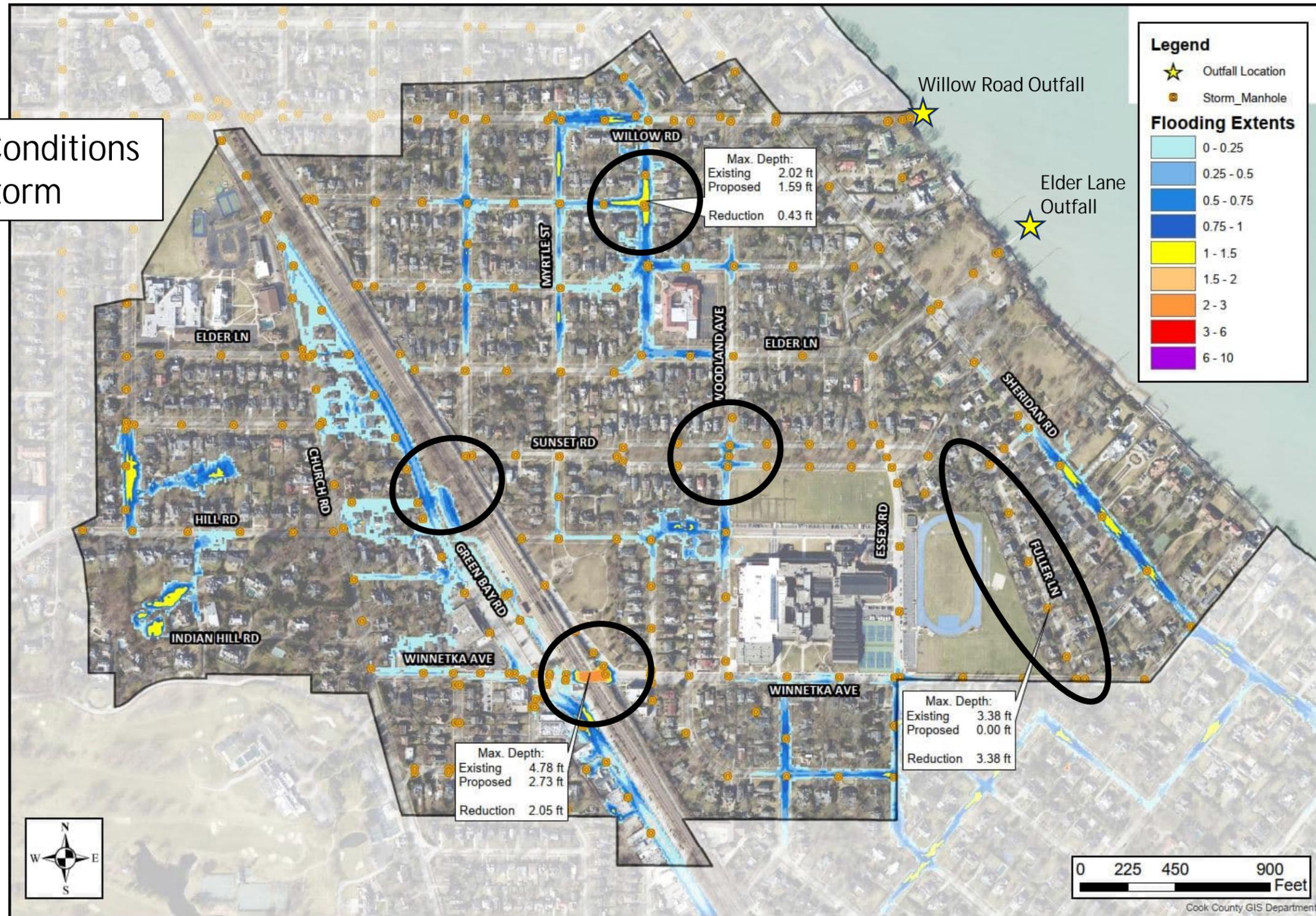
**ELDER LANE EXISTING CONDITIONS
FLOOD EXTENTS 100-YEAR, 2-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS**



Cook County GIS Department

Elder Lane Sub-Area Stormwater Improvements - Flood Mitigation

Proposed Conditions
100-Year Storm



Legend

- ★ Outfall Location
- Storm_Manhole

Flooding Extents

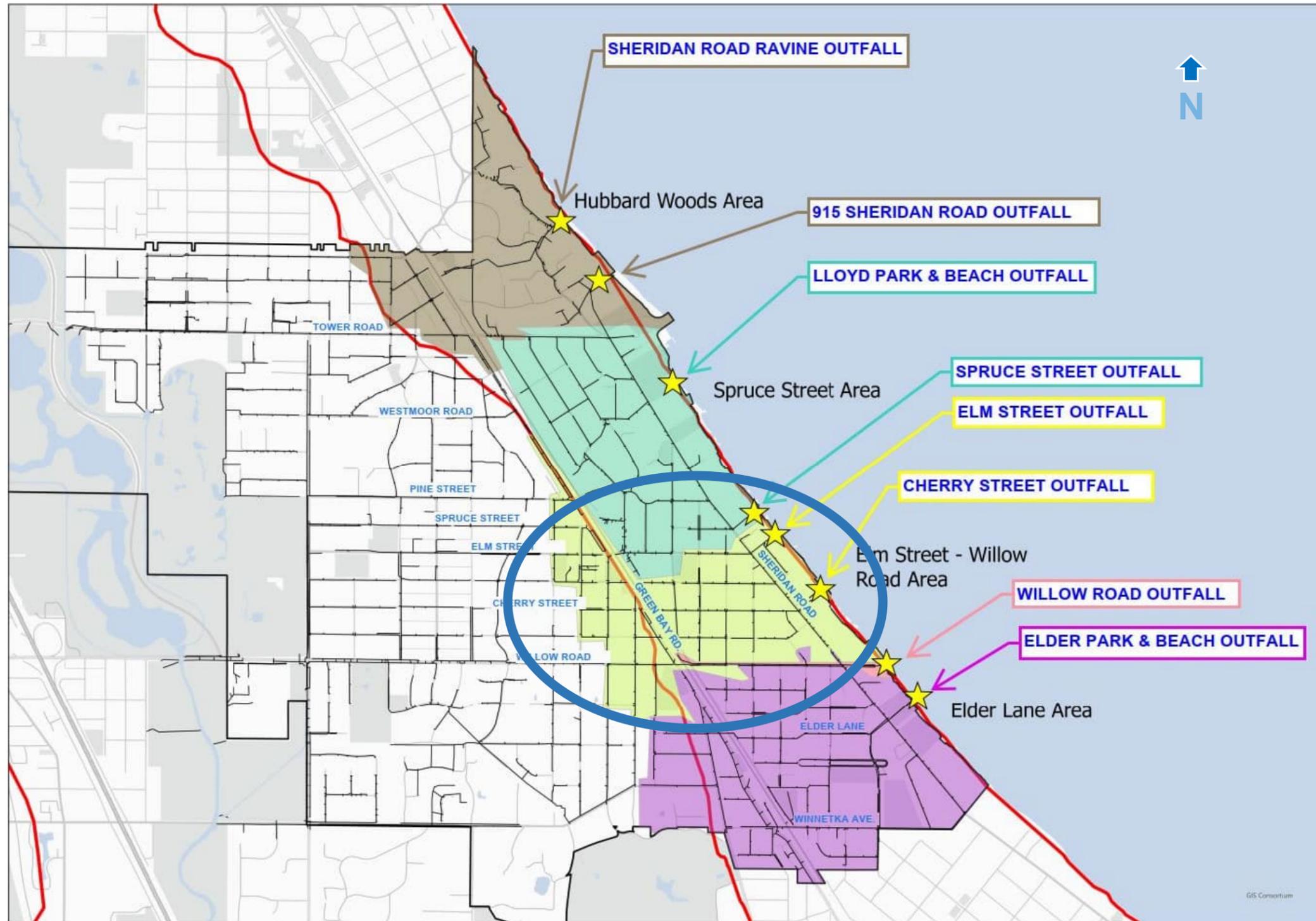
- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 6
- 6 - 10

ELDER LANE PROPOSED CONDITIONS - COMBINED STORAGE 2
 FLOOD EXTENTS 100-YEAR, 2-HOUR STORM
 EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
 AND ALTERNATIVES FOR EASTERN WINNETKA
 VILLAGE OF WINNETKA
 COOK COUNTY, ILLINOIS



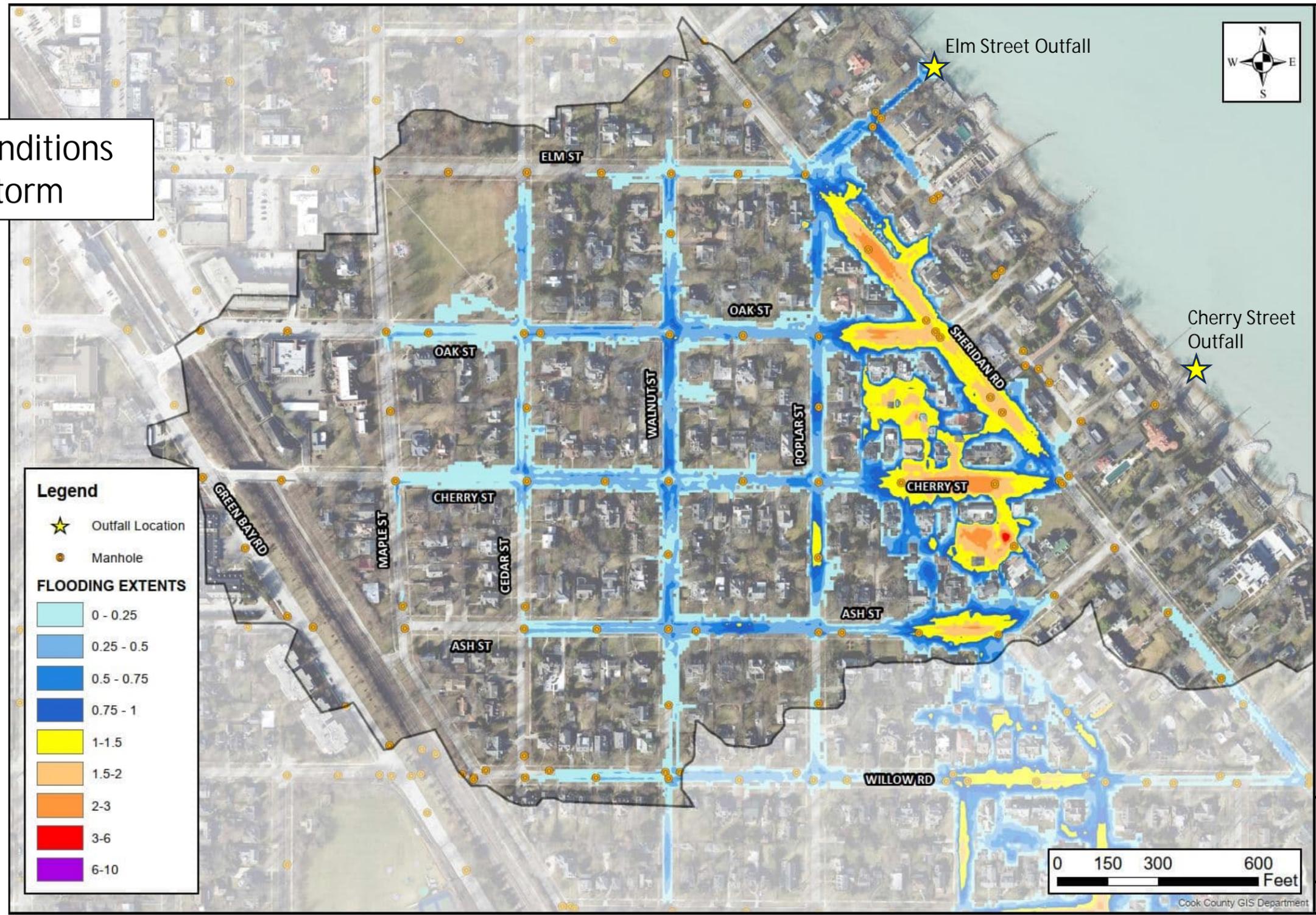
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 FIGURE 10
 1619.043

Stormwater Management Study – Elm Street-Willow Road Sub-Area



Elm Street-Willow Road Sub-Area Flooding

Existing Conditions
100-Year Storm



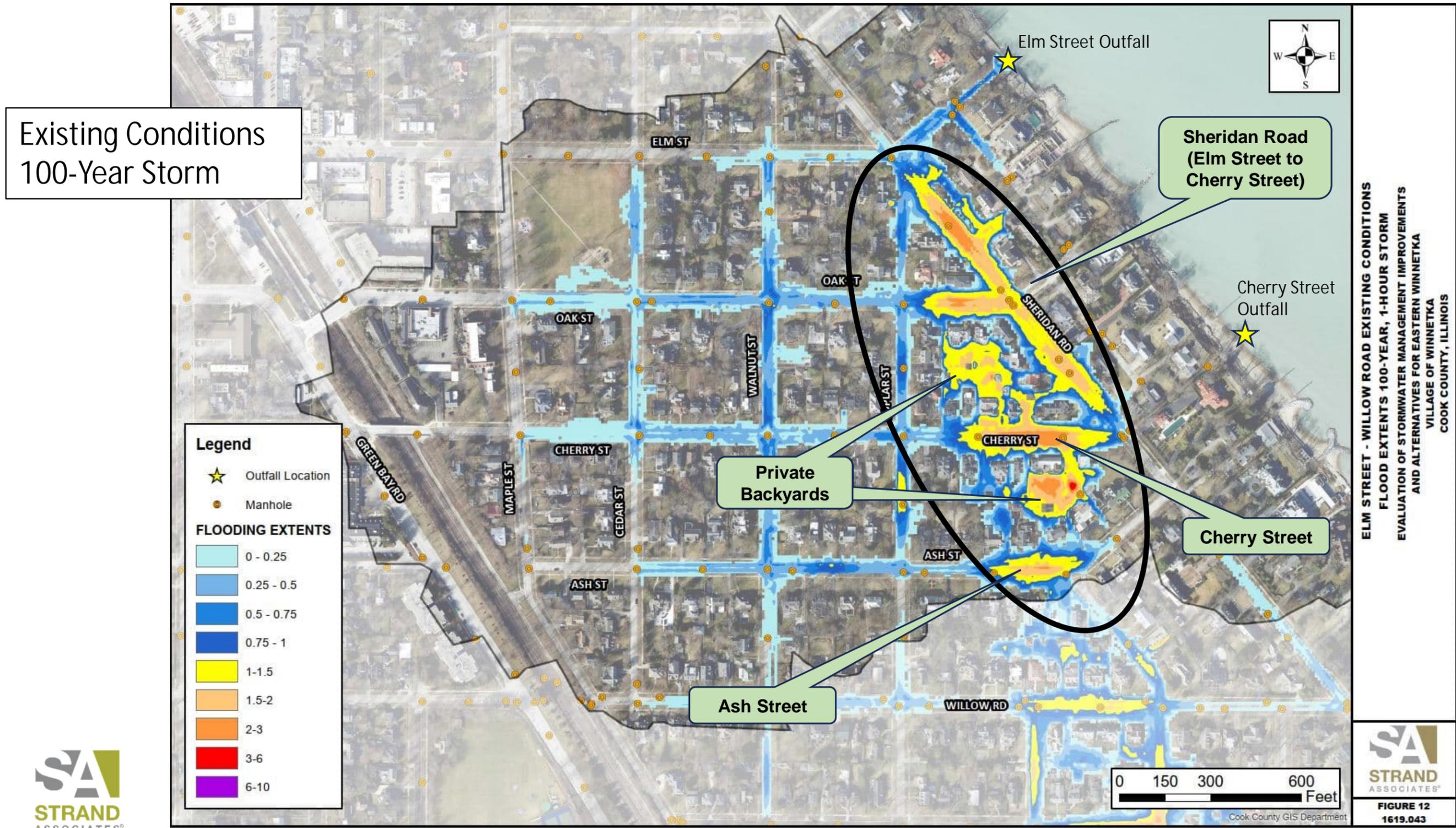
ELM STREET - WILLOW ROAD EXISTING CONDITIONS
FLOOD EXTENTS 100-YEAR, 1-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

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FIGURE 12
1619.043

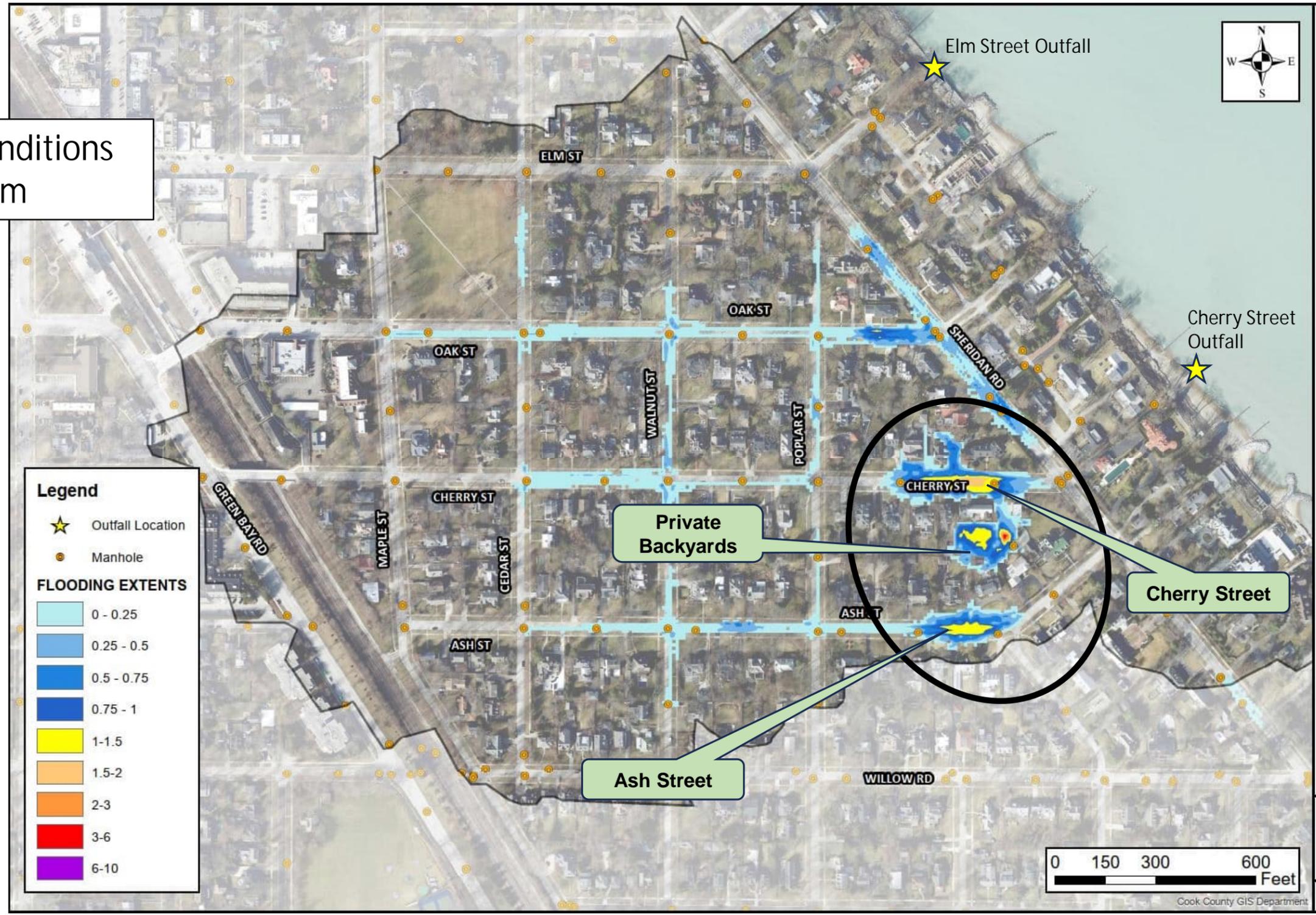


Elm Street-Willow Road Sub-Area Flooding



Elm Street-Willow Road Sub-Area Flooding

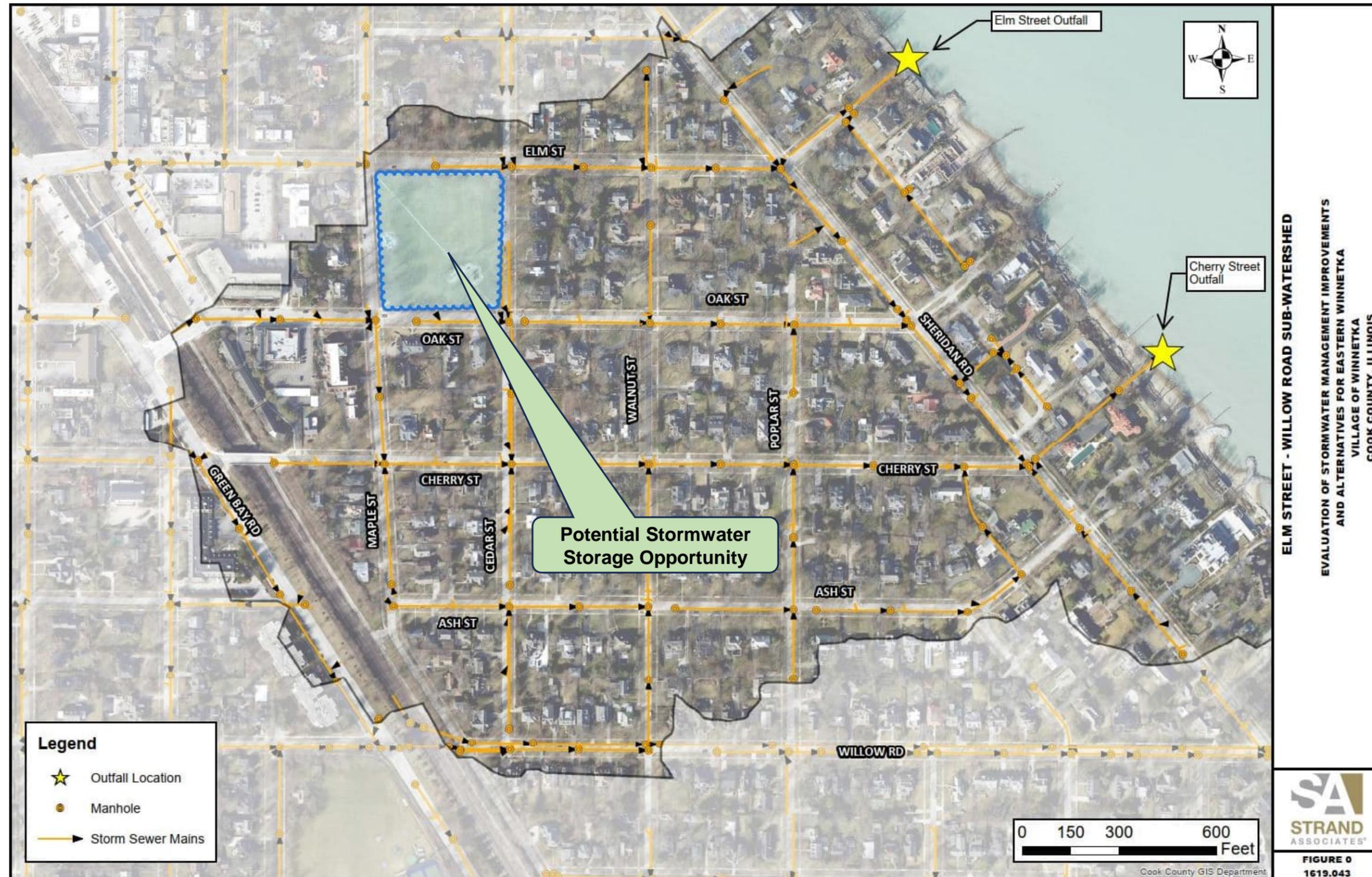
Existing Conditions
2-Year Storm



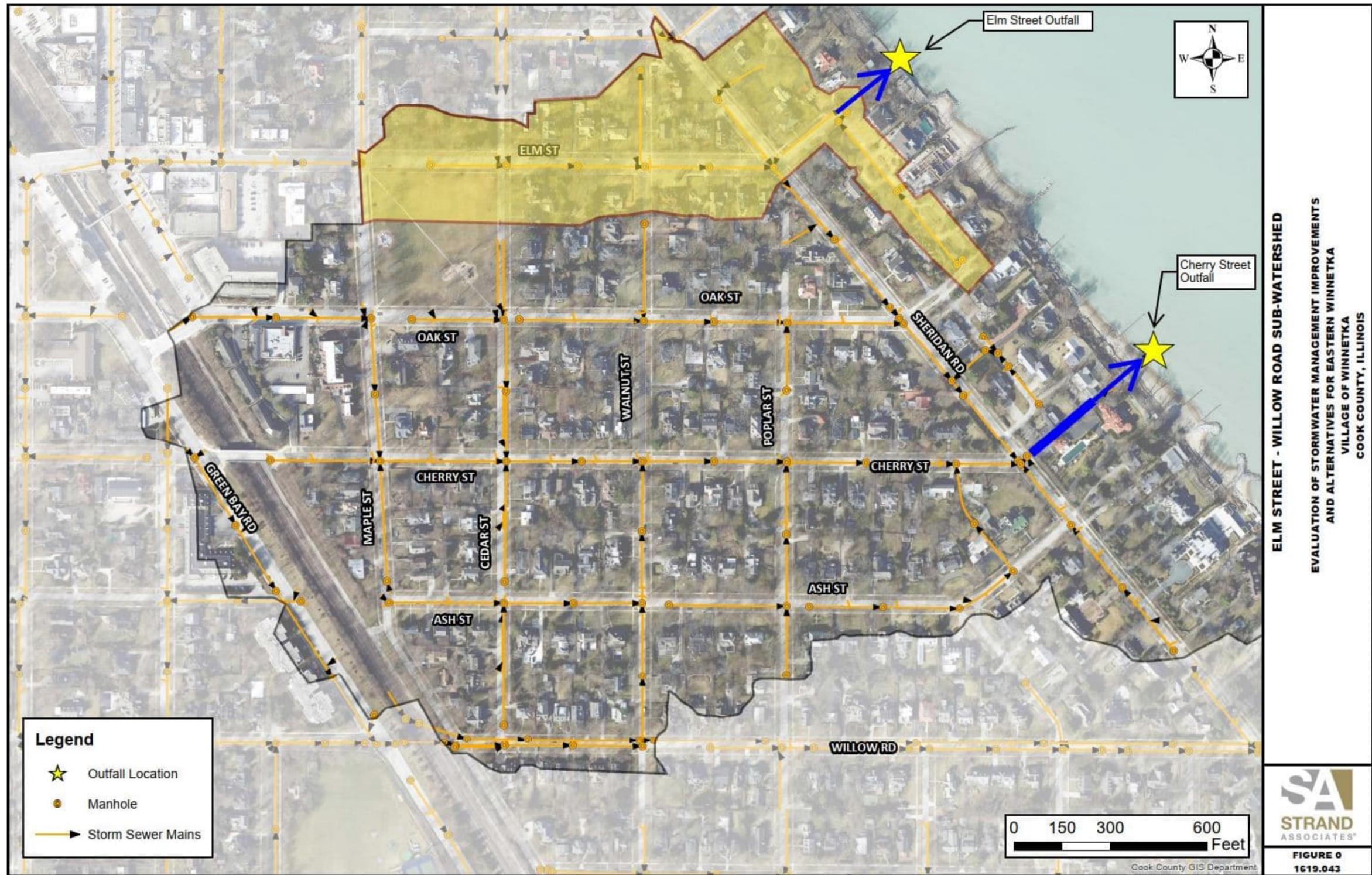
ELM STREET - WILLOW ROAD EXISTING CONDITIONS
FLOOD EXTENTS 2-YEAR, 1-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS



Elm Street-Willow Road Sub-Area Alternatives Evaluation - Storage



Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



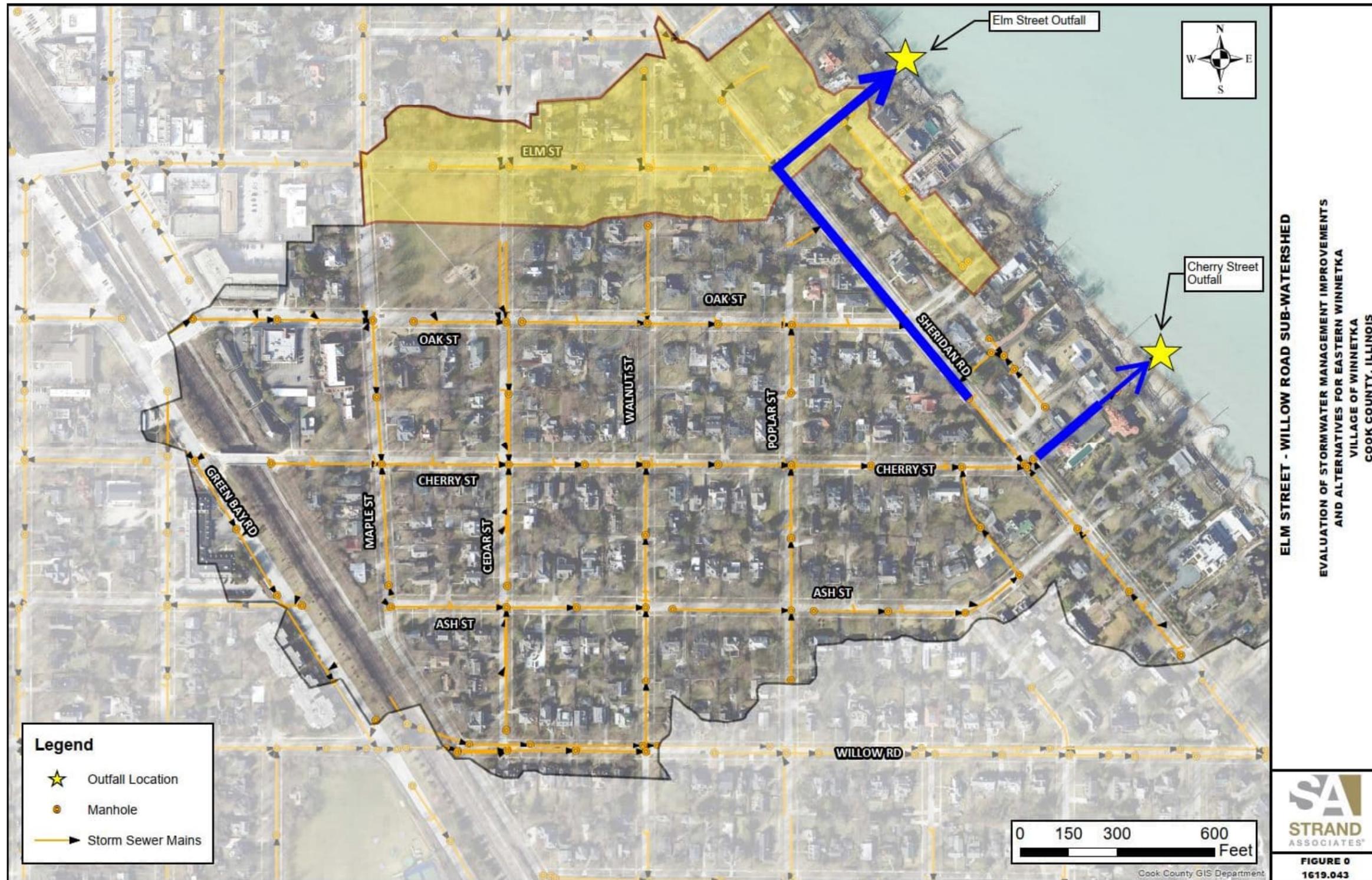
Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



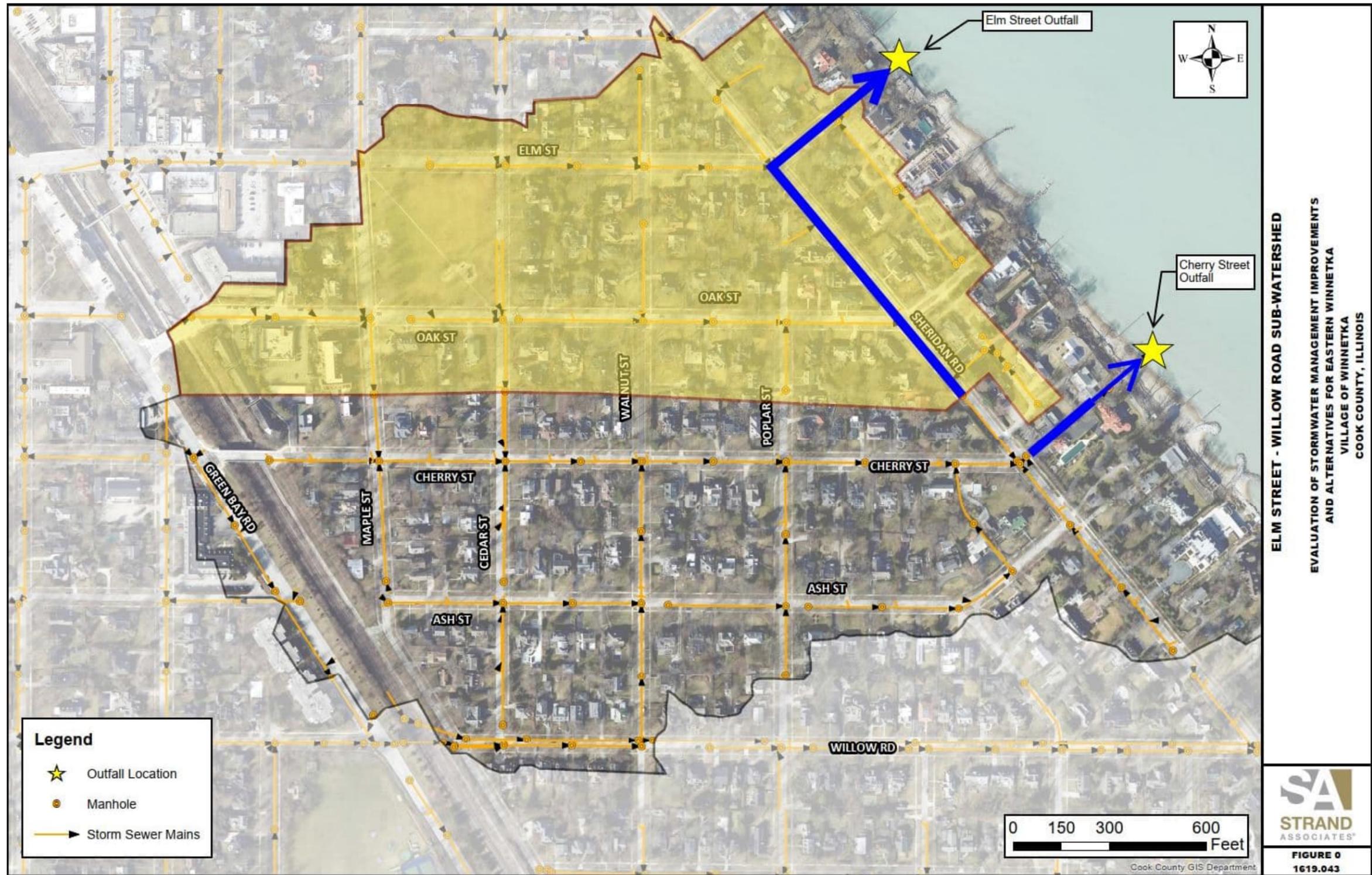
Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



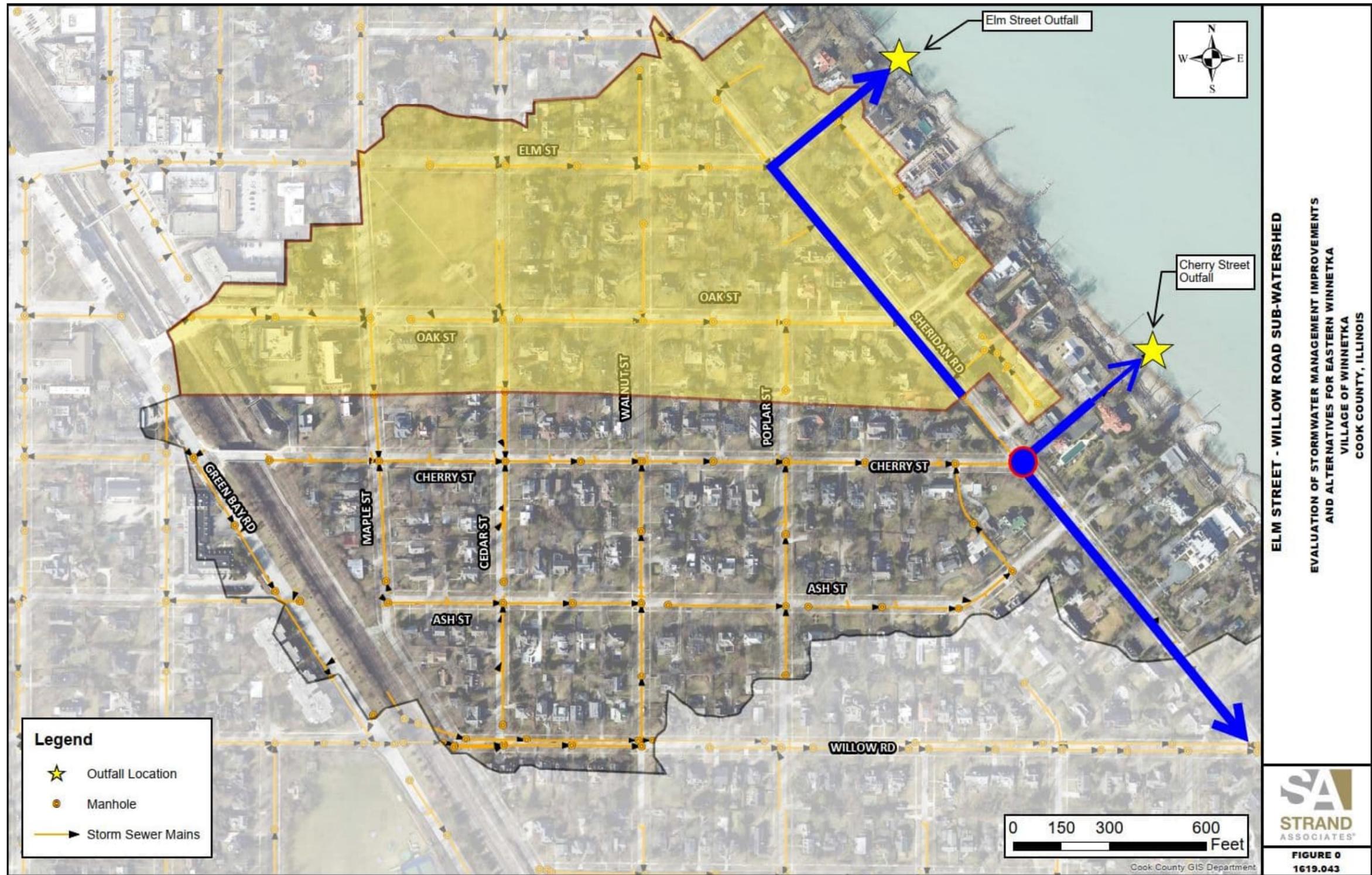
Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



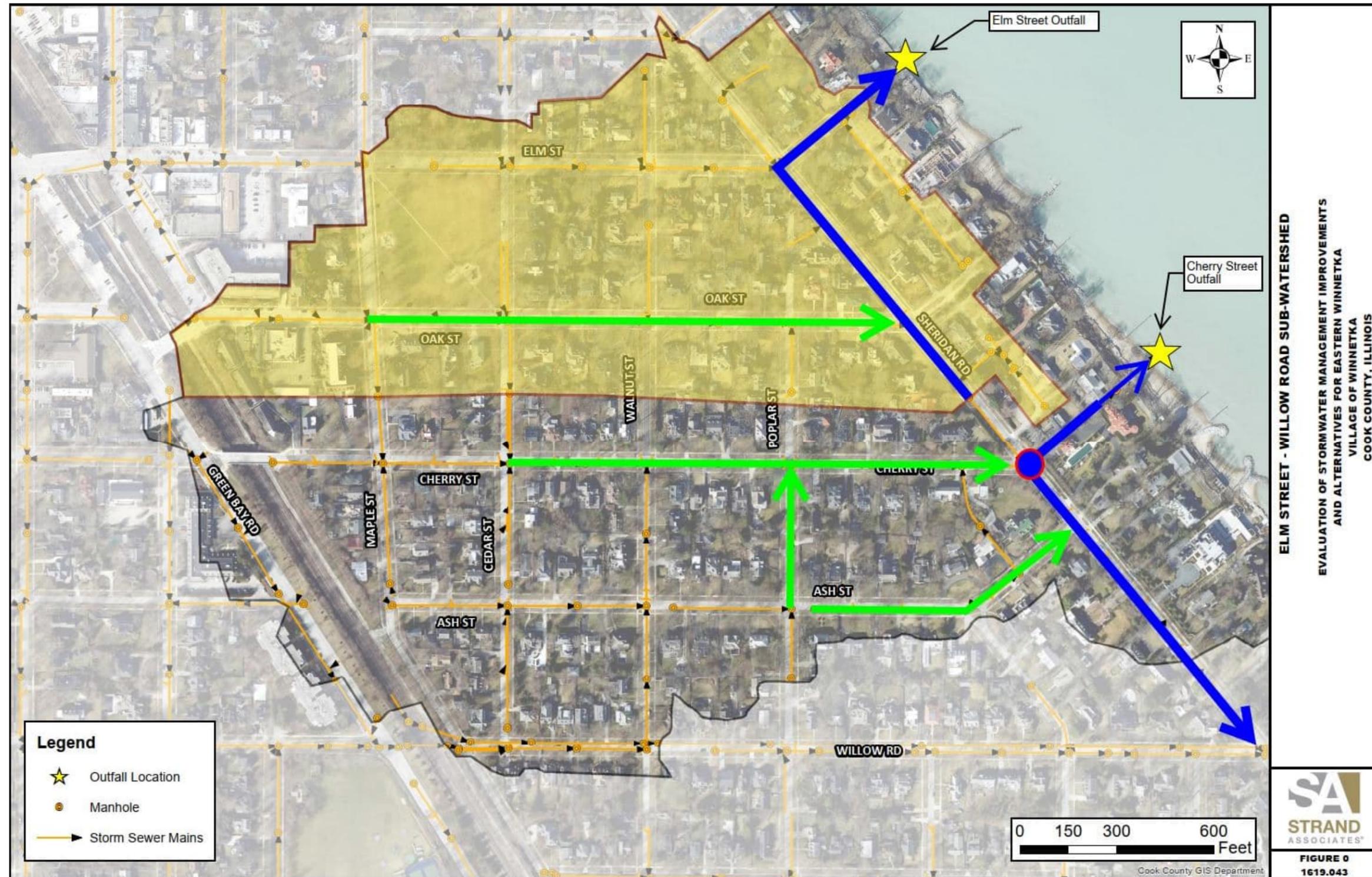
Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



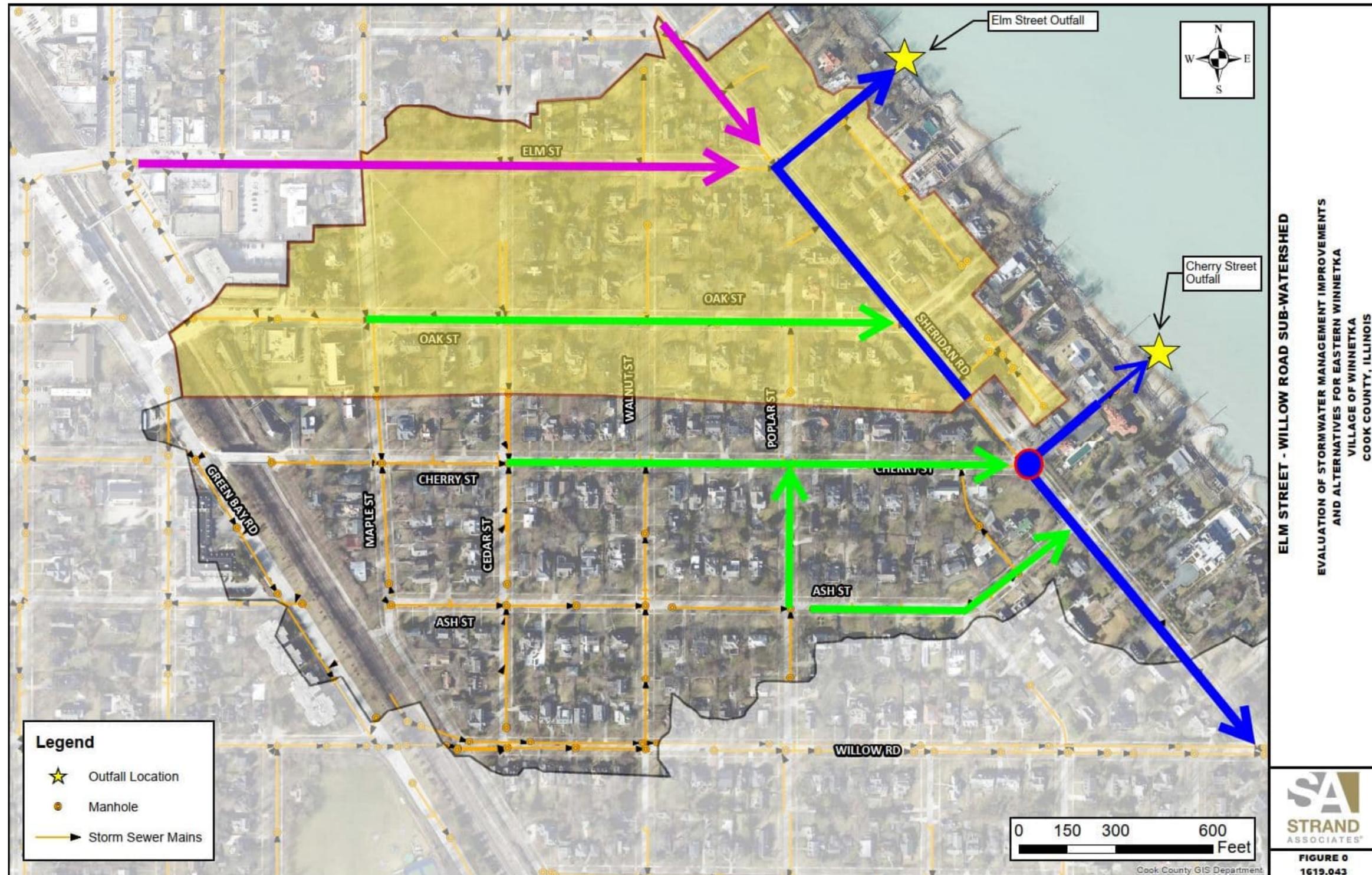
Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



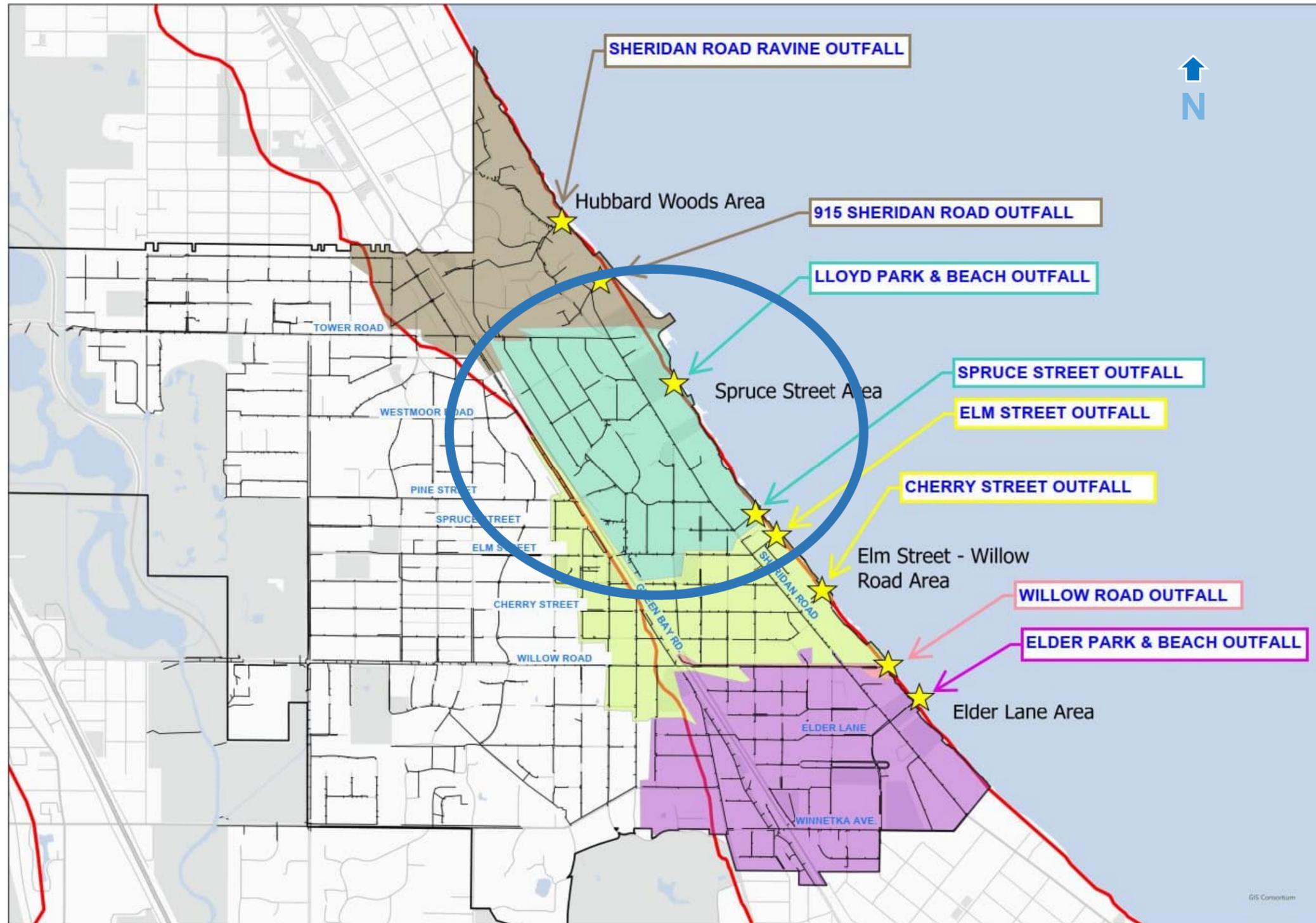
Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance



Elm Street-Willow Road Sub-Area Alternatives Evaluation - Conveyance

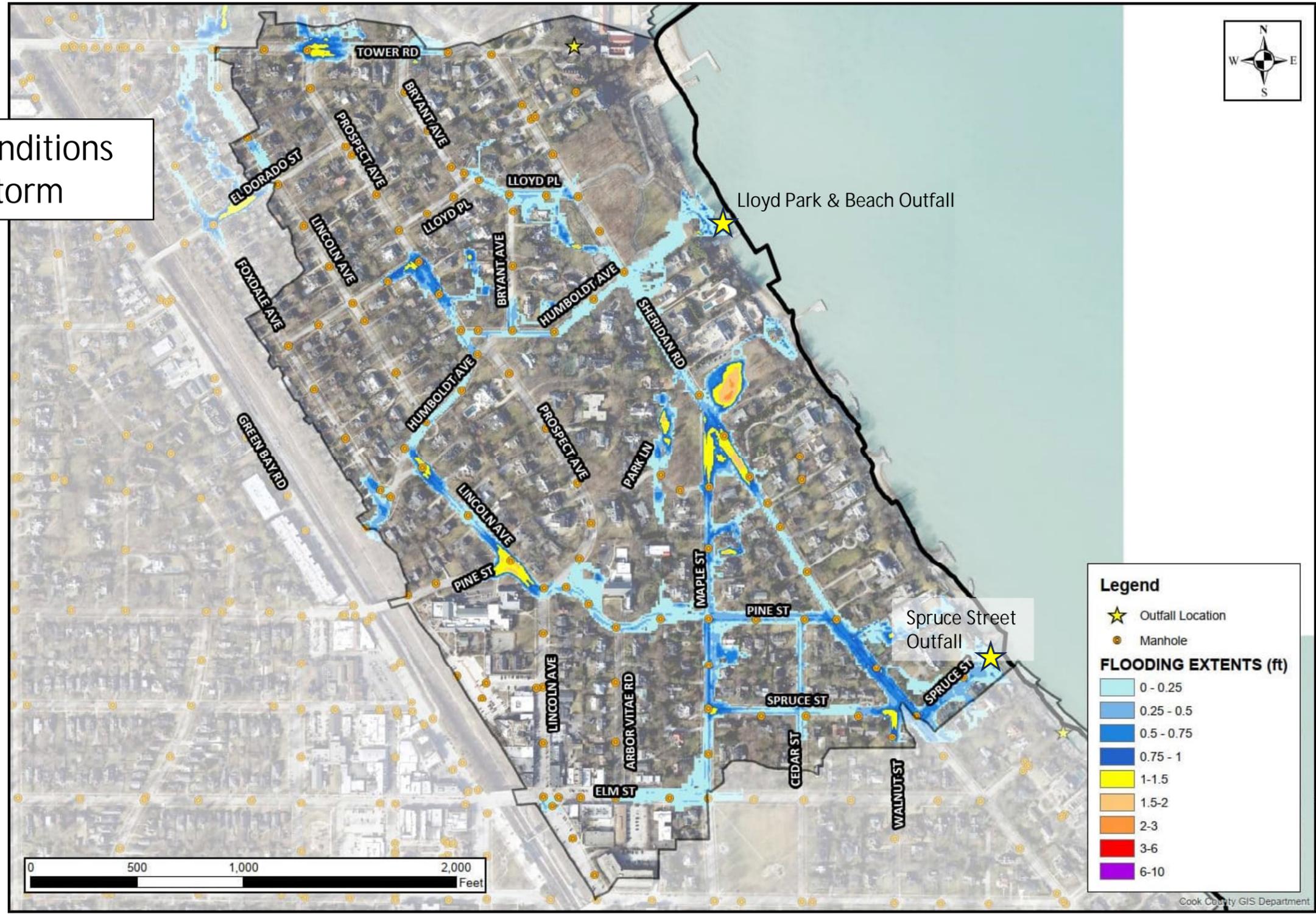


Stormwater Management Study – Spruce Street Sub-Area



Spruce Street Sub-Area Flooding

Existing Conditions
100-Year Storm



Legend

- ★ Outfall Location
- Manhole

FLOODING EXTENTS (ft)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 6
- 6 - 10

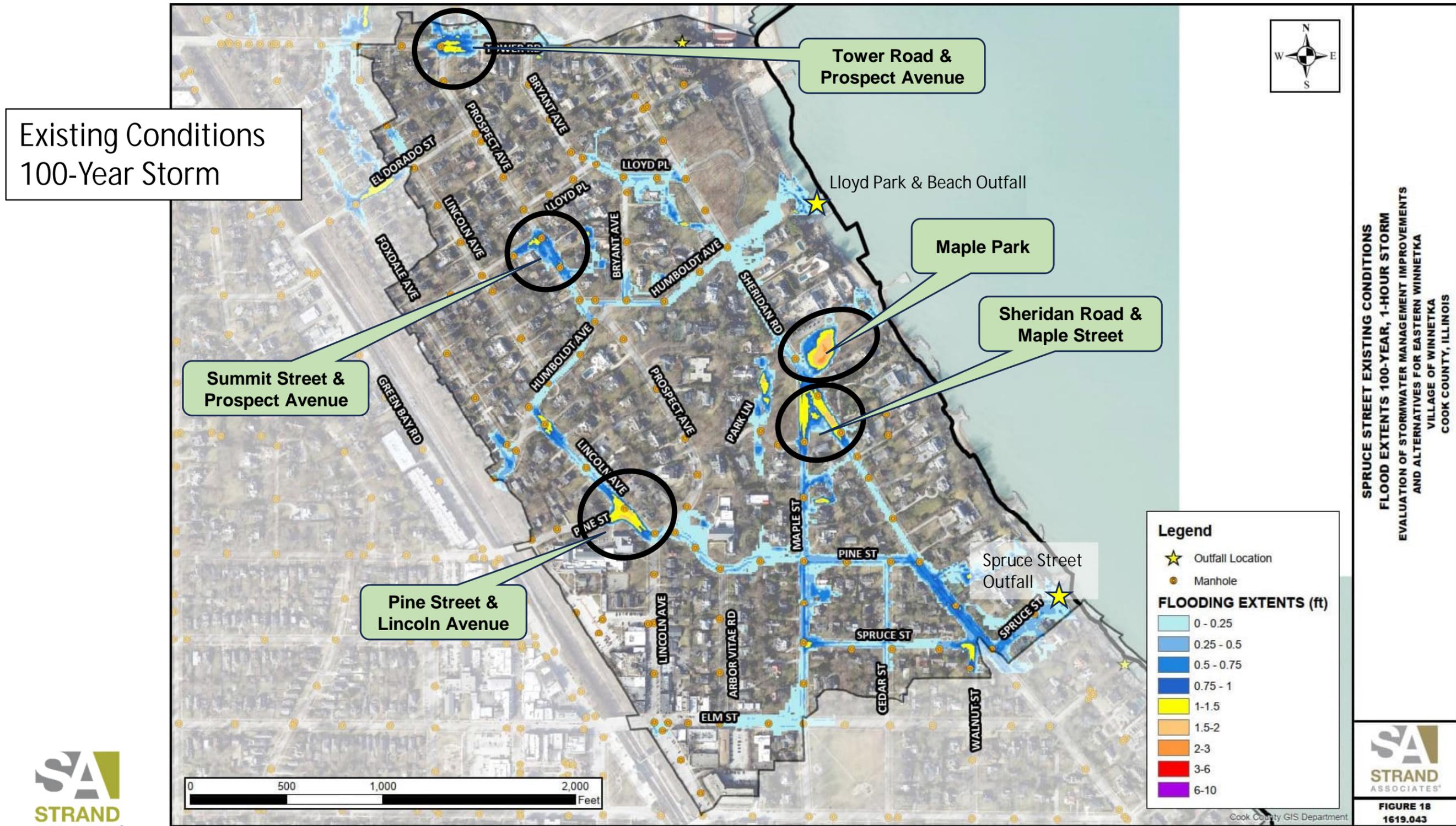
SPRUCE STREET EXISTING CONDITIONS
FLOOD EXTENTS 100-YEAR, 1-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS


FIGURE 18
1619.043



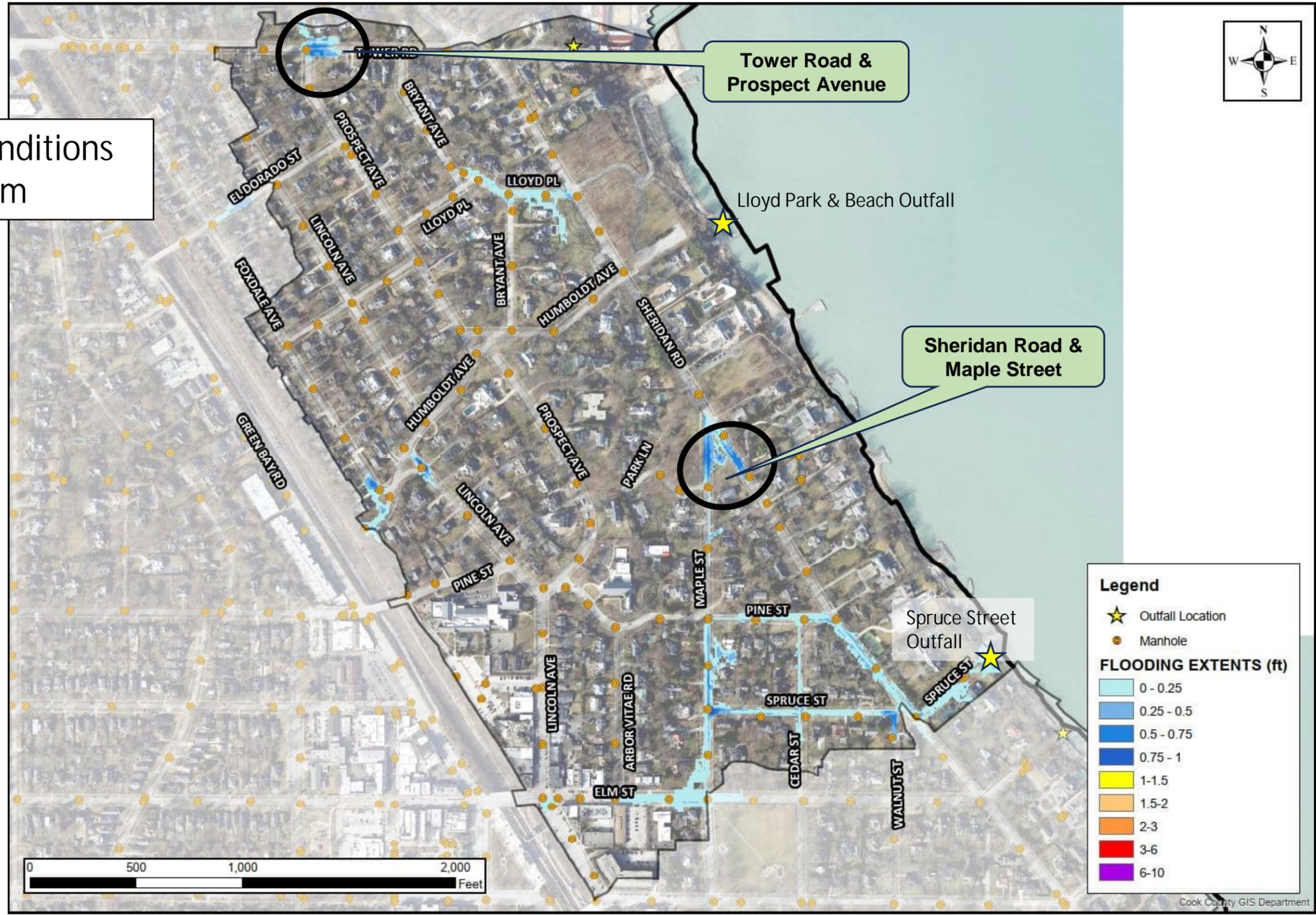
Cook County GIS Department

Spruce Street Sub-Area Flooding



Spruce Street Sub-Area Flooding

Existing Conditions
2-Year Storm



Legend

- ★ Outfall Location
- Manhole

FLOODING EXTENTS (ft)

- 0 - 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 6
- 6 - 10

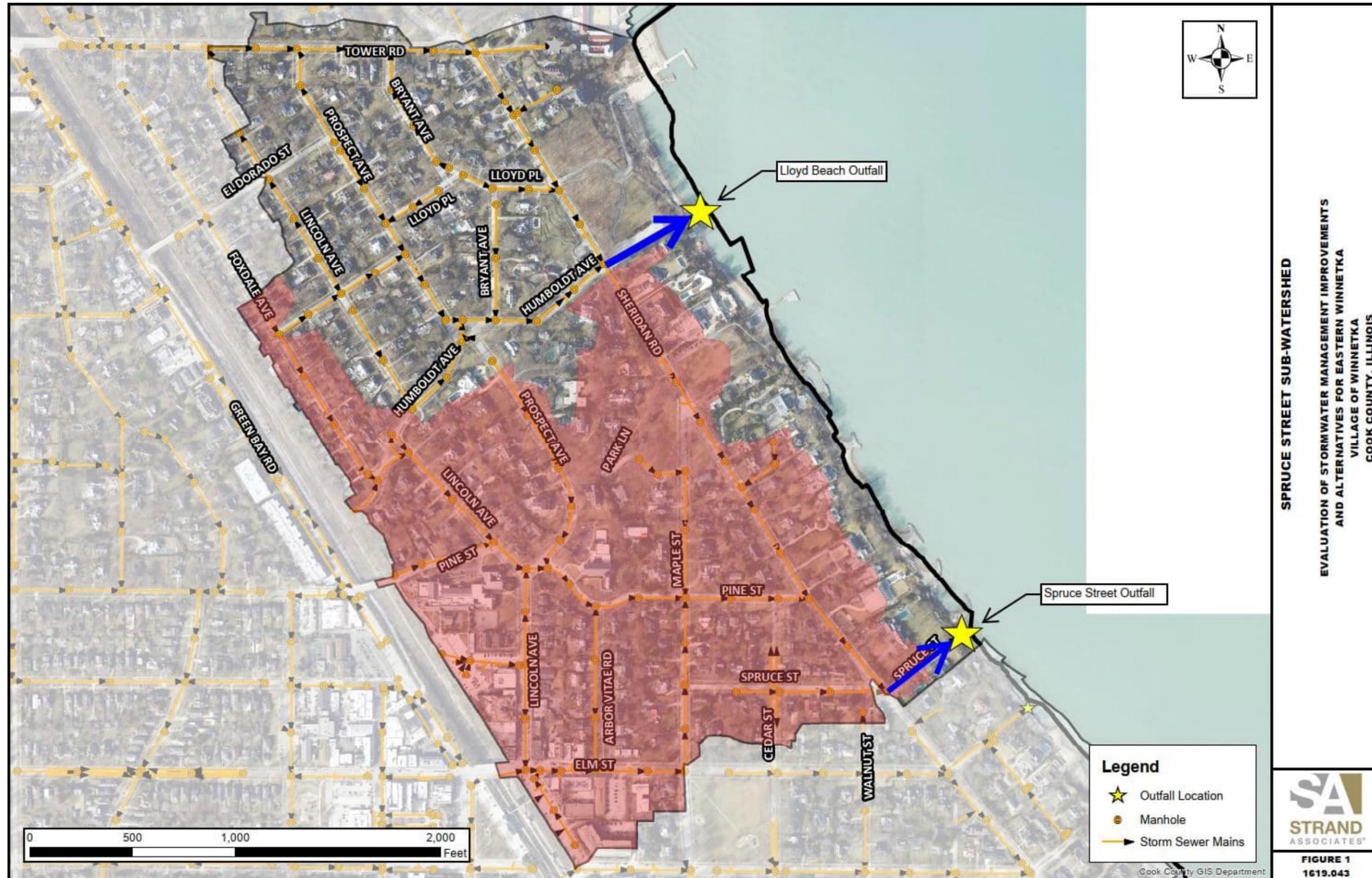
SPRUCE STREET EXISTING CONDITIONS
FLOOD EXTENTS 2-YEAR, 1-HOUR STORM
EVALUATION OF STORMWATER MANAGEMENT IMPROVEMENTS
AND ALTERNATIVES FOR EASTERN WINNETKA
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS


FIGURE 13
1619.043

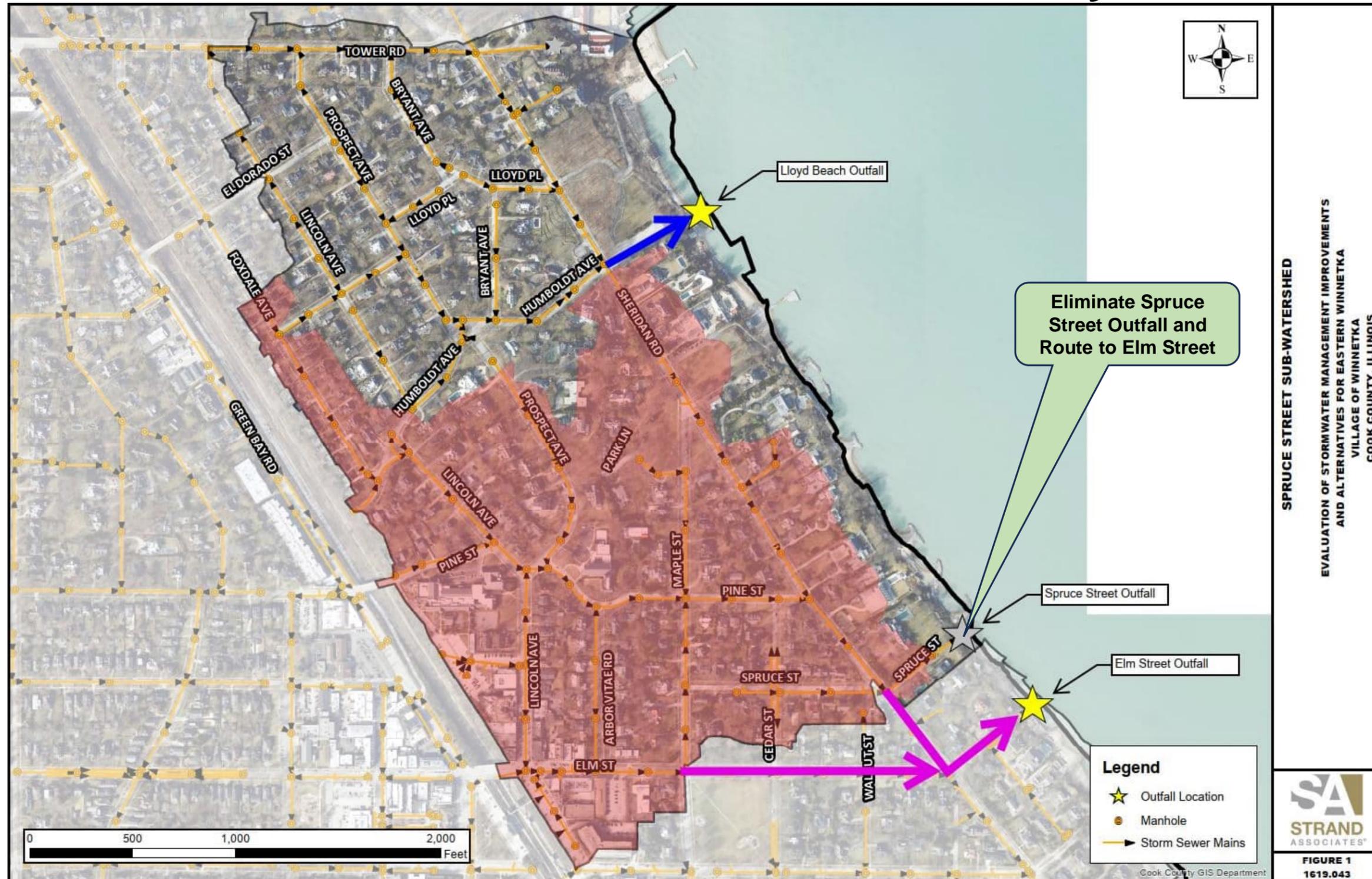


Cook County GIS Department

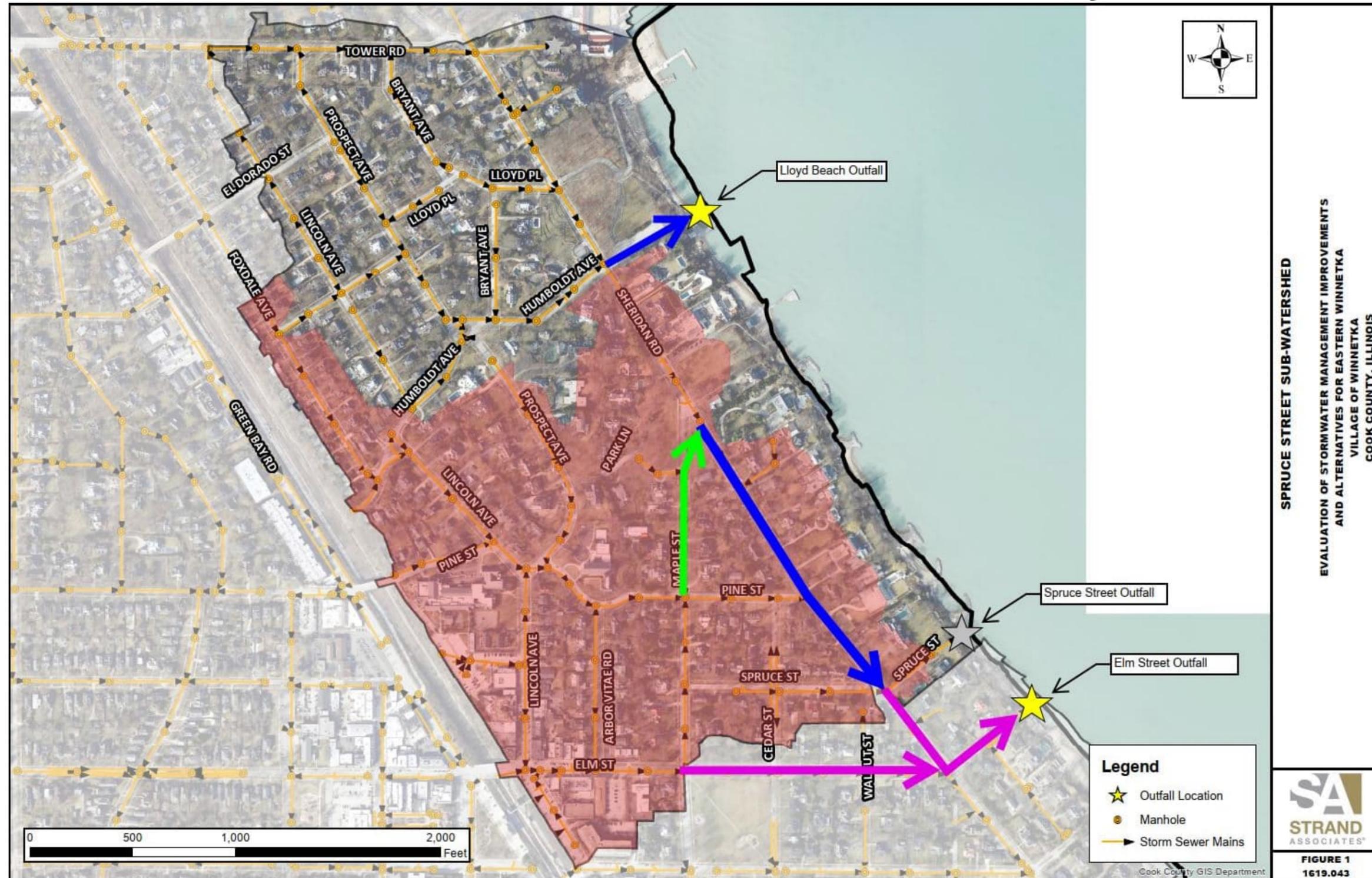
Spruce Street Sub-Area Alternatives Evaluation - Conveyance



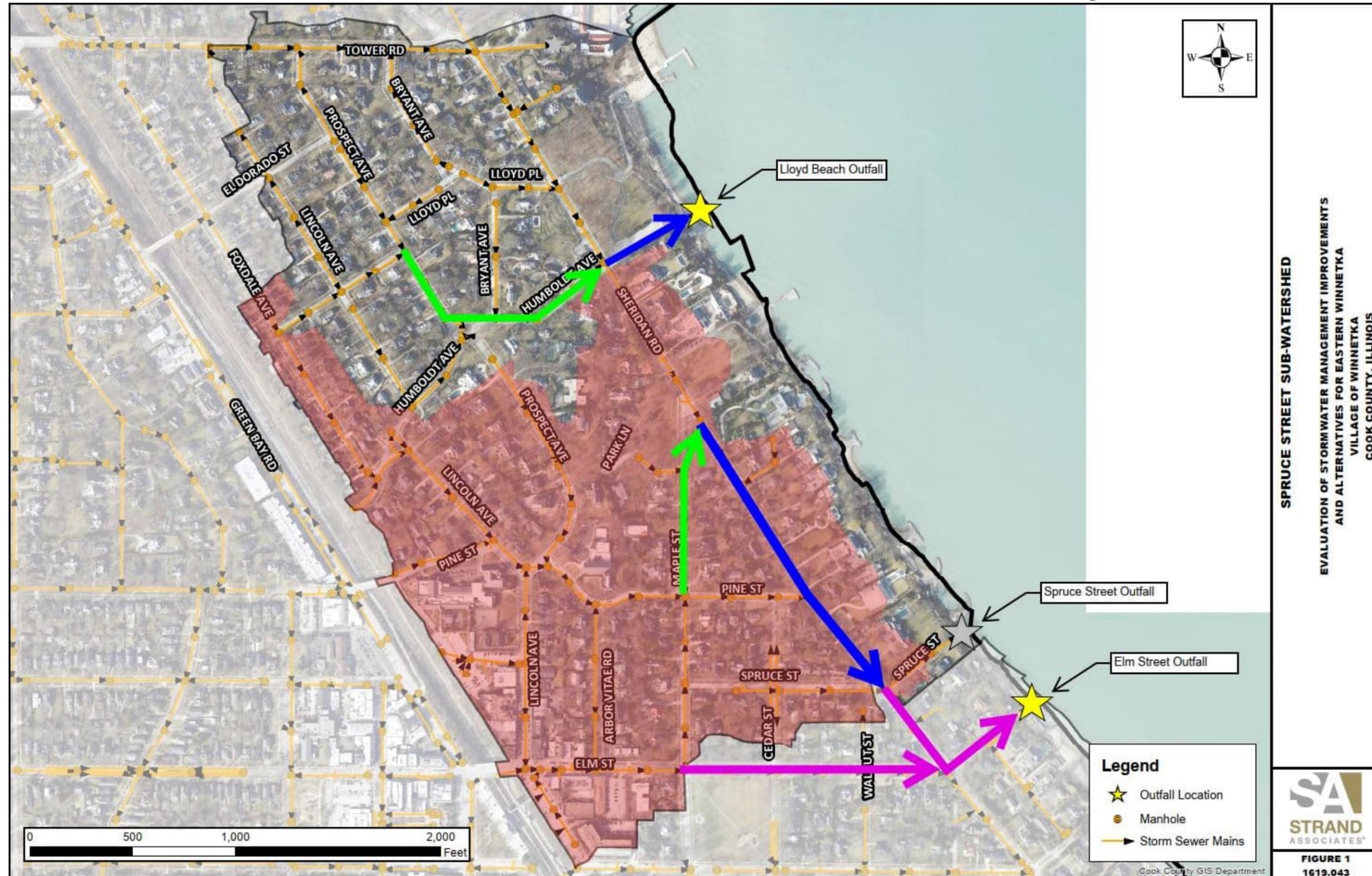
Spruce Street Sub-Area Alternatives Evaluation - Conveyance



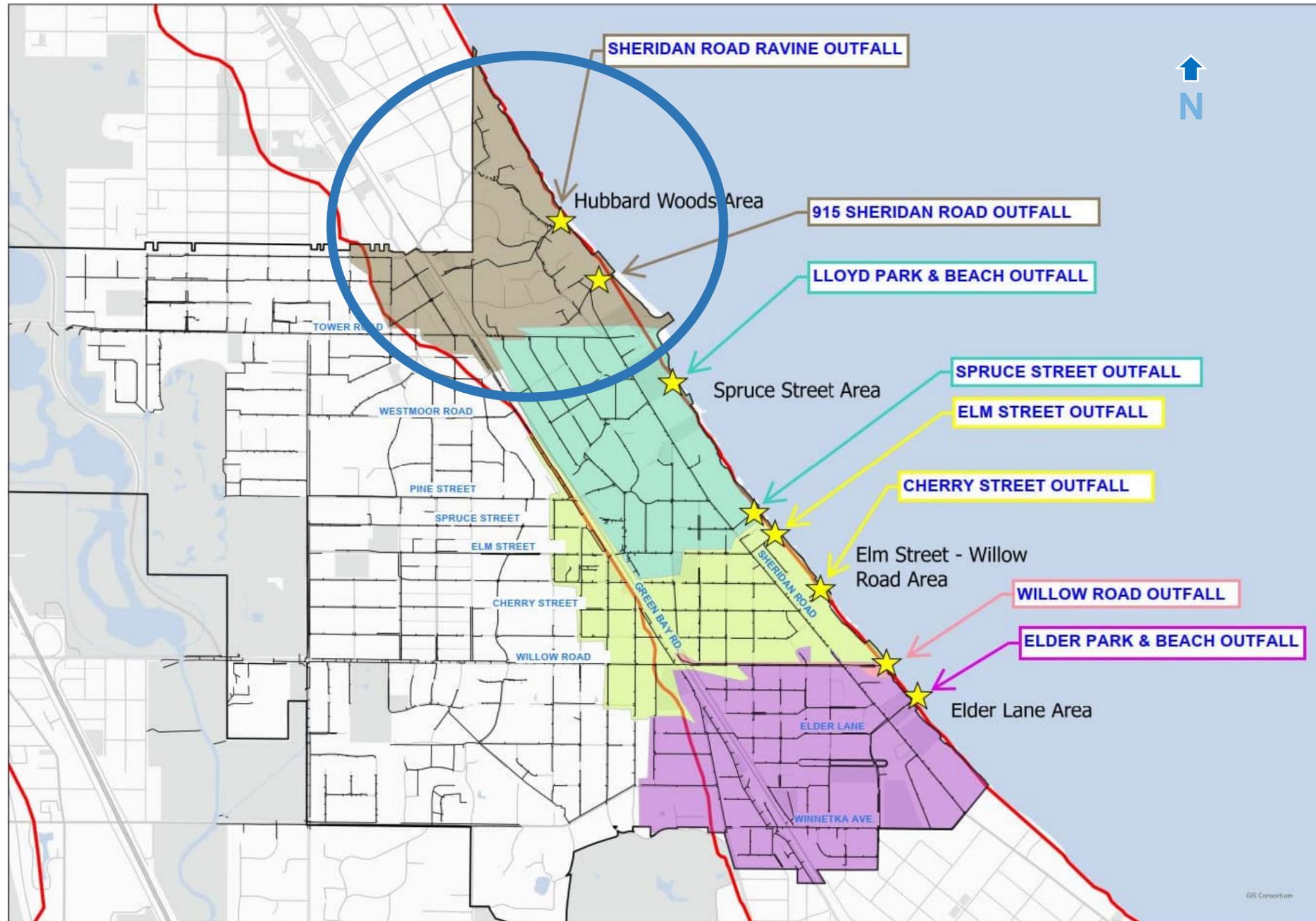
Spruce Street Sub-Area Alternatives Evaluation - Conveyance



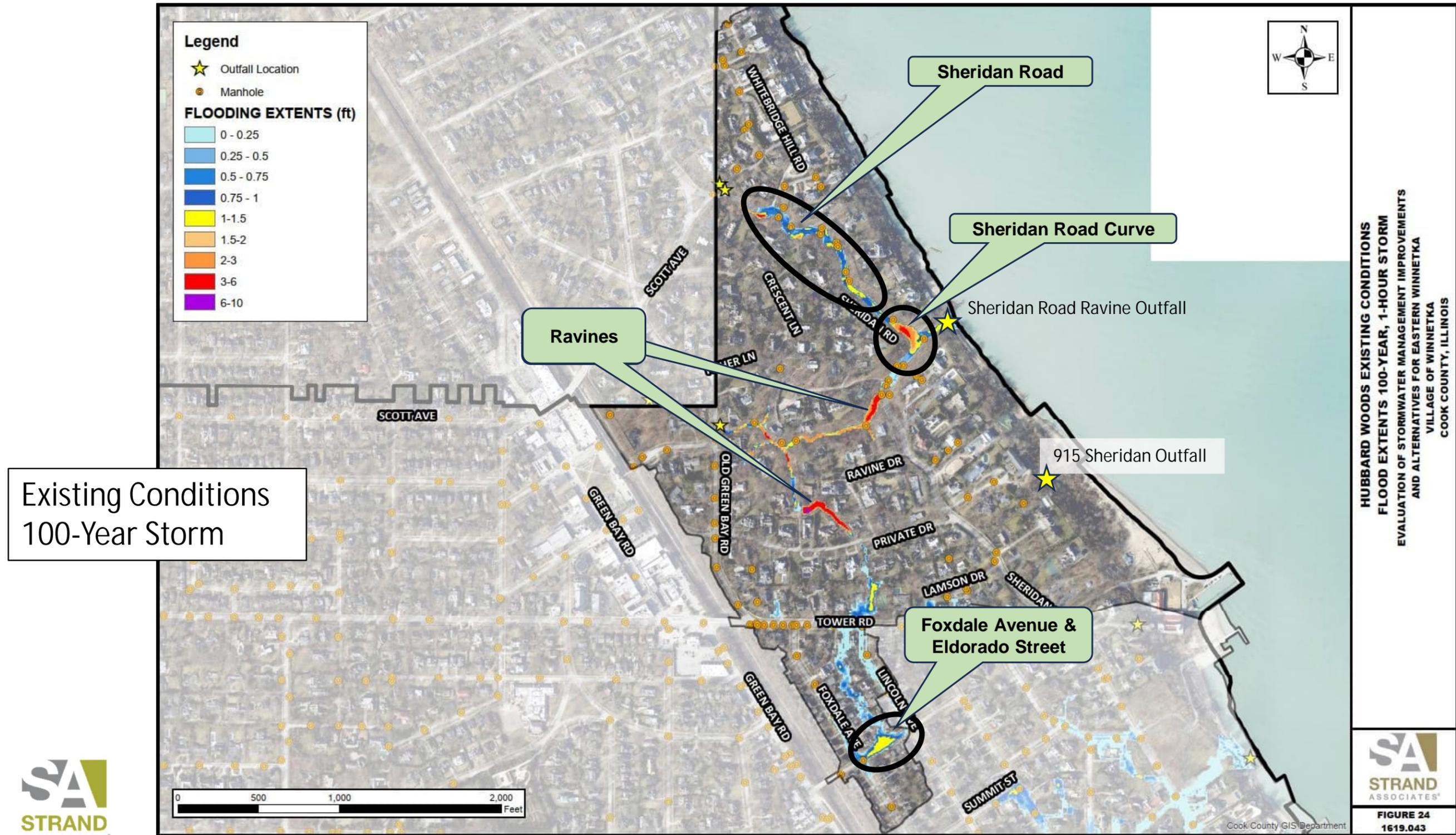
Spruce Street Sub-Area Alternatives Evaluation - Conveyance



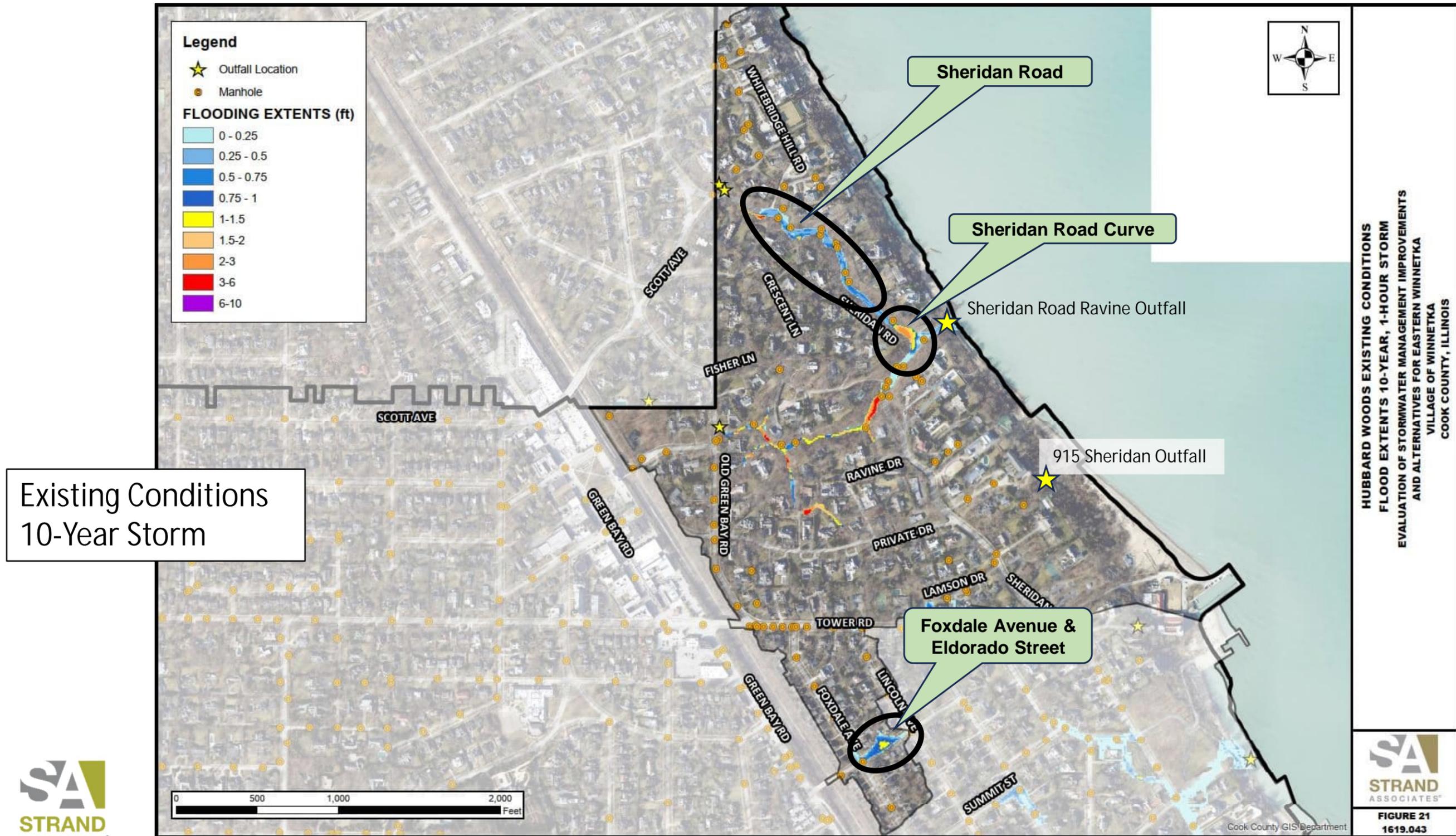
Stormwater Management Study – Hubbard Woods Sub-Area



Hubbard Woods Sub-Area Flooding



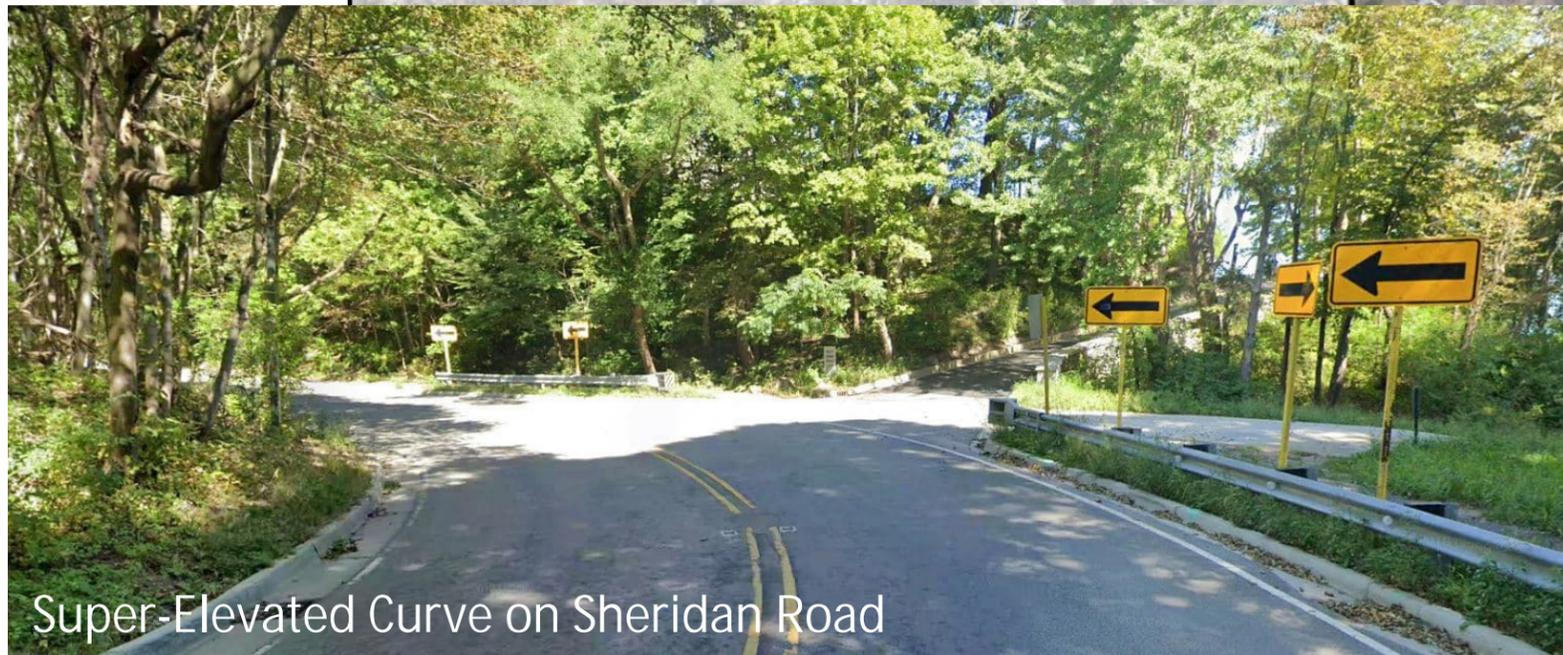
Hubbard Woods Sub-Area Flooding



Hubbard Woods Sub-Area Flooding

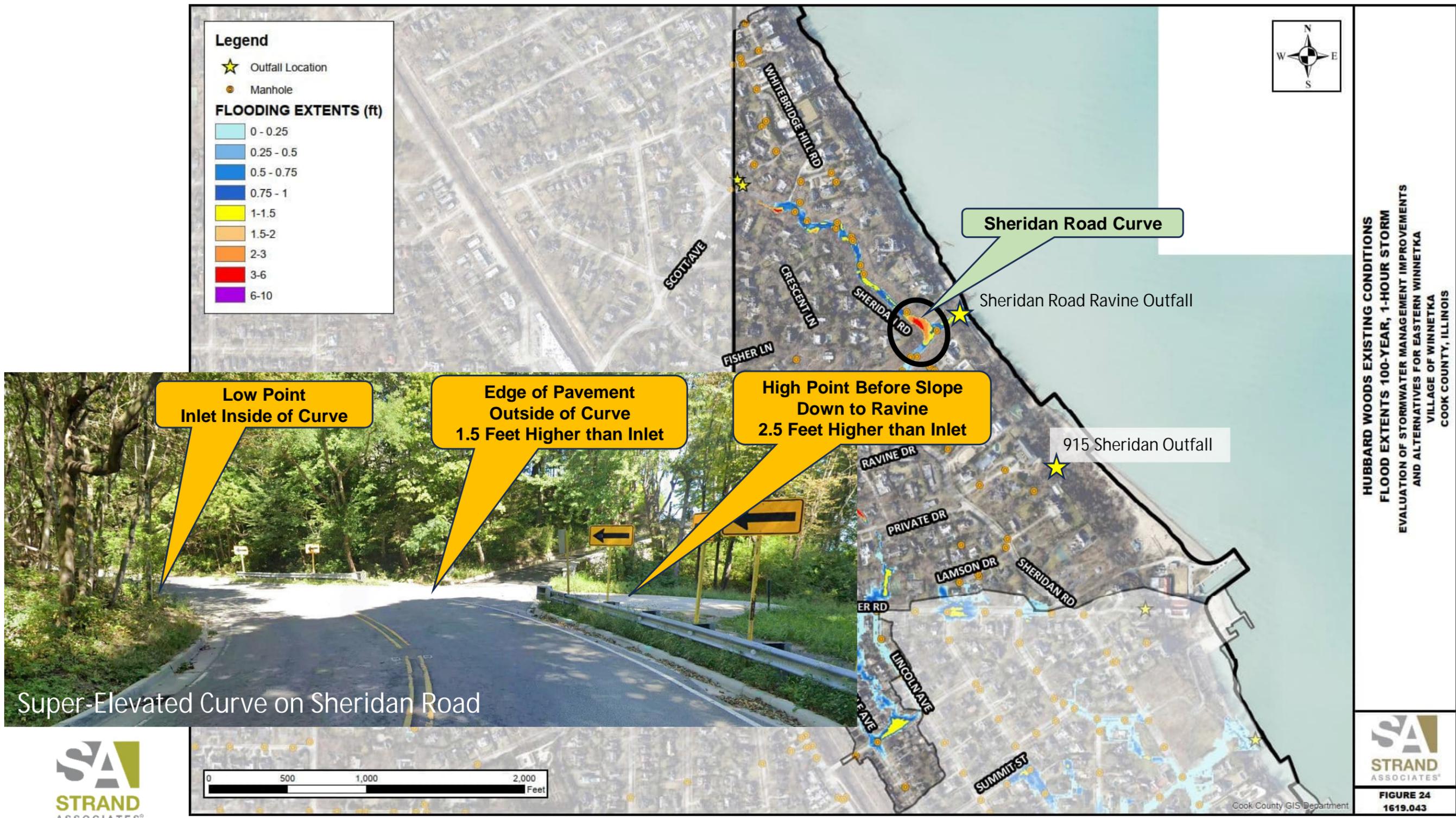


Hubbard Woods Sub-Area Flooding

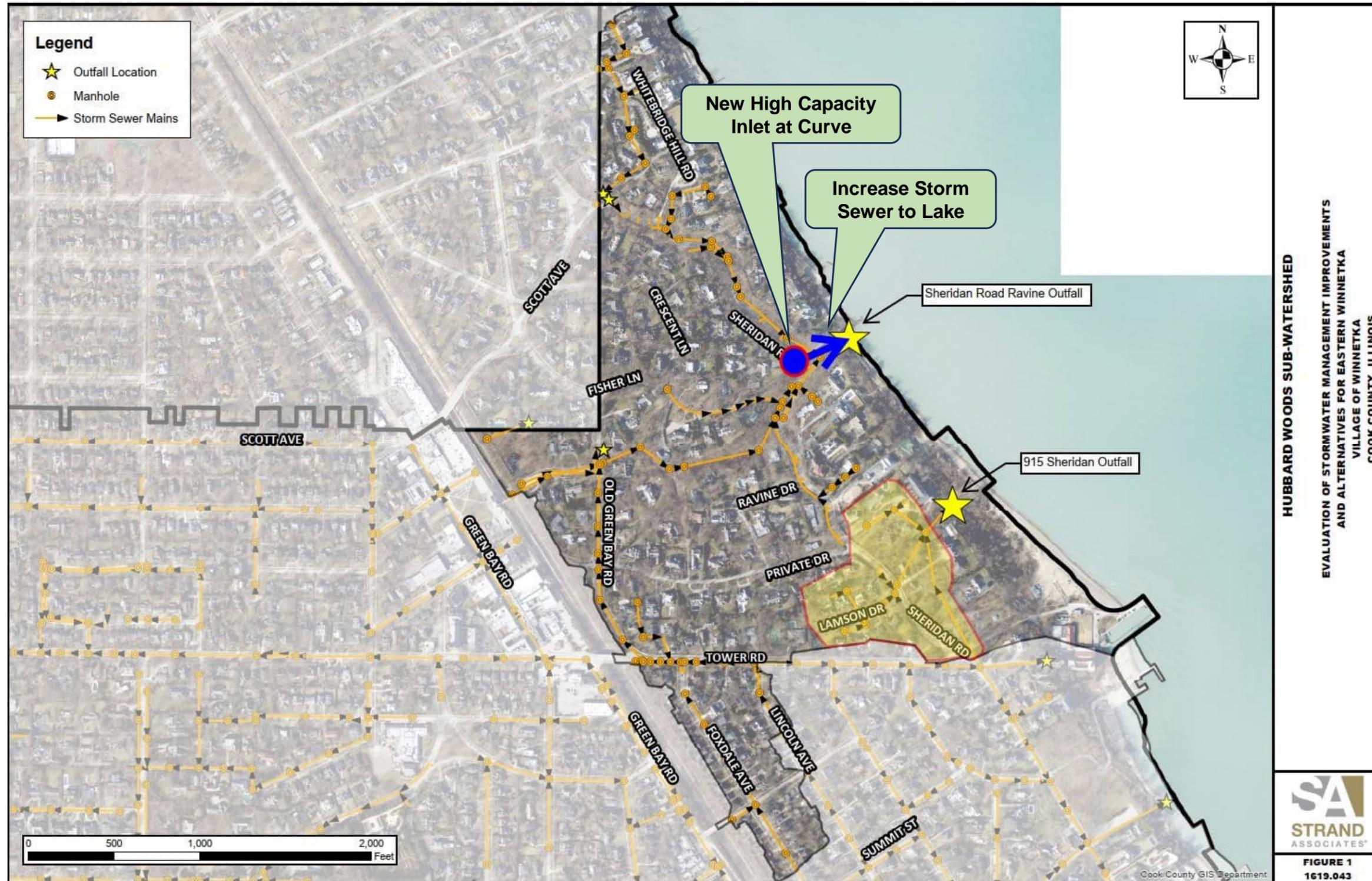


Super-Elevated Curve on Sheridan Road

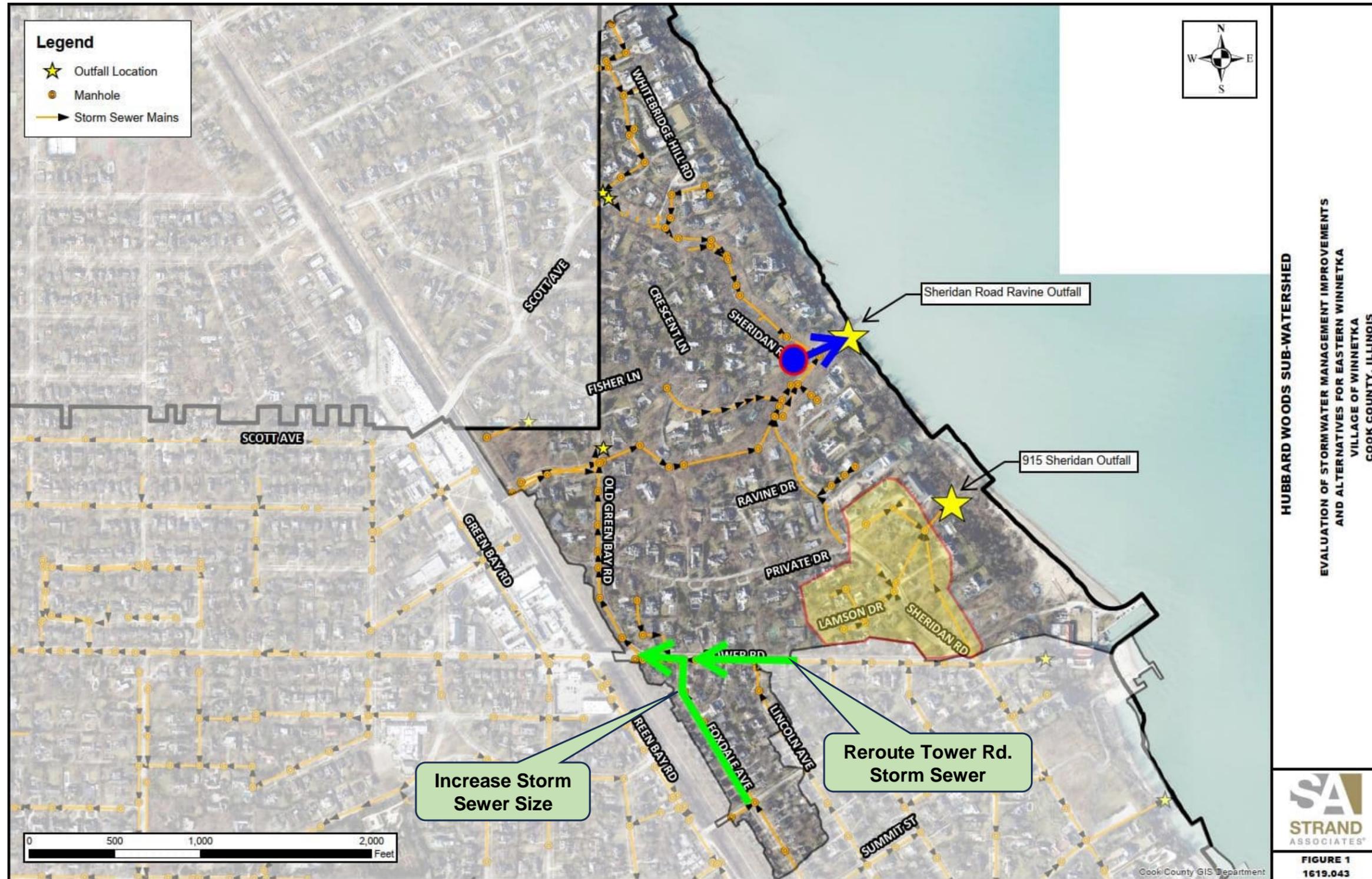
Hubbard Woods Sub-Area Flooding



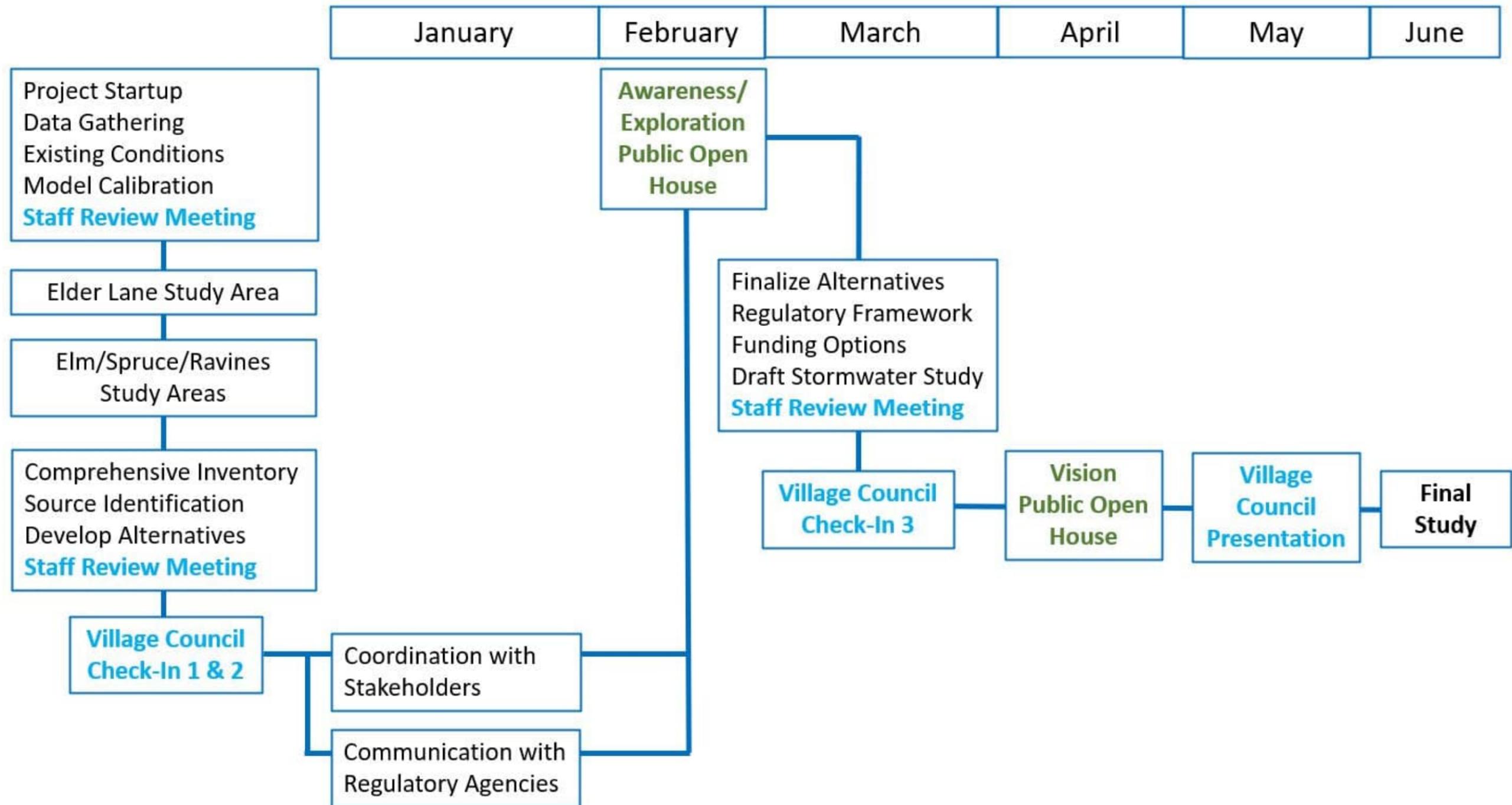
Hubbard Woods Sub-Area Alternatives Evaluation - Conveyance



Hubbard Woods Sub-Area Alternatives Evaluation - Conveyance



Stormwater Management Study Scope





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