

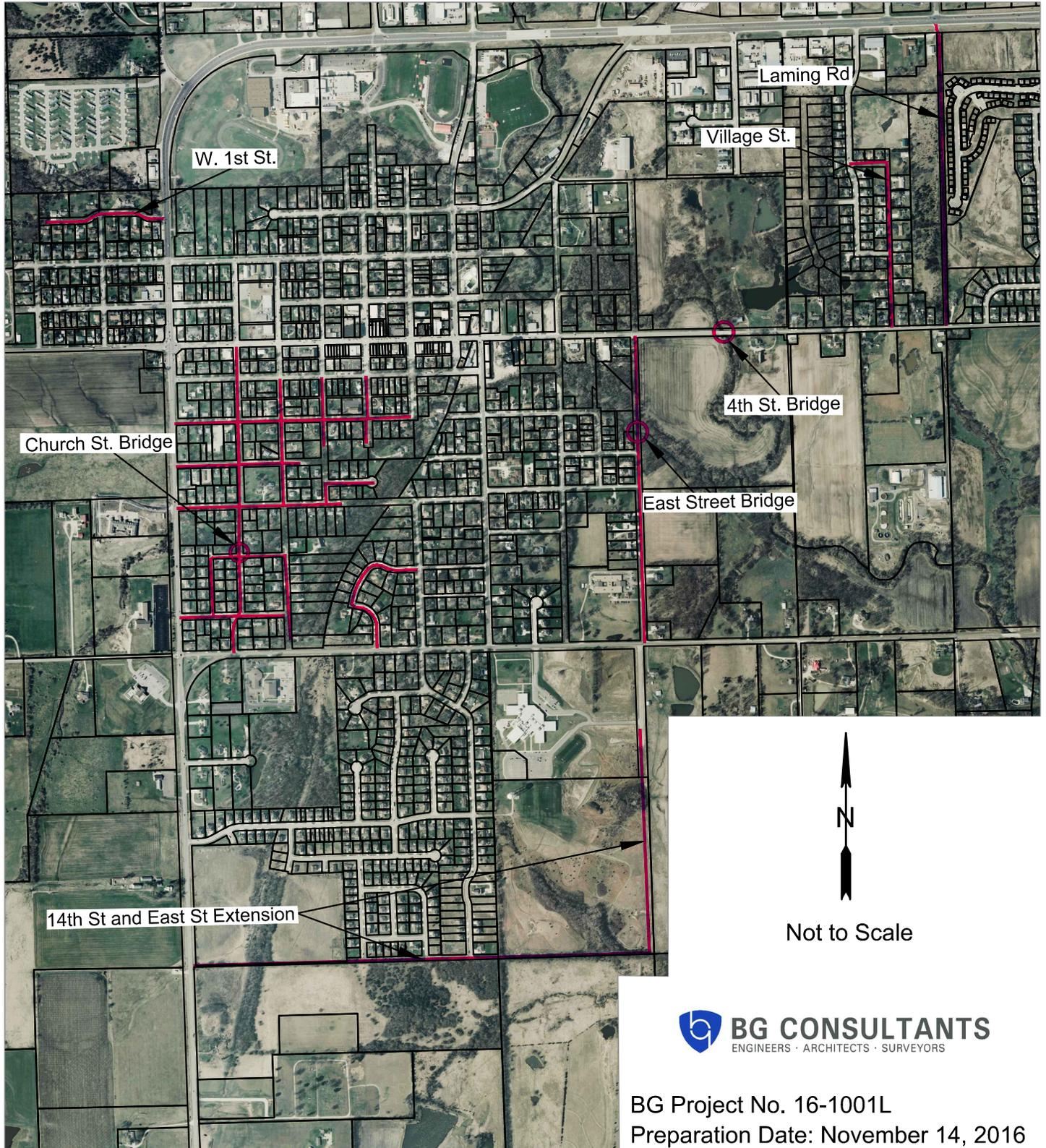
City of Tonganoxie Capital Projects List 2016

The following projects have been identified as the top infrastructure priorities for the City of Tonganoxie. The list is not in order of prioritization.

| Project Name | Project Type | Project Description | Estimated Cost |
|--|---------------------|---|---|
| 14th Street and East Street Extension Construction | Street Construction | Construction of 14th Street from US 24-40 to East Street | \$5,000,000 |
| 4th Street Bridge Deck Repair | Bridge Repair | Repair 4th Street Bridge Deck | \$500,000 |
| Church Street Bridge Replacement | Bridge Replacement | Replace Church Street Bridge | \$425,000 |
| Church Street Improvements | Street Maintenance | Complete reconstruction of Church Street, from 4th Street to Washington, to include sidewalks, storm sewer, asphalt, curb and gutter to city standards | \$905,000 |
| East Street Extension and Realignment | Street Construction | Construction of East Street extension and Rebuild/Realignment from 7th Street to Washington | \$2,500,000 |
| Improvements to All Streets (5th to Washington, 24/40 to Delaware) | Street Maintenance | Improvement of all streets between 5th Street to Washington Street and 24/40 to Delaware Street, to include sidewalks, storm sewer, asphalt, curb and gutter to city standards | \$4,660,000 |
| Indoor Recreation Center | Facility | Construction of an indoor recreation/community center | \$5,000,000 |
| Laming Road Extension Construction | Street Construction | Construction of Laming Road South from US 24/40 to E. 4th Street | \$1,400,000 |
| Library Construction | Facility | Construction of new library - location to be determined. | \$3,000,000 - \$3,600,000 |
| Northwest Water Tower | Utility | NW Water Tower (Smiley Road and Hatchell Road area) | \$1,000,000 |
| Sanitary Sewer Trunk Line | Utility | Sanitary Sewer Trunk Line from Wastewater Treatment Plant to Industrial Park | \$2,850,000 |
| Smiley Road and Hatchell Road Area Booster Station | Utility | Improvement of water pressure in the northwest portion of the City through booster pump construction | \$150,000 |
| Stormwater Infrastructure Maintenance | Utility Maintenance | Maintenance of stormwater infrastructure - entire City | \$300,000 |
| Street Preservation Program (all City streets) | Street Maintenance | Maintenance of wearing surface of approximately 26 center lane miles of City street, utilizing various techniques depending on condition, to include: 1) 2 inch asphalt mill and overlay; 2) Chip seal; 3) Modified Quick Set Aggregate; and 4) Reclamite Asphalt Rejuvenator. Note: 1 mile has an average of 14,435 sq. yards. | Mill and Overlay: \$10.00 per sq. yd. Chip Seal: \$2.50 per sq. yd. Modified Quick Aggregate: \$3.77 per sq. yd. Reclamite Asphalt Rejuvenator \$0.80 per sq. yd. |
| Trails Master Plan Implementation | Trails | | TBD - Grants through KDOT TA 80/20 |
| Village Street Improvements | Street Maintenance | Complete reconstruction of Village street from 4th Street to 1st Street, including 1st Street to Village Terrace, to include sidewalks, storm sewer, asphalt, curb and gutter to city standards | \$588,000 |
| W. 1st Street Improvements | Street Maintenance | Complete rebuild of W 1st Street from 24/40 heading west to dead end (2 blocks) to include sidewalks, storm sewer, asphalt, curb and gutter to city standards | \$360,000 |
| Water Tower Maintenance | Utility Maintenance | Water tower inspections, maintenance, and repairs | \$50,000 |

CITY OF TONGANOXIE, KANSAS

Road and Bridge Infrastructure Projects to be Paid for with Sales Tax Revenue



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BG Project No. 16-1001L

Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

Church Street Improvements

Complete Reconstruction of Church St., from 4th Street to Washington.

Includes Sidewalks, Storm Sewer, Asphalt, and Curb & Gutter.

2650 Linear Feet - Estimated Cost of \$905,000



BG Project No. 16-1001L

Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

Village Street Improvements

Complete Reconstruction of Village St., from 4th Street to 1st Street, including 1st Street to Village Terrace.

Includes Sidewalks, Storm Sewer, Asphalt, and Curb & Gutter.

1725 Linear Feet - Estimated Cost of \$588,000



N
Not to Scale

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BG Project No. 16-1001L
Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

W. 1st Street Improvements

Complete Reconstruction of W. 1st Street from Chieftain Rd/24-40 heading west to dead end (2 blocks).

Includes Sidewalks, Storm Sewer, Asphalt, and Curb & Gutter.

1050 Linear Feet - Estimated Cost of \$360,000

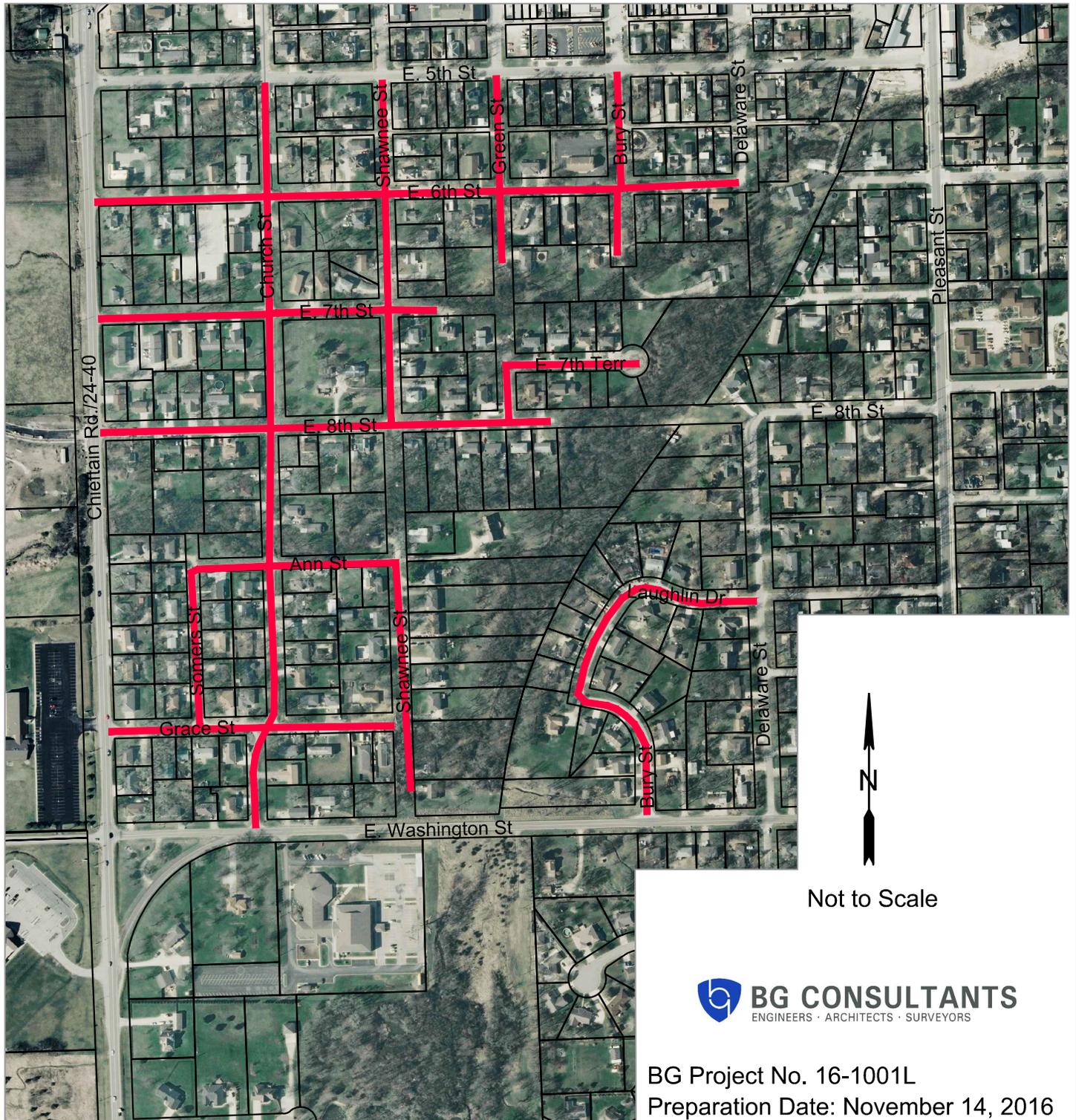


BG Project No. 16-1001L
Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

"All Streets"

Improvement of All Streets between 5th Street to Washington Street and 24/40 to Delaware Street. 13,650 Linear Feet - Estimated Cost of \$4,660,000



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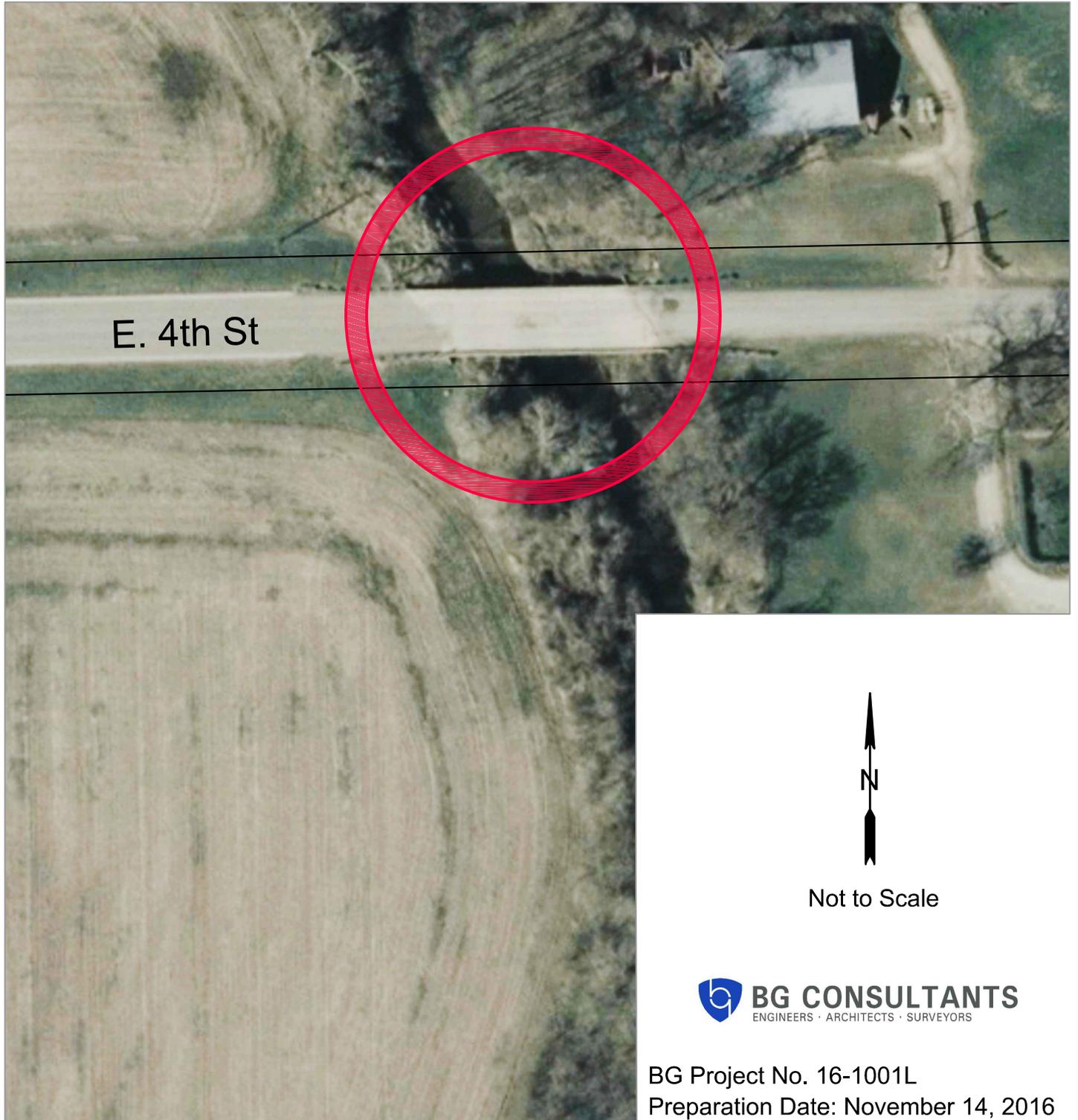
CITY OF TONGANOXIE, KANSAS

4th Street Bridge Deck

Replacement or Repair of the 4th Street Bridge Deck.

Estimated Replacement Costs:

Estimated Repair Costs: \$500,000



Not to Scale



BG Project No. 16-1001L

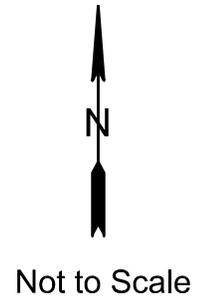
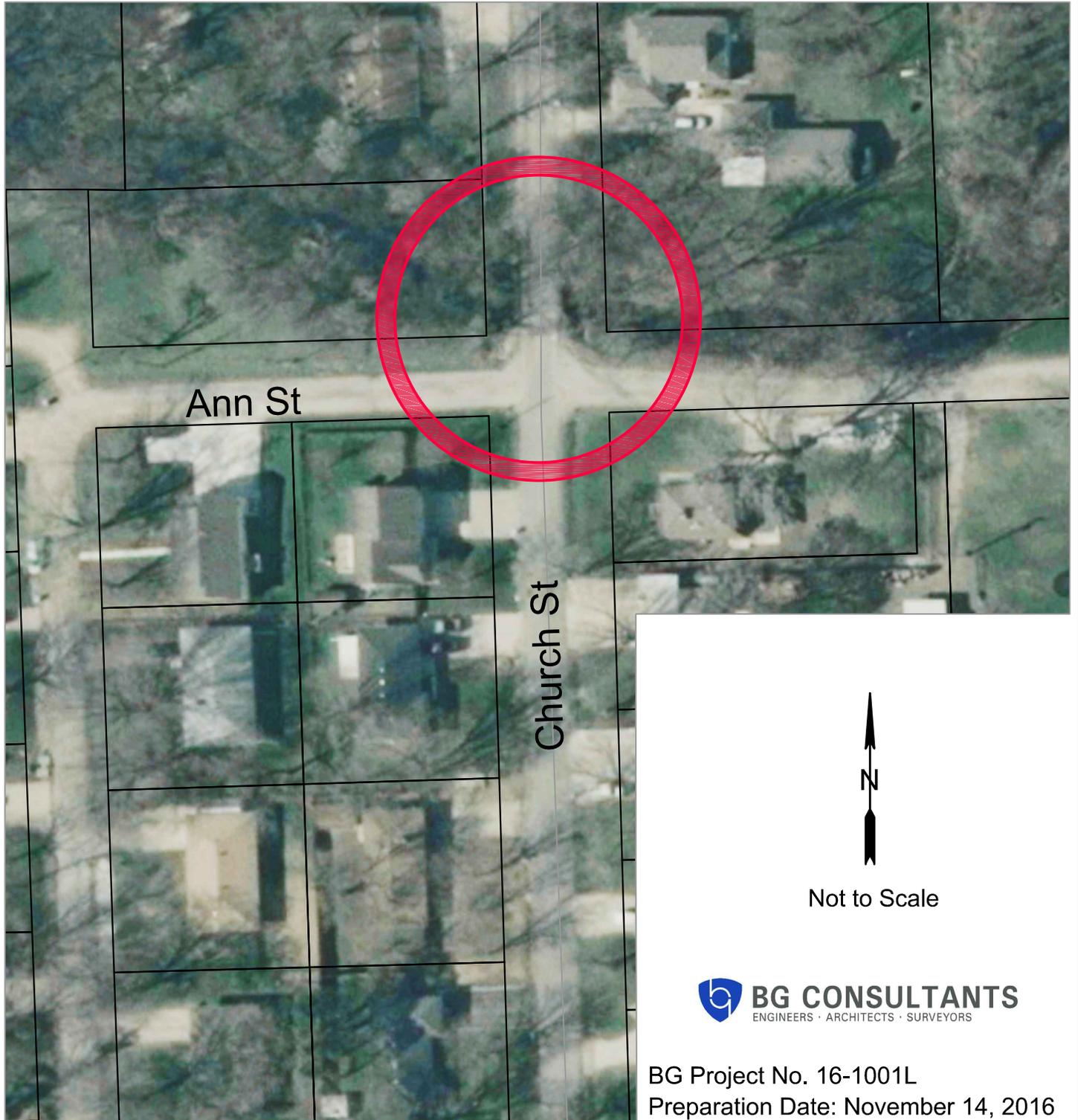
Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

Church Street Bridge

Complete Replacement of the Church Street Bridge.

Estimated Replacement Costs: \$425,000



BG Project No. 16-1001L

Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

Construction of 14th Street and southern East Street Extension

Construction of a New 14th Street from US 24/40 to East Street (Future).

Estimated Cost of \$5,000,000



Not to Scale

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BG Project No. 16-1001L

Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

Construction of East Street Extension and Rebuild/Realignment of East Street from 7th to Washington.

Estimated Cost of Road: \$2,000,000

Estimated Bridge Cost: \$550,000

Total Estimated Cost: \$2,550,000



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BG Project No. 16-1001L

Preparation Date: November 14, 2016

CITY OF TONGANOXIE, KANSAS

Construction of Laming Road Extension

Construct Laming Road South From Us 24/40 to E. 4th St.

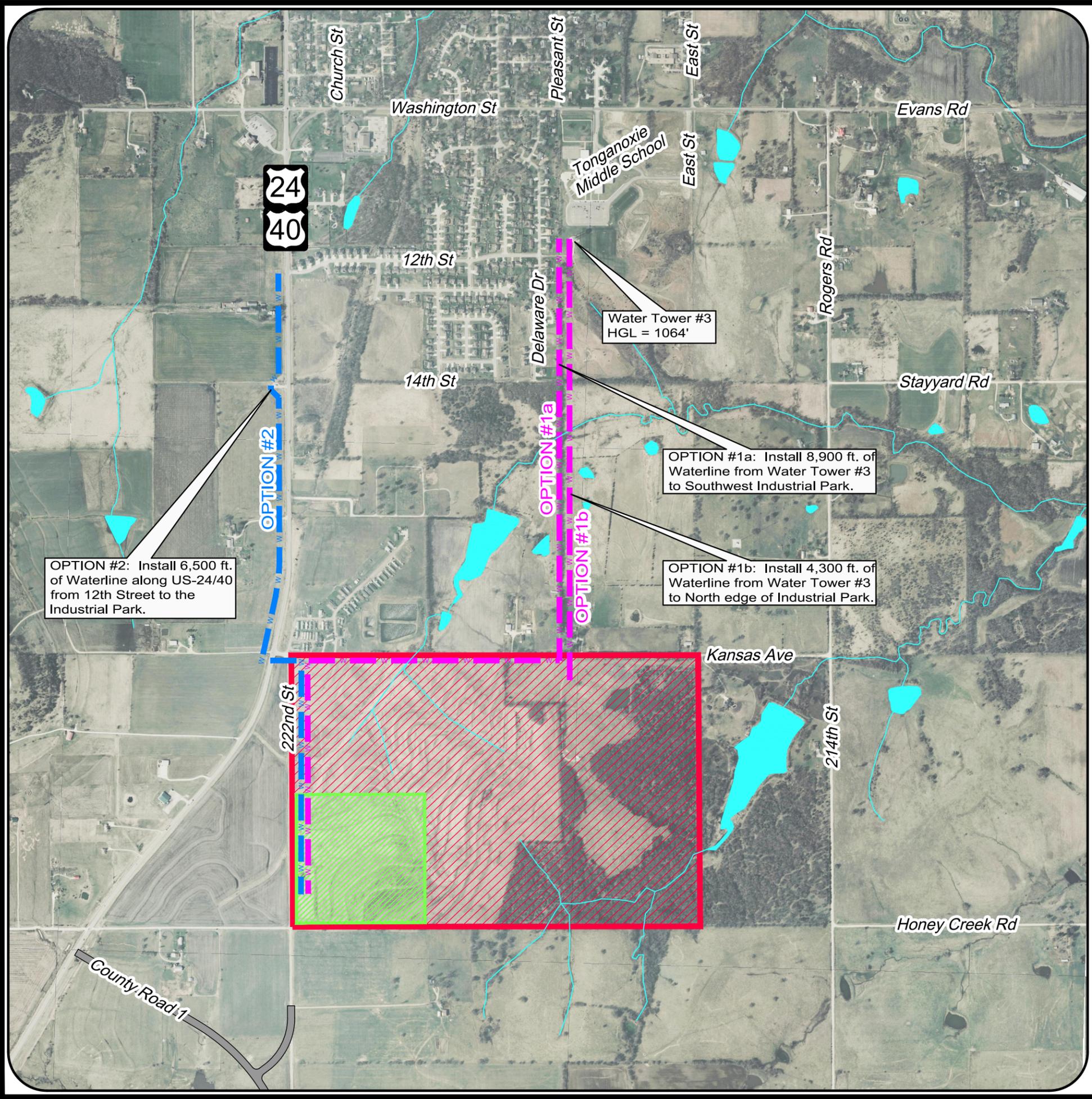
Estimated Cost of \$1,400,000



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BG Project No. 16-1001L

Preparation Date: November 14, 2016



OPTION #2: Install 6,500 ft. of Waterline along US-24/40 from 12th Street to the Industrial Park.

OPTION #1a: Install 8,900 ft. of Waterline from Water Tower #3 to Southwest Industrial Park.

OPTION #1b: Install 4,300 ft. of Waterline from Water Tower #3 to North edge of Industrial Park.

OPTION #1a - (Finish Floor Elev. = 925)

| Waterline Size (Diameter) | Service Flow (gpm @ ±50 psi) | Maximum Flow (gpm @ 20 psi) | Estimated Project Cost | |
|---------------------------|------------------------------|-----------------------------|------------------------|---------------|
| | | | City Forces | Contracted |
| * 4" PVC | 60 | 130 | \$ 175,000.00 | \$ 235,000.00 |
| * 6" PVC | 175 | 375 | \$ 235,000.00 | \$ 315,000.00 |
| * 8" PVC | 375 | 800 | \$ 295,000.00 | \$ 390,000.00 |
| * 10" PVC | 700 | 1425 | \$ 415,000.00 | \$ 550,000.00 |
| 12" PVC | 1100 | 2300 | \$ 470,000.00 | \$ 625,000.00 |

NOTES: 1. Estimated Project Costs for work completed by City Forces have been estimated at approximately 75% of the cost of Contracted work.
2. Property Acquisition Costs are not included within these estimates.

OPTION #1b - (Finish Floor Elev. = 925)

| Waterline Size (Diameter) | Service Flow (gpm @ ±50 psi) | Maximum Flow (gpm @ 20 psi) | Estimated Project Cost | |
|---------------------------|------------------------------|-----------------------------|------------------------|---------------|
| | | | City Forces | Contracted |
| * 4" PVC | 60 | 130 | \$ 90,000.00 | \$ 120,000.00 |
| * 6" PVC | 175 | 375 | \$ 120,000.00 | \$ 160,000.00 |
| * 8" PVC | 375 | 800 | \$ 150,000.00 | \$ 200,000.00 |
| * 10" PVC | 700 | 1425 | \$ 205,000.00 | \$ 275,000.00 |
| 12" PVC | 1100 | 2300 | \$ 235,000.00 | \$ 315,000.00 |

NOTES: 1. Estimated Project Costs for work completed by City Forces have been estimated at approximately 75% of the cost of Contracted work.
2. Property Acquisition Costs are not included within these estimates.

OPTION #2 - (Finish Floor Elev. = 925)

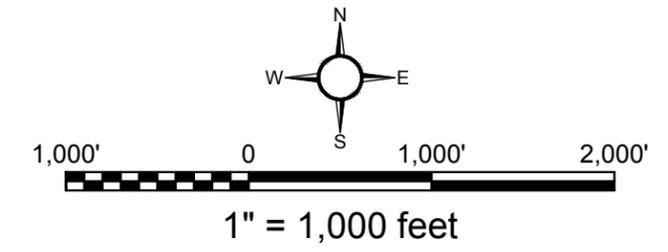
| Waterline Size (Diameter) | Service Flow (gpm @ ±50 psi) | Maximum Flow (gpm @ 20 psi) | Estimated Project Cost | |
|---------------------------|------------------------------|-----------------------------|------------------------|---------------|
| | | | City Forces | Contracted |
| * 4" PVC | 25 | 120 | \$ 130,000.00 | \$ 175,000.00 |
| * 6" PVC | 50 | 315 | \$ 175,000.00 | \$ 230,000.00 |
| * 8" PVC | 50 | 550 | \$ 215,000.00 | \$ 285,000.00 |

NOTES: 1. Estimated Project Costs for work completed by City Forces have been estimated at approximately 75% of the cost of Contracted work.
2. Property Acquisition Costs are not included within these estimates.

* = Assuming a 2,000 gpm required fire demand, waterlines marked with an asterisks would require the City have a cross connection with Suburban Water to provide fire protection capacity.

LEGEND

- Tonganoxie Industrial Park Boundary
- ±40 acres within the Industrial Park
- Option #1a and #1b Concept Alignment
- Option #2 Concept Alignment

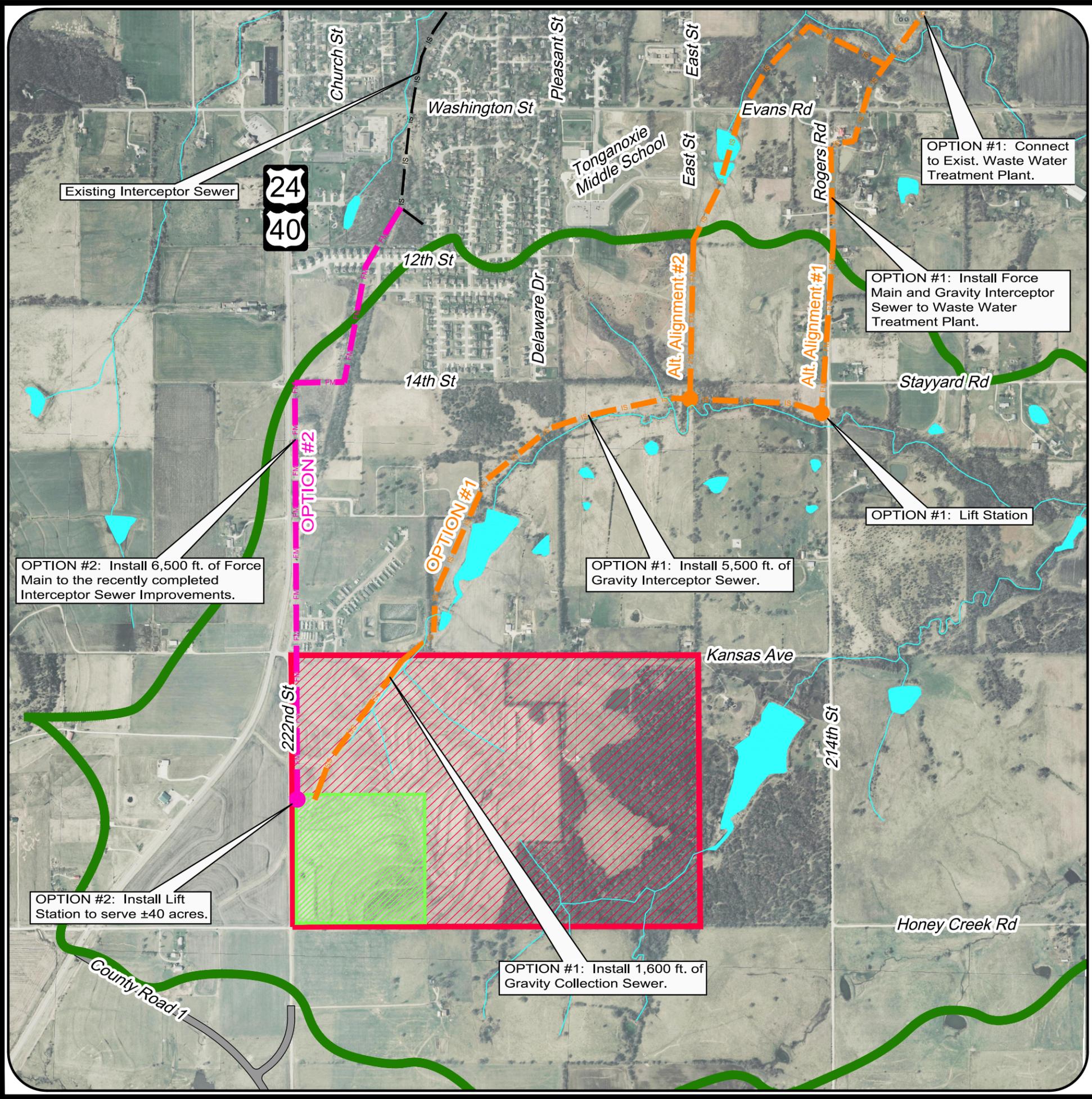


Industrial Park Improvements

Waterline Analysis



Project #: 11-1001L
Date: 08-08-11



| OPTION #1 | |
|--|------------------------|
| Sewer Infrastructure | Estimated Project Cost |
| - 1,600' of 8" Collection Sewer in Industrial Park | \$2,500,000 |
| - 5,500' of Interceptor Sewer north of Industrial Park | |
| - Lift Station with 1,650' Force Main @ Rogers Rd | |
| - 2,900' of Interceptor Sewer directly to WWTP | |

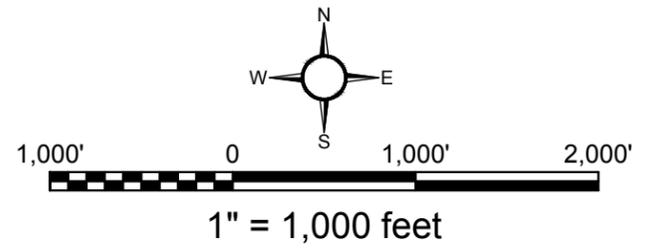
NOTE: Property Acquisition Costs are not included within these estimates.

| OPTION #2 | | | | |
|-----------------------|--------------------|--------------------|------------------------|---------------|
| Force Main (Diameter) | Minimum Flow (gpm) | Maximum Flow (gpm) | Estimated Project Cost | |
| | | | City Forces | Contracted |
| 3" | 45 | 135 | \$ 210,000.00 | \$ 280,000.00 |
| 4" | 80 | 275 | \$ 350,000.00 | \$ 400,000.00 |
| 6" | 175 | 800 | \$ 390,000.00 | \$ 440,000.00 |

- NOTES:
1. Minimum Flow is based upon the KDHE required minimum velocity of 2 fps.
 2. Maximum Flow is based on a maximum estimated pressure of 150 psi.
 3. Estimated Project Cost include wet well and pumps for lift station.
 4. Property Acquisition Costs are not included within these estimates.

LEGEND

- Tonganoxie Industrial Park Boundary
- ±40 acres within the Industrial Park
- Watershed Boundary (Ridge Line)
- IS — IS — Existing Interceptor Sewer
- SS — SS — Option #1 Sanitary Sewer Concept Alignment
- IS — IS — Option #1 Interceptor Sewer Concept Alignment
- FM — FM — Option #1 Force Main Concept Alignment
- FM — FM — Option #2 Force Main Concept Alignment



Industrial Park Improvements Sanitary Sewer Analysis



Project #: 11-1001L
Date: 08-08-11