

2025 – 2030 Streets, Sidewalks and Stormwater Bond

Detail and Schedule of Proposed Work

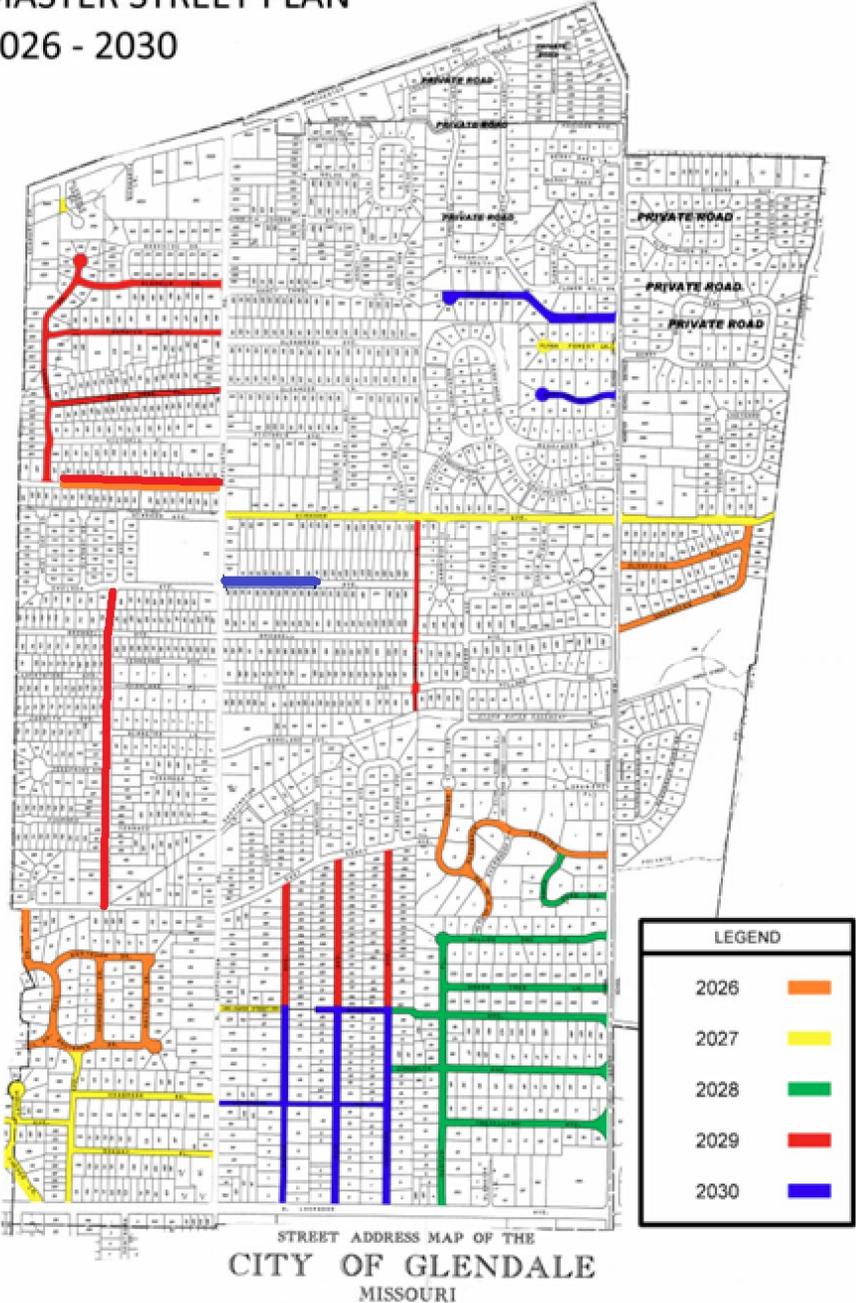
5-Year Street Improvement Plan

- Reconstruction of 33 streets.
- Mill and overlay 6 streets.
- 3 stormwater improvement projects.
- Repair or Reconstruction of sidewalks along 10 streets.
- Construction of new sidewalks along 3 streets.
- Reconstruction of 8 ADA sidewalk ramps.

Total Cost: \$18,178,000

Estimated cost per household:

- \$0.35 per \$1,000 of assessed valuation.
- Approximately \$199/year for a \$300,000 home.
- Approximately \$16.63/month, per household.



Street Improvements

2 Categories:

Reconstructions

- Asphalt curbing replaced with concrete curbing.
- 2-inch pavement milling and asphalt overlay with concrete curb
- 3-inch pavement milling and asphalt overlay with concrete curb
- 2 and/or 3-inch pavement milling, asphalt overlay, full-depth repairs, and concrete curb

Maintenance

- Microsealing
- Crackseal with microseal
- Crackseal, microseal, and pavement markings
- 2-inch mill and asphalt overlay
- Concrete slab replacements

*depth of asphalt replacement determined by Paser score and condition of pavement at time of improvement.

Sidewalk Improvements

3 Categories:

Reconstruction

- Removal and replacement of all existing sidewalks along the street section
- Would include construction of ADA compliant ramps

Repair/Maintenance

- As-needed replacement or repair of stressed sidewalk slabs
- Replacement of sidewalk ramps to comply with current ADA standards

New Construction

- Construction of sidewalks in new locations
- Can be funded by bond or can be funded by future STP projects
- Can be omitted from the plan

Stormwater Improvements

- 3 projects selected from Stormwater Master Plan
- P009 – Alexandra Ave Storm Sewer
- P014C – Berry Oaks Inlet Replacement
- P017 – Clif Side Dr Storm Sewer

Proposed Improvements

Year 1 - 2026

Street Reconstructions:

- Hill Dr, Park Ave to E. Essex Ave
- Northarm Dr, Armstrong Dr to Halcyon Dr
- Southarm Dr, Armstrong Dr to Halcyon Dr
- Armstrong Dr, Hill Dr to Hill Dr
- Halcyon Dr, Northarm Dr to Southarm Dr
- Greenview Dr, N. Berry Rd to Kirkham Ave
- Glenvista Pl, N. Berry Rd to Greenview Dr

Pavement Maintenance:

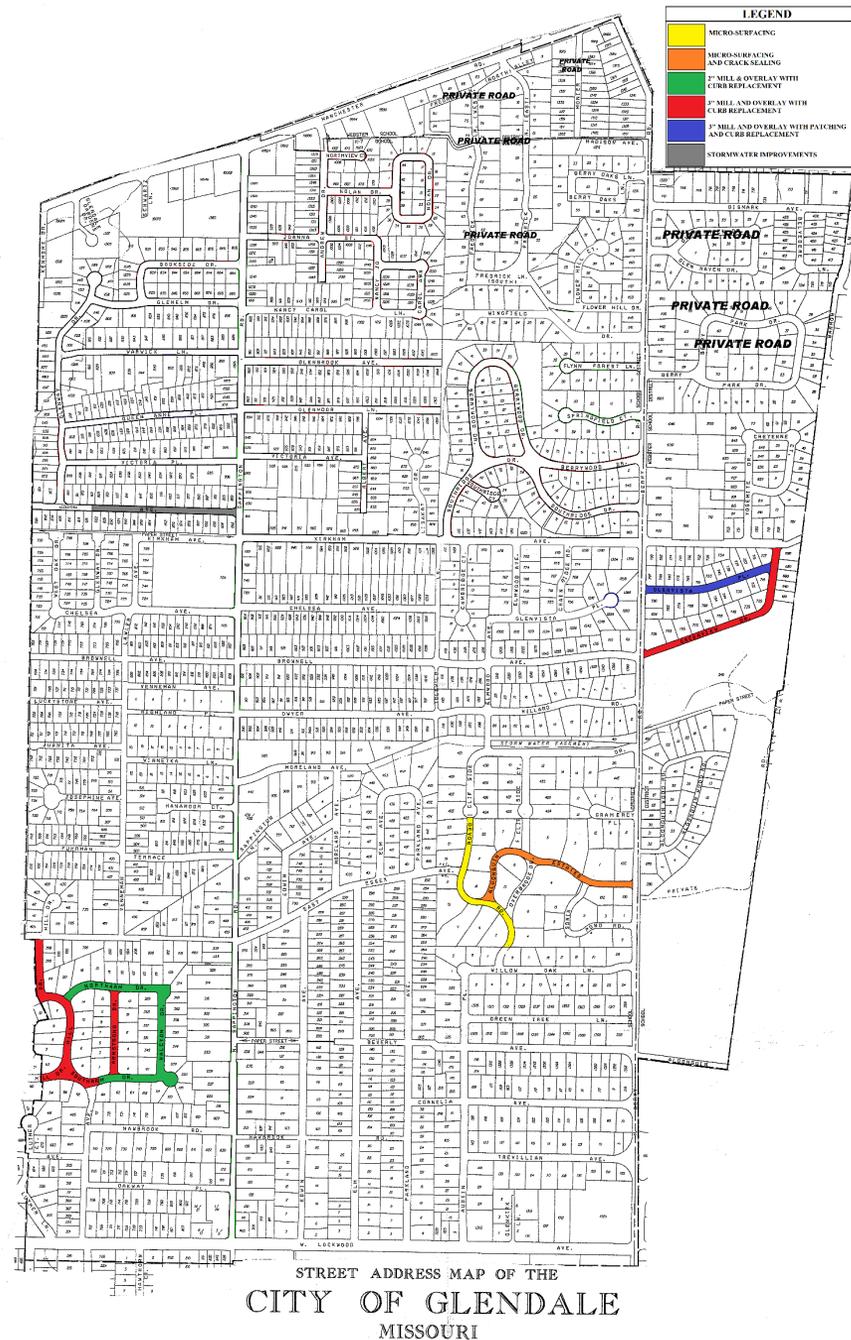
- Devon Rd & Algonquin Est, Devon Rd to N. Berry Rd

Estimated Cost: \$2,610,843

Stormwater Improvement Project:

- Alexandra Ave: N. Sappington Rd to 818 Alexandra Ave

Estimated Cost: \$487,886



Proposed Improvements

Year 2 - 2027

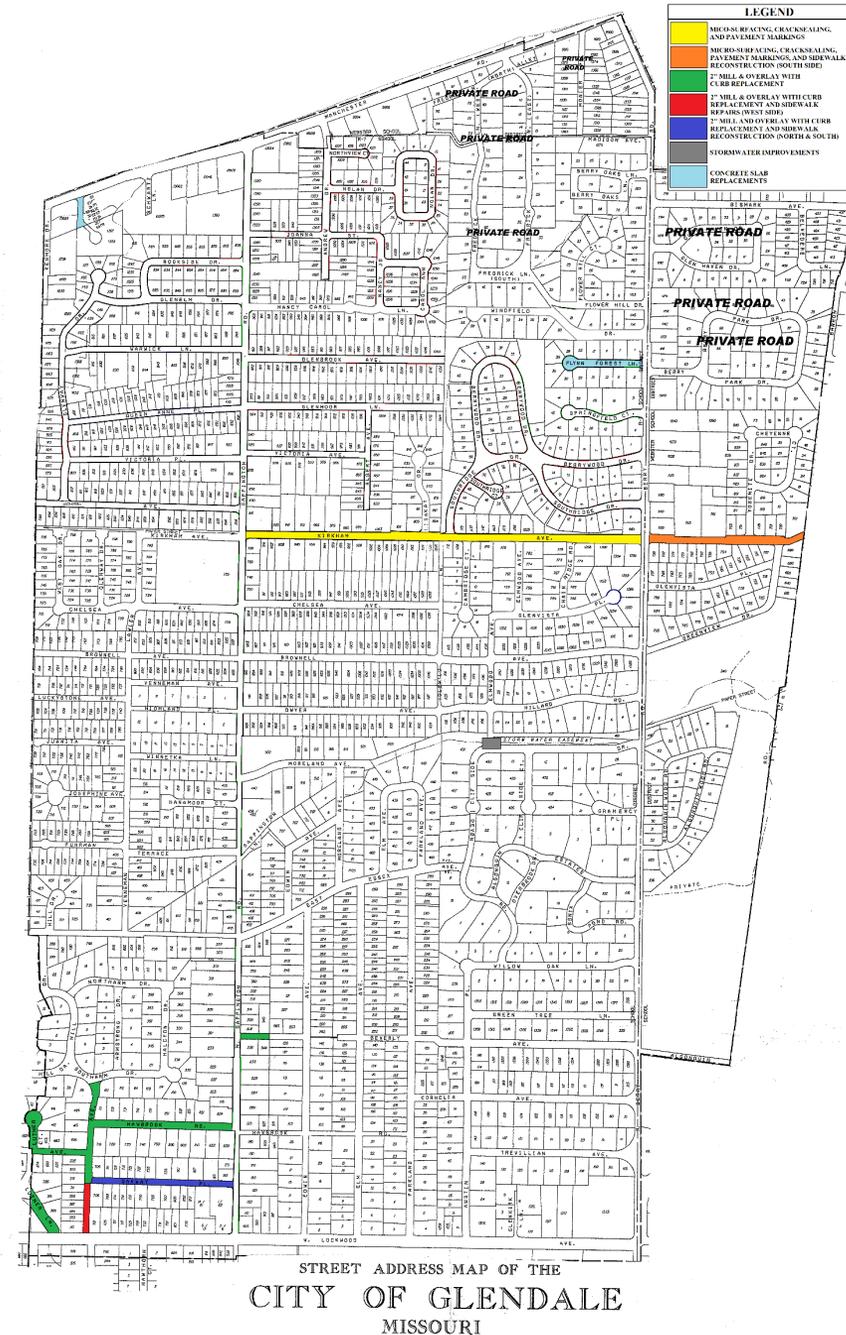
Street Reconstructions:

- **Luther Lane**, Lockwood Ave to cul-de-sac
- **Hawbrook Rd**, N. Sappington Rd to city limit
- **Oakway Pl**, N. Sappington Rd to Park Ave
- **Park Ave**, Lockwood Ave to Armstrong Dr
 - includes sidewalk repairs along west side of street, W. Lockwood Ave to Oakway Pl
- **Beverly Dr**, N. Sappington to dead end

Pavement Maintenance:

- **Kirkham Ave**, N. Sappington Rd to city limit
- **Glendale Gardens Dr**, Manchester Rd to end
- **Flynn Forrest Ln**, N. Berry Rd to cul-de-sac

Estimated Cost: \$1,873,052



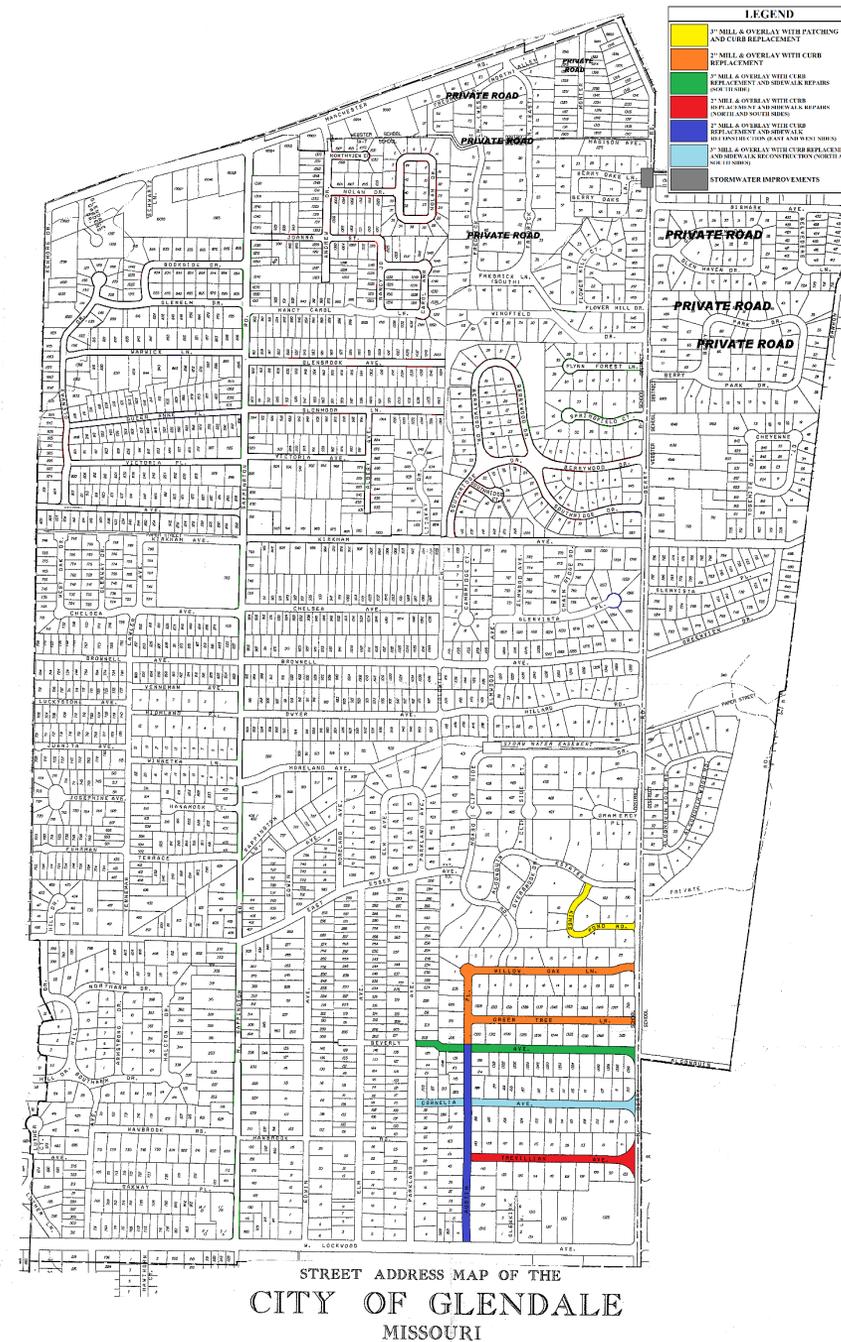
Proposed Improvements

Year 3 - 2028

Street Reconstructions:

- **Willow Oak Lane**, N. Berry Rd to Austin Pl
- **Green Tree Lane**, N. Berry Rd to Austin Pl
- **Beverly Ave**, N. Berry Rd to Parkland Ave
 - includes sidewalk repairs along south side of street, N. Berry Rd to Austin Pl
- **Cornelia Ave**, N. Berry Rd Parkland Ave
 - includes sidewalk reconstruction along north and south sides of street
- **Trevillian Ave**, N. Berry Rd to Austin Pl
 - includes sidewalk repairs along north and south sides of the street.
- **Austin Place**, W. Lockwood Ave to Willow Oak Ln
 - includes sidewalk reconstruction along east side of street, W. Lockwood Ave to Cornelia Ave
 - includes sidewalk reconstruction along west side of street, Cornelia Ave to Beverly Ave
- **Kings Pond Rd**, Algonquin Est to N. Berry Rd

Estimated Cost: \$3,393,840



Proposed Improvements

Year 4 - 2029

Street Reconstructions:

- **Idlewild Ln**, Kirkham Ave to Chelsea Ave
- **Edwin Ave**, E. Essex to Beverly Ave
- **Elm Ave**, E. Essex to Beverly Ave
- **Parkland Ave**, E. Essex to Beverly Ave

Pavement Maintenance:

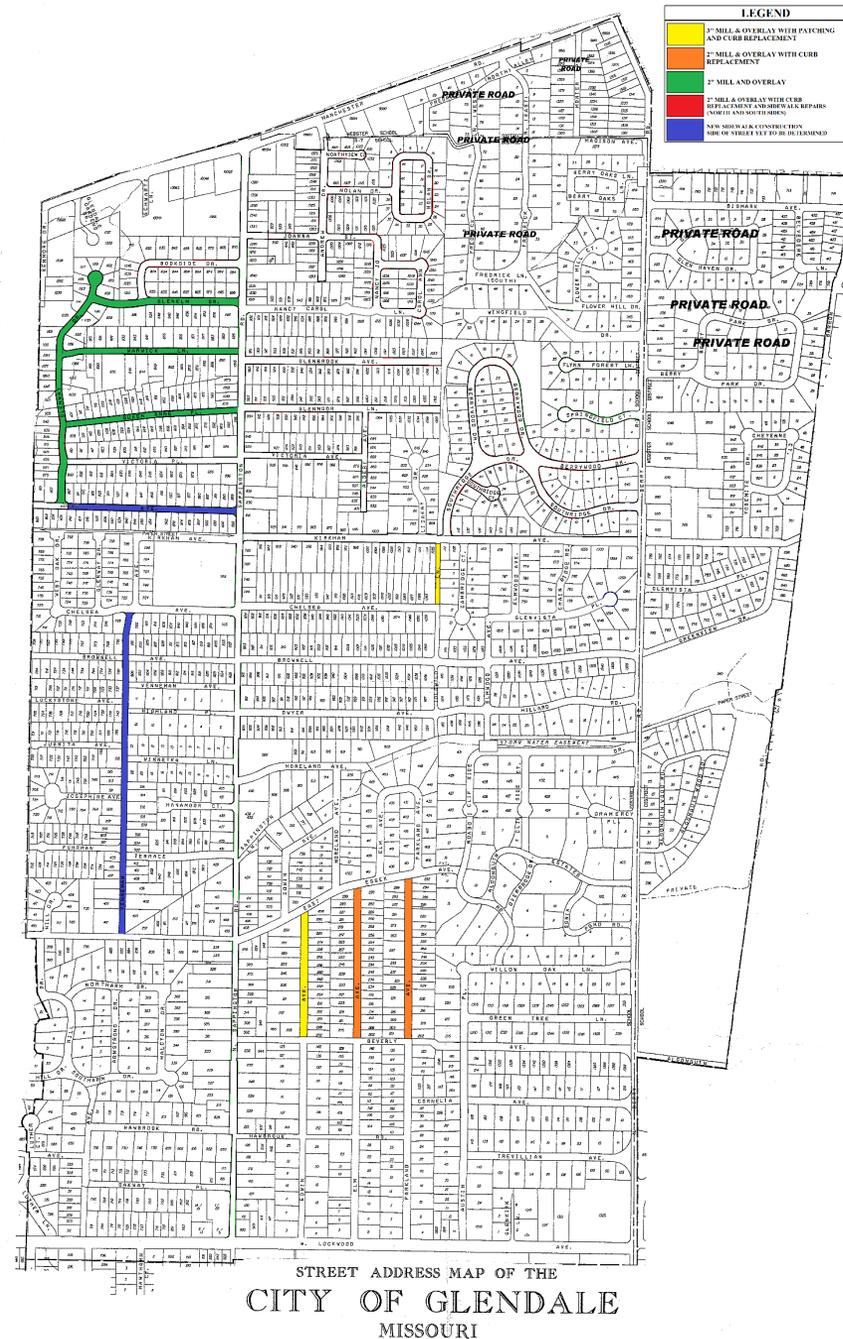
- **Glen Elm Dr**, N. Sappington Rd to Glenway Dr
- **Warwick Ln**, N. Sappington Rd to Glenway Dr
- **Queen Anne Pl**, N. Sappington Rd to Glenway Dr
- **Glenway Dr**, Alexandra Ave to cul-de-sac

Estimated Cost: \$2,458,351

New Sidewalk Construction:

- **Alexandra Ave**, N. Sappington Rd to 805 Alexandra Ave. Side of street TBD
- **Venneman Ave**, E. Essex Ave to Chelsea Ave. Side of street TBD

Estimated Cost: \$2,103,000



Proposed Improvements

Year 5 – 2030

Street Reconstructions:

- **Beverly Ave**, Parkland Ave to Edwin Ave
- **Hawbrook Rd**, N. Sappington to Parkland Ave
- **Edwin Ave**, Beverly Ave to W. Lockwood Ave

-includes sidewalk reconstruction along east and west sides of the street, W. Lockwood Ave to Hawbrook Ave

- **Elm Ave**, Beverly Ave to W. Lockwood Ave

-includes sidewalk repair along east side of street, W. Lockwood Ave to 12 Elm Ave

- **Parkland Ave**, Beverly Ave to W. Lockwood Ave

Pavement Maintenance:

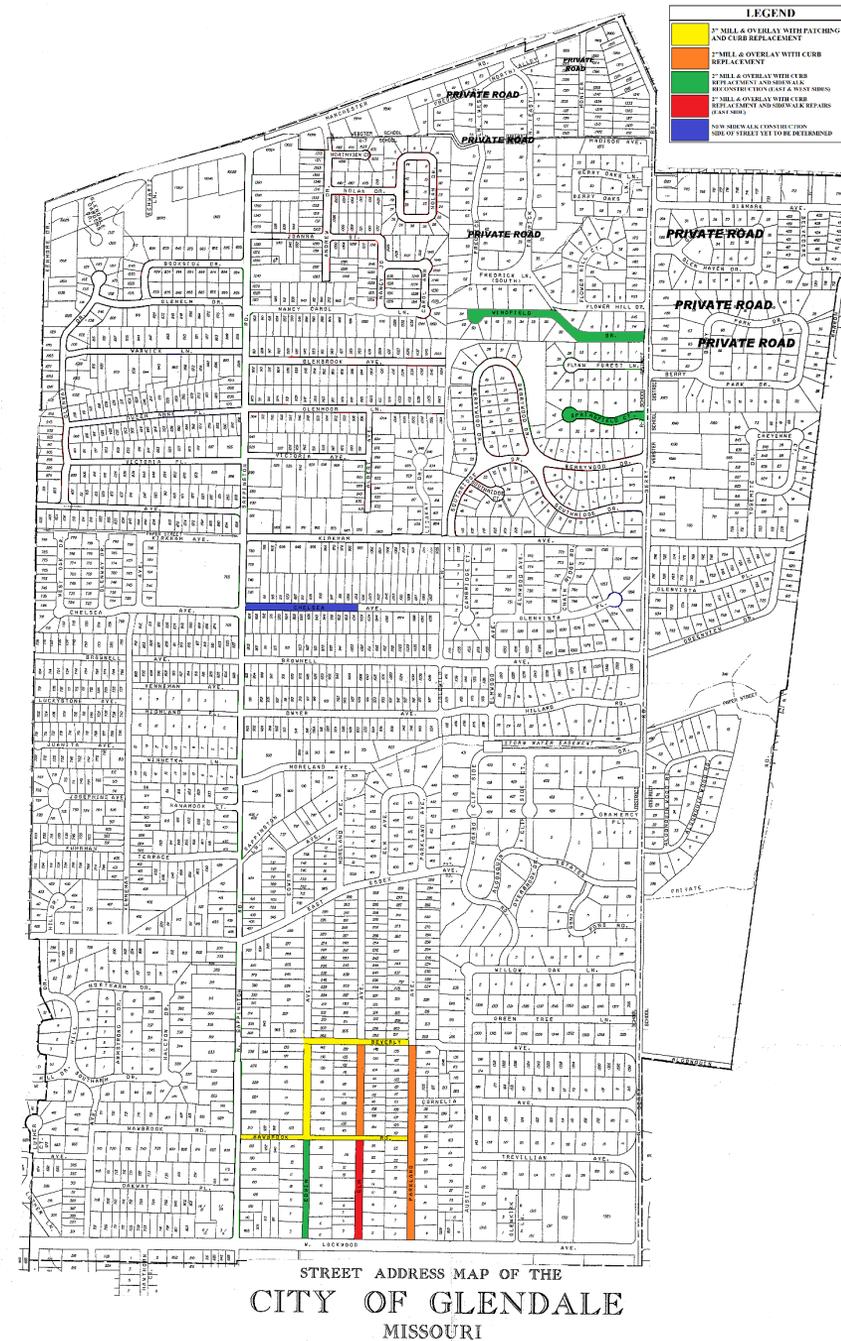
- **Wingfield Rd**, N. Berry Rd to cul-de-sac
- **Springfield Ct**, N. Berry Rd to cul-de-sac

Estimated Cost: \$2,642,680

New Sidewalk Construction:

Chelsea Ave: North and south sides of the street from N. Sappington Rd to 1013-1014 Chelsea Ave

Estimated Cost: \$1,090,000



Sidewalk Reconstruction

STREET	SIDE	BEGIN	END	YEAR	BOND YEAR	COST ESTIMATE
Austin Place	East	Lockwood Ave	Beverly Ave	2028	3	\$143,000
Austin Place	West	Cornelia Ave	Beverly Ave	2028	3	\$40,000
Cornelia Ave	North	Austin Place	N. Berry Rd	2028	3	\$135,000
Cornelia Ave	South	Austin Place	N. Berry Rd	2028	3	\$136,000
Edwin Ave	East	Lockwood Ave	Hawbrook Rd	2023	5	\$86,000
Edwin Ave	West	Lockwood Ave	Hawbrook Rd	2023	5	\$86,000
Oakway Place	North	N. Sappington Rd	Park Ave	2027	2	\$112,000
Oakway Place	South	N. Sappington Rd	Park Ave	2027	2	\$112,000
Kirkham Ave	South	N. Berry Rd	Greenview Dr	2027	2	\$94,000

Sidewalk Maintenance/Repair

STREET	SIDE	BEGIN	END	YEAR	BOND YEAR	COST ESTIMATE
Beverly Ave	South	N. Berry Rd	Austin Place	2028	3	\$27,000
Elm Ave	East	Lockwood Ave	12 Elm Ave	2030	5	\$10,000
Park Ave	West	Lockwood Ave	Oakway Place	2027	2	\$9,000
Trevillian Ave	North	N. Berry Rd	Austin Place	2028	3	\$23,000
Trevillian Ave	South	N. Berry Rd	Austin Place	2028	3	\$23,000

New Sidewalk Construction

STREET	SIDE	BEGIN	END	YEAR	BOND YEAR	COST ESTIMATE
Chelsea Ave	North & South	N. Sappington Rd	1013/1014 Chelsea Ave	2030	5	\$1,090,000
Alexandra Ave	TBD	N. Sappington Rd	805 Alexandra Ave	2029	4	\$834,000
Venneman Ave	TBD	E. Essex Ave	Chelsea Ave	2029	4	\$1,269,000

Stormwater Improvements

P009 – Alexandra Ave Storm Sewer

Project # P009 Alexandra Ave Storm Sewer (From Sappington Road to Glenway Drive)

Construct 1,000 LF of 24-inch storm sewer and inlets.
The project will benefit 35 properties and no permanent easement will be required.

Storm Water Project Summary of Quantities and Engineer's Cost Estimate

Project Name: Alexandra Ave Storm Sewer (From Sappington Road to Glenway Drive)
Project Number: P009

Pay Item	Item Description	Unit	Unit Cost	Quantity	Extended Cost
418000000000ST	Inlet - Street	EA	\$2,050	5	\$10,250
412000240000ST	Pipe Sewer 24" (Storm)	LF	\$105	1005	\$105,517
3H50000000000C	Excavation	CY	\$28	933	\$26,119
41130000000000	Granular Backfill	CY	\$55	911	\$50,107
9D400000000000	Street Pavement - Asphaltic Concrete Rem. and Rep.	SY	\$85	1442	\$122,575
Subtotal:					\$314,562
1G6a00000000MOBX	Mobilization	LS	3.5%	1	\$11,010
8H000000000000	Protection and Restoration	LS	14%	1	\$44,039
Subtotal:					\$55,048
Construction Costs:					\$369,611
	Engineering	LS	20%	1	\$73,922
	Contingency	LS	10%	1	\$44,353
Total Costs:					\$487,886

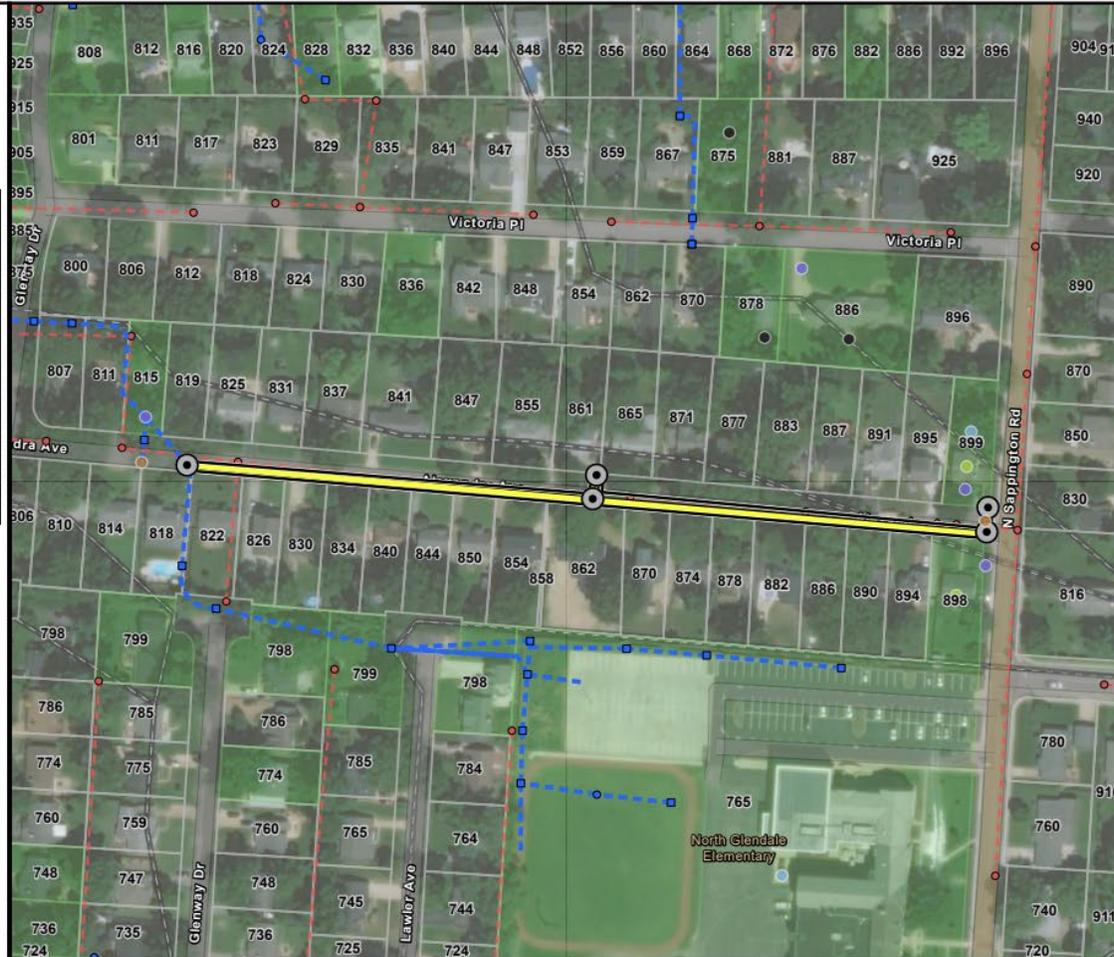


Legend

- Inlet-Street
- Street Pavement
- Pipe Sewer 24" (Storm)
- Existing Storm Water Manhole
- Existing Storm Water Inlet
- Existing Stormwater Network
- Existing Sewer Manhole
- Existing Sanitary Sewer Network

Problem Identification (PID)

- Backyard Flooding
- Basement Backups
- Driveway or Private Roadway Flooding
- Main Structure Building Flooding
- Public Roadway Flooding
- Storm Survey Parcels, House #
- Drainage Areas and Subwatersheds



7/6/2022



0 50 100 200 Feet

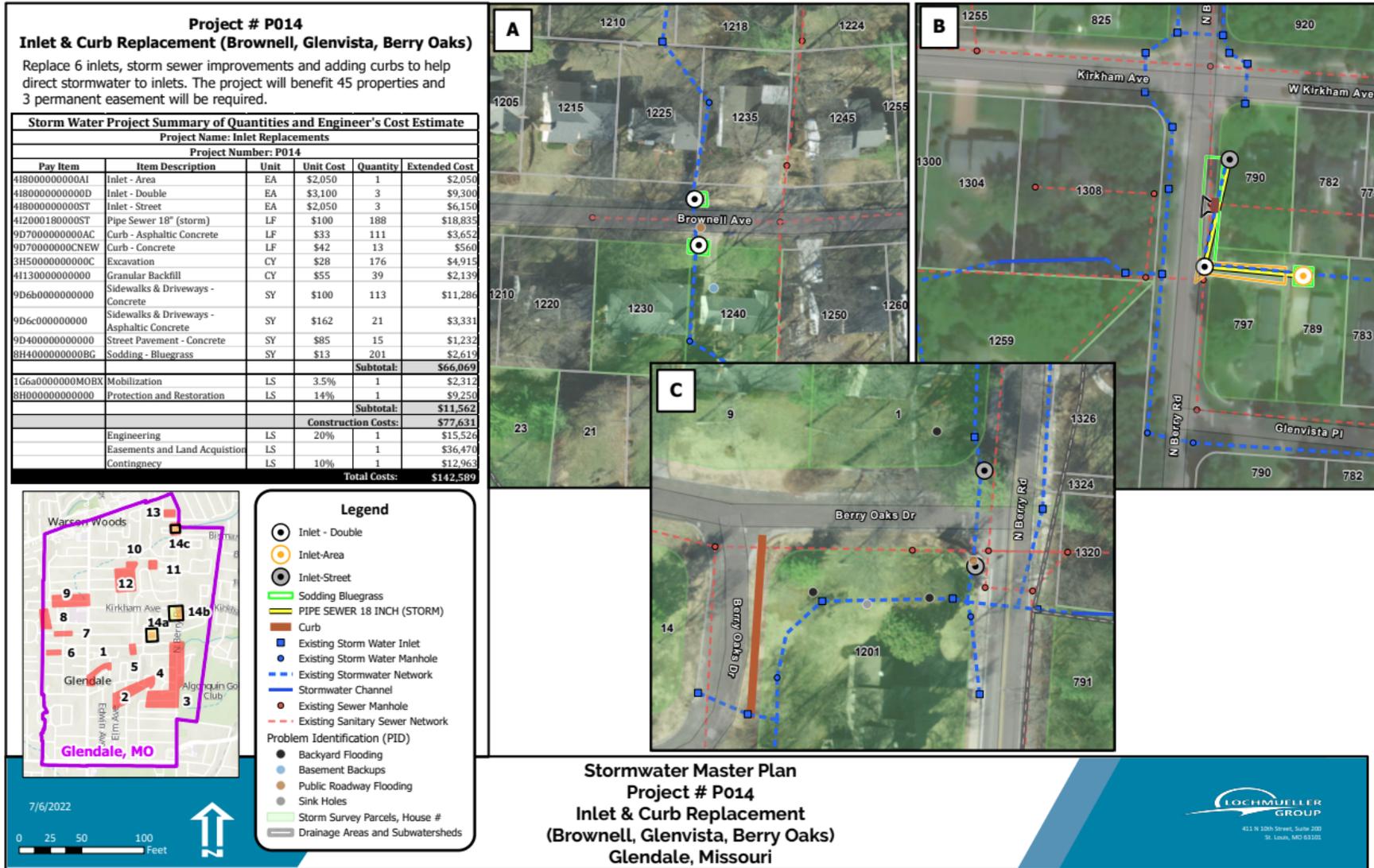
Stormwater Master Plan
Project # P009
Alexandra Ave Storm Sewer
(From Sappington Road to Glenway Drive)
Glendale, Missouri



P009 – Alexandra Ave Storm Sewer

- Construct 1,000 LF of 24-inch storm sewer and inlets. The project will benefit 35 properties, and no permanent easement will be required.
- Estimated Construction Cost: \$487,886
- Proposed Construction in 2026 (Year 1 of Bond)

P014C – Berry Oaks Inlet Replacement



P014C – Berry Oaks Inlet Replacement

- Replace inlet and construct curb to direct water away from 1 property. No permanent easements required.
- Estimated Construction Cost: \$15,000
- Proposed Construction in 2028 (Year 3 of Bond)

P017 – Clif Side Dr Storm Sewer

Project # P017 Clif Side Dr Storm Sewer

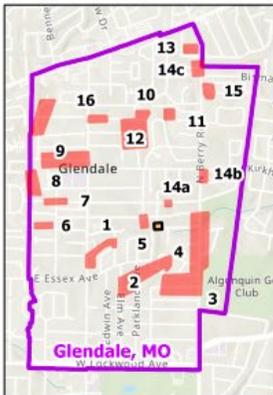
Install 135 LF of 60 in storm sewer parallel to existing 54 in storm sewer. The project will benefit one property and one permanent easement will be required.

Storm Water Project Summary of Quantities and Engineer's Cost Estimate

Project Name: Clif Side Dr Storm Sewer

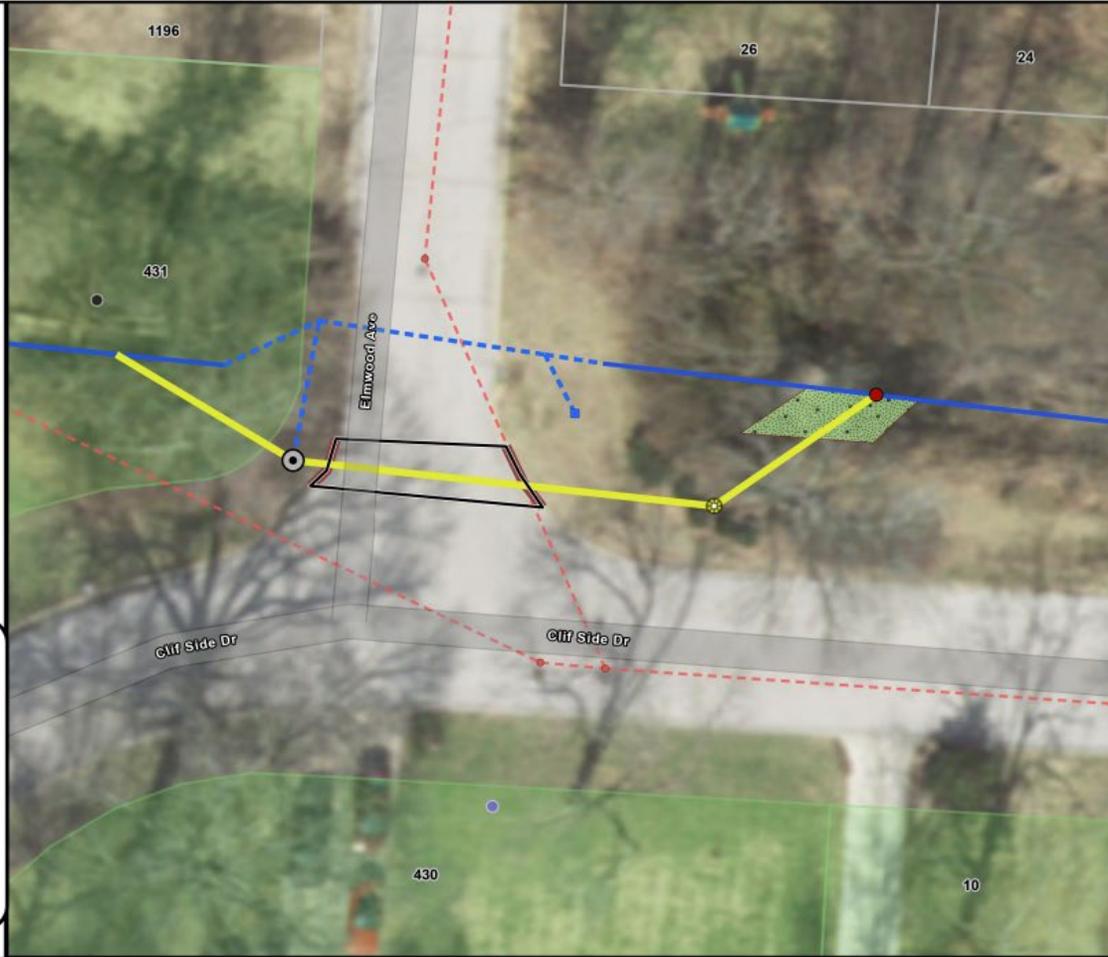
Project Number: P017

Pay Item	Item Description	Unit	Unit Cost	Quantity	Extended Cost
4160000000000	Manhole	LF	\$335	10	\$3,350
4180000000000	Inlet - Street	EA	\$2,050	1	\$2,050
4120003000000ST	Pipe Sewer 60" [storm]	LF	\$300	135	\$40,500
6j800060000000	Connection to Channel 60 Inch Pipe	PLC	\$9,000	1	\$9,000
3H50000000000C	Excavation	CY	\$28	420	\$11,760
41130000000000	Granular Backfill	CY	\$55	78	\$4,278
9D5c0000000000	Street Pmnt - Asphl Conc Surf & Righd Base - Rem & Rep	SY	\$95	300	\$28,500
6j60000000000RLX	Rock Lining	SY	\$78	200	\$15,600
6F50000000000BIOX	Bank Protection - Biostabilization	SY	\$60	200	\$12,000
9D70000000000C	Curb - Concrete Rem. and Rep.	LF	\$50	14	\$700
8H40000000000BG	Sodding - Bluegrass	SY	\$13	233	\$1,370
				Subtotal:	\$129,107
1G6a000000000MOBX	Mobilization	LS	3.5%	1	\$4,519
8H000000000000	Protection and Restoration	LS	14%	1	\$18,075
				Subtotal:	\$22,594
				Construction Costs:	\$151,701
	Engineering	LS	20%	1	\$30,340
	Easements and Land Acquisition	LS		1	\$18,120
	Contingency	LS	10%	1	\$18,204
				Total Costs:	\$219,000



Legend

- MANHOLE - STANDARD CONSTRUCTION
- Inlet-Street
- CONNECTION TO CHANNEL 60 INCH PIPE
- Street Pavement
- PIPE SEWER 60 INCH (STORM)
- BANK PROTECTION - BIOSTABILIZATION
- CURB - CONCRETE
- Existing Storm Water Inlet
- Existing Stormwater Network
- Stormwater Channel
- Existing Sewer Manhole
- Existing Sanitary Sewer Network



8/29/2024

Stormwater Master Plan
Project # P017
Clif Side Dr Storm Sewer
Glendale, Missouri



P017 – Clif Side Dr Storm Sewer

- Install 135 feet of 60-inch storm sewer parallel to existing 54-inch storm sewer. The project benefits 1 property and 1 permanent easement will be required.
- Estimated Construction Cost: \$219,000
- Proposed Construction in 2027 (Year 2 of Bond)

Comprehensive Street Maintenance Plan

Street work performed within the Bond timeframe in addition to the work contained in the Bond and funded by the city's Capital Improvement Program

Additional Street Work Includes:

- Asphalt curbing replacement and Nova Chip street overlay in 2025 along Luckystone Ave, Juanita Ave, Josephine Ave, Hanamoor Ct, Winnetka Lane, 700 & 800 blocks of Fuhrmann Terrace, and 400 block of Hill Dr.
- Reconstruction of E. Essex Ave through STP program. 2025 & 2026
- N. Sappington Rd Preservation Project. 2027
- Application for Federal Aid – E. Essex Ave Phase 2, 2025
- Application for reclassification – Venneman Ave, 2026
- Continuation of Crackseal/Sealcoat program.

Comprehensive Street Improvement and Maintenance 2025-2030

The map to the right indicates the location and schedule of all street reconstruction and maintenance activities between 2025 & 2030.

