

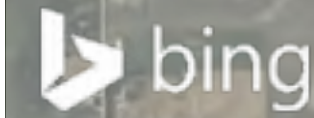
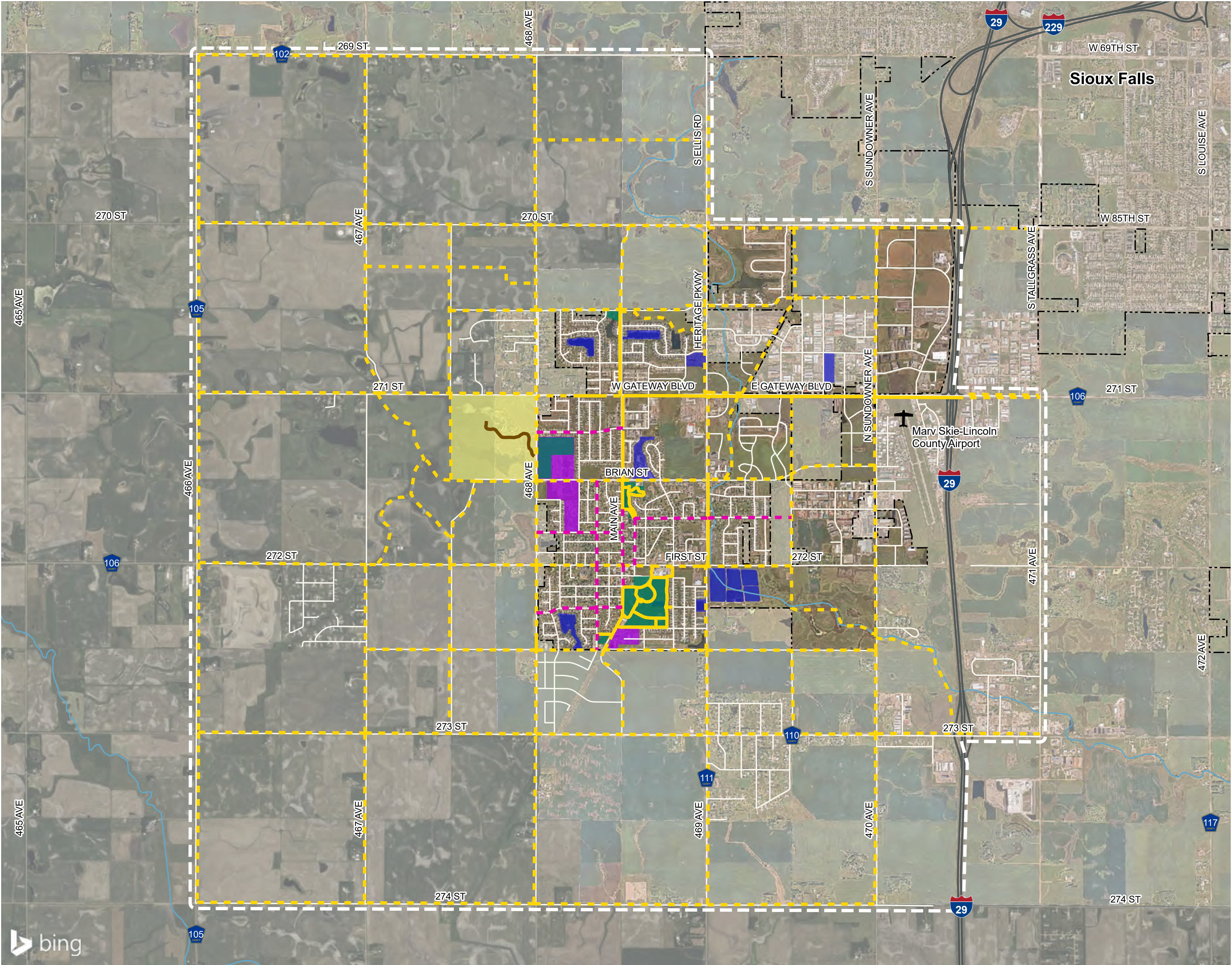
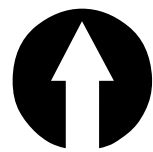
BICYCLE AND PEDESTRIAN NETWORK PLAN



Bicycle and Pedestrian Network Plan (Study Area Focus)

- Study Area
- City Limits
- Existing Shared Use Path
- Future Shared Use Path
- Future Bikeway
- Atkins Interpretive Trail (USFWS)
- Atkins Waterfowl Production Area
- Park
- School
- Detention Pond

0 0.5 Miles

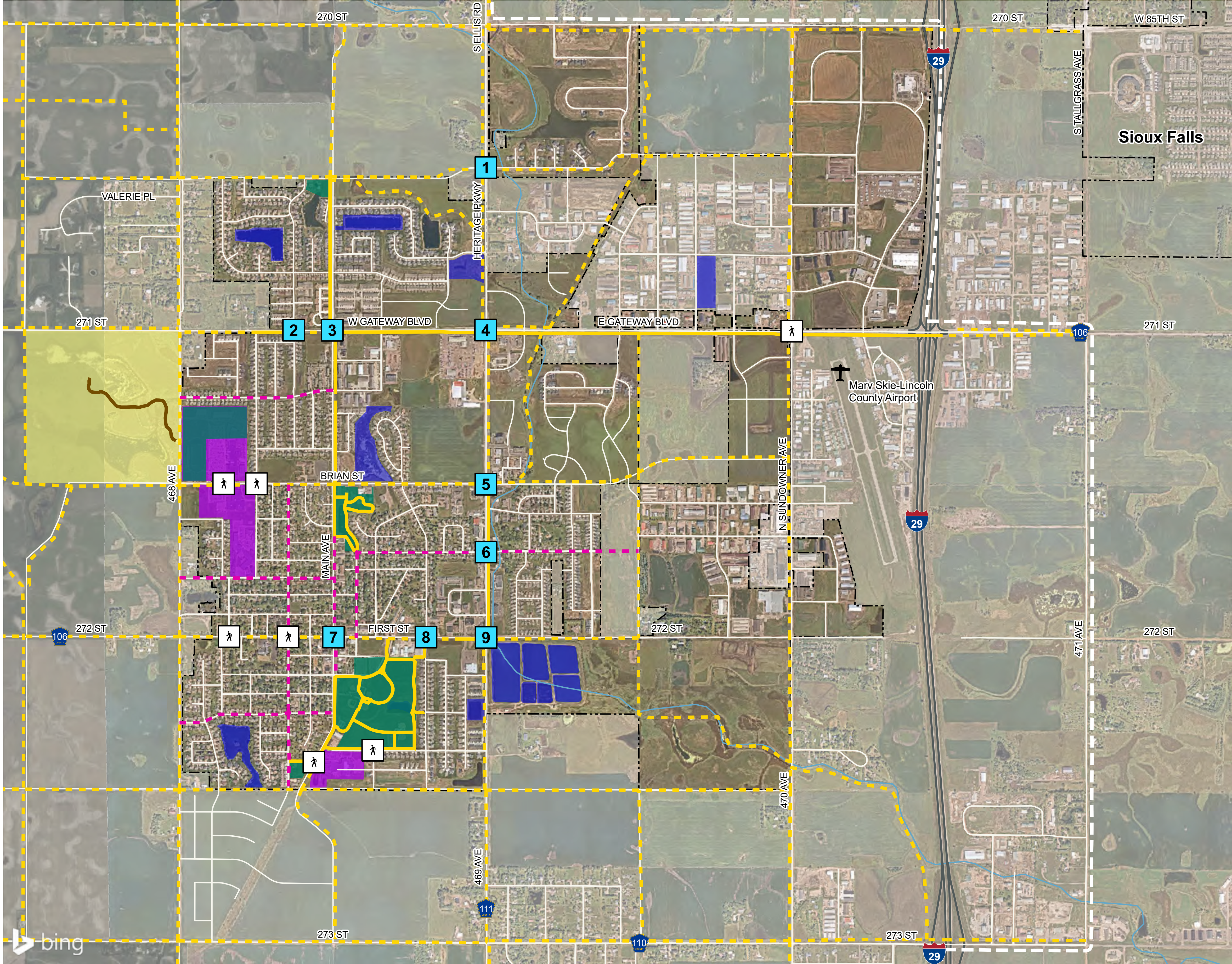


PEDESTRIAN CROSSING IMPROVEMENTS

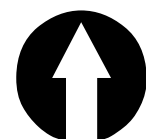


Recommended Bicycle and Pedestrian Crossing Improvement Locations

- Study Area
- City Limits
- Existing Pedestrian Crossing
- Crossing Improvement Needed
- Existing Shared Use Path
- Future Shared Use Path
- Future Bikeway
- Atkins Interpretive Trail (USFWS)
- Atkins Waterfowl Production Area
- Park
- School
- Detention Pond



0 0.5 Miles



BICYCLE AND PEDESTRIAN PROJECTS



CORRIDOR	LIMITS	PROJECT TYPE	AREA	LENGTH (MI)	PRIORITY	COST (2025 \$M)	COST (YOE \$M)
Gateway Boulevard	Heritage Parkway to Kerslake Greenway	Shared Use Path	Core	0.2	Short-Term	\$0.2	\$0.3
Kerslake Greenway	Gateway Boulevard to Madison Street	Shared Use Path	Core	0.6	Short-Term	\$0.4	\$0.5
Ninemile Creek	Gateway Boulevard to Brian Street	Shared Use Path	Core	0.6	Mid-Term	\$0.4	\$ 0.6
Heritage Addition Greenway	Main Avenue to Heritage Parkway	Shared Use Path	Core	0.6	Mid-Term	\$0.4	\$ 0.6
Madison Street	Heritage Parkway to Kerslake Greenway	Shared Use Path	Core	0.5	Mid-Term	\$0.4	\$ 0.6
Serenity Park Trail	Gateway Boulevard to Brian Street	Shared Use Path	Core	0.5	Mid-Term	\$0.4	\$ 0.6
Main Avenue	Existing path to 9th Street	Shared Use Path	Core	0.2	Mid-Term	\$0.2	\$0.3
Kerslake Greenway	Madison Street to 85th Street	Shared Use Path	Core	0.5	Mid-Term	\$0.4	\$ 0.6
Ninemile Creek	First Street to Sundowner Avenue	Shared Use Path	Core	0.9	Long-Range	\$ 0.6	\$1.1
Ninemile Creek	Sundowner Avenue to 273rd Street (via Ninemile Creek)	Shared Use Path	Southeast	0.9	Long-Range	\$ 0.6	\$1.1
9th Street	Heritage Parkway to Sundowner Avenue	Shared Use Path	Core	1.0	Long-Range	\$ 0.7	\$1.3
Brian Street	468th Avenue to Heritage Parkway	Shared Use Path	Core	1.0	Long-Range	\$ 0.7	\$1.3

CORRIDOR	LIMITS	PROJECT TYPE	AREA	LENGTH (MI)	PRIORITY	COST (2025 \$)	COST (YOE)
5th Street	468th Avenue to Main Avenue	Bikeway	Core	0.5	Mid-Term	\$0.1	\$0.2
Charish Street	468th Avenue to Main Avenue	Bikeway	Core	0.5	Mid-Term	\$0.1	\$0.2
Highpointe Street	468th Avenue to Main Avenue	Bikeway	Core	0.5	Mid-Term	\$0.1	\$0.2
Joseph Avenue	Kevin Drive to First Street	Bikeway	Core	0.3	Mid-Term	\$0.1	\$0.2
Kevin Drive	Joseph Avenue to Katie Avenue	Bikeway	Core	0.9	Mid-Term	\$0.2	\$0.4
Main Avenue	Carrol Street to 3rd Street	Bikeway	Core	0.5	Mid-Term	\$0.1	\$0.2
Poplar Avenue	Brian Street to 9th Street	Bikeway	Core	1.0	Mid-Term	\$0.2	\$0.4

BICYCLE AND PEDESTRIAN PROJECTS



CORRIDOR	LIMITS	PROJECT TYPE	AREA	LENGTH (MI)	PRIORITY	CORRIDOR PROJECT
85th Street	Sundowner Avenue to I-29	Shared Use Path	Northeast	0.5	Short-Term	B
Sundowner Avenue	85th Street to Gateway Boulevard	Shared Use Path	Core	1.0	Short-Term	C
9th Street	Main Avenue to Heritage Parkway	Shared Use Path	Core	0.5	Short-Term	D
Main Avenue	Alberta Trail to Quinton Street	Shared Use Path	Core	0.2	Short-Term	E
Heritage Parkway	Gateway Boulevard to First Street	Shared Use Path	Core	1.0	Short-Term	F
273rd Street	I-29 Exit 71 Interchange	Shared Use Path	Southeast	0.3	Short-Term	C (others)
Veterans Parkway	I-29 Exit 73 Interchange to Tallgrass Avenue	Shared Use Path	Southeast	0.9	Short-Term	B (others)
Heritage Parkway	85th Street to Gateway Boulevard	Shared Use Path	Core	1.0	Mid-Term	G
Heritage Parkway	First Street to 9th Street	Shared Use Path	Core	0.5	Mid-Term	H
468th Avenue	Gateway Boulevard to 9th Street	Shared Use Path	Core	1.6	Mid-Term	K, L
Gateway Boulevard	468th Avenue to Cole Avenue	Shared Use Path	Core	0.3	Mid-Term	M
Brian Street	Heritage Parkway to Sundowner Avenue	Shared Use Path	Core	1.0	Mid-Term	N
Madison Street	Thompson Avenue to Sundowner Avenue	Shared Use Path	Northeast	0.5	Mid-Term	O
Quinton Street	468th Avenue to Heritage Parkway	Shared Use Path	Northwest	1.0	Mid-Term	I, J, X
Main Avenue	85th Street to Quinton Street	Shared Use Path	Northwest	0.5	Mid-Term	P
85th Street	Heritage Parkway to Sundowner Avenue	Shared Use Path	Northeast	1.0	Long-Range	Q
270th Street	468th Avenue to Heritage Parkway	Shared Use Path	Northwest	1.0	Long-Range	CC
468th Avenue	85th Street to Gateway Boulevard	Shared Use Path	Northwest	1.0	Long-Range	U
468th Avenue	9th Street to 273rd Street	Share Use Path	Southwest	0.5	Long-Range	V
273rd Street	468th Avenue to I-29 Exit 71 Interchange	Shared Use Path	Southeast/ Southwest	2.6	Long-Range	GG, HH
Heritage Parkway	9th Street to 273rd Street	Shared Use Path	Southeast	0.5	Long-Range	W
Sundowner Avenue	Gateway Boulevard to 273rd Street	Shared Use Path	Core/ Southeast	2.0	Long-Range	S, T
272nd Street	466th Avenue to 468th Avenue	Shared Use Path	Southwest	2.0	Long-Range	DD
First Street	468th Avenue to Katie Avenue	Shared Use Path	Core	1.4	Long-Range	AA, BB
9th Street	468th Avenue to Main Avenue	Shared Use Path	Core	0.5	Long-Range	EE
Katie Avenue	Brian Street to First Avenue	Shared Use Path	Core	0.5	Long-Range	R

BICYCLE AND PEDESTRIAN PROJECTS



CORRIDOR	LIMITS	PROJECT TYPE	AREA	LENGTH (MI)	PRIORITY	COST (2025 \$)	COST (YOE)
269th Street	466th Avenue to 468th Avenue	Shared Use Path	Northwest	2.0	Long-Range	\$1.3	\$2.4
270th Street	466th Avenue to 468th Avenue	Shared Use Path	Northwest	2.0	Long-Range	\$1.3	\$2.4
271st Street	466th Avenue to 468th Avenue	Shared Use Path	Northwest	2.0	Long-Range	\$1.3	\$2.4
273rd Street	466th Avenue to 468th Avenue	Shared Use Path	Southwest	2.0	Long-Range	\$1.3	\$2.4
274th Street	466th Avenue to 470th Avenue	Shared Use Path	Southeast / Southwest	4.0	Long-Range	\$2.6	\$4.7
466th Avenue	269th Street to 274th Street	Shared Use Path	Northwest/ Southwest	5.0	Long-Range	\$3.3	\$6.0
467th Avenue	269th Street to 271st Street; 272nd Street to 274th Street	Shared Use Path	Northwest/ Southwest	4.0	Long-Range	\$2.6	\$4.7
467th Avenue (drainageways)	271st Street to 272nd Street (west of Atkins)	Shared Use Path	Southwest	2.9	Long-Range	\$1.9	\$3.5
468th Avenue	269th Street to 85th Street	Shared Use Path	Northwest	1.0	Long-Range	\$0.7	\$1.3
468th Avenue	273rd Street to 274th Street	Shared Use Path	Southwest	1.0	Long-Range	\$0.7	\$1.3
469th Avenue	273rd Street to 274th Street	Shared Use Path	Southeast	1.0	Long-Range	\$0.7	\$1.3
470th Avenue	273rd Street to 274th Street	Shared Use Path	Southeast	1.0	Long-Range	\$0.7	\$1.3
½ mile between Heritage Parkway and Sundowner Avenue	9th Street to 273rd Street	Shared Use Path	Southeast	0.5	Long-Range	\$0.4	\$0.8
Ellis Road (Heritage Parkway)	¼ mile south of 269th Street to 85th Street	Shared Use Path	Northwest	0.7	Long-Range	\$0.5	\$1.0
Quinton Street	¼ mile east of 467th Avenue to 468th Avenue	Shared Use Path	Northwest	0.5	Long-Range	\$0.4	\$0.8
½ mile between 269th Street and 85th Street	468th Avenue to 469th Avenue	Shared Use Path	Northwest	1.0	Long-Range	\$0.7	\$1.3
¼ mile south of 270th Street	467th Avenue to 468th Avenue	Shared Use Path	Northwest	1.1	Long-Range	\$0.8	\$1.5
½ mile between 467th Avenue and 468th Avenue	270th Street to 271st Street	Shared Use Path	Northwest	1.0	Long-Range	\$0.7	\$1.3
Main Avenue	9th Street to 273rd Street	Shared Use Path	Southwest	0.6	Long-Range	\$0.4	\$0.8
½ mile between 272nd Street and 273rd Street	467th Avenue to 468th Avenue	Shared Use Path	Southwest	1.0	Long-Range	\$0.7	\$1.3
½ mile between 467th Avenue and 468th Avenue	272nd Street to 273rd Street	Shared Use Path	Southwest	1.0	Long-Range	\$0.7	\$1.3
½ mile between 467th Avenue and 468th Avenue	272nd Street to 273rd Street	Shared Use Path	Southwest	1.0	Long-Range	\$0.7	\$1.3
½ mile between 467th Avenue and 468th Avenue	272nd Street to 273rd Street	Shared Use Path	Southwest	1.0	Long-Range	\$0.7	\$1.3

CROSSING IMPROVEMENTS



ID	RECOMMENDATIONS	ROAD NAMES	NO. OF LANES	SPEED (MPH)	DAILY VOLUME (VEH/DAY)
1	Existing T intersection; future plan to extend Madison St to the west. Design should prioritize safety and comfort of people biking and walking.	Heritage Pkwy & Madison St	2 and 2	35 and 20	3,790 and unknown
2	Maintain marked crosswalks on all approaches. Add crosswalk warning signage and Rectangular Rapid Flashing Beacons for the east and west approaches.	Gateway Boulevard & Devon Avenue	3 and 2	35 and 20	unknown
3	Maintain marked crosswalks on all approaches. Add pedestrian refuges on North Main Ave.	Gateway Blvd & Main Ave	3 and 5	35 and 25	unknown
4	Maintain marked crosswalks on all approaches. Add pedestrian refuges on all approaches.	Gateway Blvd & Heritage Pkwy	6 and 6	35 and 35	15,300 and 3,790
5	Maintain marked crosswalks on all approaches. Separate ADA ramps for each direction of crossing. Add pedestrian refuge islands on Heritage Parkway. Upgrade signal to accessible pedestrian signals.	Heritage Pkwy & Brian St	5 and 3	35 and 25	6,200 (S of Brian St) & 11,400 (N of Brian St) and unknown
6	Maintain marked crosswalks on east and west approach. Add a marked crosswalk on either the north or south approach of the intersection along with separate ADA ramps to facilitate an east/west crossing. Add a Pedestrian Hybrid Beacon and pedestrian crossing warning signage. Add pedestrian refuge islands on Heritage Pkwy.	Heritage Pkwy & Kevin Dr	5 and 2	35 and 20	6,200 and unknown
7	Add marked crosswalks on all approaches. Add ADA-compliant ramps on all approaches. Add curb extensions on the north and south approaches. Add crosswalk warning signage and Rectangular Rapid Flashing Beacons for the east and west approaches.	1st St & Main Ave	3 and 2	25 and 25	2,240 and unknown
8	Add ADA-compliant ramps on northeast corner. Add curb extensions on the north approach. Maintain school crosswalk signage and add Rectangular Rapid Flashing Beacons on the west approach on both sides of the street.	1st St & James Ave	3 and 2	25 and 20	2,240 and unknown
9	269th Street to 85th Street Evaluate for signal or roundabout. Maintain marked crosswalks on north and west approaches. (Add crosswalks on east and south approaches upon development of pedestrian facilities to the east and south.) Separate ADA ramps for each direction of crossing.	1st St & Heritage Pkwy	3 and 5	25 and 35	2,240 and 2,545

Roadway Configuration	Posted Speed Limit and AADT								
	Vehicle AADT <9,000			Vehicle AADT 9,000–15,000			Vehicle AADT >15,000		
	≤30 mph	35 mph	≥40 mph	≤30 mph	35 mph	≥40 mph	≤30 mph	35 mph	≥40 mph
2 lanes (1 lane in each direction)	1 2 4 5 6	1 5 6 7 9	1 5 6 7 9	1 4 5 6	1 5 6 7 9	1 5 6 7 9	1 4 5 6	1 5 6 7 9	1 5 6 7 9
3 lanes with raised median (1 lane in each direction)	1 2 3 4 5	1 5 6 7 9	1 3 5 6 7 9	1 4 5	1 3 5 7 9	1 3 5 7 9	1 3 4 5 6	1 3 5 6 7 9	1 3 5 6 7 9
3 lanes w/o raised median (1 lane in each direction with a two-way left-turn lane)	1 2 3 4 5 6 7 9	1 5 6 7 9	1 3 5 6 7 9	1 4 5 6 7 9	1 3 5 6 7 9	1 3 5 6 7 9	1 3 4 5 6 7 9	1 3 5 6 7 9	1 3 5 6 7 9
4+ lanes with raised median (2 or more lanes in each direction)	1 5 7 8 9	1 5 7 8 9	1 3 5 8 9	1 5 7 8 9	1 3 5 7 8 9	1 3 5 8 9	1 3 5 7 8 9	1 3 5 8 9	1 3 5 8 9
4+ lanes w/o raised median (2 or more lanes in each direction)	1 3 5 7 8 9	1 3 5 6 7 8 9	1 3 5 6 8 9	1 3 5 6 7 8 9	1 3 5 6 7 8 9	1 3 5 6 8 9	1 3 5 6 7 8 9	1 3 5 6 8 9	1 3 5 6 8 9

Given the set of conditions in a cell,

- # Signifies that the countermeasure is a candidate treatment at a marked uncontrolled crossing location.
- Signifies that the countermeasure should always be considered, but not mandated or required, based upon engineering judgment at a marked uncontrolled crossing location.
- Signifies that crosswalk visibility enhancements should always occur in conjunction with other identified countermeasures.*

The absence of a number signifies that the countermeasure is generally not an appropriate treatment, but exceptions may be considered following engineering judgment.

- 1 High-visibility crosswalk markings, parking restrictions on crosswalk approach, adequate nighttime lighting levels, and crossing warning signs
- 2 Raised crosswalk
- 3 Advance Yield Here To (Stop Here For) Pedestrians sign and yield (stop) line
- 4 In-Street Pedestrian Crossing sign
- 5 Curb extension
- 6 Pedestrian refuge island
- 7 Rectangular Rapid-Flashing Beacon (RRFB)**
- 8 Road Diet
- 9 Pedestrian Hybrid Beacon (PHB)**