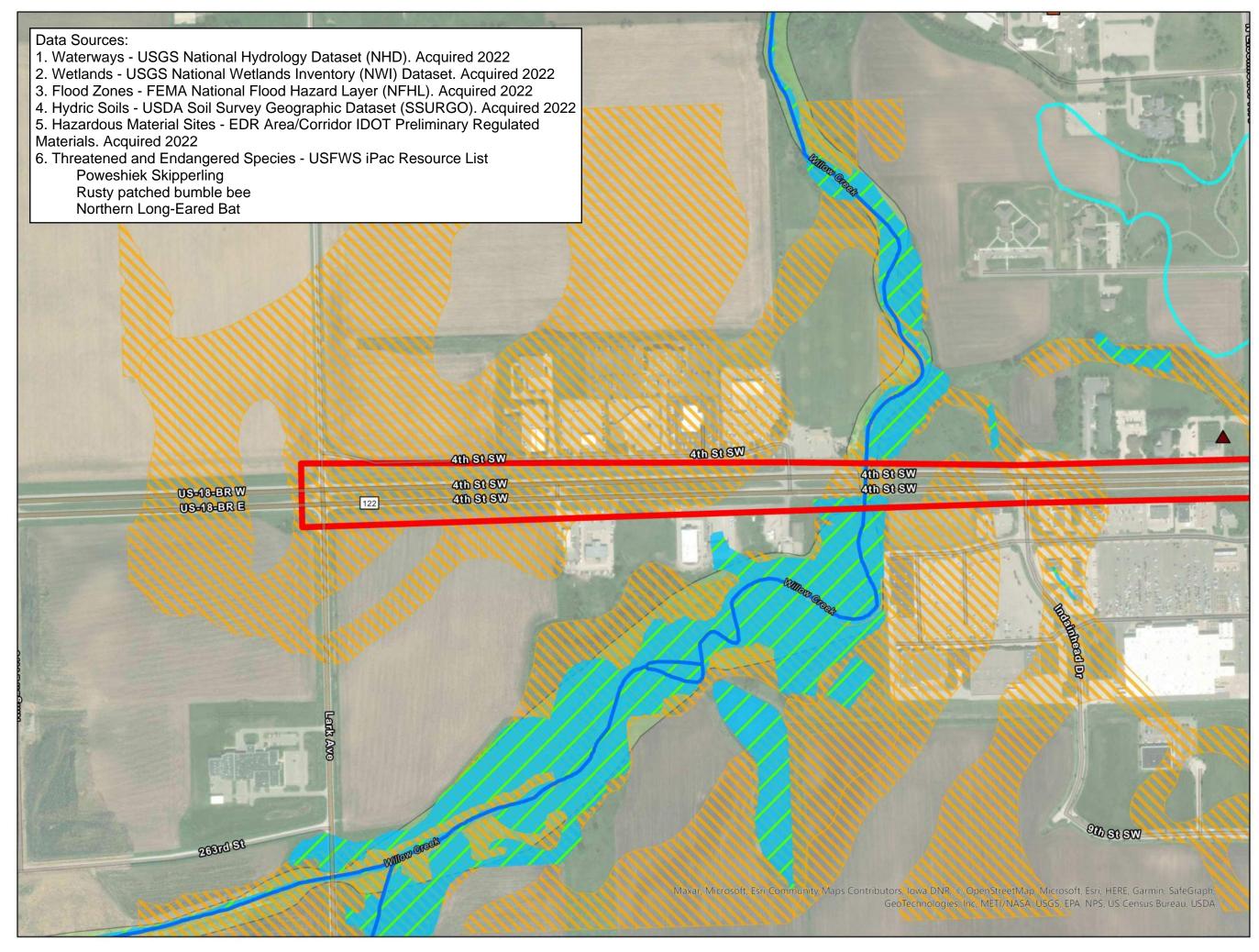


engineers + planners + land surveyors

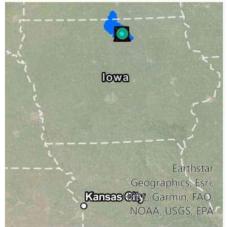
Appendix A - Miscellaneous Exhibits

Roadway	Design Criteria for Mod	ified Alignment Alternative					
PIN Number	IA 122 Feasibility Study		Submittal Date				
Project Number	·····			Approval Date			
District	District 2	Assistant District Engineer					
County	CERRO GORDO	or					
Route	IA 122						
Location	From Lark Avenue to Cerro Gordo						
Work Type							
Segment Manager							
Designer	WHKS						
Design Manual Section 1C-1 Last Updated: 04-29-19		Urban Multilane Roadwa	ys (Urban Arterials)		1		
Des	ign Element	Preferred	Acceptable Criteria	Project Values			
Design speed (mph)	-	The anticipated posted speed limit	30	45	Matching Current Posted Speeds		
Maximum superelevation rate (Re	efer to Section 2A-2)	4%	8%	4%	GB page 7-38		
Design lane width (ft)	,	12	11	12	GB section 7.3.3		
	Outside lane	Design lane width + curb and gutter unit or 12 feet for roadways with shoulders	Match design lane width	12 + 2.5	3C-2; gutter width for 4-lane at 45 mph or lower is 2 preferred, acceptable is 0 ft. 3A-1, Figures 9 and 10		
Full depth paved width (ft)	Inside lane(s)	Design lane width + curb and gutter unit. 12' for roadways without a curb and gutter unit	Match design lane width	12 + 0.5	provide project values, 2.5' curb and gutter on outsic lane, 0.5' curb on inside lane, all lanes drain to outside.		
Right turn lane or an auxiliary lan	e (ft)	12	10	12, with no curb offset	GB section 9.7.1		
Left turn lane (ft)	With raised or painted median	12 ft + median	10 ft + median	12 + 4' median incl. curbs	GB page 7-40, 9-110		
Left turn lane (ft)	With depressed median	12	10	N/A	GB section 9.7.1		
Two-way left turn lane (ft)		14	11	N/A	GB 4-39, 7-42, 9-158		
Parking lane width (ft)		10	7	N/A	GB page 7-34		
Pavement cross-slope	Through lanes	2%, However, when adjacent lanes slope in the same direction, increase slope by 0.5% per lane up to 3%	1.5% minimum, 3% maximum	2%	All lanes draining to outside		
(on tangent sections)	Auxiliary and turn lanes	3%	3% maximum	3%	All lanes draining to outside		
	Crown break at centerline	4%	4% maximum	N/A			
Shoulder cross-slope Shoulders		4%	Shoulder cross-slope cannot be less than the adjacent lane, 6% max for paved or granular shoulders, 8% max for earth shoulders	N/A	GB Section 4.4.3		
(on tangent sections)	Curb and gutter units	Match pavement cross-slope	6% maximum	N/A	GB page 4-14		
	Parking lanes	1% greater than pavement cross-slope	6% maximum	N/A	GB page 4-14		
Curb type (Refer to Section <u>3C-2</u>)	Design speed ≤ 45 mph	6-inch standard	any shape	6-inch standard	3C-2; standard curb acceptable at 45 MPH & below		
Foreslope	Adjacent to shoulder	10:1 for 4' then 6:1	3:1				
	Beyond standard ditch depth and				RDC section 2.2.2		
contact the Soils Design Section	design clear zone	3.5:1	3:1	To be Determined, No	RDG section 3.3.2		
for assistance)	Curbed roadways	2%	not steeper than 3:1	steeper than 3:1.			
Backslope (For cut areas greater Section for assistance with backs	than 25 feet, contact the Soils Design slope benches.)	3:1	2.5:1		GB Section 4.8.4		
Transverse Slopes	w/ drainage structures	8:1	6:1	8:1	RDG Section 3.2.3		
Transverse Slopes	w/o drainage structures	10:1	6:1	10:1			
Ditches (Refer to Section <u>3G-1</u>)	Outside ditch (depth x width) (ft)	5 x 10					
Median width (ft) (Refer to Sectio	n <u>3E-1</u>)	See Section <u>3E-1</u>	0	16	Per 3E-1, value is face of curb to face of curb, no provision for ped/bicycle refuge		
	Bridge length ≤ 200 ft	design lane widths + effective shoulder widths or design lane width + 3 ft each side in curb and gutter section	design lane widths + effective shoulder widths or curb-to-curb width in curb and gutter section**	N/A			
Bridge width—new*	Bridge length > 200 ft	design lane widths + effective shoulder widths or design lane width + 3 ft each side in curb and gutter section	design lane widths + 4 ft offset each side for roadways with shoulders or curb-to-curb width in curb and gutter section**	N/A	GB section 7.3.5		
Bridge width—existing*		design lane widths + no less than 2 ft left and right	design lane widths + 2 ft left and right of the design widths	design lane widths + no less than 2 ft left and right	GB section 7.3.5		
Vertical clearance (ft)	Over primary	16.5	16	N/A	GB pages 5-9 and 6-8		
	Over non-primary	16.5 at interchange locations, 15 at all other locations	14	N/A	GB pages 5-8 and 6-8		
feet left and right of the center Over railroad		23.3	23.3	N/A			
of railroad tracks) Sign truss and pedestrian crossings					GB section 7.3.5		
Structural Capacity		Contact Office of Bridges and Structures Contact Office of Bridges and Structures N/A					
Level of Service		С	N/A	GB section 7.3.2			
	equired if acceptable criteria is not met on ft wide contact the Methods Section for a	the NHS system (No formal design exception required) assistance.					



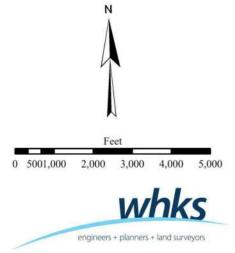
IA Highway 122 Corridor Feasibility Study

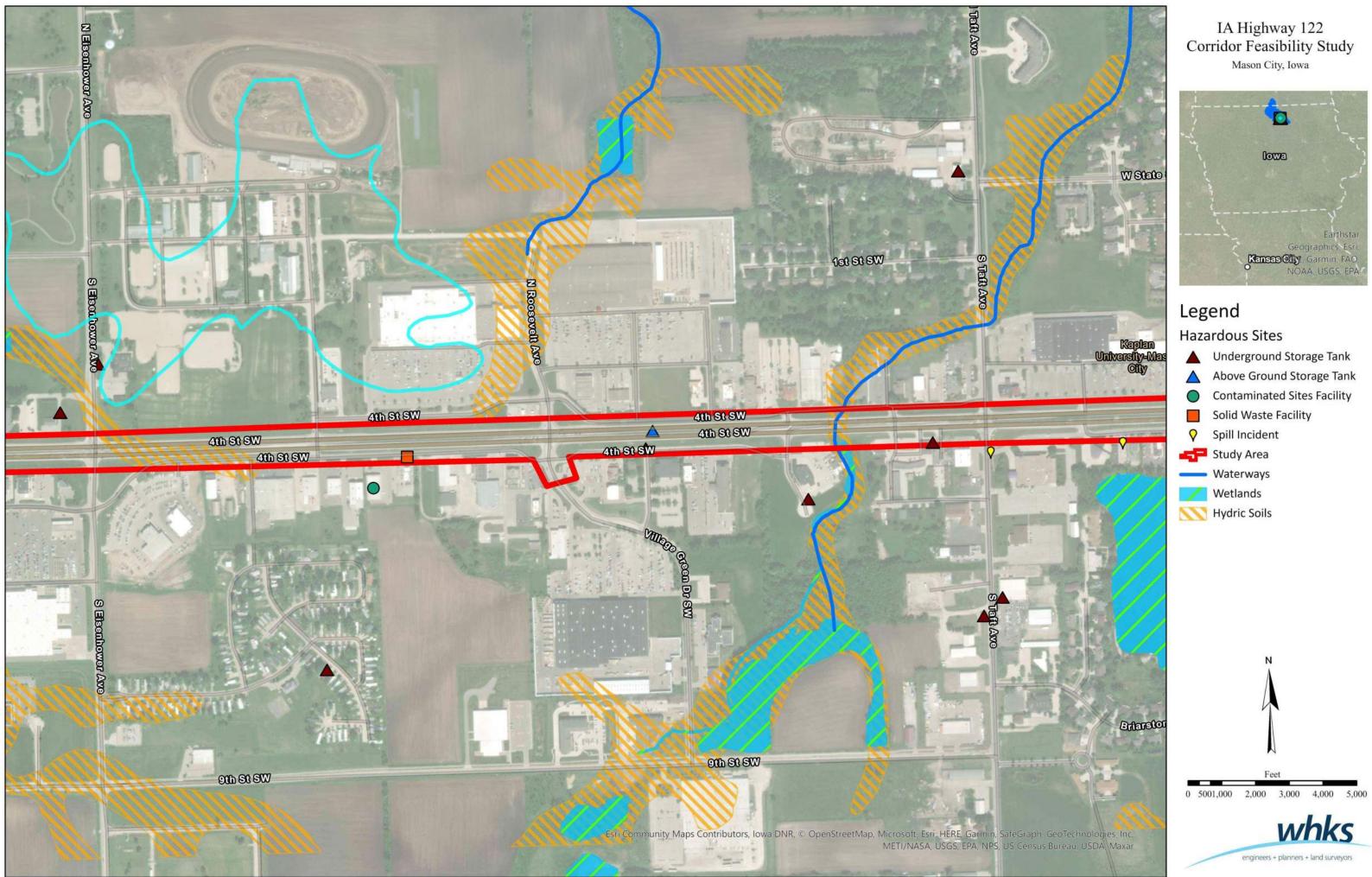
Mason City, Iowa

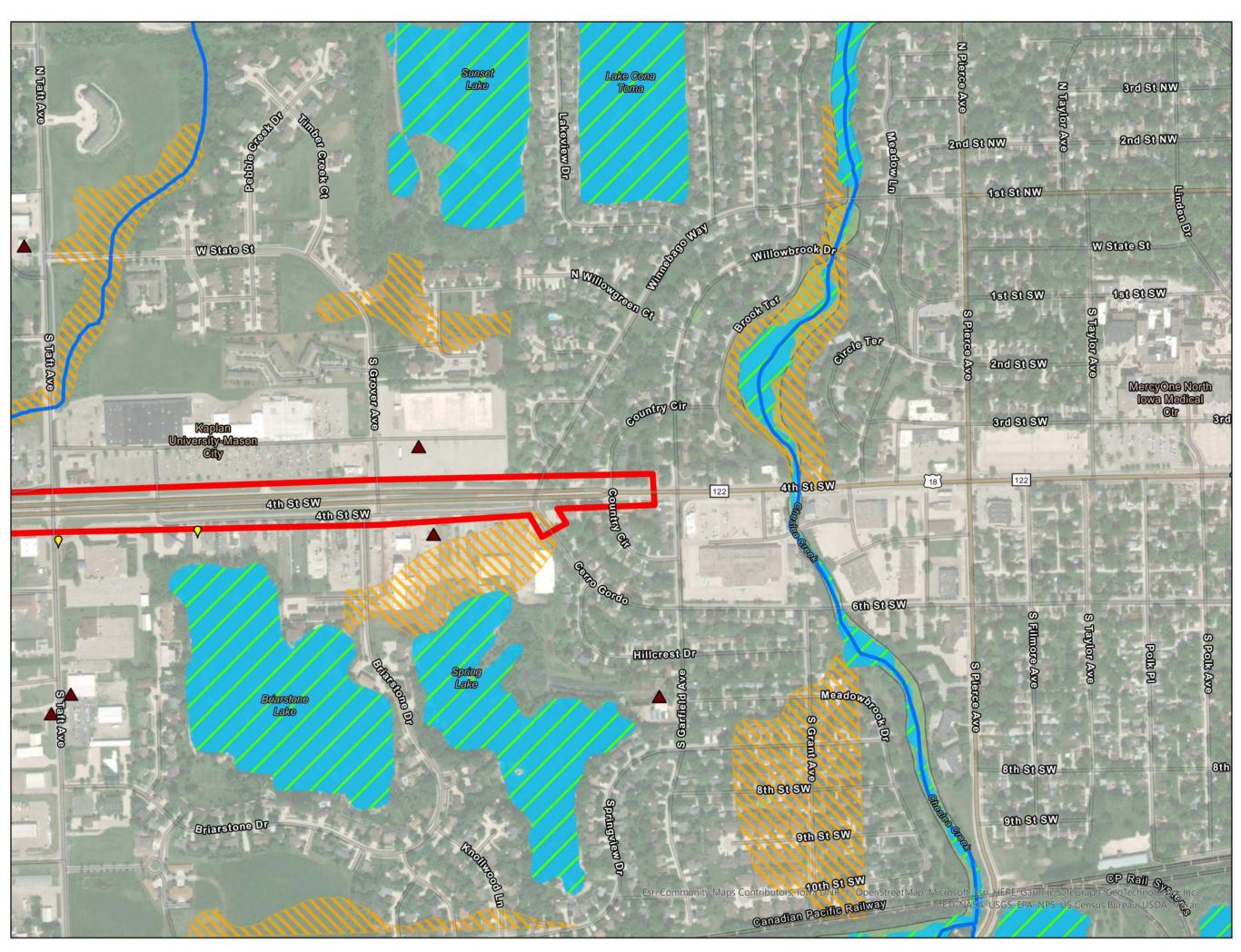


Legend Hazardous Sites Underground Storage Tank
Solid Waste Facility
Study Area
Vaterways
Waterways
Wetlands
Hydric Soils

Flood Hazard Zones
Regulatory Floodway

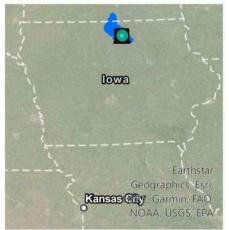




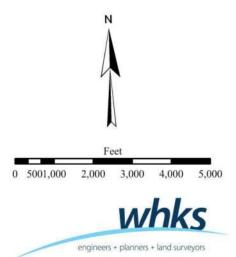


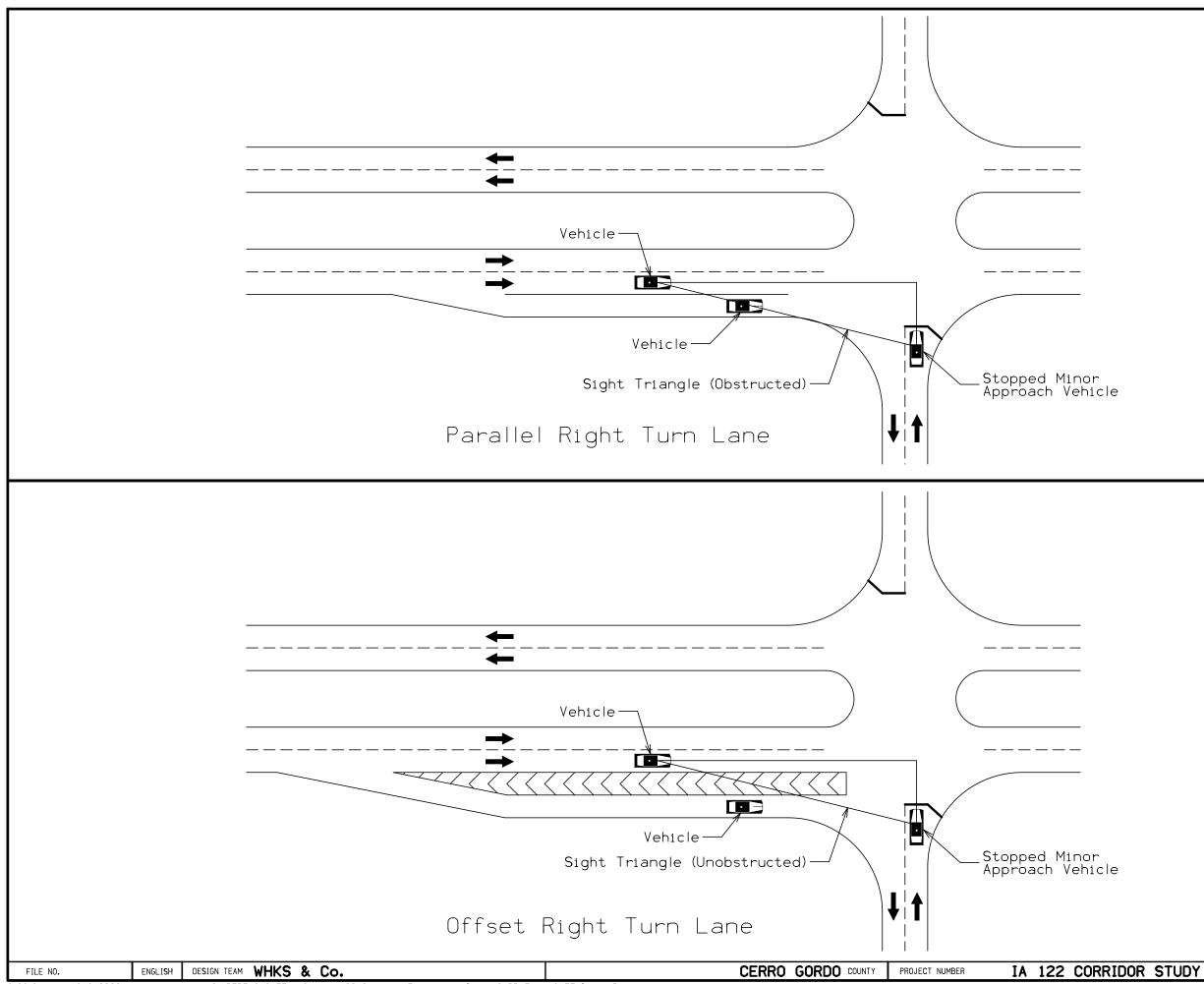
IA Highway 122 Corridor Feasibility Study

Mason City, Iowa



Legend Hazardous Sites ▲ Underground Storage Tank ♥ Spill Incident ♥ Study Area ₩ Waterways ₩ Wetlands ₩ Hydric Soils Flood Hazard Zones Regulatory Floodway





8:36:34 AM 8/9/2022 G:\DEPT\3\9455 - IA Hwy 122 Corridor Feasibility Study\CADD Files\9455_Sheet Displays.dgn cholien

Right Turn Lane Sight Triangles

SHEET NUMBER

IOWA DEPARTMENT OF TRANSPORTATION

To Office	District 2	Date June 05, 2020
Attention	Craig Wood Jon Ranney	Ref. No. 456 Cerro Gordo County
F	Kurtin Maurikin	

From Kurtis Younkin

A

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Office Traffic and Safety

Subject Recommendation to District: Speed Study on IA 122 in Mason City, IA

A TEAP Study in the Subject area noted a crash rate higher than the statewide average. A speed study was requested to determine if the present speed zones were appropriate.

Speed Data was collected (see below) and a review of the area was conducted.

Last Staff Action/Commission Resolution: <u>13-0178 dated August 31, 2012</u>

The following observations were made of the area reviewed:

- Wide shoulders
- Multiple signalized intersections.
- All intersections in 50mph and 40mph zones had offset, left-turn lanes.
- Four-lane, divided, rural cross-section.
- Sight distance not limited as to merit a warning sign.

The collected data supports:

• Reducing the existing 50mph to 45mph as shown on the attached Proposed Staff Action map.

Please respond to this Recommendation with your concurrence or suggestions for change.

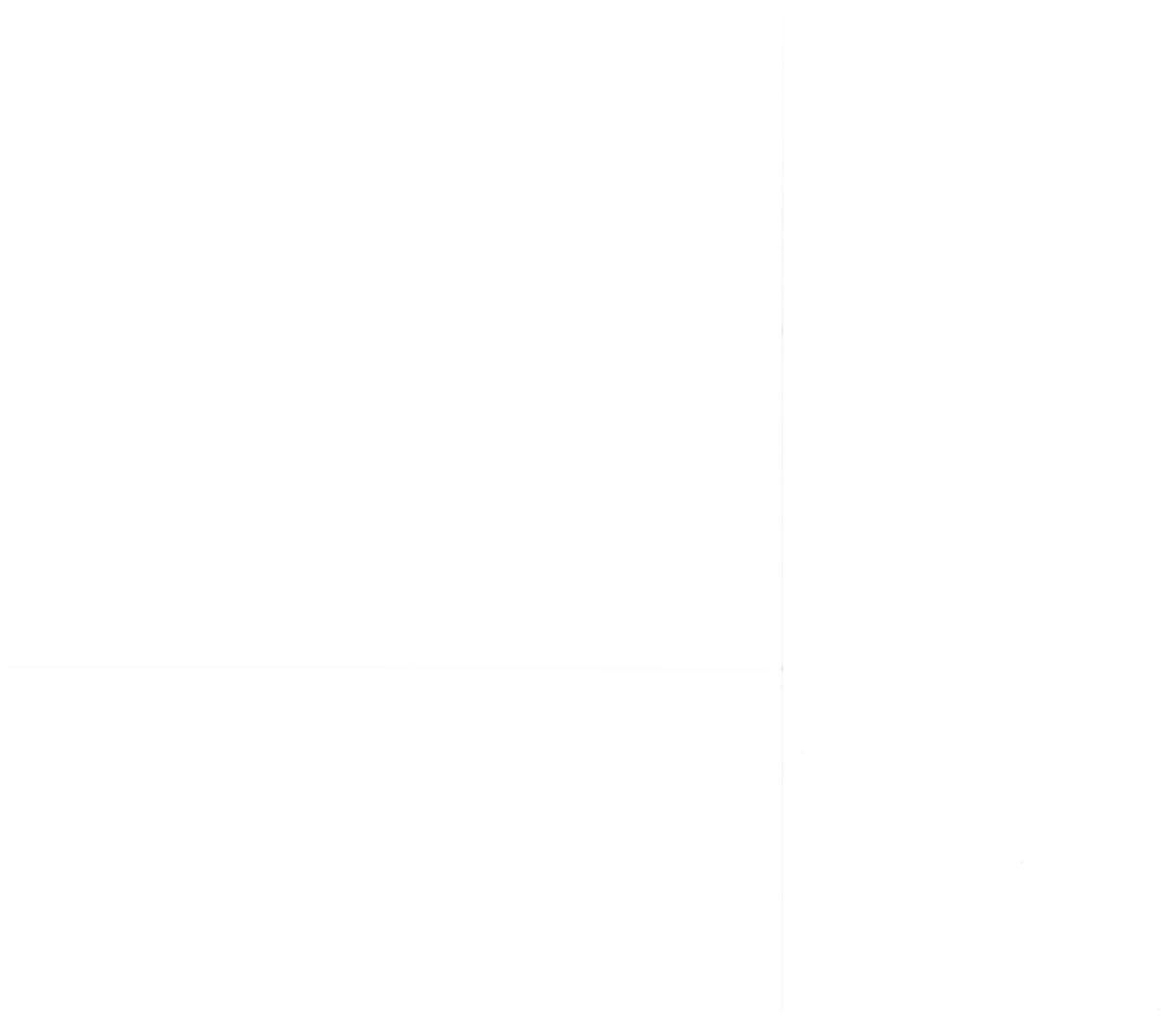
If you have any questions or concerns please contact Ron McDaniel at 515-239-1537 or Ron.McDaniel@iowadot.us.

a.	Project Street Capture Directio	Zone on(s)	: M1 : IA : IND : BOT	122 DIAN HEAD	ion 2.3 11 DR	/96				
	Types of	f Vehic	imit: 50 les : ALL ions: 50S							
***	******	******	*****	******	*****	******	* * * * * * * * *	*****	**	
	Date Rai Time Rai Directio Types of	nge on(s)	: 05/ : 09: : App	00:00A Th	ough 05/13 rough 11:1 & Departin	5:00A				
***	******	* * * * * * *	******	*****	******	******	******	******	* *	
	Highest Average	Recorde Speed	d Speed ed Speed ved	: 59		50th P 85th P	ercentile ercentile ercentile ercentile	: 47 : 51		
	Percent Percent	In Pace Under 1	eed e Speed Pace Spee ace Speed	d: 8.3	rough 51					
***	******	******	*******	******	*******	******	******	*****	* *	
	SPEED	COUNT	PERCENT	CUM.%	SPEED	COUNT	PERCENT	CUM.%		
	30	0	0.0	0.0	56	5	1.3	98.0		
	31 32	0 1	0.0	0.0 0.3	57 58	3 2	0.8 0.5	98.8 99.3		
	33	1	0.3	0.5	59	3	0.8	100.0		
	34	0	0.0	0.5	60	0	0.0	100.0		
	35	2	0.5	1.0	61	0	0.0	100.0		
	36	1	0.3	1.3	62	0	0.0	100.0		
	37	6	1.5 1.0	2.8 3.8	63 64	0	0.0	100.0 100.0		
	38 39	4 4		4.8	65	0	0.0	100.0		
	40	6	1.5	6.3	66	0	0.0	100.0		
	41	8	2.0	8.3	67	0	0.0	100.0		
	42	21	5.3	13.5	68	0	0.0	100.0		
	43	32	8.0	21.5	69	0	0.0	100.0 100.0		
	44 45	23 41	5.8 10.3	27.3 37.5	70 71	0	0.0	100.0		
	46	45	11.3	48.8	72	Ő	0.0	100.0		
	47	46	11.5	60.3	73	0	0.0	100.0		
	48	33	8.3	68.5	74	0	0.0	100.0		
	49	36	9.0	77.5	75	0	0.0	100.0		
	50	24 20	6.0 5.0	83.5 88.5	76 77	0	0.0	100.0 100.0		
	51 52	14	3.5	92.0	78	0	0.0	100.0		
	53	5	1.3	93.3	79	Õ	0.0	100.0		
				95.5	80	0	0.0	100.0		
	54 55	9 5	2.3 1.3	95.5	80	0	0.0	100.0		

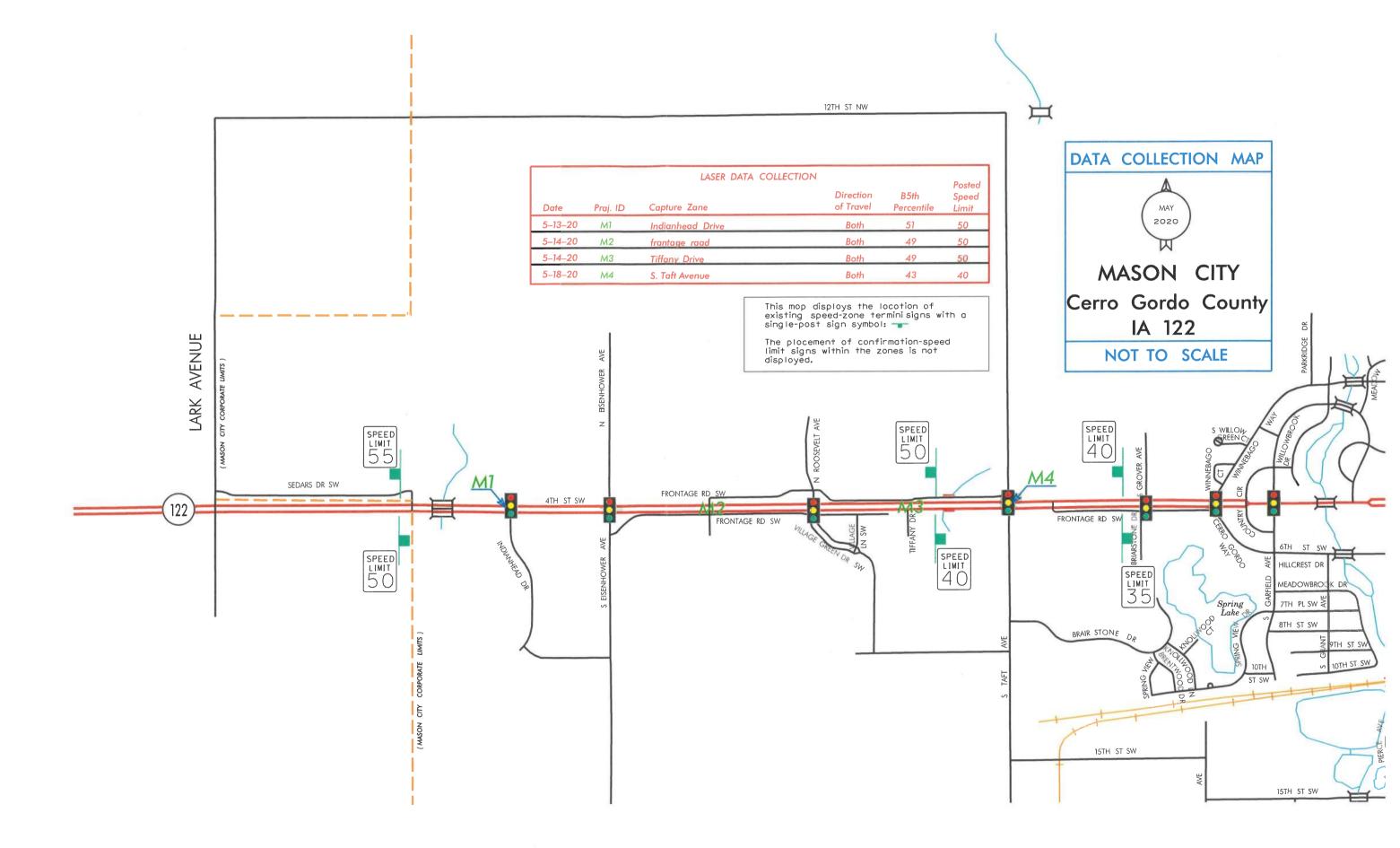


	Project Street Capture Directio	Zone	: M2 : IA	NTAGE RD	on 2.3 11	./96			
	Posted : Types of	Speed L: f Vehic							
***	******	******		******		******	******	*****	*****
		nge on(s) f Vehic]	: 05/ : 09: : App les : All	Filter Set 14/20 Thro 39:00A Thro roaching & Vehicles	ugh 05/14 ough 11:2 Departin	8:00A g			
***	******	******	******	*******	*******	*****	******	*****	*****
		Recorde Speed				50th P 85th P	ercentile ercentile ercentile ercentile	: 44 : 49	
	Percent Percent	In Pace Under 1	eed Speed Pace Spee ace Speed	d : 16.8	ough 49				
* * *	******	******	******	*****	******	******	******	******	******
	SPEED	COUNT	PERCENT	CUM.%	SPEED	COUNT	PERCENT	CUM.%	
	30 31	1 4	0.3 1.0	0.3 1.3	56 57	2 0	0.5	100.0 100.0	
	32	1	0.3	1.5	58	0	0.0	100.0	
	33	2	0.5	2.0	59	0	0.0	100.0	
	34 35	5 4	1.3 1.0	3.3 4.3	60	0	0.0	100.0 100.0	
	36	5	1.3	4.5	61 62	0	0.0	100.0	
	37	9	2.3	7.8	63	0	0.0	100.0	
	38	17	4.3	12.0	64	0	0.0	100.0	
	39 40	19 19	4.8 4.8	16.8 21.5	65 66	0	0.0	100.0 100.0	
	40	36	4.0 9.0	30.5	67	0	0.0	100.0	
	42	27	6.8	37.3	68	0	0.0	100.0	
	43	37	9.3	46.5	69	0	0.0	100.0	
	44 45	24 40	6.0 10.0	52.5 62.5	70 71	0	0.0	100.0 100.0	
	46	18	4.5	67.0	72	0	0.0	100.0	
	47	35	8.8	75.8	73	0	0.0	100.0	
	48	25	6.3	82.0	74	0	0.0	100.0	
	49 50	20 18	5.0 4.5	87.0 91.5	75 76	0	0.0	100.0 100.0	
	51	12	3.0	94.5	77	Õ	0.0	100.0	
	52	11	2.8	97.3	78	0	0.0	100.0	
	53	4	1.0 1.3	98.3 99.5	79 80	0	0.0	100.0 100.0	
	54 55	5 0	0.0	99.5 99.5	80	U	0.0	T00.0	

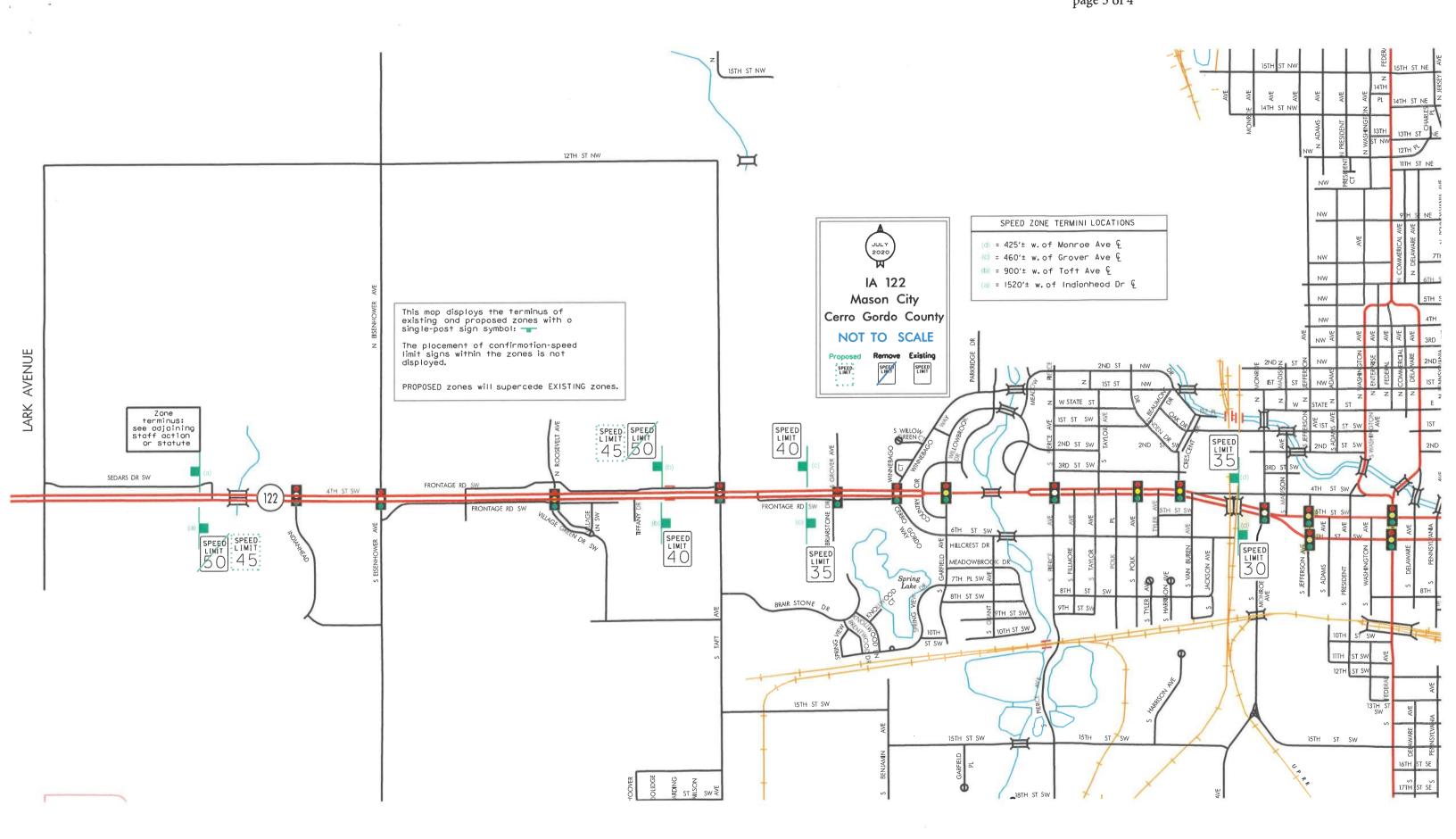
	Project Street Capture		: M3 : IA	Stat Versi 122 FANY DR	ion 2.3 11	./96			
	Types of	Speed L f Vehic	: BOT imit: 50 les : ALL ions: 60S						
***	*****	******		*********		*****	* * * * * * * * *	********	*****
	Types of	nge on(s) f Vehic	: 05/ : 11: : App les : All	Filter Set 14/20 Thro 57:00A Thr roaching & Vehicles	ough 05/14 cough 01:3 Departin	8:00P g			
* * *	******	* * * * * * *	******	********	******	******	*******	********	*****
		Record Speed	d Speed ed Speed ved	: 67		50th P 85th P	ercentile ercentile ercentile ercentile	e : 44 e : 49	
	Percent	Under	eed e Speed Pace Spee ace Speed		rough 48				
***	******	* * * * * * *	******	* * * * * * * * * *	*******	*****	*******	********	*****
	SPEED	COUNT	PERCENT	CUM.%	SPEED	COUNT	PERCENT	CUM. %	
	30 31	1 0	0.3	0.3	56 57	1 0	0.3	99.5 99.5	
	32	0	0.0	0.3	58	0	0.0	99.5	
	33	1	0.3	0.5	59	Õ		99.5	
	34	3	0.8	1.3	60	0	0.0	99.5	
	35	3	0.8	2.0	61	0	0.0	99.5	
	36	9	2.3	4.3	62	0	0.0	99.5	
	37	7	1.8	6.0	63	0	0.0	99.5	
	38	15	3.8	9.8 15.8	64 65	0 1	0.0	99.5 99.8	
	39 40	24 19	4.8	20.5	66	0	0.0	99.8	
	41	38	9.5	30.0	67	1	0.3	100.0	
	42	27	6.8	36.8	68	0	0.0	100.0	
	43	36	9.0	45.8	69	0	0.0	100.0	
	44	43	10.8	56.5	70	0	0.0	100.0	
	45	27	6.8	63.3	71	0	0.0	100.0 100.0	
	46 47	40 22	10.0 5.5	73.3 78.8	72 73	0	0.0	100.0	
	48	19	4.8	83.5	74	0	0.0	100.0	
	49	17	4.3	87.8	75	Õ	0.0	100.0	
	50	15	3.8	91.5	76	Ō	0.0	100.0	
	51	7	1.8	93.3	77	0	0.0	100.0	
	52	10	2.5	95.8	78	0	0.0	100.0	
	53	12	3.0	98.8	79	0	0.0	100.0	
	54 55	2 0	0.5	99.3 99.3	80	0	0.0	100.0	
	~~	0							



	Project Street Capture		: M4 : IA :		ion 2.3 11,	/96			
	Directic Posted S Types of Weather	Speed Li E Vehicl	: BOTH mit: 40 es : ALL ons: 50S						
***	* * * * * * * * * *	******	******	*******	******	******	******	******	******
	Date Rar Time Rar Directic Types of	nge nge on(s) E Vehicl	1 : 05/: : 09:0 : Appr es : All	Filter Se 18/20 Thr 01:00A Th roaching Vehicles	ttings ough 05/18, rough 02:38 & Departing	/20 8:00P 9			
		Recorde Speed				50th P 85th P	ercentile ercentile ercentile ercentile	: 37 : 43	
	10 MPH F Percent Percent Percent	In Pace Under P	ed Speed ace Speed ce Speed	: 32 Th : 69.7 1 : 6.5 : 23.8	rough 41				
***	* * * * * * * * *	******	******	******	******	******	******	******	******
	SPEED		PERCENT	CUM.%	SPEED	COUNT	PERCENT	CUM.%	
	30	8	2.1	2.1	56	0	0.0	100.0	
	31	17	4.4 5.5	6.5 12.0	57 58	0	0.0	100.0 100.0	
	32 33	21 25	5.5	12.0	50	0	0.0	100.0	
	34		4.7	23.2	60	0	0.0	100.0	
	35	31	8.1	31.3	61	Ő	0.0	100.0	
	36	36	9.4	40.7	62	õ	0.0	100.0	
	37	40	10.4	51.2	63	Õ	0.0	100.0	
	38	32	8.4	59.5	64	0	0.0	100.0	
	39	15	3.9	63.4	65	0	0.0	100.0	
	40	23	6.0	69.5	66	0	0.0	100.0	
	41	26	6.8	76.2	67	0	0.0	100.0	
	42	17	4.4	80.7	68	0	0.0	100.0	
	43	19	5.0	85.6	69	0	0.0	100.0	
	44	15	3.9	89.6	70	0	0.0	100.0	
	45	13	3.4	93.0	71	0	0.0	100.0	
	46	10	2.6	95.6	72	0	0.0	100.0	
	47	7	1.8	97.4	73	0	0.0	100.0	
	48	3	0.8	98.2	74	0	0.0	100.0 100.0	
	49	4	1.0 0.5	99.2 99.7	75 76	0 0	0.0	100.0	
	50 51	2 1	0.3	100.0	70	0	0.0	100.0	
	51	0	0.0	100.0	78	0	0.0	100.0	
	53	0	0.0	100.0	79	õ	0.0	100.0	
	54 55	0	0.0	100.0	80	0	0.0	100.0	



P



5

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT) by Road System and Severity Statewide Crashes

10-year Averages: 2007 - 2016

	Fatal Crash	Fatality	Fatal + Injury	All Crash
Road System	Rates	Rates	Crash Rates	Rates
Rural				
Interstate	0.49	0.59	12	52
Primary	1.11	1.29	23	85
US	1.01	1.19	22	84
Iowa	1.32	1.52	26	90
Secondary	2.82	3.09	64	179
Rural Totals	1.26	1.43	28	93
Municipal				
Interstate	0.54	0.59	28	103
Primary	0.96	1.05	79	268
US	0.96	1.06	79	263
Iowa	0.98	1.08	86	<mark>296</mark>
City Streets	0.91	0.98	106	396
Municipal Totals	0.72	0.78	70	261
State				
Interstate	0.50	0.59	17	70
Primary	1.06	1.22	41	143
US	1.00	1.15	40	140
Iowa	1.21	1.38	45	155
Local	1.68	1.83	89	308
State Totals	1.03	1.15	46	167

Note: Rural and Municipal breakdowns are based on Corporate Limits.

Source: Iowa Department of Transportation, Office of Traffic and Safety September 22, 2017

ACCIDENT AND RELATED DATA FOR RURAL AND MUNICIPAL INTERSECTIONS IN IOWA

Based on 1983 thru 1987 Data

		RURAL			MUNICIPAL			
Field Description	Primary with Primary	Primary with Secondary	Secondary with Secondary	Total Rural	Primary with Primary	Primary with City Street	City Street with City Street	Total Municipal
Number of Intersections	93	345	134	572	162	1,129	1,553	2,844
Average Number of Accidents / Year	1.6	1.1	0.8	1.1	4.8	4.1	3.0	3.6
Average Dollar Loss / Year *	\$52,200	\$44,200	\$37,300	\$43,900	\$53,800	\$43,100	\$26,800	\$34,800
Average Daily Entering Vehicles	4,500	4,000	2,200	3,600	12,800	12,800	10,500	11,500
Average Accident Rate / MEV	1.0	0.8	1.0	0.9	1.0	0.9	0.8	0.8
Lower Limits of Statistical Rates 90 % Confidence Level (K=1.282)	1.9	1.8	2.8	2.1	1.7	1.6	1.6	1.6
95 % Confidence Level (K=1.645)	2.1	2.0	3.2	2.4	1.9	1.8	1.8	1.8
99.5 % Confidence Level (K=2.576)	2.8	2.7	4.1	3.2	2.4	2.3	2.4	2.4

BY INTERSECTION CLASS

BY TRAFFIC VOLUME CLASS

			RU	RAL					MUNI	CIPAL		
Field Description	1 - 999	1,000 - 2,499	2,500 - 4,999	5,000 - 9,999	10,000 & Over	Total Rural	1 - 2,499	2,500 - 4,999	5,000 - 9,999	10,000 - 24,999	25,000 & Over	Total Municip.
Number of Intersections	68	191	191	97	25	572	85	363	988	1,238	170	2,844
Average Number of Accidents / Year	0.5	0.8	1.1	1.7	3.8	1.1	0.9	1.5	2.0	4.6	10.6	3.6
Average Dollar Loss / Year *	\$46,400	\$38,200	\$43,700	\$47,600	\$67,100	\$43,900	\$20,600	\$20,500	\$20,100	\$43,500	\$94,700	\$34,800
Average Daily Entering Vehicles	650	1,750	3,600	6,750	14,500	3,650	1,900	3,900	7,450	15,050	30,450	11,500
Average Accident Rate / MEV	2.1	1.2	0.9	0.7	0.7	0.9	1.3	1.0	0.7	0.8	1.0	0.8
Lower Limits of Statistical Rates												
90% Confidence Level (K=1.282)	3.7	2.1	1.4	1.3	1.3	2.1	2.9	1.9	1.4	1.5	1.6	1.6
95% Confidence Level (K=1.645)	4.1	2.4	1.6	1.5	1.5	2.4	3.3	2.2	1.6	1.7	1.8	1.8
99.5% Confidence Level (K=2.576)	5.2	3.0	2.0	1.9	1.9	3.2	4.3	2.8	2.1	2.2	2.2	2.4

* Dollar Loss Value Based on: Fatality - \$435,000

Injury - \$15,000

Plus Actual Property Damage

Bureau of Transportation Safety Iowa Department of Transportation Prepared January, 1989



- (see Downtown Inset Map)
- Central Park
- Historic Park Inn (Frank Lloyd Wright, Arch.)
- Federal Plaza
- Southbridge Mall
- Music Man Square
- Mason City Public Library
- MacNider Art Museum
- Meredith Willson Footbridge
- Rock Crest/Rock Glen Historic District (Prairie Style Architecture)
- Robert E. McCoy Architectural Interpretive Center/ G. C. Stockman House Museum (Frank Llovd Wright, Architect)
- City Hall

2 PIERCE AVE ROUTE

- Connections to: Routes 1, 3, 9
- Connection to Willow Creek Trail
- Lester Milligan/Ray Rorick Parks and trail (via Route 9)

POINTS OF INTEREST (a | p h a b e t i c a |)

SITE/LOCATION (ROUTE#)

BeJe Clark Residential Center (7) Cannonball 457 (1,8) Central Park (1.10) City Hall (1,10) CL Bike Trolley Trail Connector (2,7,9) Downtown Mason City (1,10) East MC Shopping District (1) East Park (1.8) Elmwood St. Joseph Cemetery (4) Federal Plaza (1.10) Forest Park Historic Dist. (1) Frederick Hanford Park - Adult Softball Complex (7) Georgia Hanford Park (7) Highland Golf Course (8) Historic Park Inn (1,10) (Frank Llovd Wright, architect) John Adams Middle School/ Mason City High School (1) Lester Milligan/ Ray Rorick Park & Trail (7, 9, 12) Lime Creek South Entrance (5,6) MacNider Art Museum (6.10)

SITE/LOCATION (ROUTE#)

MacNider Campground (8) MC City Dog Park (5,6) MC Family Aquatic Center (8) MC Public Library (6,10) MC Visitor Center (1) MC Youth Baseball Holnam Complex (4) Mercy Medical Center - North Iowa (1) Meredith Willson Footbridge (1,10) Mohawk Square (1,10) Monroe Park (4) Music Man Square (10) Newman Catholic Schools (2,9) North Federal Commercial Dist. (5) NIACC (1) Parkers Woods/West Park (1) Robert E. McCoy Architectural Interpretive Center (1.10) Rock Crest/Rock Glen Historic District (1,10) S Federal Ave Commercial District (7) Southbridge Mall (1.10) Stockman House Museum (1,10) West Shopping District (1)



Share the road or shared lane markings alert motorists of the location a bicyclist may be expected or occupy within the traveled street.



within the lane.



[8[\-424-[40 • j9n.y]ionosem.www

YTD NOZAM

MAPS PROVIDED BY: North Iowa Spin, Bennett's, Wayne's, Blue Zones Project[®]-Mason City, City of Mason City



1 CROSS-TOWN NORTH ROUTE: East-West

Connections to: Routes 2, 3, 4, 6, 8, 10, 12

- West Mason City Shopping District
- Mason City Visitor's Center
- Mercy North Iowa West Campus
- Forest Park Historic District
- Parker's Woods/West Park
- Connection to Willow Creek Trail
- Downtown Mason City
- Central Park
- Mohawk Square
- Robert E. McCoy Architectural Interpretive Center/ G. C. Stockman House Museum (Frank Llovd Wright, Architect)
- Historic homes on East State Street
- Rock Crest/Rock Glen Historic District
- East Park
 Cannonball 457
- John Adams Middle School/Mason City High School
- East Mason City Shopping District
- North Iowa Area Community College

2 TAFT AVE ROUTE Connections to: Routes 1, 3, 9

- West Mason City Shopping District
- Newman Catholic Schools
- To Clear Lake via Route 9 (Trolley Trail)

3 CROSS-TOWN SOUTH ROUTE: East-West Connections to: Route 1 (via Cerro Gordo Way),

Routes 4, 9, 12

West Mason City Shopping District

QUINCY-ADAMS ROUTE Connections to: Routes 1, 3, 5, 7, 9

- Mason City Youth Baseball Complex
- Monroe Park
- Downtown Mason City
- Elmwood-St. Joseph Cemetery
- BeJe Clark Residential Center



NORTH-TOWN ROUTE Connections to: Routes 4, 6, 8

- North Federal Ave Commercial District
- Mason City Dog Park
- Connection to East Park Trails
- Connection to Lime Creek-Zerble's Trail



PENNSYLVANIA AVE ROUTE

Connections to: Routes 1, 5, 10

- Connection to Lime Creek-Zerble's Trail (via Elm Drive)
- Downtown Mason City
- MacNider Art Museum
- Mason City Public Library
- Music Man Square
- Connection to Willow Creek Trail



TROLLEY TRAIL ROUTE: East Connections to: Routes 4, 8, 9

- Lester Milligan/Ray Rorick Parks and trails
- Frederick Hanford Park
- South Federal Avenue Commercial District
- Georgia Hanford Park



VIRGINIA-RHODE ISLAND ROUTE Connections to: Routes 1, 5, 7

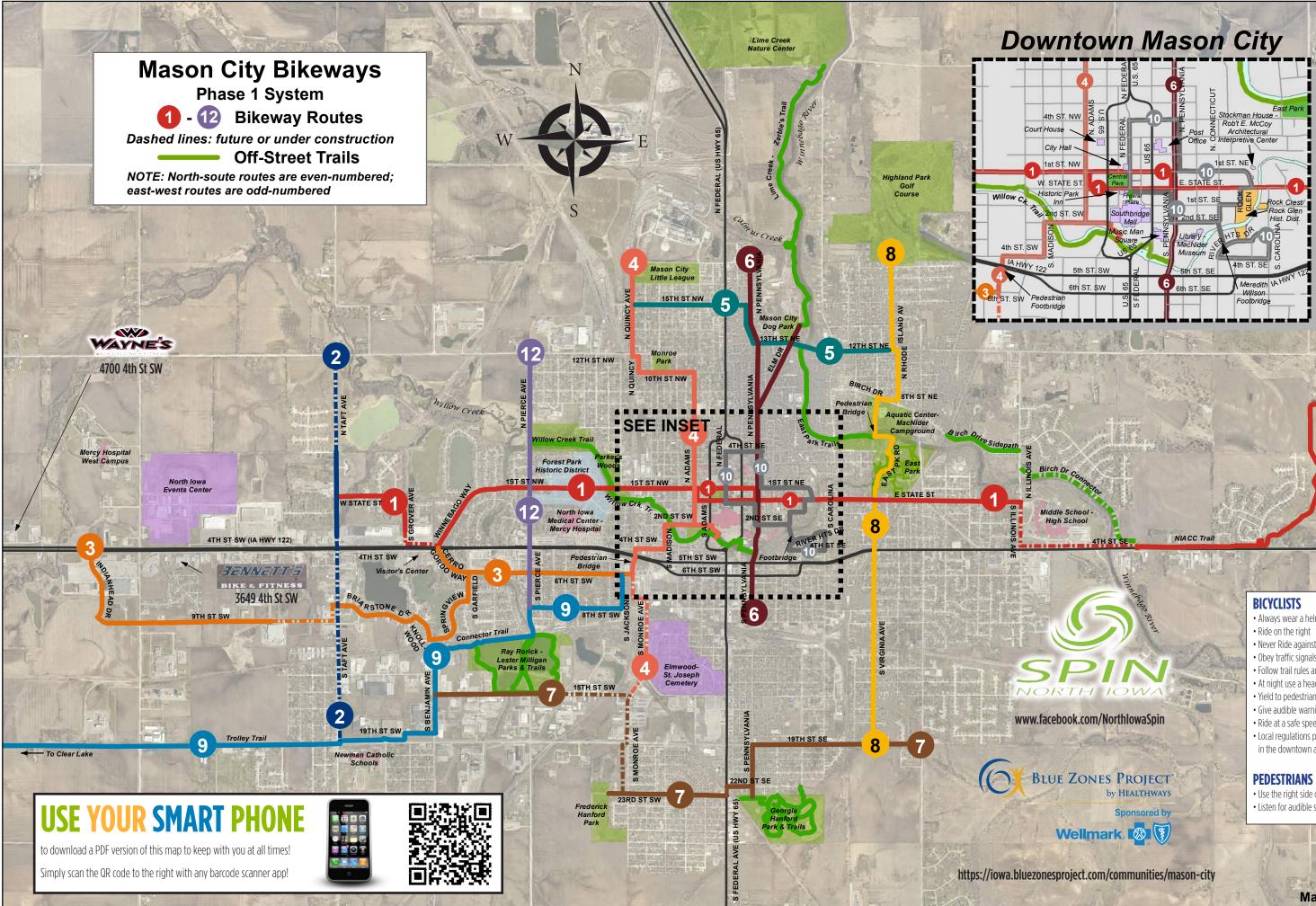
- Highland Park Golf Course
- Aquatic Center
- MacNider Campground
- East Park



TROLLEY TRAIL ROUTE: West **Connections to: Routes 1, 2, 3, 4**

- Clear Lake via Trolley Trail
- Lester Milligan/Ray Rorick Parks and trails
- Connection to Willow Creek Trail
- Downtown Mason City





Community College

4TH ST SE (IA HWY 122)

- Always wear a helmet
- Never Ride against traffic
- Obey traffic signals and signs
- Follow trail rules and hours
- At night use a headlight, taillight and reflectors
- Yield to pedestrians
- Give audible warnings when passing trail users
- Ride at a safe speed
- Local regulations prohibits riding on sidewalks in the downtown area

- Use the right side of the trail
- Listen for audible signals from passing users

Map Date 08/2015

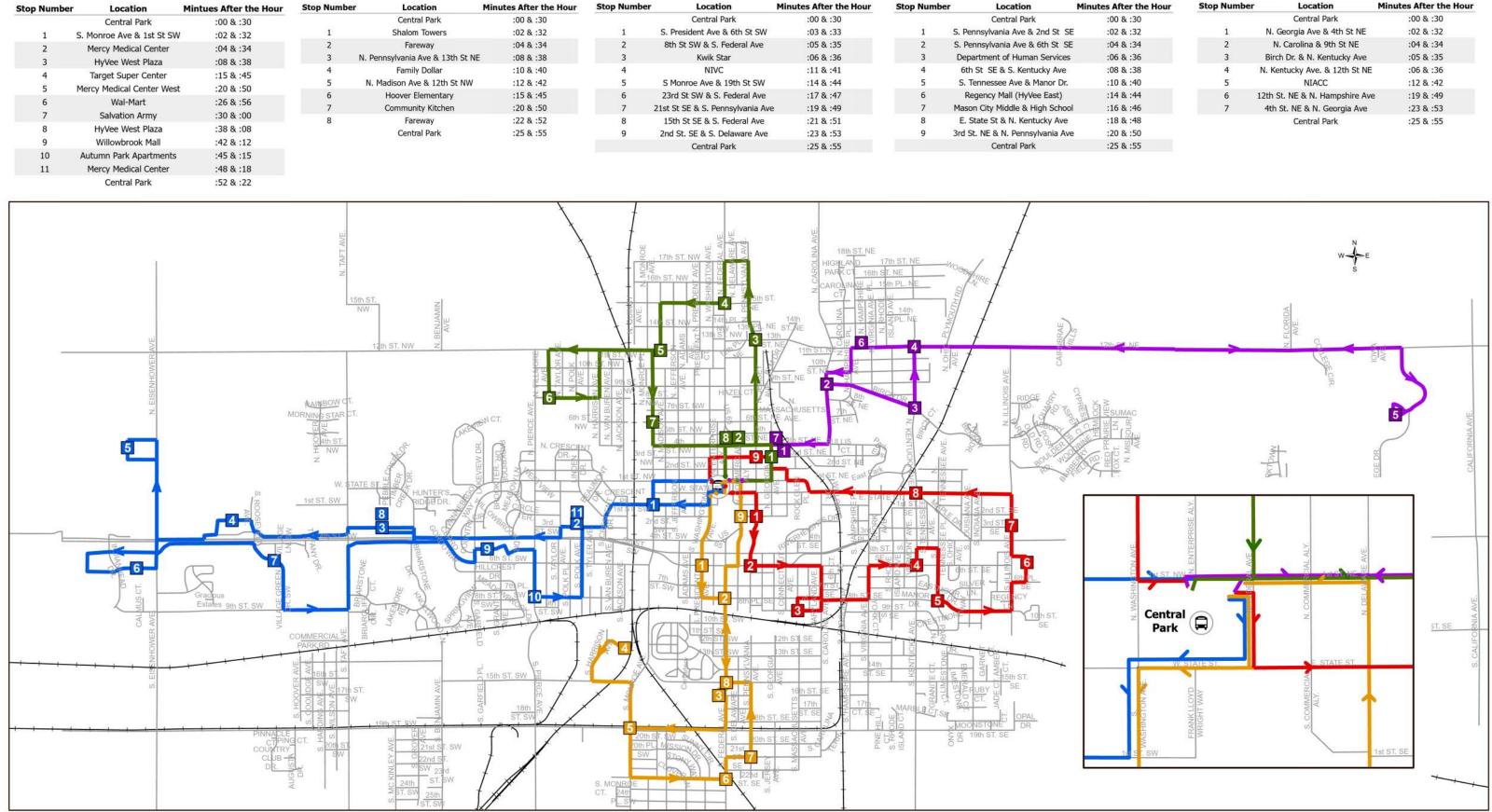
Mason City Transit System Routes

West Central Blue Route

North Central Green Route

South Central Orange Route

East Central Red Route



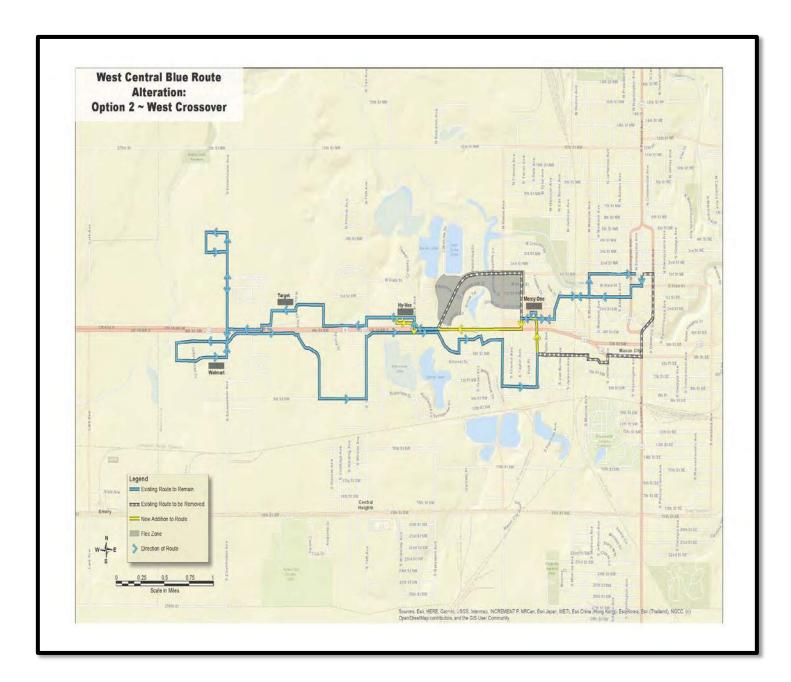
Northeast Purple Route

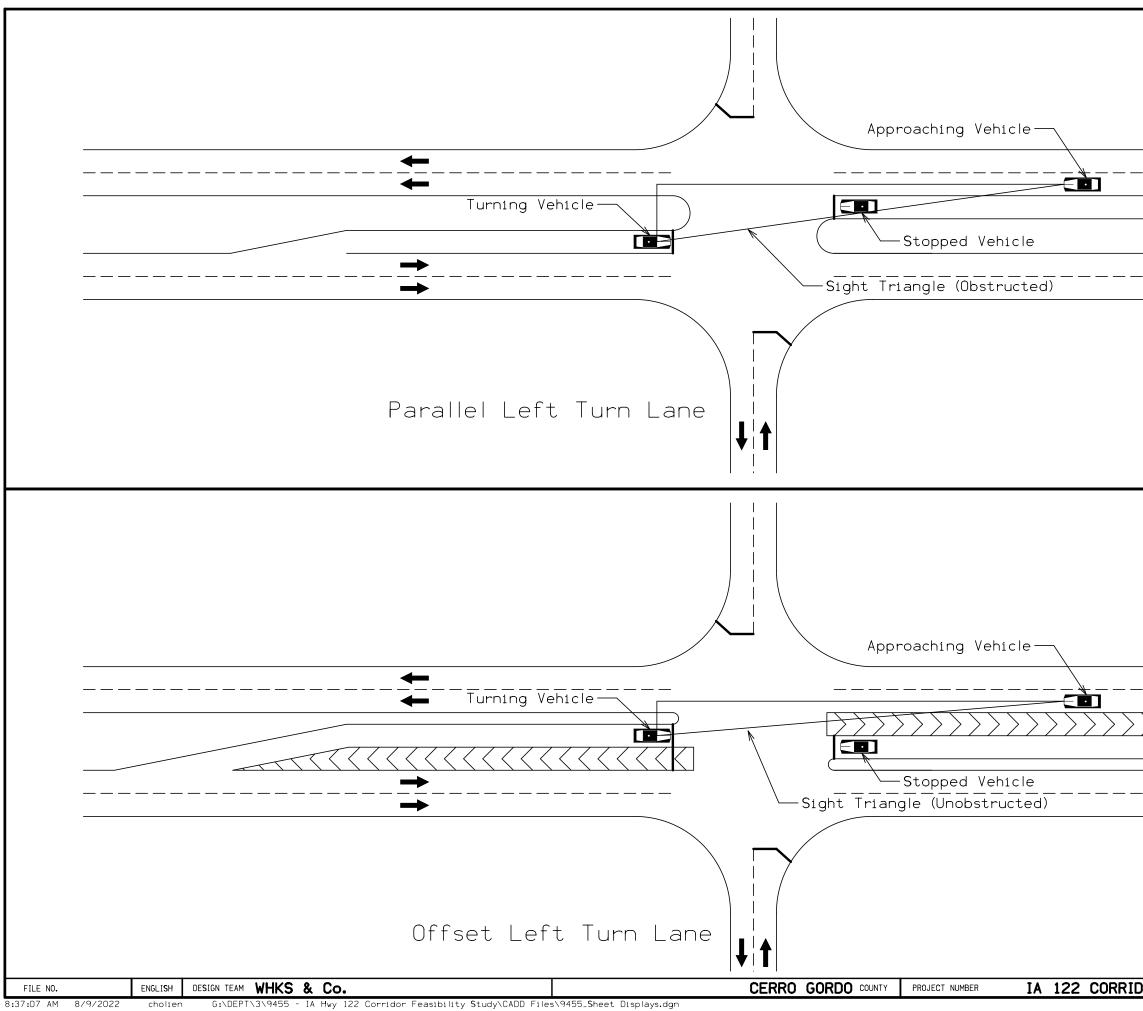
es After the Hour	Stop Number	Location	Minutes After the Hour
:00 & :30		Central Park	:00 & :30
:02 & :32	1	N. Georgia Ave & 4th St NE	:02 & :32
:04 & :34	2	N. Carolina & 9th St NE	:04 & :34
:06 & :36	3	Birch Dr. & N. Kentucky Ave	:05 & :35
:08 & :38	4	N. Kentucky Ave. & 12th St NE	:06 & :36
:10 & :40	5	NIACC	:12 & :42
:14 & :44	6	12th St. NE & N. Hampshire Ave	:19 & :49
:16 & :46	7	4th St. NE & N. Georgia Ave	:23 & :53
:18 & :48		Central Park	:25 & :55
:20 & :50			

Figure 7.4- Proposed West Express



Figure 7.5- Proposed Adjustment to West Central -Crossover





1	_eft Tu	rn la	ne
	Sight Ti		

Lark Avenue (S34) and IA 122 - Turning Lane Warrant Analysis (D. Little, 6-7-22)

Reference: Iowa DOT Design Manual Section 6C-5, 2004.

Right-turn lanes:

Warranting criteria:

Right-turn lanes are warranted if right turning traffic flow rate is greater than 30 vehicles per hour measured over a minimum of 15 minutes and either: a) approach volume is greater than 400 vehicles per hour, or b) approach truck traffic volume is greater than 20 vehicles per hour.

Traffic Volumes and Turning Movements:

Available Iowa DOT Turning movements date to 2005, which show a WB volume of 7370 vehicles per day (VPD) and an EB volume of 7664 VPD for an indicated daily traffic (ADT) at the intersection of 15,034 VPD. The Iowa DOT's 2020 *Volume of Traffic on the Primary Road System* gives the average annual daily traffic as being 12,300 VPD, which suggests the current traffic is somewhat lower than what it was in 2005.

For this analysis, it is assumed that the mainline traffic volumes of 2005 are conservative and will be used. Due to recent developments of the Cerro Gordo County Law Enforcement Center and the Engineer's Office/Garage, additional traffic will be added to the 2005 counts for the south leg of the intersection as follows:

- Add 150 trucks per day for the traffic associated with the County Engineer's garage, assume to be evenly distributed i.e. 50% of the trucks are turning right from EB IA 122, and 50% are turning left from WB IA 122.
- Add 1000 vehicles per day associated with county law enforcement center, assuming all are passenger vehicles. Distribution will be assumed to be 60% turning left from WB IA 122 and 40% turning right from EB IA 122.
- Conservatively, it's assumed that 15% of these added volumes will occur in the peak hour.

Warrants: WB Right Turn Lane

WB Right-Turning Traffic = 1 vehicle in peak hour (2005 counts) unmodified by recent developments as this turn is onto the north leg – **Warrant not met.**

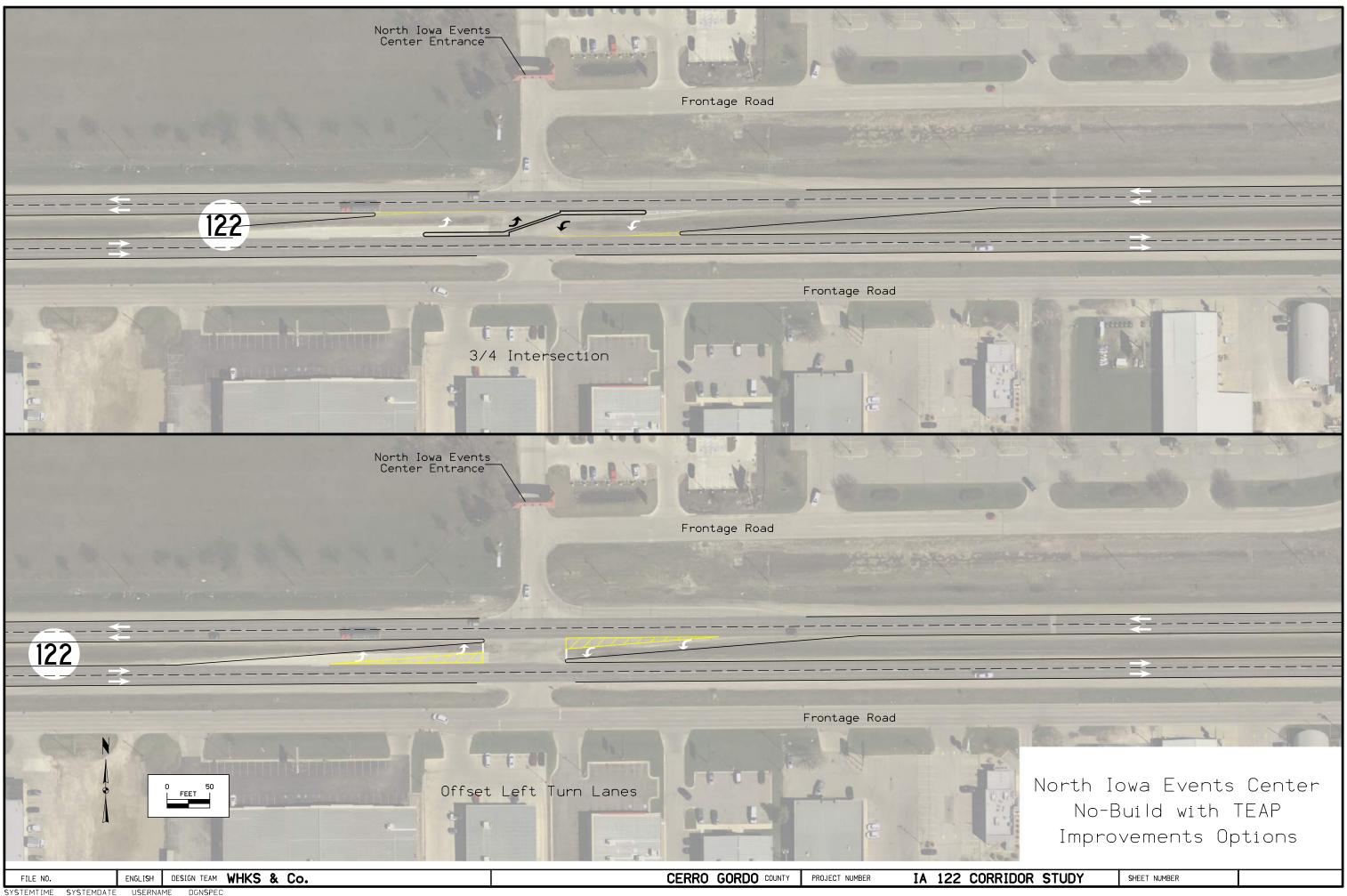
Warrants: EB Right Turn Lane

EB Right-Turning Traffic = 21 VPH peak hour + $0.15 \times 0.5 \times 150$ (allowance for Engineer) + $0.15 \times 0.40 \times 1000$ (Jail) = 32 VPH peak hour. Warrant minimally met.

And EB approach volume = 652 VPH (2005 counts) > 400 VPH – Warrant met

Or EB approach truck traffic = 44 trucks (2005 counts without modification for developments) > 20 VPH – **Warrant Met**

Left-Turn lanes already exist at this intersection, so warrants are not considered for this intersection.





ATTENDANCE ROLL PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room NAME / E-MAIL ADDRESS 843 7th St BE. VONO Nancy 315 Willowbrook Dr. 7. NUSC 2800 12th E 14025.1 ichl #206 630 1an 18 Lakeview 252 3rd nW MC atisis 5025 Filmore Ave MC # 206 MC 630 Bruarst mo A 361 S. Penn 1-D W Ć, 819 Mal ore Que. \$19 Ann St Sn 1109 MC un CP AGAN 361 S. PENN M.C. 2771 Rambow Coust 1021 N Pierce SVMONds/ anni) com

ATTENDANCE ROLL PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room ADDRESS NAME / E-MAIL doug brown 7466 WILLOW GREEN CT 53 Ι٧. Ogman SROWM 320 Ist St. NE * 109 ks Nelson NC 1512 ~ AJ mmall Circle, MC 38 Country ld Farm Rd Mc 20 904 6th St SE MC Van Steen 923 8 Sayuld low MC MANNE 3805. Yort town Dire 37 ERATB DR 1NGSTROU RI Country 2260 me 4275-12 St h 8 353 W. Now brook シシ 1401 S. Louissana AVA Oved K= 2821 1st 510 15833 NS Dr 12 Lakerra sman

ATTENDANCE ROLL							
PUBLIC INFORMATION MEETING							
FOR IA 122 Corridor Feasibility Study							
Mason	City, Iowa						
DATE: Ju	ly 13, 2022						
TIME: 5	5:30 p.m.						
Mason City Public Libr	rary – Mason City Room						
NAME / E-MAIL	ADDRESS						
Gene Anderson aggeteb@msn.com	1403 South Kentucky Ave MAEONERY IS.						
John Jaszenski	jaszejoh@gmail. Br						
TODD CASH	10631 285th St MC						
Ray Lallon	bely gyb E.E.						

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room Name and Address Stern Van Steenbrugse - 9046th St SE Comment: Pourda barts - yes They are safer They are not difficult to navigate They move traffic much more efficiently

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room Name and Address not a good idea. The age of the Comment: population in Mason City is average 56 m. + Older. They will have a frand time figuring this out in fishort period of time it takes to negoitiste the sound about as troppi will be in contant motion. Concercider groin trucks, t semi trucks. Their length is a problem. It is cheoper to charge a few turn signal than To put in these round abouts. People industant troffin lights. Insurance companies industand round abouts.

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room Name and Address Jim Karkos Comment: Fin thit heatent as to how well our position population as well as the extensive number of persons coming for connected commercial besiness to our community, will safely navigite merclabults.

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room Robert BUESING 2771 Rainbow Cit Mason City Name and Address Comment: I believe the Best design is with the Round abouts. There are way to many cars comincy at you. Ones trying to beat the lights. Cars Coming out from the Frontage Roads INto Trattic and those exiting on the Frontage Roads I do recomend you should have 35mph Speed limit the entire Length Owce you past tatt wow it goes to 45mph - Spee That speed will make entrance into the roundabats Jangerous

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room 6DD CASH 1063/ 2854 St MC 50401-9114 Name and Address ROUND ABOUTS !!! Comment: Let rid of as mony sisuals as possible Flesh fle yellow left arrows at all intersections in MK

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room 53 N- WILLOWGREEN CT Name and Address* POUG BROWN M-C. Comment: I AM AN OWNER OF PAPA'S E PRIME & WHE, I AM WORRIED THE IMPROVEMENTS WILL HURT BUSINESS DURING CONSTRUCTION. ALSO THE IMPROVEMENTS IN FRONT OF MY PROPERTY DOES NOT HELP IMPROVE TRAFFIC FLOW BY MY OPLNION.

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library – Mason City Room Anne Clausen de Montes Name and Address I am equally happy with either Comment: the roundabout or signal option, or a combination of both. I am most concerned (and Im stad to see the red pathways) with safe pedestrian and brough access along + across this stretch of highway serviors in Briaiston and Petable Creek out walkery, for employees of the businesses who must cross traffic (I was once one If back in Knait days), for parents My ST with young children in strollers, for clients of Prairie Ridge or inmates of the jail, for fourists crossing Detween s, restaurants + shopping. 1201 easell and just hope C Signap be ample. Lill Also please consider extending a foot/bile-trait. the airport + Los station & as an amenity as well

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room achille & Michaugalin Name and Address 1402 S. Delaware Comment: No Rounda Borts-Too many older people that don't drive well here anyway. I also had a friend killed on one by a semi - deal instantly,

COMMENT FORM PUBLIC INFORMATION MEETING FOR IA 122 Corridor Feasibility Study Mason City, Iowa DATE: July 13, 2022 TIME: 5:30 p.m. Mason City Public Library - Mason City Room Name and Address Name and Address Graig Clark 7871 1st 50. Comment: I have the round about plan. It's the future, I live in Florida in the winter. they are allover the place. Trraffic flows great.