

Appendix E

Evaluation Matrix

Rice County CSAH 1 Corridor Preservation Study Evaluation Matrix

	Concept 1A	Concept 1B	Concept 2	Concept 3A	Concept 3B	Concept 4A	Concept 4B	Concept 5A	Concept 5B	Concept 5C	Concept 6A	Concept 6B
Local Land Use and Transportation												
Objective 2.1: The proposed corridor meets the long-term local transportation mobility needs in the Northfield/Dundas area.	NO	NO	LIKELY	NOT LIKELY	NOT LIKELY	NO	NO	LIKELY	LIKELY	LIKELY	NOT LIKELY	NOT LIKELY
Evaluation Criteria												
Corridor and planned local collector system can be integrated?	YES	YES	YES	NOT LIKELY. Continuous Frontage Rd along the east side of TH 3 not achievable	NOT LIKELY. Continuous Frontage Rd along the east side of TH 3 not achievable	NO. Continuous Frontage Rd along the east side of TH 3 not achievable. Connection between Railway St and CR 76 not achievable	NO. Continuous Frontage Rd along the east side of TH 3 not achievable. Connection between Railway St and CR 76 not achievable	LIKELY. May require grade separation at CR 76/Railroad	LIKELY. May require grade separation at CR 76/Railroad	LIKELY. May require grade separation at CR 76/Railroad	NOT LIKELY. Continuous Frontage Rd along the east side of TH 3 not achievable	NOT LIKELY. Continuous Frontage Rd along the east side of TH 3 not achievable
Provides sufficient access to existing and future land uses, while meeting state and county access spacing guidelines?	NOT LIKELY. Corridor too far south to serve existing land uses	NOT LIKELY. Corridor too far south to serve existing land uses	LIKELY. CSAH 20 Access Spaced 1/4 mile East of TH 3	NOT LIKELY. Access to 1st Street. 3rd Street. Forest St not possible. Frontage Rd to properties adjacent to TH 3 not possible	NOT LIKELY. Access to 1st Street. 3rd Street. Forest St not possible. Frontage Rd to properties adjacent to TH 3 not possible	NO. Access challenges to commercial land uses in and around TH 3/Hester Street Intersection. Closure of 1st Street. 3rd Street. Archibald St Necessary	NO. Access challenges to commercial land uses in and around TH 3/Hester Street Intersection. Closure of 1st Street. 3rd Street. Archibald St Necessary	NOT LIKELY. Access to Cannon Rd and Jefferson Rd within 1/8 mile of TH 3 Intersection	NOT LIKELY. Access to Cannon Rd and Jefferson Rd within 1/8 mile of TH 3 Intersection	NOT LIKELY. Access to Cannon Rd and Jefferson Rd within 1/8 mile of TH 3 Intersection	LIKELY. Though Frontage Rd to properties adjacent to TH 3 not possible	LIKELY. Though Frontage Rd to properties adjacent to TH 3 not possible
Does not hinder City of Northfield's pursuit of a Cannon River Crossing?	NO. Does not address Northfield river crossing needs but may prevent consideration of 2nd river crossing	NO. Does not address Northfield river crossing needs but may prevent consideration of 2nd river crossing	NO. Does not address Northfield river crossing needs but may prevent consideration of 2nd river crossing	NO. Does not address Northfield river crossing needs but may prevent consideration of 2nd river crossing	NO. Does not address Northfield river crossing needs but may prevent consideration of 2nd river crossing	LIKELY. Attractive alternative for trips generating in Northfield; may also allow Northfield to pursue additional crossing	LIKELY. Attractive alternative for trips generating in Northfield; may also allow Northfield to pursue additional crossing	YES. would eliminate the need to consider additional crossing in Northfield	YES. would eliminate the need to consider additional crossing in Northfield	YES. would eliminate the need to consider additional crossing in Northfield	LIKELY. does not require a new bridge and allow Northfield to pursue additional crossing	LIKELY. does not require a new bridge and allow Northfield to pursue additional crossing
Provides for future bicycle/pedestrian trail continuity to local and regional trails and in a manner that is compatible with local and regional roadway systems?	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected
Objective 2.2: The proposed corridor meets the long-term local land use and infrastructure needs in Dundas and Northfield.												
Evaluation Criteria												
Provides a reasonable opportunity for future land use planning and development, while considering existing plans and development?	NOT LIKELY. Impact to bluff-wooded areas east of TH 3 will effect residential uses and vistas	NOT LIKELY. Impact to bluff-wooded areas east of TH 3 will effect residential uses and vistas	NOT LIKELY. Diagonal road alignment could impact the ability to site industrial uses; impact to bluff-wooded areas east of TH 3 will effect residential uses and vistas	NO. Impacts to several existing, developed properties	NO. Impacts to several existing, developed properties	NO. Impacts to several existing, developed properties, also impacts to existing and future residential areas and their vistas overlooking the bluff	NO. Impacts to several existing, developed properties, also impacts to existing and future residential areas and their vistas overlooking the bluff	YES	YES	YES	YES	YES
Allows for orderly extension of sewer and water trunk lines?	No Impacts Expected	No Impacts Expected	POSSIBLE IMPACT. Close proximity to trunk water main	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	POSSIBLE IMPACT. 2 trunk sewer mains & 1 trunk water main on existing CSAH 1 that converge & go north at Cannon Rd. trunk sewer & water main in CSAH 76	POSSIBLE IMPACT. 2 trunk sewer mains & 1 trunk water main on existing CSAH 1 that converge & go north at Cannon Rd. trunk sewer & water main in CSAH 76	POSSIBLE IMPACT. 2 trunk sewer mains & 1 trunk water main on existing CSAH 1 that converge & go north at Cannon Rd. trunk sewer & water main in CSAH 76	No Impacts Expected	No Impacts Expected
Minimizes acreage and number of section 4(f) Parkland impacts?	No Impacts Expected	No Impacts Expected	No Impacts Expected	Impact to City Park - Requires Relocation of Ball Field	Impact to City Park - May Not Require Relocation of Ball Field	Impact to City Park	Impact to City Park	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected
Minimizes impacts to highly desirable future residential areas?	PROBABLE IMPACT. Area along Cannon River. Near OAA Boundary. South of 115th St	PROBABLE IMPACT. Area along Cannon River. Near OAA Boundary. South of 115th St	PROBABLE IMPACT. Area along Cannon River	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	POSSIBLE IMPACT. Area along Cannon River. Near OAA Boundary	POSSIBLE IMPACT. Area along Cannon River. Near OAA Boundary
Allows for railroad spur lines for future industrial activities?	POSSIBLE IMPACT. Would not impede industrial spur line connecting to main line	POSSIBLE IMPACT. Would not impede industrial spur line connecting to main line	POSSIBLE IMPACT. Would not impede industrial spur line connecting to main line	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	POSSIBLE IMPACT. Would not impede industrial spur line connecting to main line	POSSIBLE IMPACT. Would not impede industrial spur line connecting to main line
Environmental and Cultural Resources												
Objective 3.1: The proposed corridor minimizes impacts to farm operations.	NOT LIKELY	NO	LIKELY	YES	YES	LIKELY	YES	LIKELY	LIKELY	LIKELY	NOT LIKELY	LIKELY
Evaluation Criteria												
Minimizes acreage of prime farmland impacted? (TOTAL)	47 Acres Impacted	58 Acres Impacted	31 Acres Impacted	27 Acres Impacted	27 Acres Impacted	27 Acres Impacted	23 Acres Impacted	37 Acres Impacted	32 Acres Impacted	30 Acres Impacted	40 Acres Impacted	29 Acres Impacted
	23	32	20	15	15	15	6	19	16	8	26	8
Minimizes the number of farmland severances (A severance is considered a division of tillable land into parcels smaller than 40 acres located outside of the City of Dundas orderly annexation area)	24	16	11	12	12	12	17	18	16	22	14	21
	1	2	0	0	0	0	0	0	2	2	1	2
Objective 3.2: The proposed corridor minimizes impacts to wetlands, floodplain, river/stream crossings, and other natural features.	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS	PENDING FURTHER ANALYSIS
Evaluation Criteria												
Minimizes the acreage of wetland impacts and provides opportunity for mitigation?	2.3 Acres Impacted	0.6 Acres Impacted	0.8 Acres Impacted	0.3 Acres Impacted	0.9 Acres Impacted	1.3 Acres Impacted	1.3 Acres Impacted	1.5 Acres Impacted	1.5 Acres Impacted	1.5 Acres Impacted	2.3 Acres Impacted	0.6 Acres Impacted
Avoids impacts to DNR protected waters?	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected
Avoids or minimizes impacts to Cannon River Wild and Scenic designated	LIKELY. Crosses near existing bridge (TH 3)	LIKELY. Crosses near existing bridge (TH 3)	NOT LIKELY. Crosses in area with minimal disturbance; however area is near existing developments	YES. Crosses in area already disturbed by urban land uses	YES. Crosses in area already disturbed by urban land uses	YES. Crosses in area already disturbed by urban land uses; existing bridge	YES. Crosses in area already disturbed by urban land uses; existing bridge	NO. Crosses in area with minimal disturbance for extended distance	NO. Crosses in area with minimal disturbance for extended distance	NO. Crosses in area with minimal disturbance for extended distance	YES. No new crossing necessary	YES. No new crossing necessary
Minimizes cuts into the steepest bluff/ravine areas?	2200 FT CUT (>10 FT) HT OF 50 FT	1900 FT CUT (>10 FT) HT OF 60 FT	2800 FT CUT (>10 FT) HT OF 52 FT	2450 FT CUT (>10 FT) HT OF 68 FT	2450 FT CUT (>10 FT) HT OF 68 FT	4150 FT CUT (>10 FT) HT OF 80 FT	1750 FT CUT (>10 FT) HT OF 33 FT AND 800 FT CUT (>10 FT) HT OF 80 FT	1500 FT CUT (>10 FT) HT OF 27 FT	1500 FT CUT (>10 FT) HT OF 27 FT	1500 FT CUT (>10 FT) HT OF 27 FT	2450 FT CUT (>10 FT) HT OF 68 FT	2450 FT CUT (>10 FT) HT OF 68 FT
Minimizes acreage of floodplain impacts and provides opportunity for mitigation	2.2 Acres Impacted	2.1 Acres Impacted	2.1 Acres Impacted	1.5 Acres Impacted	1.5 Acres Impacted	1.5 Acres Impacted	1.5 Acres Impacted	3.8 Acres Impacted	3.8 Acres Impacted	3.8 Acres Impacted	0.0 Acres Impacted	0.0 Acres Impacted
Minimizes the number of new stream/watercourse crossings?	NOT LIKELY. Would require at least one additional crossing, probably second crossing in Northfield	NOT LIKELY. Would require at least one additional crossing, probably second crossing in Northfield	NOT LIKELY. Would require at least one additional crossing, probably second crossing in Northfield	NOT LIKELY. Would require at least one additional crossing, probably second crossing in Northfield	NOT LIKELY. Would require at least one additional crossing, probably second crossing in Northfield	LIKELY. Would replace existing crossing, however Northfield may pursue additional crossing	LIKELY. Would replace existing crossing, however Northfield may pursue additional crossing	YES. Would require additional crossing that meets the needs of all local communities	YES. Would require additional crossing that meets the needs of all local communities	YES. Would require additional crossing that meets the needs of all local communities	LIKELY. Would not require additional crossing, however Northfield may pursue additional crossing	LIKELY. Would require additional crossing, however Northfield may pursue additional crossing
Minimizes impacts to quality wooded areas?	5.4 Acres Impacted	5.9 Acres Impacted	7.2 Acres Impacted	4.5 Acres Impacted	4.9 Acres Impacted	7.8 Acres Impacted	5.8 Acres Impacted	0.0 Acres Impacted	0.0 Acres Impacted	0.0 Acres Impacted	4.5 Acres Impacted	4.5 Acres Impacted
Objective 3.3: The proposed corridor minimizes impacts to hazardous sites.	LIKELY	YES	YES	YES	YES	NOT LIKELY	NOT LIKELY	LIKELY	LIKELY	LIKELY	YES	YES
Evaluation Criteria												
Avoids impacts to known hazardous waste sites?	POSSIBLE IMPACTS. Nike Radar Site Location Unconfirmed	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	PROBABLE IMPACTS. Auto Repair Bld at Hester Street	PROBABLE IMPACTS. Auto Repair Bld at Hester Street	POSSIBLE IMPACTS. Dundas Maintenance Garage	POSSIBLE IMPACTS. Dundas Maintenance Garage	POSSIBLE IMPACTS. Dundas Maintenance Garage	No Impacts Expected	No Impacts Expected
Objective 3.4: The proposed corridor minimizes impacts to the natural heritage or threatened and endangered species.	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY	LIKELY
Evaluation Criteria												
Has a low likelihood of impacting the natural heritage as documented through the State Historic Preservation Office and cultural resources field review? (Archeological and Historical Sites)	NOT LIKELY. Archeological site east of TH 3, south of CR 20. Additional Investigation Necessary. Unfounded by Christine Harrison Investigation in 1995	NOT LIKELY. Archeological site east of TH 3, south of CR 20. Additional Investigation Necessary. Unfounded by Christine Harrison Investigation in 1995	No Impacts Expected	NOT LIKELY. Physical Impacts Not Likely to Non-Register Historic Site at 2nd St and Bridge St. Visual Impact Possible	NOT LIKELY. Physical Impacts Not Likely to Non-Register Historic Site at 2nd St and Bridge St. Visual Impact Possible	NOT LIKELY. Physical Impacts Not Likely to Non-Register Historic Site at 2nd St and Bridge St. Visual Impact Possible	NOT LIKELY. Physical Impacts Not Likely to Non-Register Historic Site at 2nd St and Bridge St. Visual Impact Possible	NOT LIKELY. Archeological site near cemetery. Additional Investigation Necessary. Unfounded by Christine Harrison Investigation in 1995	NOT LIKELY. Archeological site near cemetery. Additional Investigation Necessary. Unfounded by Christine Harrison Investigation in 1995	NOT LIKELY. Archeological site near cemetery. Additional Investigation Necessary. Unfounded by Christine Harrison Investigation in 1997	No Impacts Expected	No Impacts Expected
Has a low likelihood of impacting threatened or endangered species as documented through the DNR National Heritage Database?	POSSIBLE IMPACTS. Additional Investigation Necessary	POSSIBLE IMPACTS. Additional Investigation Necessary	POSSIBLE IMPACTS. Additional Investigation Necessary	POSSIBLE IMPACTS. Additional Investigation Necessary	POSSIBLE IMPACTS. Additional Investigation Necessary	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	POSSIBLE IMPACTS. Additional Investigation Necessary	POSSIBLE IMPACTS. Additional Investigation Necessary
Objective 3.5: The proposed corridor minimizes impacts to protected groups of people or low-income people.	YES	YES	YES	NOT LIKELY	NOT LIKELY	YES	YES	YES	YES	YES	YES	YES
Evaluation Criteria												
Has a low likelihood of impacting disadvantaged groups of persons?	No Impacts Expected	No Impacts Expected	No Impacts Expected	Impact to 2 Low-Income Family Residences Possible	Impact to 2 Low-Income Family Residences Likely	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected	No Impacts Expected

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