Appendix A Detailed Cost Estimate

Appendix A **Detailed Roadway Cost Estimate (2003 Dollars)** 14 West IRC: North Mankato to New Ulm TH 15 to CSAH 6

Alternativ		es		Base Roadway	Right of Way	County/ Township	Additional Construction	Description	Construction Multiplier	Roadway Length	Roadway Construction	Construction Multiplier	Roadway Length	Roadway Construction	Total Roadway	Total Project	Total Project
				Cost	Cost	Road Improvements	Cost		(New Alignment)	(New Alignment)	Cost (New Alignment)	(Ex. Alignment)	(Ex. Alignment)	Cost (Ex. Alignement)	Length	Cost (unrounded)	Cost
Segm	ent A	Alt.	Existing Alignment Alternatives	(million \$/mile)					(million \$/mile)	(miles)	(million \$)	(million\$/mile)	(miles)	(million \$)	(miles)	(million \$)	(million \$)
Hwy. 14/15		Α	No-Build (Rural Two-Lane)	\$0	0%	0%	0%		\$0.0	0	\$0.00	\$0.0	4.1	\$0.00	4.1	\$0.00	\$0.0
		В	Existing Alignment (Rural Four-Lane)	\$2	5%	5%	0%		\$2.2	0	\$0.00	\$2.2	4.1	\$9.12	4.1	\$9.12	\$9.1
		N1	River Valley Alignment (Rural Four-Lane)	\$2	15%	5%	0%		\$2.4	1.1	\$2.60	\$2.2	3.0	\$6.71	4.1	\$9.31	\$9.3
	1	N2	Hwy. 14/15 Top of Bluff Alignment (Rural Four-Lane)	\$2	15%	5%	10%	Grading	\$2.6	2.2	\$5.64	\$2.2	2.1	\$4.61	4.3	\$10.26	\$10.3
	ı	N3	Hwy. 14/15/37 Top of Bluff Alignment (Rural Four-Lane)	\$2	15%	5%	10%	Grading	\$2.6	3.5	\$8.98	\$2.2	0.8	\$1.75	4.2	\$10.72	\$10.7
	ı	N4	Courtland Top of Bluff Alignment (Rural Four-Lane)	\$2	15%	5%	10%	Grading	\$2.6	4.1	\$10.56	\$0.0	0	\$0.00	4.1	\$10.56	\$10.6
Courtland		Α	No-Build (Urban Two-Lane, Courtland)	\$0	0%	0%	0%		\$0.0	0	\$0.00	\$0.0	1.1	\$0.00			
		Α	No-Build (Rural Two-Lane)	\$0	0%	0%	0%		\$0.0	0	\$0.00	\$0.0	6.2	\$0.00	7.3	\$0.00	\$0.0
		В	Existing Alignment (Urban Four-Lane, Courtland)	\$2	15%	5%	10%	Drainage	\$2.6	0	\$0.00	\$2.6	1.1	\$2.78			
		В	Existing Alignment (Rural Four-Lane)	\$2	5%	5%	0%		\$2.2	0	\$0.00	\$2.2	6.2	\$13.65	7.3	\$16.43	\$16.4
		N1	Courtland Northern Bypass #1 (Rural Four-Lane)	\$2	15%	5%	0%		\$2.4	5.1	\$12.34	\$2.2	2.2	\$4.73	7.3	\$17.07	\$17.1
	ı	N2	Courtland Northern Bypass #2 (Rural Four-Lane)	\$2	15%	5%	0%		\$2.4	6.2	\$14.77	\$2.2	1.1	\$2.41	7.2	\$17.18	\$17.2
Nicollet 3		Α	No-Build (Urban Two-Lane, Nicollet)	\$0	0%	0%	0%		\$0.0	0	\$0.00	\$0.0	1.1	\$0.00			
		Α	No-Build (Rural Two-Lane)	\$0	0%	0%	0%		\$0.0	0	\$0.00	\$0.0	9.3	\$0.00	10.4	\$0.00	\$0.0
		В	Existing Alignment (Urban Four-Lane, Nicollet)	\$2	15%	5%	10%	Drainage	\$2.6	0	\$0.00	\$2.6	1.1	\$2.98			
		В	Existing Alignment (Rural Four-Lane)	\$2	5%	5%	0%		\$2.2	0	\$0.00	\$2.2	9.3	\$20.41	10.4	\$23.39	\$23.4
	;	S1	Nicollet Southern Bypass #1 (Rural Four-Lane)	\$2	15%	5%	0%		\$2.4	2.8	\$6.78	\$2.2	7.4	\$16.32	10.2	\$23.09	\$23.1
	;	S2	Nicollet Southern Bypass #2 (Rural Four-Lane)	\$2	15%	5%	0%		\$2.4	4.2	\$10.07	\$2.2	6.1	\$13.32	10.3	\$23.39	\$23.4

Source: Howard R. Green Company

- NOTES:

 1.) Road costs are based on an average cost of \$2.0 Million per mile for 4-lane roadways with additions for right-of-way acquisition, drainage, and grading.

 2.) Segment 1 is defined along TH 14 as TH 15 to Township Road 150, just west of Courtland.

 3.) Segment 2 is defined along TH 14 as Township Road 150, just west of Courtland, to Township
- Road 166, midway between Courtland and Nicollet.
 Segment 3 is defined along TH 14 as Township Road 166, midway between Courtland and Nicollet, to CSAH 6, west of North Mankato.
- 5.) All alternatives include construction costs for the proposed new alignment, where applicable, and reconstruction of the existing alignment.
- 6.) No-Build alternatives do not include normal maintenance costs or projects to maintain the
- existing roadway.

 7.) All costs represented are in 2003 dollars.



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Matrix_Project Cost Est.xls