

**U.S. 30 Interchanges and Roadways
I-35 to Nevada, Iowa**

**Engineer's Opinion of Probable Construction Cost - Concept 1 Study Phase
HR Green, Inc. - May 2016**

ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE	INTERCHANGE - 1 (580th Ave)				INTERCHANGE - 2 (600th Ave)				INTERCHANGE - 3 (County Rd S14)				TOTALS
				PROPER (Yellow)		LOCAL (Orange)		PROPER (Yellow)		LOCAL (Orange)		* PROPER (Yellow)		LOCAL (Orange)		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
1	PAVEMENT REMOVAL	LN MI	\$ 80,000.00	0.6	\$ 48,000	0.2	\$ 16,000	0.6	\$ 48,000	0.0	\$ -	0.6	\$ 48,000	2.1	\$ 168,000	\$ 328,000
2	EARTHWORK	CY	\$ 10.00	100,000.0	\$ 1,000,000	30,000.0	\$ 300,000	100,000.0	\$ 1,000,000	30,000.0	\$ 300,000	120,000.0	\$ 1,200,000	30,000.0	\$ 300,000	\$ 4,100,000
3	SUBBASE	LN MI	\$ 70,000.00	2.4	\$ 168,000	7.2	\$ 504,000	2.4	\$ 168,000	3.8	\$ 266,000	2.7	\$ 189,000	2.0	\$ 140,000	\$ 1,435,000
4	PAVEMENT	LN MI	\$ 550,000.00	2.4	\$ 1,320,000	7.2	\$ 3,960,000	2.4	\$ 1,320,000	3.8	\$ 2,090,000	2.7	\$ 1,485,000	2.0	\$ 1,100,000	\$ 11,275,000
5	DRAINAGE (SEWER / CULVERTS)	LN MI	\$ 200,000.00	2.4	\$ 480,000	7.2	\$ 1,440,000	2.4	\$ 480,000	3.8	\$ 760,000	2.7	\$ 540,000	2.0	\$ 400,000	\$ 4,100,000
6	UTILITIES (WATER / SANITARY)	LN MI	\$ 150,000.00	2.4	\$ 360,000	7.2	\$ 1,080,000	2.4	\$ 360,000	3.8	\$ 570,000	2.7	\$ 405,000	2.0	\$ 300,000	\$ 3,075,000
7	BRIDGES	SF	\$ 125.00	15,400.0	\$ 1,925,000	0.0	\$ -	15,400.0	\$ 1,925,000	0.0	\$ -	31,802.0	\$ 3,975,250	0.0	\$ -	\$ 7,825,250
8	MSE WALLS	SF	\$ 60.00	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	\$ -
9	LIGHTING	LN MI	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	\$ -
10	TRAFFIC CONTROL, SIGNING, MARKINGS (5%)	LS	Varies	1.0	\$ 265,050	0.1	\$ 365,000	1.0	\$ 265,050	0.1	\$ 199,300	1.0	\$ 392,113	0.1	\$ 120,400	\$ 1,606,913
11	MOBILIZATION (5%)	LS	Varies	1.0	\$ 265,050	0.2	\$ 365,000	1.0	\$ 265,050	0.2	\$ 199,300	1.0	\$ 392,113	0.2	\$ 120,400	\$ 1,606,913
12	SURVEY (2%)	LS	Varies	1.0	\$ 106,020	0.2	\$ 146,000	1.0	\$ 106,020	0.2	\$ 79,720	1.0	\$ 156,845	0.2	\$ 48,160	\$ 642,765
A	SUBTOTAL ITEMS				\$ 5,937,120		\$ 8,176,000		\$ 5,937,120		\$ 4,464,320		\$ 8,783,320		\$ 2,696,960	\$ 35,994,840
B	CONSTRUCTION CONTINGENCIES (30%)				\$ 1,781,136		\$ 2,452,800		\$ 1,781,136		\$ 1,339,296		\$ 2,634,996		\$ 809,088	\$ 10,798,452
2016	SUBTOTAL CONSTRUCTION COSTS (A+B)				\$ 7,718,256		\$ 10,628,800		\$ 7,718,256		\$ 5,803,616		\$ 11,418,316		\$ 3,506,048	\$ 46,793,292
0	YEARS UNTIL CONSTRUCTION (INFLATION)				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
C	SUBTOTAL CONSTRUCTION COSTS (W/ INFLATION)				\$ 7,718,256		\$ 10,628,800		\$ 7,718,256		\$ 5,803,616		\$ 11,418,316		\$ 3,506,048	\$ 46,793,292
2016	TOTAL CONSTRUCTION COSTS (rounded)				\$18,300,000				\$13,500,000				\$14,900,000			\$ 46,700,000
	PRELIMINARY AND FINAL DESIGN	LS	\$ -													TBD
	CONSTRUCTION ADMIN. & OBSERVATION	LS	\$ -													TBD
	RIGHT-OF-WAY & PERMANENT EASEMENTS	SF	\$ -													TBD
	TEMPORARY CONSTRUCTION EASEMENTS	SF	\$ -													TBD
2016	TOTAL PROJECT COST															\$ 46,700,000

NOTES / ASSUMPTIONS

- In general, Interchange "Proper" includes an area within the extents of interchange ramps plus 600-feet outside of ramp / sideroad terminals. Interchange "Local" includes the area outside of Interchange Proper.
- Each Interchange area (i.e. 1, 2, and 3) encompasses a two mile corridor centered over the referenced sideroad. For example, "Interchange - 2" encompasses the area from 580th Ave to Hwy S14 centered over 600th Ave.
- 4.5% annual inflation rate used for construction costs, if applicable.
- Preliminary and Final Design costs not included.
- Construction Administration costs not included.
- Right-of-Way / Easement costs not included.