

## Intersection Operational Analysis Manhour and Fee Estimate

Lawrence, Kansas

December 24, 2013

Task Description	Team/SR Leader/Engr. \$160	Assistant Engineer \$80	Technician \$60	Admin \$50	Total
Task - Project Management	3	3			\$720
Task 1 - Manual Turning Traffic Counts (9th & RL, 21st & Iowa)	1	2	14		\$1,160
Task 1a - 24-hour counts	1	6	16		\$1,600
Task 1b - Manual Turning Traffic Counts (3 Additional)	1	2	21		\$1,580
Task 2 -signal warrants (two intersections)	1	12	3		\$1,300
Task 2a - Crash History (signal warrant)	2	16	8		\$2,080
Task 3 - Existing + Transit center trips	1	3	2		\$520
Task 3a Add cut through	1	4			\$480
Task 4 - Existing conditions	2	6			\$800
Task 4a -Existing + Transit	2	5			\$720
Task 5 - Geotech					\$6,500
Task 6 - Report & Estimates	8	30	20	2	\$4,980
Task 7 - Meetings (Assume Two)	9	9			\$2,160
<b>Sub-Totals - Man Hours</b>	<b>32</b>	<b>98</b>	<b>84</b>	<b>2</b>	<b>\$24,600</b>

Traffic Counters	10	Traffic Counter	\$25.00 /Day	\$250
24-hour Counts	8	Counts @	\$50.00 / Day	\$400
Mileage	500	Miles @	\$0.550 /Mile	\$275.000
Reports	6	Reports @	\$45.00 /Report	\$270
<b>Sub-Total - Direct Costs</b>				<b>\$1,195</b>
<b>Total Project</b>				<b>\$25,795</b>

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Task - Project Management	3				\$480
Task 1 - Manual Turning Traffic Counts	1	2	14		\$1,160
Task 1a - 24-hour counts	1	6	16		\$1,600
Task 2 -signal warrants (two intersections)	1	12	3		\$1,300
Task 2a - Crash History (signal warrant)	2	16	8		\$2,080
Task 3 - Existing + Transit center trips	1	3	2		\$520
Task 3a Add cut through	1	4			\$480
Task 4 - Existing conditions	1	3			\$400
Task 4a -Existing + Transit	1	2			\$320
Task 5 - Geotech					\$6,500
Task 6 - Report & Estimates	8	24	16	2	\$4,260
Task 7 - Meetings (Assume Three)	6				\$960
<b>Sub-Totals - Man Hours</b>	<b>26</b>	<b>72</b>	<b>59</b>	<b>2</b>	<b>\$13,560</b>

Traffic Counters	4	Traffic Counter	\$25.00 /Day	\$100
24-hour Counts	8	Counts @	\$50.00 / Day	\$400
Mileage	300	Miles @	\$0.550 /Mile	\$165.000
Reports	4	Reports @	\$45.00 /Report	\$180
<b>Sub-Total - Direct Costs</b>				<b>\$845</b>
<b>Total Project</b>				<b>\$20,905</b>