ATTACHMENT A

National Cooperative Highway Research Program
Transportation Research Board
National Research Council

Progress Schedule

Consideration of Roadside Features in the Highway Safety Manual

NCHRP Project No. 17-54
Research Agency: Roadsafe LLC
Principal Investigator: Malcolm H. Ray

Phase	Research Task	2011								2012												2013												2014							Total Funds %	Estimated Task Complete
		A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
I	1. Literature Review	50	100																																							3	
		25	50	60	70	80	90	90	90	90	100																															3	100
	2. Identify CMFs	25	50	75	100																																					6	
		10	20	30	40	50	60	60	60	60	70	80	100																													6	100
	3. Survey	25	50	75	100																																					2	
		25	50	75	80	90	100																																			2	100
	4. HSM v. RSAP					25	50	75	100																																	5	
								50	75	100																																5	100
	5. Sample Scenarios					25	50	75	100																																	7	
								50	75	100																																7	100
	6. Recommendations					25	50	75	100																																	4	
										25	50	75	100																													4	100
	7. Prioritized list of CMFs					25	50	75	100																																	4	
										25	50	75	100																													4	100
	8. Interim Report									50	100																															2	
											30	50	90	95	95	100																										2	100
	9. Develop SPFs											5	10	15	19	24	29	34	38	43	48	53	57	62	67	72	76	81	86	91	95	100										7	
																	2	3	5	10	15	20	45	55	65	68	70	72	80	85	86	88	90	92	95	98	100					7	100
II	10. Develop CMFs																											10	20	30	40	50	60	70	80	90	100					15	
																																						25	35	65	80	12	80
	11. RSAP Improvements																																									3	
																				5	5	5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	1	25
	12. Final Report																																									3	
																																										0	0
III	13. Urban ROR SFP																																									0	
																																										0	0
	14. Urban CMFs																																									0	
																																										0	0
	15. RSAP Improvements																																									0	
																																										0	0
	16. Final Report																																									0	
																																										0	0
	Actual Overall Completed	2	4	5	6	7	8	14	17	22	26	29	33	33	33	33	33	33	33	34	34	35	37	38	38	39	39	39	40	40	40	40	40	40	41	41	41	45	46	51	53	100	53
	Planned Overal Completed	2	4	6	8	13	18	23	28	29	30	31	31	31	32	32	32	33	33	33	34	34	34	35	35	35	36	38	40	41	43	38	39	41	42	44	45	45	45	45	45		45
	Deliverables																																										

DFR = Draft final report FR = Final report

Phase	Research Task	2014					2015												2016																								2017							Total Funds %	Estimated Task Complete
		A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	M	J	J	A	M	J	J	A	M	J	J		
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	40		
I	1. Literature Review																																									3	
																																										3	100
	2. Identify CMFs																																									6	
																																										6	100
	3. Survey																																									2	
																																										2	100
	4. HSM v. RSAP																																									5	
																																										5	100
	5. Sample Scenarios																																									7	
																																										7	100
	6. Recommendations																																									4	
																																										4	100
	7. Prioritized list of CMFs																																									4	
																																										4	100
	8. Interim Report																																									2	
																																										2	100
	9. Develop SPFs																																									7	
																																										7	100
II	10. Develop CMFs																																									15	
		80	81	82	83	84	84	85	85	85	85	85	88	92	95																											14	95
	11. RSAP Improvements									10	20	30	40	50	60	70	80	90	100																							3	
		25	25	25	25	25	25	25	25	25	25	25	25	25	25																											1	25
	12. Final Report																25	50	90	Rev	100																					3	
												1	2	3	5																											0	5
III	13. Urban ROR SFP											10	20	30	40	50	60	70	80	90	100																					13	
												1	2	3	5																											1	5
	14. Urban CMFs									10	20	30	40	50	60	70	80	90	100																							22	
																																										0	0
	15. RSAP Improvements									10	20	30	40	50	60	70	80	90	100																							2	
																																										0	0
	16. Final Report																25	50	90	Rev	100																					2	
																																										0	0
	Actual Overall Completed	53	53	53	54	54	54	54	54	54	54	54	55	55	56																											100	56
	Planned Overal Completed	53	53	53	53	53	53	53	53	55	58	62	66	70	74	78	83	88	94	96	100																						100
	Deliverables																		DF		FR																						

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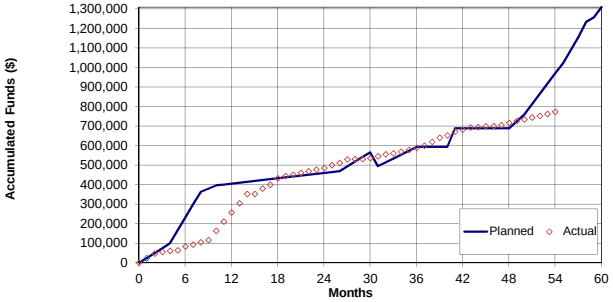
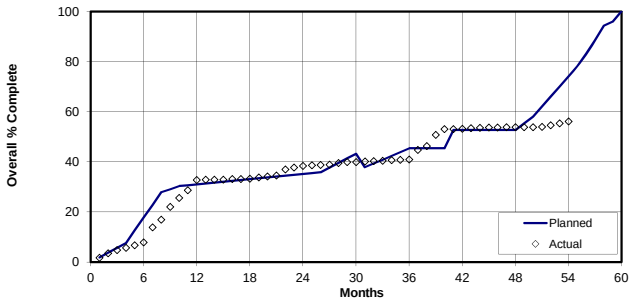
Fig. A -- Overall Project Schedule

Fig. B -- Contract Funds



Funds Expended	96.56%
Contract Amount:	$ 1,310,000
Expended this quarter:	$39,155
Total expended to date:	$772,488
Balance	$537,512

Fig. C -- Contract Progress



Time Expended:	90%
Start Date:	4/4/2011
Completion Date:	3/31/2016