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	3	7	8	10	15	20	26	31	32	33	33	34	34	34	35	35	35	36	36	36	37	37	38	38	38	39	40	42	44	46	41	42	44	45	47	48	48	48	48	48		48
	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		
		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 Rural SPFs																																												7	
																																													7	100
II	10. Develop Rural CMFs																																												15	
		80	81	82	83	84	84	85	85	85	85	85	88	92	95	95	95	95	95	95	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	25	25	25	25	25	25																							1	25
	12. Final Report																							25	50	90	Rev	100																	3	
																	2	3	5	6	10																								0	10
III	13. Urban ROR SFP																	10	20	30	40	50	60	70	80	90	100																		13	
														5	5	10	15	20	30	40																								5	40
	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	55	55	56	57	59	61	71	71	71	71	71	71																							100	71
	Planned Overal Completed	55	55	55	55	55	55	55	55	58	61	65	69	73	77	81	86	91	97	99	100																								100
	Deliverables																									DF		FR																	

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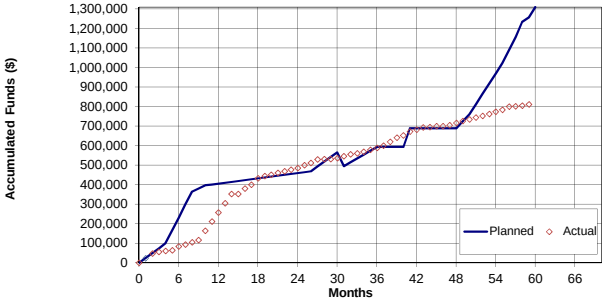
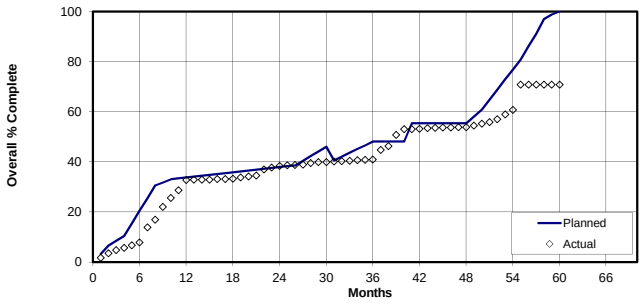
Fig. A -- Overall Project Schedule

Fig. B -- Contract Funds



Funds Expended	101.32%
Contract Amount:	$ 1,310,000
Expended this quarter:	$10,691
Total expended to date:	$810,569
Balance	$499,431

Fig. C -- Contract Progress



Time Expended:	88%
Start Date:	4/4/2011
Completion Date:	3/31/2016