

# Risk Register

Risk/Ref#	Phase Impacted	Risk Event Name	Detailed Description of Risk Event	Probability including Dependency	Cost Risk Threat / Opportunity	1			Schedule Threat/ Opportunity	2			Probable Schedule Impact, (mos)
						Low Cost, (\$)	Most Likely Cost, (\$)	High Cost, (\$)		Low Schedule, (mos)	Most Likely Schedule, (mos)	High Schedule, (mos)	
1	ROW-EW2	ROW Demolition	Identification of contaminated items requiring development of mitigation strategy and potential procurement of services.	50%	Threat				Threat	1.0	2.0	4.0	1.242
2	CREATE-CREATE	Topsoil Excavation	Sample material to determine weather it is special waste. Additional time for haul away of special waste	50%					Threat	2.0	4.0	6.0	1.449
3	CN & UT-P2	Clear and Grub Tress for Access Roads - P2	Potential schedule threat due to workforce and environmental concerns (i.e. long eared bat migration)	75%					Threat	2.0	4.0	6.0	2.693
4	CN & UT-EW2	Clear and Grub Tress for Access Roads - EW2	Potential schedule threat due to workforce and environmental concerns (i.e. long eared bat migration)	75%					Threat	2.0	4.0	6.0	3.410
5	CN & UT-P2	Drainage (non viaduct improvements) - P2 time	Permitting and scheduling - time intensive OUC/CDWM review	81%					Threat	6.0	8.0	10.0	5.617
6	CN & UT-EW2	Drainage (non viaduct improvements) - EW2 time	Permitting and scheduling - time intensive OUC/CDWM review	90%					Threat	6.0	8.0	10.0	7.490
7	CN & UT-EW2	New Track Construction	Potential procurement and regulatory (BABA) issues	80%	Threat	\$ 2,016,428	\$ 4,032,856	\$ 6,049,284					0.000
8	CN & UT-EW2	Turnouts - cost	Potential procurement and regulatory (BABA) issues	64%	Threat	\$ 1,644,506	\$ 3,289,013	\$ 4,933,519					0.000
9	CN & UT-EW2	Turnouts - time	Potential procurement and regulatory (BABA) issues	80%					Threat	1.0	2.0	4.0	1.934
10	CN & UT-EW2	Track Modifications	Potential procurement and regulatory (BABA) issues	80%					Threat	1.0	2.0	4.0	1.891
11	CN & UT-P2	Track Modifications	Potential procurement and regulatory (BABA) issues	75%					Threat	1.0	2.0	4.0	1.558
12	CN & UT-EW2	Road Crossings (Permanent or Temporary)	High coordination and number of crossings, RR are generally out of control of CDOT/IDOT/ICC concurrence	90%					Threat	1.0	2.0	4.0	1.712
13	CN & UT-P2	Road Crossings (Permanent or Temporary)	High coordination with lower number of crossings, RR are generally out of control of CDOT/IDOT/ICC concurrence	75%					Threat	1.0	2.0	4.0	2.277
14	CN & UT-EW2	New Control Point	Signal cost increase due to supply and regulatory (BABA) issues	95%	Threat	\$ 4,712,337	\$ 9,424,674	\$ 14,137,011	Threat				0.000
15	CN & UT-EW2	Bridge Repair Locations	Potential required deep foundations where existing abutments assumed to remain	75%	Threat	\$ 17,850,654	\$ 26,775,980	\$ 35,701,307	Threat				0.000
16	CN & UT-EW2	Bridge Repair Locations	Delay in delivery of prefabricated materials	50%	Threat				Threat	1.0	2.0	3.0	0.700
17	CN & UT-EW2	Bridge Repair Locations - EW2 cost	Consecutive (or close by) bridge improvements may be delayed to minimize traffic impacts due to road closures	25%	Threat	\$ 17,850,654	\$ 35,701,307	\$ 53,551,961	Threat	1.0	2.0	3.0	0.683
18	CN & UT-P2	Bridge Repair Locations - P2 cost	Consecutive (or close by) bridge improvements may be delayed to minimize traffic impacts due to road closures	50%	Threat	\$ 6,894,227	\$ 13,788,453	\$ 20,682,680	Threat				0.000
19	CN & UT-EW2	Bridge Repair Locations - EW2 time	Consecutive (or close by) bridge improvements may be delayed to minimize traffic impacts due to road closures	50%	Threat				Threat	2.0	6.0	8.0	1.801
20	CN & UT-P2	Bridge Repair Locations - P2 time	Consecutive (or close by) bridge improvements may be delayed to minimize traffic impacts due to road closures	50%	Threat				Threat	1.0	2.0	3.0	1.007
21	CN & UT-EW2	Bridge Repair Locations - EW2 time	Signal cost increase due to supply and regulatory (BABA) issues	13%	Threat				Threat	2.0	6.0	8.0	0.769
22	CN & UT-EW2	Bridge Repair Locations - EW2 cost	Signal cost increase due to supply and regulatory (BABA) issues	90%	Threat	\$ 17,850,654	\$ 35,701,307	\$ 53,551,961	Threat				0.000
23	CN & UT-EW2	Noise Walls	Structure design, drainage, permitting, and administration of the noise wall (ownership, maintenance) with public partners (CDOT, IDOT)	75%	Threat				Threat	2.0	4.0	6.0	2.634
24	CN & UT-EW2	Hazardous Materials (risk assessment count by parcel) - EW2 cost	Unknown HazMat locations along RR or Private ROW (large project area)	36%	Threat	\$ 1,924,507	\$ 2,886,761	\$ 3,849,015	Threat				0.000
25	CN & UT-EW2	Hazardous Materials (risk assessment count by parcel) - EW2 time	Unknown HazMat locations along RR or Private ROW (large project area)	60%	Threat				Threat	2.0	3.0	4.0	1.745
26	CN & UT-P2	Visual Impact Minimization Measures	Scope of form liners at Viaducts, Structures, Flyovers TBD	80%	Threat				Threat	1.0	3.0	6.0	1.811
27	CREATE-CREATE	Maintenance of Traffic (MOT) - cost	Extended construction duration requiring extended MOT	25%	Threat	\$ 1,382,960	\$ 2,765,921	\$ 4,148,881	Threat				0.000
28	CREATE-CREATE	Maintenance of Traffic (MOT) time	Contractors need to develop MOT plan during non-construction months to get IDOT/CDOT approval	50%	Threat				Threat	1.0	2.0	4.0	1.040
29	CN & UT-EW2	Flagging (RR Maintenance of Way) - EW2 cost	Labor constraints and overlapping activities require increased coordination with RR's	80%	Threat	\$ 894,000	\$ 1,788,000	\$ 2,682,000	Threat				0.000

30	CN & UT-EW2	Flagging (RR Maintenance of Way) - EW2 time	Labor constraints and overlapping activities require increased coordination with RR's	80%	Threat					Threat	1.0	2.0	4.0	2.007
31	CN & UT-P2	Flagging (RR Maintenance of Way)	Labor constraints and overlapping activities require increased coordination with RR's	80%	Threat					Threat	1.0	2.0	4.0	2.232
32	CN & UT-EW2	RR Labor Rate and/or Overhead Increase	Labor force negotiation	80%	Threat	\$ 3,567,180	\$ 7,134,360	\$ 10,701,540		Threat				0.000
33	CN & UT-EW2	Relocations (RR ROW)	Significant unknown utility conflicts may be present within RR ROW. Permitting/utility coordination could drastically impact schedule. Additional review of relocation between utility holders.	90%	Threat					Threat	4.0	8.0	12.0	5.067
34	CN & UT-P2	Relocations (RR ROW)	Significant unknown utility conflicts may be present within RR ROW. Permitting/utility coordination could drastically impact schedule. Additional review of relocation between utility holders.	60%	Threat					Threat	4.0	8.0	12.0	3.951
35	CREATE-CREATE	Relocations (Roadway/Infrastructure) - cost	Additional mitigation measures at known utility conflicts	30%	Threat	\$ 1,196,987	\$ 2,393,975	\$ 5,984,936		Threat				0.000
36	CREATE-CREATE	Relocations (Roadway/Infrastructure) - time	Additional mitigation measures at known utility conflicts. Permitting/utility coordination could impact schedule. Additional review of relocation between utility holders.	60%	Threat					Threat	4.0	8.0	12.0	3.047
37	CN & UT-EW2	Acquisition - EW2	Acquisition of alternative ROW parcels	75%						Threat	4.0	8.0	16.0	6.492
38	CREATE-CREATE	Acquisition	Procurement of ROW during Final Design	75%						Threat	3.0	6.0	8.0	4.831
39	CN & UT-P2	Acquisition - P2	Acquisition of alternative ROW parcels	75%						Threat	4.0	8.0	16.0	7.919
<b>Total</b>						<b>\$ 77,785,093</b>	<b>\$ 145,682,606</b>	<b>\$215,974,094</b>			<b>62.0</b>	<b>120.0</b>	<b>191.0</b>	<b>79.0</b>