

Appendix B: 75th Street CIP Risk Register

The Risk Registry assessment identifies potential factors in design and construction that may affect project cost or project schedule (threats or opportunities). A magnitude of impact is identified for each threat/opportunity and monetized as a percentage of the construction line-item Direct Cost. Risks with an identified probable cost or schedule impact to the project are shown in Table 10.

Risk Reg #	Phase Impacted	Risk Event Name	Detailed Description of Risk Event	Probability Including Dependency	Cost Risk Threat / Opportunity	Low Cost, (\$)	Most Likely Cost, (\$)	High Cost, (\$)	Schedule Threat/ Opportunity	Low Schedule, (mos)	Most Likely Schedule, (mos)	High Schedule, (mos)	Probable Schedule Impact, (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 whether 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 trees 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 trees 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 RRs	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 RRs	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 RRs	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	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	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	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
TOTAL						\$77,785,093	\$145,682,606	\$215,974,094		62.0	120.0	191.0	79.0

Note: CN denote construction activities