

## Life Cycle Cost Analysis

50 Year Design Life

2011

Discount Rate		3%								
Design Year	Description	Full Rehabilitation Alternative	Present Value	Partial Rehabilitation Alternative	Present Value	High Profile Replacement Alternative	Present Value	Low Profile Replacement Alternative	Present Value	
Year 0	Construction	\$23,278,223	\$23,278,223	\$17,783,264	\$17,783,264	\$21,400,000	\$21,400,000	\$30,836,690	\$30,836,690	
Year 1	M & O of Movable Span	\$103,500	\$100,485	\$103,500	\$100,485	\$0	\$0	\$103,500	\$100,485	
Year 2	"	\$103,500	\$97,559	\$103,500	\$97,559	\$0	\$0	\$103,500	\$97,559	
Year 3	"	\$103,500	\$94,717	\$103,500	\$94,717	\$0	\$0	\$103,500	\$94,717	
Year 4	"	\$103,500	\$91,958	\$103,500	\$91,958	\$0	\$0	\$103,500	\$91,958	
Year 5	"	\$103,500	\$89,280	\$103,500	\$89,280	\$0	\$0	\$103,500	\$89,280	
Year 6	"	\$103,500	\$86,680	\$103,500	\$86,680	\$0	\$0	\$103,500	\$86,680	
Year 7	"	\$103,500	\$84,155	\$103,500	\$84,155	\$0	\$0	\$103,500	\$84,155	
Year 8	"	\$103,500	\$81,704	\$103,500	\$81,704	\$0	\$0	\$103,500	\$81,704	
Year 9	"	\$103,500	\$79,324	\$103,500	\$79,324	\$0	\$0	\$103,500	\$79,324	
Year 10	"	\$103,500	\$77,014	\$103,500	\$77,014	\$0	\$0	\$103,500	\$77,014	
Year 11	"	\$103,500	\$74,771	\$103,500	\$74,771	\$0	\$0	\$103,500	\$74,771	
Year 12	"	\$103,500	\$72,593	\$103,500	\$72,593	\$0	\$0	\$103,500	\$72,593	
Year 13	"	\$103,500	\$70,478	\$103,500	\$70,478	\$0	\$0	\$103,500	\$70,478	
Year 14	"	\$103,500	\$68,426	\$103,500	\$68,426	\$0	\$0	\$103,500	\$68,426	
Year 15	M & O of Movable Span	\$103,500	\$66,433	\$103,500	\$66,433	\$0	\$0	\$103,500	\$66,433	
"	Deck Replacement	\$2,601,900	\$1,670,061	\$2,601,900	\$1,670,061	\$0	\$0	\$0	\$0	
Year 16	M & O of Movable Span	\$103,500	\$64,498	\$103,500	\$64,498	\$0	\$0	\$103,500	\$64,498	
Year 17	"	\$103,500	\$62,619	\$103,500	\$62,619	\$0	\$0	\$103,500	\$62,619	
Year 18	"	\$103,500	\$60,795	\$103,500	\$60,795	\$0	\$0	\$103,500	\$60,795	
Year 19	"	\$103,500	\$59,025	\$103,500	\$59,025	\$0	\$0	\$103,500	\$59,025	
Year 20	"	\$103,500	\$57,305	\$103,500	\$57,305	\$0	\$0	\$103,500	\$57,305	
Year 21	"	\$103,500	\$55,636	\$103,500	\$55,636	\$0	\$0	\$103,500	\$55,636	
Year 22	"	\$103,500	\$54,016	\$103,500	\$54,016	\$0	\$0	\$103,500	\$54,016	
Year 23	"	\$103,500	\$52,443	\$103,500	\$52,443	\$0	\$0	\$103,500	\$52,443	
Year 24	"	\$103,500	\$50,915	\$103,500	\$50,915	\$0	\$0	\$103,500	\$50,915	
Year 25	"	\$103,500	\$49,432	\$103,500	\$49,432	\$0	\$0	\$103,500	\$49,432	
Year 26	"	\$103,500	\$47,992	\$103,500	\$47,992	\$0	\$0	\$103,500	\$47,992	
Year 27	"	\$103,500	\$46,595	\$103,500	\$46,595	\$0	\$0	\$103,500	\$46,595	
Year 28	"	\$103,500	\$45,237	\$103,500	\$45,237	\$0	\$0	\$103,500	\$45,237	
Year 29	"	\$103,500	\$43,920	\$103,500	\$43,920	\$0	\$0	\$103,500	\$43,920	
Year 30	M & O of Movable Span	\$103,500	\$42,641	\$103,500	\$42,641	\$0	\$0	\$103,500	\$42,641	
"	Wearing Surface Rehabilitation	\$0	\$0	\$0	\$0	\$826,500	\$340,507	\$732,555	\$301,803	
Year 31	M & O of Movable Span	\$103,500	\$41,399	\$103,500	\$41,399	\$0	\$0	\$103,500	\$41,399	
Year 32	"	\$103,500	\$40,193	\$103,500	\$40,193	\$0	\$0	\$103,500	\$40,193	
Year 33	"	\$103,500	\$39,022	\$103,500	\$39,022	\$0	\$0	\$103,500	\$39,022	
Year 34	"	\$103,500	\$37,886	\$103,500	\$37,886	\$0	\$0	\$103,500	\$37,886	
Year 35	"	\$103,500	\$36,782	\$103,500	\$36,782	\$0	\$0	\$103,500	\$36,782	
Year 36	"	\$103,500	\$35,711	\$103,500	\$35,711	\$0	\$0	\$103,500	\$35,711	
Year 37	"	\$103,500	\$34,671	\$103,500	\$34,671	\$0	\$0	\$103,500	\$34,671	
Year 38	"	\$103,500	\$33,661	\$103,500	\$33,661	\$0	\$0	\$103,500	\$33,661	
Year 39	"	\$103,500	\$32,680	\$103,500	\$32,680	\$0	\$0	\$103,500	\$32,680	
Year 40	"	\$103,500	\$31,729	\$103,500	\$31,729	\$0	\$0	\$103,500	\$31,729	
Year 41	"	\$103,500	\$30,804	\$103,500	\$30,804	\$0	\$0	\$103,500	\$30,804	
Year 42	"	\$103,500	\$29,907	\$103,500	\$29,907	\$0	\$0	\$103,500	\$29,907	
Year 43	"	\$103,500	\$29,036	\$103,500	\$29,036	\$0	\$0	\$103,500	\$29,036	
Year 44	"	\$103,500	\$28,190	\$103,500	\$28,190	\$0	\$0	\$103,500	\$28,190	
Year 45	M & O of Movable Span	\$103,500	\$27,369	\$103,500	\$27,369	\$0	\$0	\$103,500	\$27,369	
"	Wearing Surface Rehabilitation	\$390,285	\$103,206	\$390,285	\$103,206	\$0	\$0	\$0	\$0	
Year 46	M & O of Movable Span	\$103,500	\$26,572	\$103,500	\$26,572	\$0	\$0	\$103,500	\$26,572	
Year 47	"	\$103,500	\$25,798	\$103,500	\$25,798	\$0	\$0	\$103,500	\$25,798	
Year 48	"	\$103,500	\$25,047	\$103,500	\$25,047	\$0	\$0	\$103,500	\$25,047	
Year 49	"	\$103,500	\$24,317	\$103,500	\$24,317	\$0	\$0	\$103,500	\$24,317	
Year 50	"	\$103,500	\$23,609	\$103,500	\$23,609	\$1	\$0	\$103,500	\$23,609	
Net Present Value			\$27,485,971		\$22,219,562		\$21,740,507		\$33,801,524	
% Above Least Cost Alternative			26%		2%		-		55%	