

ANDREWSVILLE BRIDGE OPTIONS
OPTION EVALUATION MATRIX

EVALUATION CRITERIA	CATEGORY WEIGHT	OPTION 1	OPTION 2	OPTION 3	OPTION 4	OPTION 5
CONSTRUCTION COST	25	5	1	8	9	10
DURATION OF CONSTRUCTION	10	3	1	6	9	10
TRAFFIC CAPACITY	15	7	10	1	3	1
ACCESSIBILITY	10	1	10	1	10	1
BRIDGE MAINTENANCE	15	5	8	10	4	6
ENVIRONMENTAL IMPACT	25	3	1	3	10	10
TOTAL	100	24	31	29	45	38

SCORING NOTES PER CATEGORY

LOWEST ESTIMATED PRELIM COST SCORED A 10 WITH MOST EXPENSIVE SCORED A 1. OTHER COSTS RATIOED OUT OF 10.

SHORTEST ESTIMATED TIME SCORED A 10 WITH LONGEST SCORED A 1 (ROAD CLOSED IMPACT). OTHER ESTIMATED TIMES RATIOED.

FINAL TRAFFIC LOADING CAPACITY IS SCORED, WITH MAX SCORE OF 10 AWARDED TO FULL HIGHWAY LOADING

ACCESSIBLE AND WALKABLE IS SCORED, WITH HIGHEST SCORE OF 10 FOR MOST ACCESSIBLE, WITH A SCORE OF 1 FOR NO SIDEWALK OR CLOSED BRIDGE

ON GOING COST OF MAINTENANCE IS SCORED, WITH LOWEST COST BEING SCORED A 10

HIGHEST ENVIRONMENTAL SCORE OF 10 IS PROVIDED FOR NO INVASIVE OR IN WATER WORK. LOWEST SCORE OF 1 IS PROVIDED FOR A COMPLETE NEW STRUCTURE, ASSUMING IN WATER WORKS.

OPTION NO.	DESCRIPTION	CONSTRUCTION COST		DURATION OF CONSTRUCTION		TRAFFIC CAPACITY		ACCESSIBILITY		BRIDGE MAINTENANCE (Life Cycle Cost)		ENVIRONMENTAL IMPACTS		TOTAL WEIGHTED SCORE (HIGHEST BEING PREFERRED)
		SCORE	WEIGHTED SCORE (25%)	SCORE	WEIGHTED SCORE (10%)	SCORE	WEIGHTED SCORE (15%)	SCORE	WEIGHTED SCORE (10%)	SCORE	WEIGHTED SCORE (15%)	SCORE	WEIGHTED SCORE (20%)	
1	REHABILITATE EXISTING BRIDGE AND APPROACHES	5	1.25	3	0.30	7	1.05	1	0.10	5	0.75	3	0.60	4.1
2	CONSTRUCTION OF A NEW SINGLE LANE BRIDGE WITH RECONSTRUCTION OF APPROACH DRY STONE WALL	1	0.25	1	0.10	10	1.50	10	1.00	8	1.20	1	0.20	4.3
3	COMPLETE REMOVAL OF EXISTING BRIDGE AND APPROACH ROADWAY AND WALLS	8	2.00	6	0.60	1	0.15	1	0.10	10	1.50	3	0.60	5.0
4	CONVERSION TO PEDESTRIAN BRIDGE	9	2.25	9	0.90	3	0.45	10	1.00	4	0.60	10	2.00	7.2
5	DO NOTHING AND CLOSE BRIDGE	10	2.50	10	1.00	1	0.15	1	0.10	6	0.90	10	2.00	6.7