



**170th/173rd (Baseline to Walker) Project
Alternative Weighting and Selection Matrix**

June 3, 2004

	Goal Weight	x	Objective Weight	=	Combined Weight *	Alternative 1 - 74		Alternative 1 - min		Alternative 1 - Alt Con		Alternative 1- Revised Align		Alternative 2 - 74		Alternative 2 - min		Alternative 2 - Alt Con	
						Raw Score	Weighted Score	Raw Score	Weighted Score	Raw Score	Weighted Score	Raw Score	Weighted Score	Raw Score	Weighted Score	Raw Score	Weighted Score	Raw Score	Weighted Score
GOAL 1: PROTECT AND ENHANCE ENVIRONMENTAL RESOURCES	12.7																		
Objective 1. Minimize noise impacts (to home and school)			34.5		4.4	1	4.4	1	4.4	1	4.4	1	4.4	2	8.8	2	8.8	2	8.8
Objective 2. Minimize wetland impacts			11.0		1.4	4	5.6	4	5.6	4	5.6	4	5.6	3	4.2	3	4.2	3	4.2
Objective 3. Seek enhancement opportunities (plant trees, green spaces)			10.4		1.3	2	2.6	1	1.3	2	2.6	1	1.3	3	4.0	1	1.3	2	2.6
Objective 4. Minimize creek crossing impacts (bridge vs. culvert)			18.9		2.4	2	4.8	2	4.8	2	4.8	2	4.8	2	4.8	3	7.2	3	7.2
Objective 5. Minimize impacts to schools, parks, and recreational resources			25.2		3.2	4	12.8	4	12.8	4	12.8	4	12.8	4	12.8	4	12.8	4	12.8
GOAL 2: PRESERVE NEIGHBORHOOD LIVABILITY	35.3																		
Objective 1. Minimize displacement of homes			27.0		9.5	3	28.6	3	28.6	4	38.1	3	28.6	0	0.0	0	0.0	0	0.0
Objective 2. Minimize number of trees impacts			4.2		1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Objective 3. Preserve neighborhood connectivity			9.9		3.5	3	10.5	3	10.5	3	10.5	4	14.0	4	14.0	4	14.0	4	14.0
Objective 4. Create a people friendly road			7.3		2.6	2	5.2	1	2.6	2	5.2	1	2.6	3	7.7	1	2.6	2	5.2
Objective 5. Maintain off-street parking			2.9		1.0	4	4.1	4	4.1	4	4.1	4	4.1	4	4.1	4	4.1	4	4.1
Objective 6. Provide opportunities for additional school parking			6.6		2.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Objective 7. Maintain existing driveway and side street accesses			15.9		5.6	4	22.5	4	22.5	4	22.5	4	22.5	4	22.5	4	22.5	4	22.5
Objective 8. Minimize cut through traffic in neighborhood			14.8		5.2	3	15.7	3	15.7	3	15.7	3	15.7	4	20.9	4	20.9	4	20.9
Objective 9. Minimize amount of new right-of-way acquired			11.5		4.1	3	12.2	3	12.2	3	12.2	3	12.2	3	12.2	3	12.2	3	12.2
GOAL 3: PROVIDE FOR A SAFE, MULTI-MODAL FACILITY	25.1																		
Objective 1a. Provide sidewalks for pedestrians			15.4		3.9	4	15.5	3	11.6	3	11.6	3	11.6	4	15.5	3	11.6	3	11.6
Objective 1b. Provide crossings for pedestrians			11.7		2.9	1	2.9	1	2.9	1	2.9	1	2.9	1	2.9	1	2.9	1	2.9
Objective 2. Reduce congestion in vicinity of school			21.9		5.5	2	11.0	2	11.0	2	11.0	2	11.0	3	16.5	3	16.5	3	16.5
Objective 3. Minimize conflicts between pedestrians and auto traffic			14.3		3.6	3	10.8	3	10.8	3	10.8	3	10.8	1	3.6	1	3.6	1	3.6
Objective 4. Provide facility for safe auto, pedestrian and bicycle movements			22.1		5.6	3	16.7	3	16.7	3	16.7	3	16.7	1	5.6	1	5.6	1	5.6
Objective 5. Provide facility for safe emergency vehicle movements			14.6		3.7	2	7.3	2	7.3	2	7.3	4	14.7	4	14.7	4	14.7	4	14.7
GOAL 4: PROVIDE A BUILDABLE DESIGN THAT COMPLIMENTS THE NEIGHBORHOOD	13.3																		
Objective 1. Minimize impacts during construction			26.1		3.5	3	10.4	3	10.4	3	10.4	3	10.4	1	3.5	1	3.5	1	3.5
Objective 2. Compliance with design standards, design criteria and regulatory agencies			27.0		3.6	3	10.7	2	7.2	2	7.2	2	7.2	3	10.7	2	7.2	2	7.2
Objective 3. Provide a design that is an attractive asset to the neighborhood			46.9		6.2	4	24.9	3	18.7	3	18.7	3	18.7	4	24.9	3	18.7	3	18.7
GOAL 5: MAXIMIZE COST EFFECTIVENESS	13.6																		
Objective 1. Develop a design that is cost effective and can be built within the MSTIP budget			100.0		13.6	1	6.2	3	18.7	4	24.9	2	12.4	0	0.0	0	0.0	0	0.0
Total	100.0				100.0		245.3		240.2		259.8		244.8		213.7		194.6		198.5

Ranking (based on total score)

2

4

1

3

5

7

6

* Combined weight is the goal weight multiplied by the objective weight and divided by 100. May not total 100 due to rounding.

Note: Information/data in this matrix is based on conceptual level designs and may change as the design is being finalized.