

SECTION 5 - EVALUATION OF PRIMARY CORRIDOR TRANSPORTATION IMPROVEMENT OPTIONS

OPTION EVALUATION PROCESS

In order to fairly compare each of the Primary options and ascertain the SAC's preferred Option, the Study Process included a second evaluation process, as described herein.

Evaluation Criteria

The same criteria as previously developed (Section 3) were utilized as a basis for comparison of the four Primary Improvement Options. The criteria are re-stated as follows:

Manage Traffic – Due to the ever-increasing demand, the Argonne corridor must be able to efficiently manage vehicular traffic. The following traffic subsets are of interest:

- North/South Traffic
- East/West Traffic
- Trucks & Emergency Vehicles

Safety – Safety considerations are paramount for drivers, pedestrians, and bicyclists utilizing Argonne Road.

Accessibility – Argonne improvements must consider access to local businesses and homes, for multiple modes of transportation.

- Business Access
- Residential Access
- Non-Motorized Access (Bicycles & Pedestrians)

Environmental Quality – The environmental context of Argonne Road should be enhanced and not compromised.

Placemaking – Millwood's presence as a thriving community along Argonne Road should be emphasized.

Constructability/Implementation – Options must be physically constructible, as well as politically feasible.

Cost – Cost for implementing the options must be considered in the evaluation.

Evaluation

At the third SAC meeting on October 15, 2007, the consultant team presented the results of the analysis effort for each of the Primary Options. The layouts were presented, followed by the results of the traffic operations analysis, concept-level costs, and funding strategy comparison. Next the SAC was asked to directly compare and rank the four Primary Corridor Improvement Options according to the aforementioned criteria. Another comparison matrix was utilized for this effort. This matrix, however, allowed for the SAC to apply Town-centric weighting to the criteria. **Figure 5-1** illustrates the matrix as completed by the SAC during the October 15 meeting.



ARGONNE ROAD CORRIDOR STUDY
Figure 5-1: Improvement Options
Evaluation Matrix

IMPROVEMENT OPTION DESCRIPTION

NORTH/SOUTH THRU TRAFFIC

EAST/WEST TRAFFIC

TRUCKS & EMERGENCY VEHICLES

SAFETY

BUSINESS ACCESS

RESIDENTIAL ACCESS

NON-MOTORIZED ACCESS

TRANSIT ACCESS

ENVIRONMENTAL QUALITY

PLACEMAKING

CONSTRUCTIBILITY & IMPLEMENTATION

COST

Evaluation

- 1 - Severely Negatively Affects
- 2 - Negatively Affects
- 3 - Neutral
- 4 - Positively Affects
- 5 - Very Positively Affects

Implementation

- 1 - Very Difficult
- 3 - Moderate
- 5 - Easy

Cost

- 1 - Very Expensive
- 3 - Moderately Expensive
- 5 - Inexpensive

TOTAL SCORE

CRITERIA WEIGHTING FACTOR	2	3	2	3	3	3	2	1	2	3	2	3	1 - Least Important, 2 - Somewhat Important, 3 - Of Critical Importance
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BASE IMPROVEMENTS

Option 1 Optimize Existing 4-Lane Roadway	3	4	4	4	4	4	4	4	3	4	5	5	117
Option 2 4-Lane with Turn Pockets	4	4	4	4	4	4	4	4	3	4	3	3	109
Option 3 3-Lane Conversion	1	1	1	3	4	2	5	4	2	5	5	5	92
Option 4 5-Lanes	4	4	4	4	3	4	3	4	2	1	1	1	83

MAJOR ENHANCEMENTS

Underground Utilities	3	3	3	4	3	3	5	3	5	5	3	1	98
Gateway Features	3	3	3	3	3	3	3	3	5	5	5	3	101
Multi-Use Path (WVHS to Millwood Park)	3	3	3	4	4	4	5	4	5	5	3	3	111
Multi-Use Path (Along IEP)	3	3	3	4	4	4	5	4	5	5	3	3	111
Residential Sidewalks on Grace (Argonne to WVHS)	3	3	3	4	4	4	5	4	4	4	5	3	110
Lighted Crosswalks	3	3	3	5	5	4	5	4	3	3	5	5	117
Emergency Signal @ Frederick & Argonne	2	3	5	5	3	3	3	3	3	3	5	5	105

RESULTS

Based on SAC recommended rankings, the evaluation process identified Option 1 as the highest scoring option, indicating it as the preferred Option. The SAC concurred with the scoring and indicated support for implementation of Option 1 to enhance the current 4-lane configuration of Argonne Road.

The potential for widening is currently very limited, yet the SAC acknowledged that it would/could be important to work toward implementation of turn pockets as development changes occur near the existing signals at Grace, Euclid/Empire, and Liberty.

The Primary Improvement Options and SAC recommendations were presented at a Town Hall meeting on October 16. After the presentation, the public was encouraged to provide written comments on the options, and each voted for their preferred option. The results of the public voting were consistent with the SAC recommendations. Notes from the October 15 SAC meeting and the October 16 Town Hall Meeting are provided in **Appendix D**.

Section 6 of this document provides recommendations for implementation of the preferred option.