CONNECTING HOWE AVENUE
SAFETY & MOBILITY PLAN

APPENDIX E
PLANNING LEVEL COST ESTIMATES

Connecting Howe Avenue

Safety & Mobility Plan

(Feasability Opinion of Probable Cost)

MARK THOMAS

SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost (2030)*
	TOTAL CONSTRUCTION COST	$ 33,741,600	$ 41,417,000
	TOTAL RIGHT OF WAY COST	$ 300,000	$ 365,000
	TOTAL CAPITAL OUTLAY COSTS	**$ 34,100,000**	**$ 41,800,000**
DESIGN	PA/ED (10%)	$ 3,410,000	$ 4,150,000
DESIGN	PS&E (15%)	$ 5,120,000	$ 6,230,000
DESIGN	RIGHT OF WAY (2%)	$ 690,000	$ 840,000
CM	CONSTRUCTION (12%)	$ 4,100,000	$ 4,990,000
	TOTAL DELIVERY COST	**$ 13,400,000**	**$ 16,300,000**
	TOTAL PROJECT COST	**$ 47,500,000**	**$ 58,100,000**

* Assumes escalation of 4% per year. No adjustments in escalation for time between design and construction were made.

Connecting Howe Avenue

Safety & Mobility Plan

(Corridor Improvements including: Sidewalk Widening, Shared Use Path, Pedestrian Crossings and Bridge Widening)

ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
ROADWAY					
1	Install Concrete - Curb Ramp	EA	38	$ 10,000	$380,000
2	Install Concrete - Curb and Gutter	LF	15,100	$ 68	$1,026,800
3	Install Concrete - Curb	LF	2,650	$ 40	$106,000
4	Install Concrete - Shared Use	SF	107,500	$ 25	$2,687,500
5	Install Concrete - Sidewalk	SF	41,380	$ 15	$620,700
6	Install Concrete - Driveway	SF	690	$ 40	$27,600
7	Install Concrete - Texture Pavement	SF	1,550	$ 20	$31,000
8	Roadway Excavation	CY	16,500	$ 350	$5,775,000
9	Hot Mix Asphalt	TON	3,100	$ 250	$775,000
10	Cold Plane	SQYD	12,750	$ 4	$45,900
11	Slurry Seal	TON	370	$ 280	$103,600
12	Base Repair (HMA) *	TON	920	$ 250	$230,000
13	CL2 Aggregate Base	CY	8,000	$ 300	$2,400,000
14	Signing and Striping	LS	1	$ 134,000	$134,000
15	Landscape	SF	31,850	$ 30	$955,500
16	Retaining Walls	SF	8,920	$ 250	$2,230,000
17	Barrier	LF	3,500	$ 150	$525,000
18	Bus Stop Amentities	EA	2	$ 30,000	$60,000
19	Bridge Widening	LS	1	$ 7,700,000	$7,700,000
DRAINAGE					
20	Minor Drainage (1% of Items 1-17)	LS	1	$181,000	$181,000
ELECTRICAL					
21	Traffic Signal Modification	LS	1	$350,000	$350,000
22	Pedestrian Signal	EA	7	$500,000	$3,500,000
				SUBTOTAL	**$22,144,600**
23	Minor Items (8% of Items 1-18) **	LS	1	$1,450,000	$1,450,000
				SUBTOTAL	**$23,594,600**
24	Mobilization (10% of Items 1-20)	LS	1	$2,360,000	$2,360,000
				SUBTOTAL	**$25,954,600**
				CONTINGENCY (30%) ***	$7,787,000
				CONSTRUCTION SUBTOTAL	$33,741,600
GRAND TOTAL					
				CONSTRUCTION SUBTOTAL=	**$33,741,600**
				Right of Way/Temporary Construction Easement**=**	**$300,000**
				GRAND TOTAL=	**$34,041,600**

* 8% of cold plane area is assumed to require Base Repair

** Minor items (for example, fencing, signage, sidewalk repair, utility adjustments, etc.) have been estimated by using a percentage.

*** This feasibility level estimate includes a 30% contingency intended to compensate for the use of preliminary and limited information.

**** Right of way/TCE's for driveway closures, curb ramps, new signal equipment, conforms, etc. have been estimated at $10/SF.

General Note: Where applicable, only minor drainage improvements for Drainage Inlet relocations are included. Utility improvements such as water, communication, gas, etc. are not included in these estimates.