

Appendix

D

Construction Cost

Estimate

and

Schedule

**PENNSYLVANIA AVE. SE / MINNESOTA AVE. SE
ALTERNATIVE 1 - REVISED SQUARE
CONSTRUCTION COST ESTIMATE (CONCEPTUAL PLAN)**

COST ESTIMATE ITEMS	UNITS	QUANTITY	UNIT COST	AMOUNT
Pennsylvania Ave. / Minnesota Ave. - Alternative 1				
Revised Traffic Square Alternative				
1 Demolition				
A Pavement Demo	SF	37,550	\$ 3.00	\$ 112,650
B Sidewalk Demo	SF	36,400	\$ 1.00	\$ 36,400
2 Roadway				
A Overlay Pavement (2" Mill and 2" HMA Surface Course)	SF	117,900	\$ 2.50	\$ 294,750
B Full Depth Pavement (2" HMA Surface, 10" PCC Base, 6" GAB)	SF	28,100	\$ 12.00	\$ 337,200
C Rasied Median	SF	6,650	\$ 10.00	\$ 66,500
D Pavement Repair (10%)	SF	11,790	\$ 13.00	\$ 153,270
3 Miscellaneous Items				
A Sidewalk / Trail Area (exposed aggregate sidewalk)	SF	43,100	\$ 8.50	\$ 366,350
B Driveway Entrance	SF	5,100	\$ 7.00	\$ 35,700
C Bus Pad	SF	1,860	\$ 14.00	\$ 26,040
D Grassed or Landscape Area	SF	70,000	\$ 1.50	\$ 105,000
E Granite Curb & PCC Gutter	LF	4,600	\$ 57.00	\$ 262,200
F Granite Curb	LF	3,050	\$ 50.00	\$ 152,500
G PCC Wheelchair/Bicycle Ramp	Each	39	\$ 1,000.00	\$ 39,000
4 Traffic Signals				
A Traffic Signal	Each	3	\$ 200,000.00	\$ 600,000
Subtotal				\$ 2,587,560
5 Misc. Cost by Percent for each of the following				
A Drainage and Stormwater Management	60.0%			\$ 1,552,536
B Erosion and Sediment Control	5.0%			\$ 129,378
C Utility Adjustments and Relocations	30.0%			\$ 776,268
D Street Lighting	40.0%			\$ 1,035,024
E Signing and Pavement Marking	10.0%			\$ 258,756
F Grading and Earthwork	15.0%			\$ 388,134
G Landscaping/Tree Removal	5.0%			\$ 129,378
Subtotal				\$ 6,857,034
Maintenance of Traffic	25.0%			\$ 1,714,259
Mobilization	10.0%			\$ 685,703
New Subtotal				\$ 9,256,996
Concept Level Contingency	25.0%			\$ 1,714,259

TOTAL AMOUNT \$ 10,971,254

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**PENNSYLVANIA AVE. SE / MINNESOTA AVE. SE
ALTERNATIVE 2 - CONCEPTIONAL INTERSECTION
CONSTRUCTION COST ESTIMATE (CONCEPTUAL PLAN)**

COST ESTIMATE ITEMS	UNITS	QUANTITY	UNIT COST	AMOUNT
Pennsylvania Ave. / Minnesota Ave. - Alternative 2				
Conventional Intersection				
1 Demolition				
A Pavement Demo	SF	19,600	\$ 3.00	\$ 58,800
B Sidewalk Demo	SF	36,400	\$ 1.00	\$ 36,400
2 Roadway				
A Overlay Pavement (2" Mill and 2" HMA Surface Course)	SF	138,100	\$ 2.50	\$ 345,250
B Full Depth Pavement (2" HMA Surface, 10" PCC Base, 6" GAB)	SF	20,700	\$ 12.00	\$ 248,400
C Rasied Median	SF	4,200	\$ 10.00	\$ 42,000
D Pavement Repair (10%)	SF	13,810	\$ 13.00	\$ 179,530
3 Miscellaneous Items				
A Sidewalk / Trail Area (exposed aggregate sidewalk)	SF	38,900	\$ 8.50	\$ 330,650
B Driveway Entrance	SF	5,600	\$ 7.00	\$ 39,200
C Bus Pad	SF	2,550	\$ 14.00	\$ 35,700
D Grassed or Landscape Area	SF	67,700	\$ 1.50	\$ 101,550
E Granite Curb & PCC Gutter	LF	4,550	\$ 57.00	\$ 259,350
F Granite Curb	LF	1,800	\$ 50.00	\$ 90,000
G PCC Wheelchair/Bicycle Ramp	Each	24	\$ 1,000.00	\$ 24,000
4 Traffic Signals				
A Traffic Signal	Each	1	\$ 200,000.00	\$ 200,000
B Pedestrian Crosswalk Signal	Each	1	\$ 175,000.00	\$ 175,000
Subtotal				\$ 2,165,830
5 Misc. Cost by Percent for each of the following				
A Drainage and Stormwater Management	60.0%			\$ 1,299,498
B Erosion and Sediment Control	5.0%			\$ 108,292
C Utility Adjustments and Relocations	30.0%			\$ 649,749
D Street Lighting	40.0%			\$ 866,332
E Signing and Pavement Marking	10.0%			\$ 216,583
F Grading and Earthwork	15.0%			\$ 324,875
G Landscaping/Tree Removal				\$ -
Subtotal				\$ 5,631,158
Maintenance of Traffic	25.0%			\$ 1,407,790
Mobilization	10.0%			\$ 563,116
New Subtotal				\$ 7,602,063
Concept Level Contingency	25.0%			\$ 1,407,790

TOTAL AMOUNT \$ 9,009,853

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**PENNSYLVANIA AVE. SE / MINNESOTA AVE. SE
CONSTRUCTION COST ESTIMATE - UNIT COSTS**

2" AC Surface +2" Mill

Milling	\$ 7.00	SY	\$ 0.78	SF
AC	\$ 120.00	Ton	\$ 1.47	SF
Tack	\$ 1.50	SY	\$ 0.17	
		Total	\$ 2.41	
		Say	\$ 2.50	SF

Full Depth Pavement

2" Surface	\$ 120.00	Ton	\$ 1.47	SF
10" PCC Base	\$ 300.00	CY	\$ 9.26	SF
Tack	\$ 1.50	SY	\$ 0.17	SF
6" GAB	\$ 50.00	CY	\$ 0.93	SF
		Total	\$ 11.82	SF
		Say	\$ 12.00	SF

Pavement Repair

Demoliton	\$ 50.00	CY	\$ 2.78	SF
10" PCC Base	\$ 300.00	CY	\$ 9.26	SF
6" GAB	\$ 50.00	CY	\$ 0.93	SF
		Total	\$ 12.96	
		Say	\$ 13.00	SF

Pavement Demolition

\$ 50.00	CY	\$ 2.78	SF
	Say	\$ 3.00	SF

Sidewalk Demolition

\$ 40.00	CY	\$ 0.49	SF
	Say	\$ 1.00	SF

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Raised Median					
	\$ 350.00	CY	\$ 9.72		SF
		Say	\$ 10.00		SF
Sidewalk / Trail Area					
Sidewalk	\$ 70.00	SY	\$ 7.78		SF
			\$ 7.78		
		Say	\$ 8.50		SF
Driveway Entrance					
	\$ 275.00	CY	\$ 5.94		SF
6" GAB	\$ 50.00	CY	\$ 0.93		SF
			\$ 6.87		
		Say	\$ 7.00		SF
Bus Pad					
	\$ 450.00	CY	\$ 13.89		SF
		Say	\$ 14.00		SF
Grassed or Landscape Area					
	\$ 10.00	SY	\$ 1.11		SF
		Say	\$ 1.20		SF
Curb & Gutter					
Curb	\$ 50.00	LF	\$ 50.00		LF
Gutter	\$ 300.00	CY	\$ 6.48		SF
		Total	\$ 56.48		LF
		Say	\$ 57.00		LF
Curb	\$ 50.00	LF	\$ 50.00		LF
PCC Wheelchair/Bicycle Ramp			\$ 1,000.00		EA

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