

CONCEPT DESIGN - CAPITAL COST ESTIMATE

I-5 Trade Corridor

Corridor Section: C I-5 SouthBound to SR-500 Eastbound

Date: 27-Mar-02

Date of Cost Index: August 2001

	Unit	Quantity	Cost	Total		
I. RIGHT OF WAY/REAL ESTATE					\$0	
1	1.1	Commercial	SF	0	\$25	\$0
	1.2	Residential	SF	0	\$15	\$0
	1.3	House Displacements	EA	0	\$240,000	\$0
	1.4	Open Lands	SF	0	\$5.00	\$0
	1.5	Railroad R/W	SF	0	\$1.50	\$0
2		Subtotal				\$0
3		Engineering & Admin	LS	10%	\$0	\$0
II. CIVIL CONSTRUCTION						
1		Utility Relocations				\$228,000
	1.1	Urban Corridor	M	0.0	\$1,500,000.00	\$0
	1.2	Open Lands	M	1	\$200,000.00	\$228,000
	1.3	Lane Addition	M	0	\$125,000.00	\$0
2		General Excavation/Fill				\$1,092,000
	2.1	General Excavation	CY	12,000	\$14.00	\$168,000.00
	2.2	Fill	CY	66,000	\$14.00	\$924,000.00
3		Surfacing / Paving				\$975,000
	3.1	New Surfacing - ACP (includes wearing course, base course, agg base, excav to 30" section depth)	SY	15,000	\$65.00	\$975,000.00
	3.2	New Surfacing - PCC (includes concrete, agg base, excav to section depth)	SY	0	\$92.00	\$0.00
	3.3	Overlay Surfacing - ACP (includes surface prep, ACP waring course, and leveling course)	SY	0	\$6.50	\$0.00
	3.4	Sidewalk - PCC (includes concrete, excav, agg base)	SY	0		
4		Roadside Development				\$1,140,000
	4.1	Drainage System	M	1.1	\$1,000,000.00	\$1,140,000.00
	4.2	Restoration of Wetlands	AC	\$ -	\$170,000.00	\$0.00
5		Traffic Services & Safety				\$403,028
	5.1	Illumination	M	1.1	\$250,000.00	\$285,000.00
	5.2	Signage (includes signage, supports, sign bridges, and pavement markings)	M	1.1	\$100,000.00	\$114,000.00
	5.3	Signalized Intersection	EA	0	\$300,000.00	\$0.00
	5.4	Striping	LM	2	\$2,650.00	\$4,028.00
6		Structures				\$15,772,500
	6.01	Highway overpass	SF	128,000	\$100.00	\$12,800,000.00
	6.02	Overland Bridge	SF	0	\$150.00	\$0.00
	6.03	Low/Mid level over water	SF	0	\$275.00	\$0.00
	6.04	High level over water	SF	0	\$325.00	\$0.00
	6.05	Movable lift span	SF	0	\$1,670.00	\$0.00
	6.06	Double Deck over water	SF	0	\$438.00	\$0.00
	6.07	Pedestrian Bridge	SF	0	\$140.00	\$0.00
	6.08	Bridge Widening	SF	0	\$154.00	\$0.00
	6.09	Bridge Demolition	SF	0	\$25.73	\$0.00
	6.1	Cut and Cover Box	LF	0		\$0.00
	6.11	Tunnel	LF	0	\$3,750	\$0.00
	6.12	Tie-back Retaining Wall	SF	0	\$90.00	\$0.00
	6.13	MSE Retaining Wall	SF	0	\$29.00	\$0.00
	6.14	CIP wall <10' hgt	SF	0	\$35.00	\$0.00
	6.15	CIP wall 10'-15' hgt	SF	0	\$40.00	\$0.00
	6.16	CIP wall 15'-20' hgt	SF	10,000	\$47.00	\$470,000.00
	6.17	CIP wall 20'-25' hgt	SF	37,500	\$55.00	\$2,062,500.00
	6.18	Soundwalls	SF	0	\$23.00	\$0.00
	6.19	Soundwall Relocation	SF	0	\$16.00	\$0.00
	6.2	Soundwall Demolation	SF	0	\$10.00	\$0.00
	6.21	Concrete Barrier	LF	8,000	\$55.00	\$440,000.00
7		Park and Ride				\$0
	7.1	Surface Lot	Space		\$2,500.00	\$0.00
	7.2	Garage - 0-3 levels	Space		\$9,000.00	\$0.00
	7.3	Garage - 4+ levels	Space		\$11,000.00	\$0.00
8		Civil Construction Subtotal (Lines 1 through 7)				\$19,610,528
9		Mobilization -			8% of Line 8	\$ 1,568,842
10		Subtotal (Lines 8 & 9)				\$ 21,179,370
11		Construction Contingency			32% of Line 10	\$ 6,777,398
12		Construction Total (Lines 10 & 11)				\$ 27,956,769
III. DESIGN ENGINEERING & ADMINISTRATION (25% of Line 12)						\$ 6,989,192
IV. TOTAL CAPITAL COST (2001 \$) Lines I, 12 and III						\$ 34,945,961