

**Appendix F**  
**Operations and Maintenance Cost Estimates**



# Pamlico Sound Bridge Corridor

Item	Description	Unit	Unit Price	Quantity	Total	Life Expectancy (years)	Annual Maintenance (per item)	Total Annual Maintenance
1	Closed Circuit Television Cameras	EA	\$20,000.00	10	\$200,000.00	10	\$3,000.00	\$30,000.00
2	Detector Stations	EA	\$6,000.00	10	\$60,000.00	10	\$500.00	\$5,000.00
3	Overhead Dynamic Message Signs (Dial-Up)	EA	\$175,000.00	2	\$350,000.00	10	\$5,000.00	\$50,000.00
4	Fiber Optic Communications Cable and Conduit	LF	\$22.00	90000	\$1,980,000.00			
5	Highway Advisory Radio (HAR)	EA	\$125,000.00	2	\$250,000.00	10	\$900.00	\$9,000.00
6	Multiplexer/Demultiplexer Hubs	EA	\$25,000.00	2	\$50,000.00	10	\$200.00	\$2,000.00
7	Wind Speed Sensor	EA	\$20,000.00	3	\$60,000.00	10	\$864.00	\$8,640.00
8	Software and Integration	LS	\$50,000.00	1	\$50,000.00	10	\$1,000.00	\$10,000.00
9	Electrical Power (See note 1)	LS	\$1,500,000.00	1	\$1,500,000.00			
10	TUNE TO SIGNS for HAR	EA	\$3,000.00	5	\$15,000.00	10	\$1,200.00	\$12,000.00
11	Incident Management Patrols (24x7x365)	CLM	\$20,000.00	17	\$340,000.00			\$340,000.00
12	Exception Monitoring (see Note 2)				\$50,000.00			\$50,000.00
13	Portable Traffic Signal	EA	\$60,000.00	2	\$120,000.00	10	\$3,000.00	\$30,000.00
14	511 Traveler Information Signs	EA	\$3,000.00	20	\$60,000.00	10	\$300.00	\$3,000.00
15	One ISP to EOC							\$1,500.00
<b>TOTALS</b>					<b>\$5,085,000.00</b>			<b>\$551,140.00</b>

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## B-2500

### PAMLICO SOUND BRIDGE CORRIDOR ALTERNATIVE

DRI  
8/2/2012

Length	17.5 miles	92,400.00 ft	Area =	3,936,240.00 sq. ft.
Out-to-Out Deck Width		42.6 ft		

#### Segmental

Item	Average Cost per Sq. Ft. per Year	Total Estimated Cost per Year
Total Estimated Inspection Cost per year =	\$ 0.45	\$ 1,771,308.00
Total Estimated Maintenance Cost per year =	\$ 0.90	\$ 3,542,616.00
Total Estimated Cost for 1 Rehabilitation =	\$ 21.44	\$84,392,985.60 each

All cost estimates are in today's dollars.