

**SECTION XII**  
**COST ESTIMATES**

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12-01. INTRODUCTION

a. General. The following table shows preliminary cost estimates for development of proposed new actions at Carlyle Lake. The quantities and costs represent a typical Corps guide specification level of design and materials. During actual detailed design of each element, variations in types and quantities of materials, modifications of facilities, inflationary trends, and results from additional engineering tests, will undoubtedly occur. Costs are based on current prices received for similar items of work in the St. Louis District. Price level is 1996.

b. Summary of Costs. Cost estimates for the proposed new actions are as follows on page 12-2:

**CARLYLE LAKE MASTER PLAN**

<b>I. PROJECT OPERATIONS FACILITIES</b>				
1. Admin./Maintenance Building	Consolidation and Construction of New Building	1	job	\$650,000
				<b>SUBTOTAL</b> \$650,000
2. Saddle Dams	Wells and Pumps	2	ea	\$15,000 \$30,000
				<b>SUBTOTAL</b> \$30,000
<b>II. RECREATION AREAS</b>				
<b>1. DAM WEST RECREATION AREA</b>				
A. Dam West Day Use	Construct Picnic Shelter	1	job	\$30,000 \$30,000
B. Visitor Center	100 Person Outdoor Amphitheater	1	job	
	Concrete Pad for Stage 20 x 30 x 6"	600	sf	\$1.91 \$1,146
	Asphalt Shingle	875	sf	\$3.17 \$2,773.75
	Projector Screen 10 x 10	100	sf	\$6.9 \$690
	3" x 8" x 8' Wood Plank	25	ea	\$120 \$3,000
	Electric Service	1	job	\$5,000 \$5,000
	Expansion of A/V Room from 50 to 100/150 Person (add 875 SF)	1	job	\$52,500 \$52,500
C. Dam West CGround	Water/Sewer Hookups-Loop 3	14	ea	\$1,000 \$14,000
				<b>SUBTOTAL</b> \$109,109.75
<b>2. DAM EAST RECREATION AREA</b>				
A. McNair Group Camp	Convert Existing Tent Sites to R.V.	17	ea	\$3,000 \$51,000
	Road - Asphalt	3000	sy	\$6 \$18,000
	Electric			
	Campsite Conductor	2000	lf	\$4.5 \$9,000
	Distribution Panel	1	ea	\$8,000 \$8,000
	Receptacle Boxes	17	ea	\$275 \$4,675
	Trenching for Conductor	2000	lf	\$2 \$4,000
B. Dam East Boat Ramp	Construct Picnic Shelter	1	job	\$30,000 \$30,000
	Construct Highwater Access Ramp Useable to 455 NGVD	1	job	\$25,000 \$25,000
				<b>SUBTOTAL</b> \$149,675
<b>3. COLES CREEK RECREATION AREA</b>				
A. Coles Creek Day Use	Replace Vault C.S. w/ waterborne	1	job	\$40,000 \$40,000
	Construct Walking Path	1	job	\$10,000 \$10,000
B. Coles Creek CGround	Relocate site to Loop 6 - 17 Sites			
	Sites w/impact areas	15	ea	\$3,000 \$45,000
	Water and Sewer Hookups	15	ea	\$1,000 \$15,000
	Extend Access Road 300 Yards	4300	sy	\$6 \$25,800
	Construct 3 Car Parking Area	4	ea	\$800 \$3,200
C. Lotus Group Area	Install Electrical Pedestals	10	ea	\$1,560 \$15,600
				<b>SUBTOTAL</b> \$154,600
<b>4. BOULDER RECREATION AREA</b>				
A. Boulder Campground	Water and Sewer Hookups	13	ea	\$1,000 \$13,000
				<b>SUBTOTAL</b> \$13,000
<b>5. KEYESPORT RECREATION AREA</b>				
A. Keyesport Day Use	Outdoor Beach Shower	1	job	\$1,000 \$1,000
				<b>SUBTOTAL</b> \$1,000
<b>6. EAST SPILLWAY RECREATION AREA</b>				
A. E. Spillway Rec Area	Convert Picnic Sites to Campsites	1	job	\$3,000 \$3,000
				<b>SUBTOTAL</b> \$3,000
<b>III. VEGETATIVE MANAGEMENT AREAS</b>				
A. Boulder Flats	Wetland Restoration	1	job	\$130,000 \$130,000
				<b>SUBTOTAL</b> \$130,000
				<b>SUBTOTAL:</b> \$1,240,385
				CONTINGENCIES: (IN %) 25 \$310,096
				<b>SUBTOTAL</b> \$1,550,481
				P.E. & D. (IN %) 15 \$232,572
				C.M. (IN %) 12 \$186,057
				<b>TOTAL COST</b> \$1,969,110