
APPENDIX L PROJECT COST ESTIMATE

GENERAL REEVALUATION REPORT (GRR) AND SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT (SEIS) FOR THE POPLAR ISLAND ENVIRONMENTAL RESTORATION PROJECT CHESAPEAKE BAY, TALBOT COUNTY, MARYLAND

1. Summary. The total, fully-funded cost of the PIERP including the recommended lateral and vertical expansion [(a 575-acre lateral expansion component consisting nominally of 29 percent wetland habitat (165 acres), 47 percent upland habitat (270 acres), and 24 percent open water (140 acres), plus a 5-ft raising of the existing upland cells)], is estimated to be \$715.7 million (not including the betterment) through fiscal year (FY) 2030 (Table L-1). All costs are based on present worth costs as of 1 October 2004. This includes costs for maintenance dredging, placement, shaping and planting of the island, site operation and maintenance, supervision and inspection, execution of the General Reevaluation Report (GRR), review of the plans and specifications, advertisement and award of construction contracts, and a ten percent contingency on estimated costs. It also includes the costs for study, design, construction, site operations and maintenance, and oversight of the existing Poplar Island project. Maintenance of the Federal navigation project includes removal, transportation, and placement of approximately 68 million cubic yards (mcy) of dredged material at Poplar Island, as compared the 40 mcy of dredged material placement projected for the existing project. The construction cost for the expansion (perimeter dikes) is estimated to be \$88.7 million, and to occur in FY 09 and 10. The fully funded cost for the PIERP, as currently authorized (not including the costs for the betterment), is \$401.5 million; and the estimated fully funded cost of the expansion project is \$314.2 million. The cost schedule for the PIERP is presented in Table L-1. A summary of the baseline cost estimate is included in Attachment A (the full detailed cost estimate is in a separate document, and the total project cost summary is included in Attachment B.

2. General. The following methodology was used in the preparation of General Reevaluation Report Cost Estimate for Poplar Island Environmental Restoration Project, Chesapeake Bay, Maryland dated September 2005.

- a. The estimate is in accordance with the guidance contained in Engineering Regulation (ER) 1110-2-1302, Civil Works Cost Engineering.
- b. The estimate is presented in the standard Work Breakdown Structure.
- c. The price level for the estimate is 1 October 2004.

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- d. Construction costs developed by Cost Engineering Branch are based on input/quantities from Civil Engineering Section, Civil Works Branch (see Engineering Appendix). Unit costs for were developed using the M-II estimating software containing the 2004 Unit Price Book and from historical data from the Poplar Island Environmental Restoration Project Baseline Estimate. The estimate is documented with notes to explain the assumed construction methods, crews, productivity, and other specific information.
 - e. Program and Project Management Division (PPMD) provided costs for Construction Management.
 - f. PPMD provided costs for the Planning, Engineering and Design.
 - g. PPMD provided the escalation factors. The escalation factors are based on the inflation factors that are developed by the Office of Management and Budget dated 31 Mar 04. These escalation factors were applied to each FY from FY-05 out to the assumed end of construction in FY-31. The costs from FY-98 to FY-04 are sunk cost and were not escalated.
 - h. The Total Project Cost of \$722,168,312 includes \$6,436,155 in betterments. The betterments are a result of phasing the construction of the dikes at the sponsor's request.

3. Estimate Scope. The estimate reflects the cost for constructing:

- 270 acres of new upland habitat,
- 165 acres of new wetland habitat,
- 130-acre open-water embayment, and
- 5 –foot raising of existing Cells 2 & 6.

4. Contingency. Contingency amounts for the construction cost items are based on uncertainties within individual project elements. Considering these uncertainties, contingencies were assigned too individual cost items or groups of related cost items to protect against the risk of potential cost increases.

Navigation, Ports & Harbor Cost Items – 10 Percent. The uncertainty associated with the new dike construction are low. Significant changes are not anticipated for the construction cost items. The assumed method for constructing the expansion is the same as the method used to construct the original dike sections. The costs for the year to year maintenance to the site are based on historical data from the on going maintenance and are not anticipated to change with the expansion. The design team believes that the quantities that were used in developing the estimate are conservative. The additional revisions to the quantities may be the result of slight changes in the alignment to avoid poor foundation areas. The bathymetric

data was also considered to be conservative and significant changes are not anticipated based on the final design. Based on discussions with the designer, a contingency of 10 percent is considered reasonable.

5. Construction Quantities and Cost Estimate Assumptions. Quantities were calculated from the typical sections in Figures 2 and 6 through 11, and laid out in Figures 1 and 3 through 5. Cross sectional areas or lengths for each material were multiplied by the length of each reach, to develop volumes or areas as applicable. To determine the cross sectional areas and lengths, the bottom elevation for each reach was averaged in an iterative process using a digital terrain model developed from the bathymetric data. Mean depths (and estimated elevations for upland and raised dikes) are shown in Table L-2. Quantities for the recommended alignment used to develop the cost estimate for the lateral and vertical expansion include the sand and stone quantities for the 50 percent wetlands, 50 percent uplands option (Tables L-3 and L-6); the 60 percent wetlands, 40 percent uplands option (Tables L-4 and L-6); the open water embayment option (Tables L-5 and L-7); and the 5-ft raising of the existing upland cells (Table L-8). For sand, to determine the total borrow required, it was estimated that 30 percent of dredged sand would be lost because of inefficiencies in dredging and stockpiling.

The following assumptions were made for turf establishment on proposed new and raised dikes: (a) dredged material will be mined from south end of Cell 2, (b) dredged material, seeding, and erosion control material will be applied to all non-stone surfaces above elevation 0 ft MLLW, and (c) erosion control or dredged material will not be required on the dike crests.

It was assumed that some of the existing armor stone on the north side of the existing project can be reused. It was estimated that the existing 3,000 and 4,000-lb armor stone could be used in lieu of the proposed 2,500-lb armor stone, and similarly the existing 2,000 toe armor stone could be used in place of the proposed 1,500-lb toe armor stone. The substitution will not be ton for ton, though, because of a necessarily thicker section for the larger stone. Estimated quantities of reusable armor stone are shown in Table L-9. All armor stone, new and reused, was assumed to weigh 1.5 tons/cubic yard, which was based on analyses of stone placed on the existing project.

Dredging requirements and available sand fill for the proposed northern access channel are shown in Table L-10. The sand dredging requirements and available fill shown on this Table are included in the total sand estimates shown in Tables L-3, L-4, L-5, and L-8, for the 50 percent wetland, 50 percent upland option; the 60 percent wetland, 40 percent upland option; the open water embayment option; and the 5-ft vertical raising; respectively. It is assumed that the dredged clays and silts from the channel (Table L-10) will be spoiled in one of the expansion cells.

Several spillway, culvert and pipe control structures will also be required, including five permanent spillways (two in upland cells and three in wetland cells). It is anticipated that these spillways will be similar in design to the spillways on the existing pierp. Two sets of eight 4-ft diameter culverts and control structures were estimated to be required on either end of the tidal gut. It is anticipated that the wetland cells that do not have permanent spillways will utilize high density polyethylene (HDPE) outlet structures (similar to structure in Cell 3D) that will be

moved from the existing project as wetland cells are developed and dikes are breached. Each of the wetland dikes (five or six, depending on the expansion option) were also estimated to have two 24-in pipes with weir boards between sub cells, similar to the existing wetland sub cells.

The total capacity for the three lateral expansion options and the vertical raising are included in Table L-11. It was assumed that clay and silt dredged from the channel will be spoiled in one of the expansion cells and that sand borrow losses will be contained within the expansion cells. A factor of 0.7 was used to convert total air space to capacity to account for consolidation of the dredged material after it is properly dewatered. This factor was based on analyses done for the existing project.

Quantities calculated in this section for the cost estimate are not the same as the quantities used during earlier portions of this study (e.g., the plan formulation process). This is because of different methods of estimating the quantities, as well as to the data available at each phase of this study. While the quantities in this section may be the most accurate to date, they do not differ significantly enough from the previous estimates to warrant reanalyses of previous sections. It is expected that there will be additional revisions to the quantities as the boring data, bathymetric surveys, and typical cross sections are better defined in the design phase of the project.

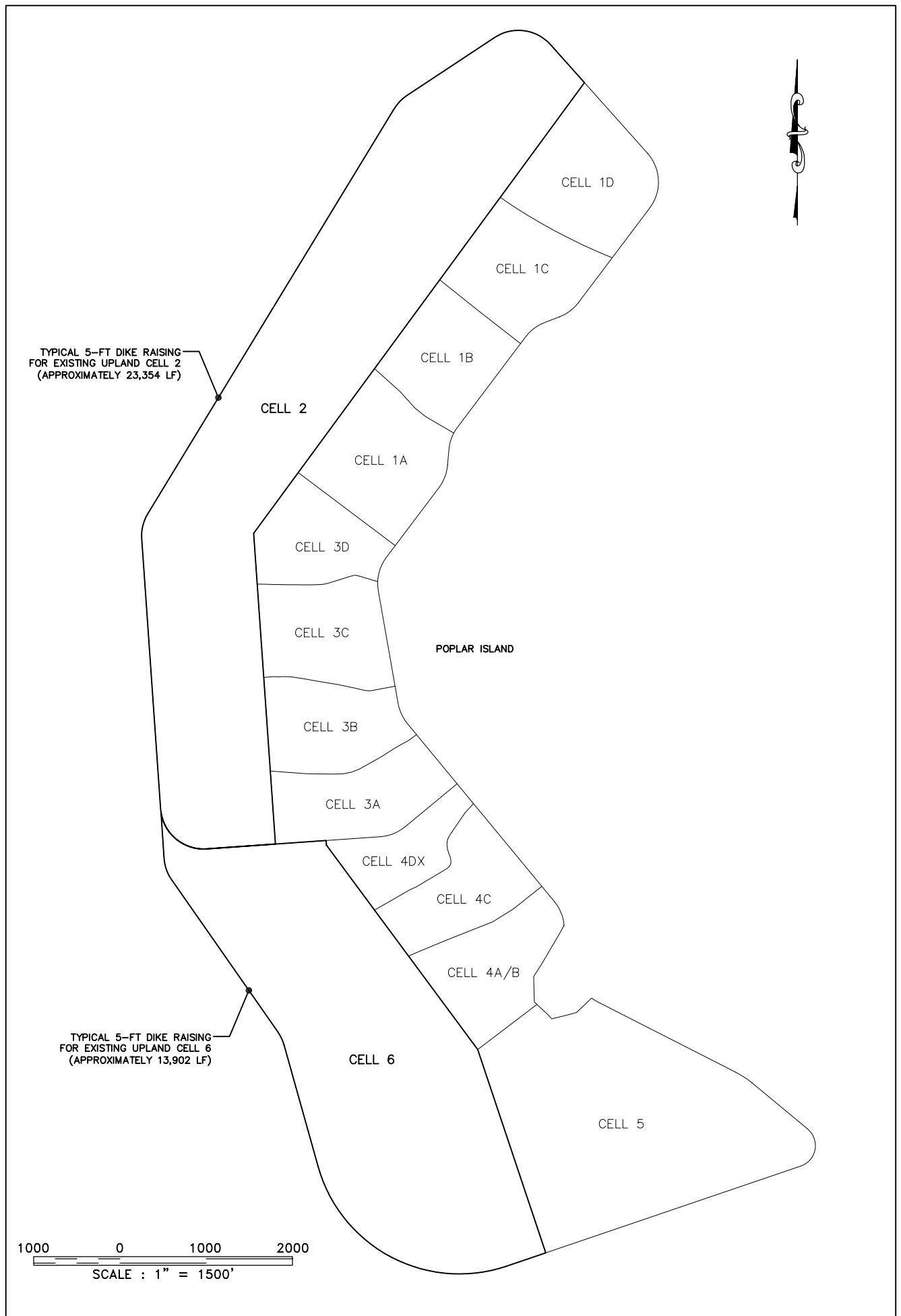
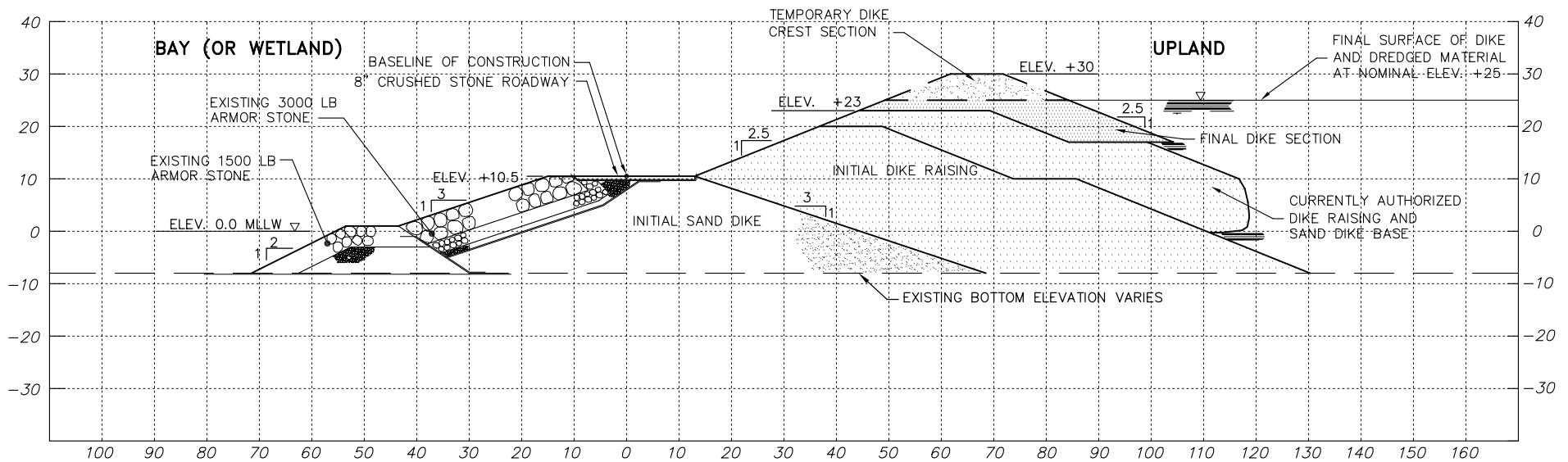


Figure 1. Layout of Typical Section for 5-ft. Dike Raising



TYPICAL EXISTING UPLAND DIKE SECTION WITH 5 FT RAISING

Figure 2. Typical 5 ft. Dike Raising Section for Existing Upland Cells 2 and 6

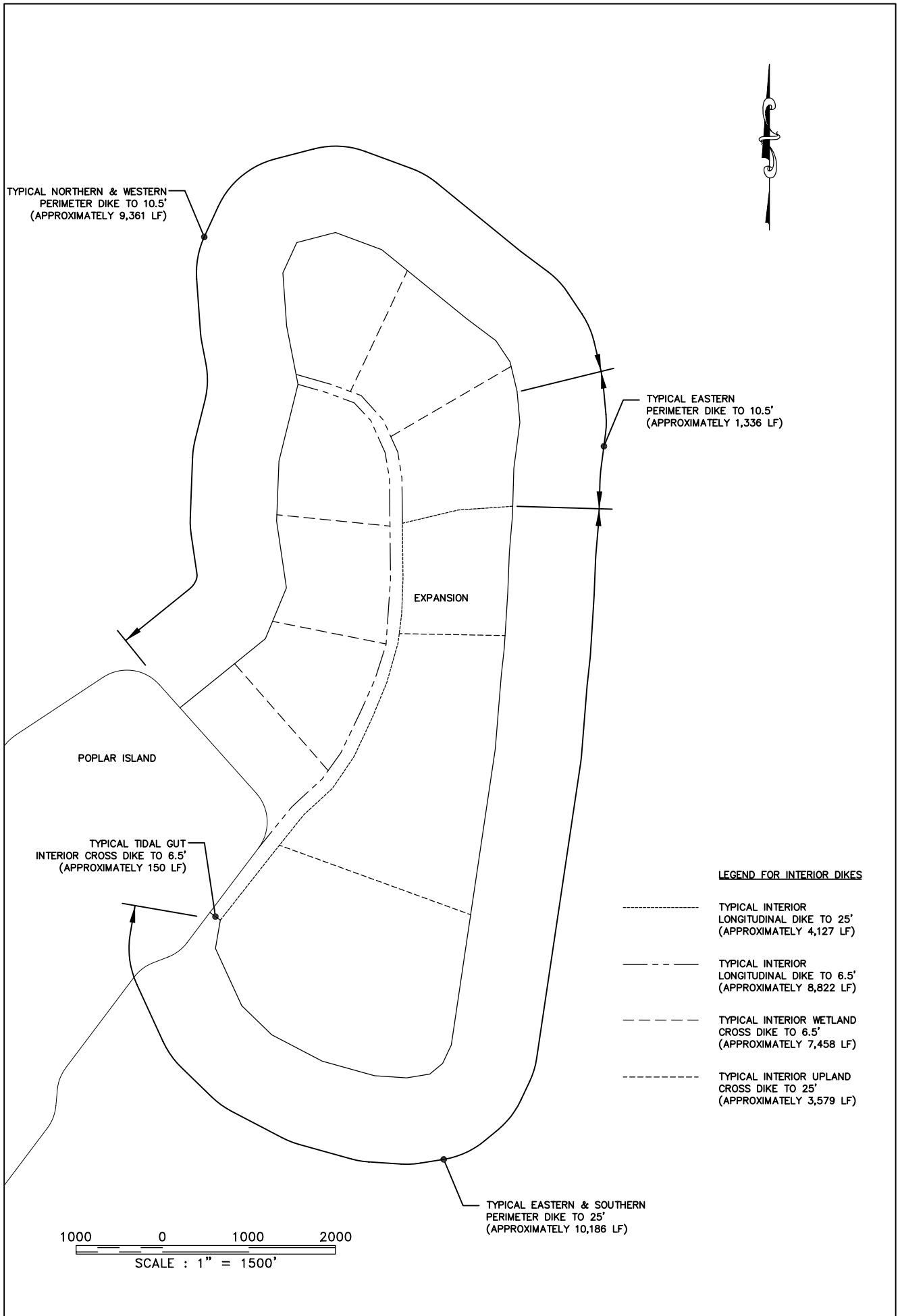


Figure 3. Layout of Typical Sections for 50% Wetlands/50% Uplands Option

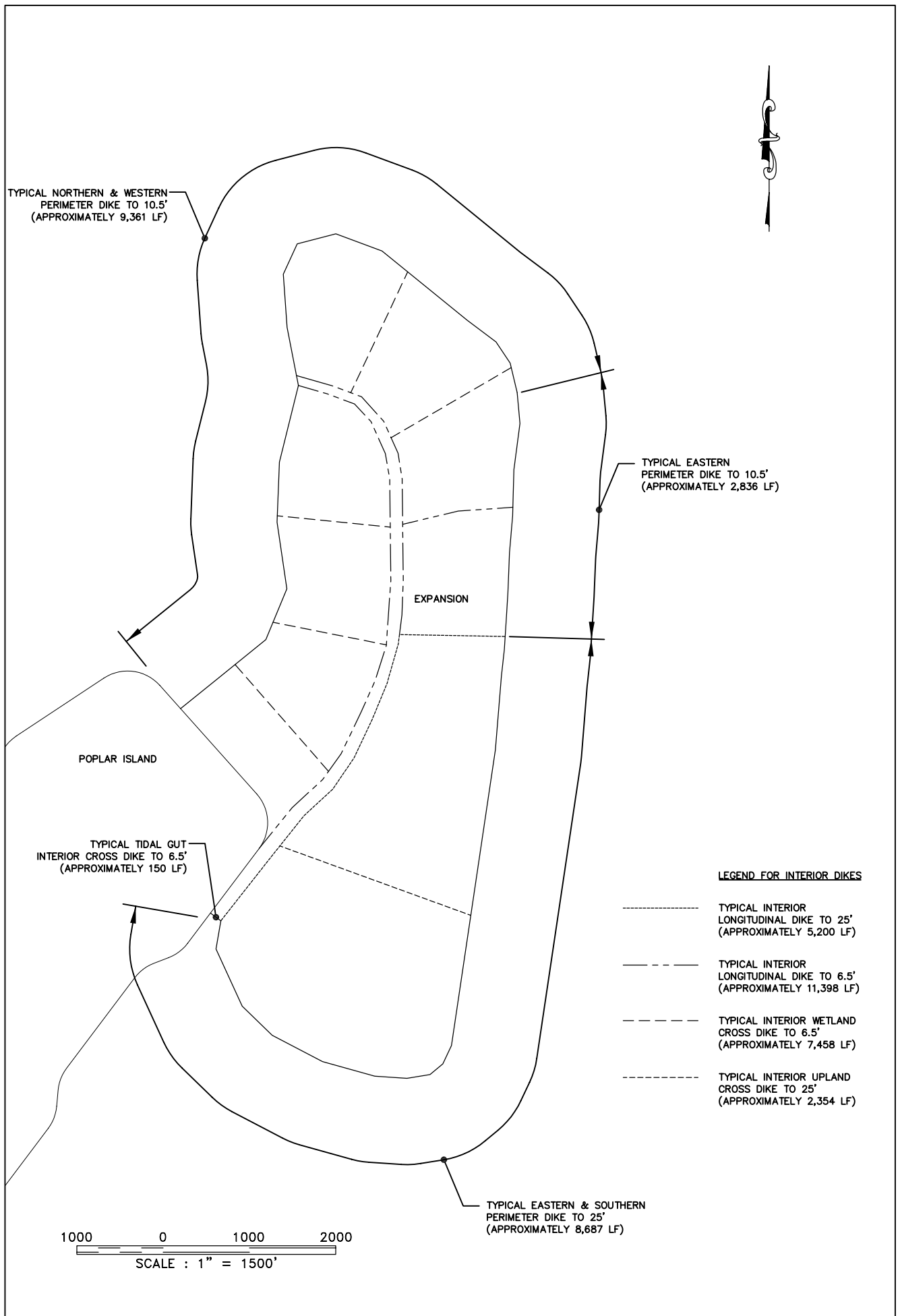


Figure 4. Layout of Typical Sections for 60% Wetlands/40% Uplands Option

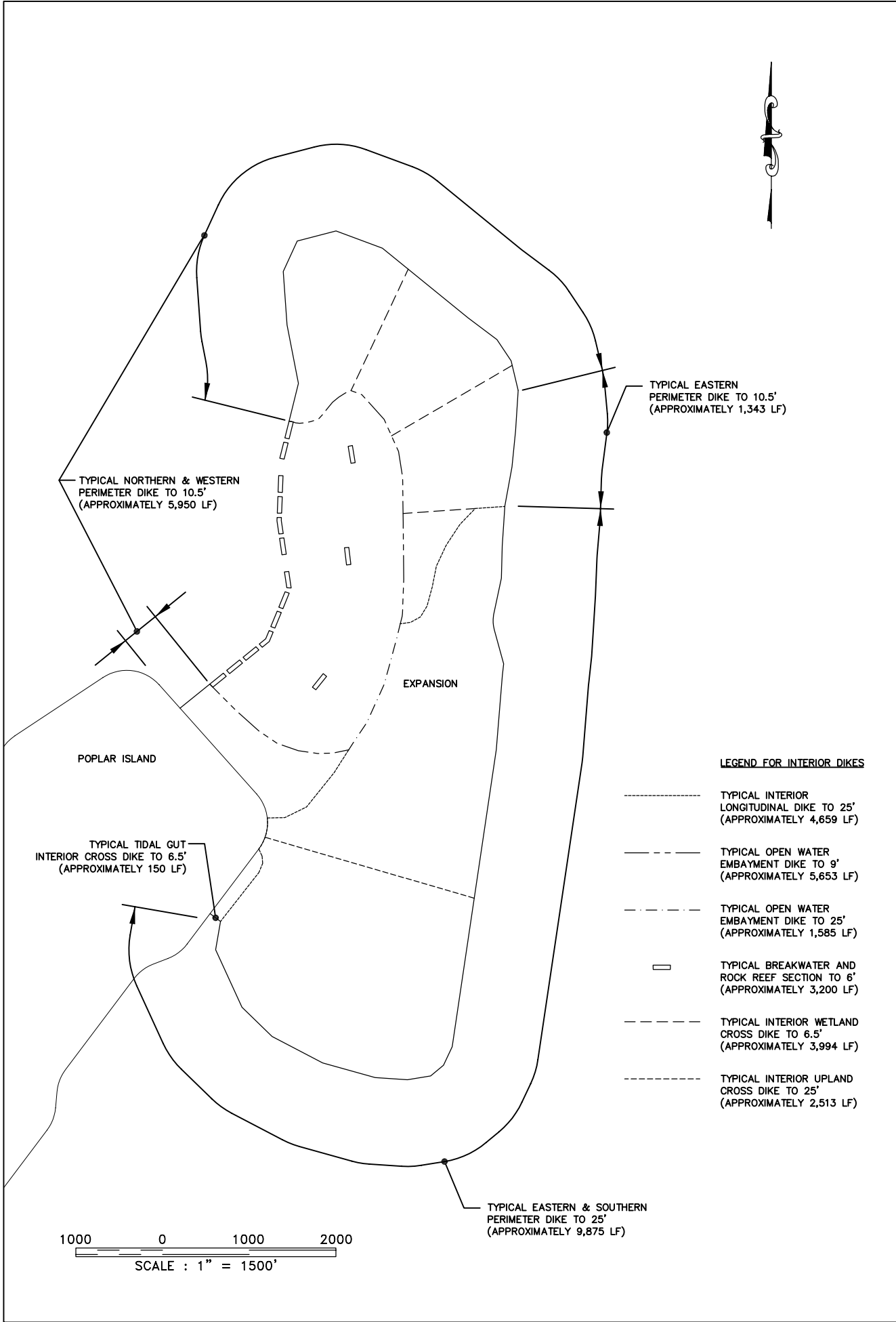
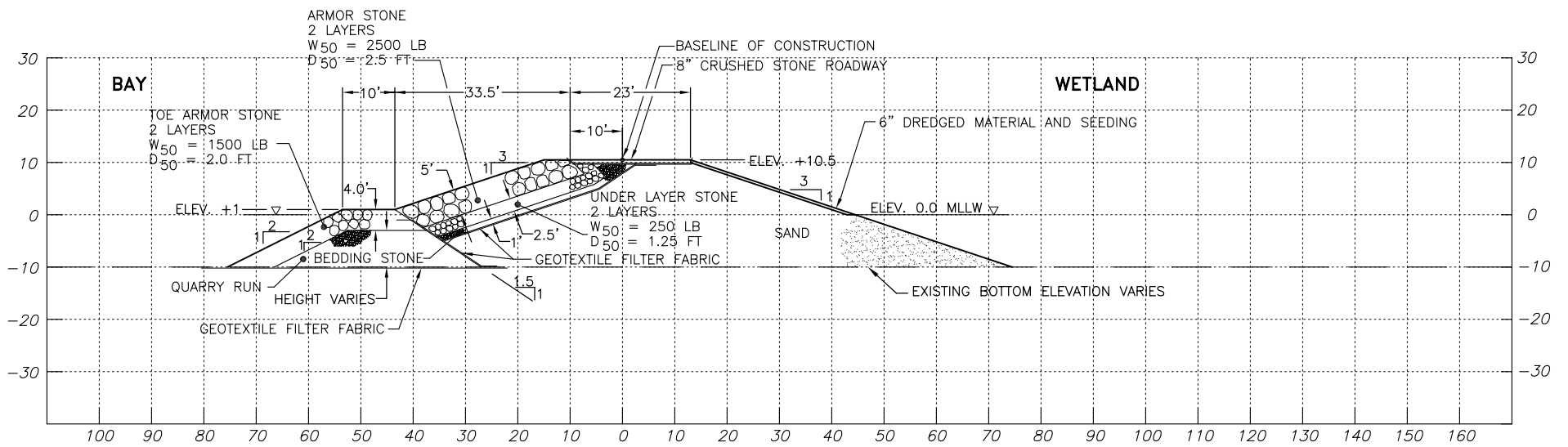
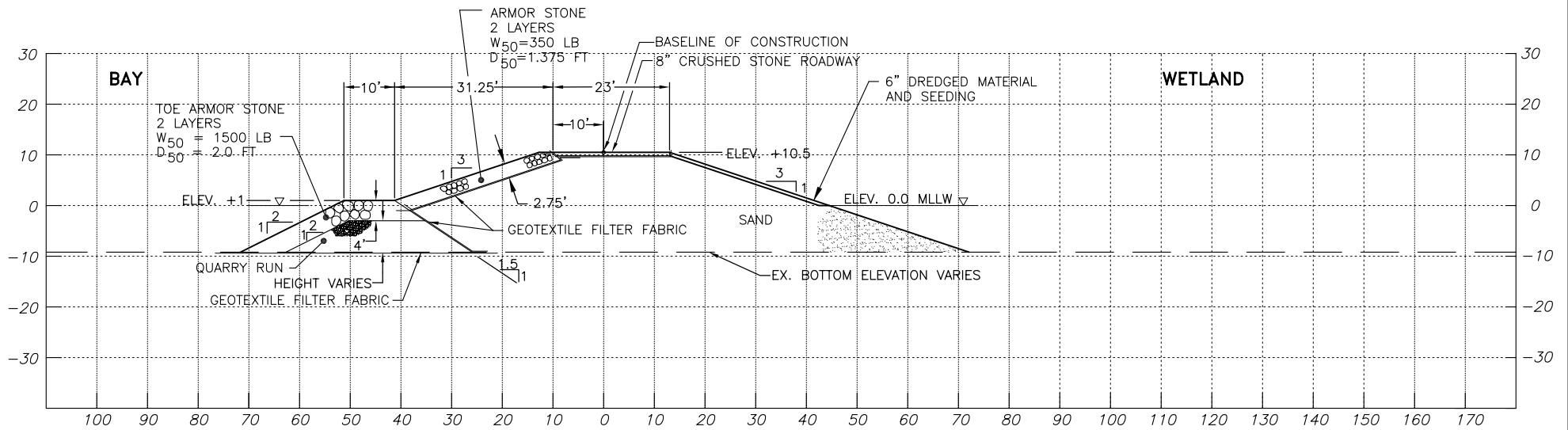


Figure 5. Layout of Typical Sections for Open Water Embayment Option

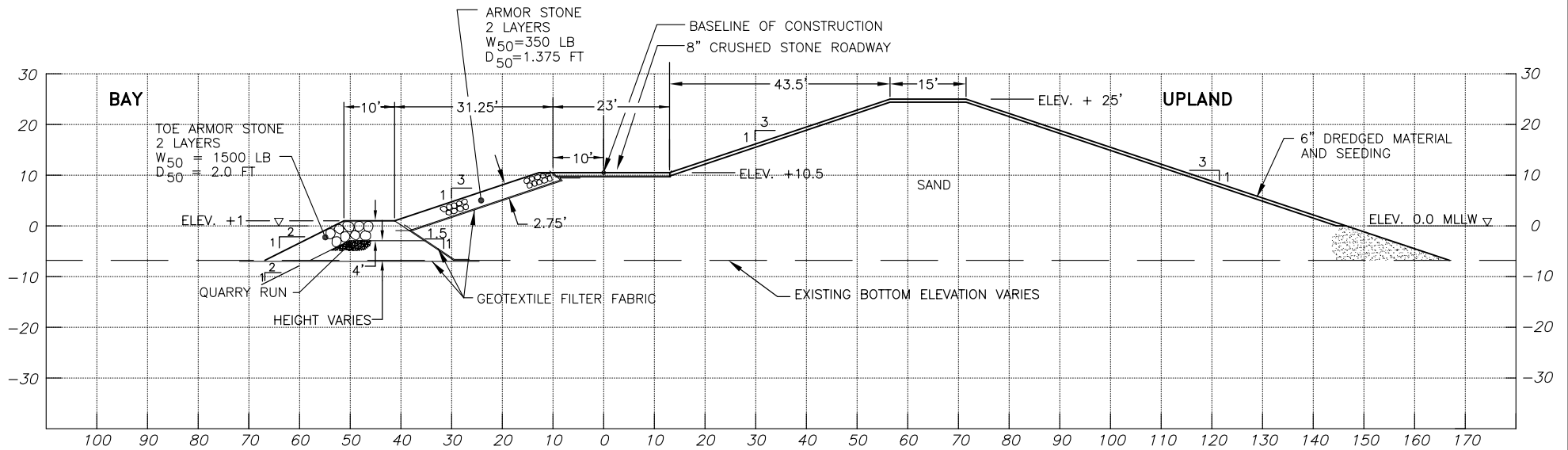


TYPICAL WESTERN AND NORTHERN PERIMETER DIKE SECTION TO 10.5 FEET

Figure 6. Typical Western and Northern Perimeter Dike Section

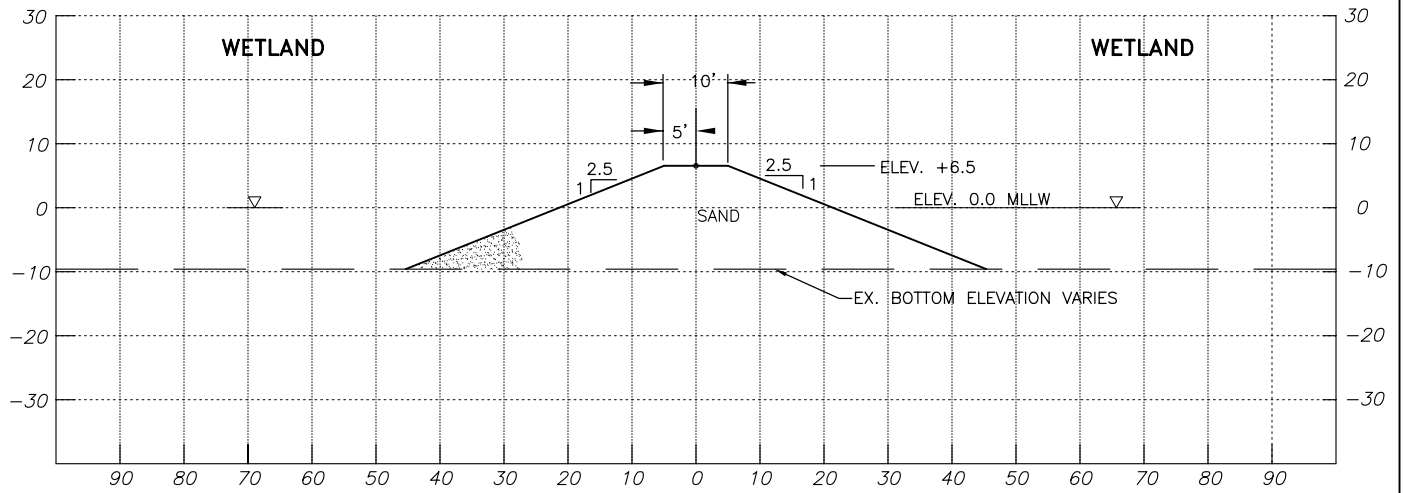


TYPICAL EASTERN PERIMETER DIKE SECTION TO 10.5 FEET

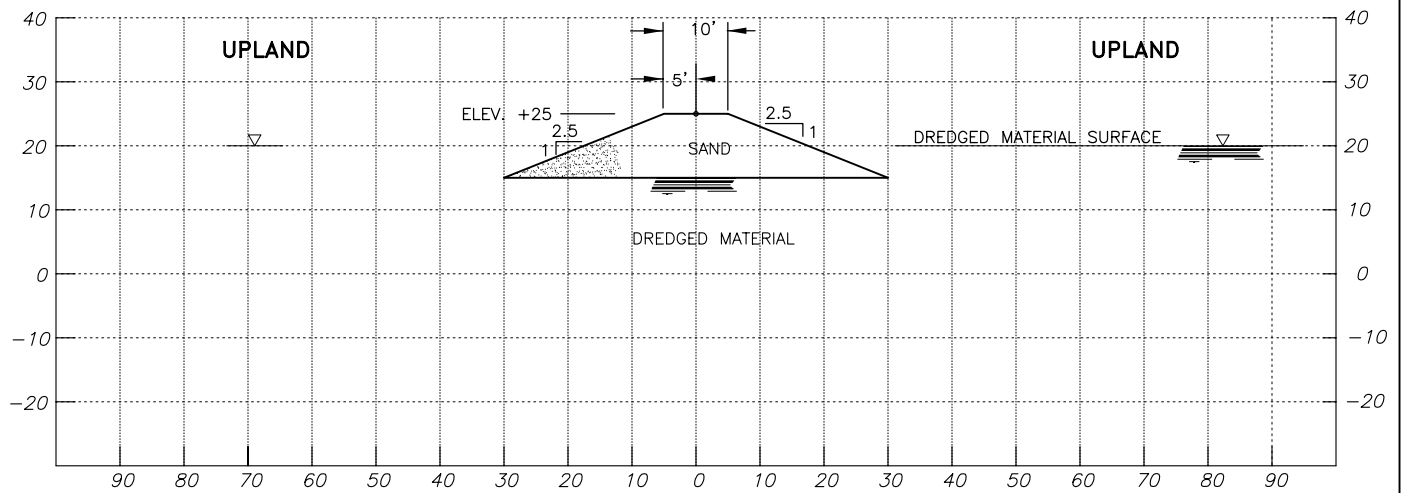


TYPICAL EASTERN AND SOUTHERN PERIMETER DIKE SECTION TO 25 FEET

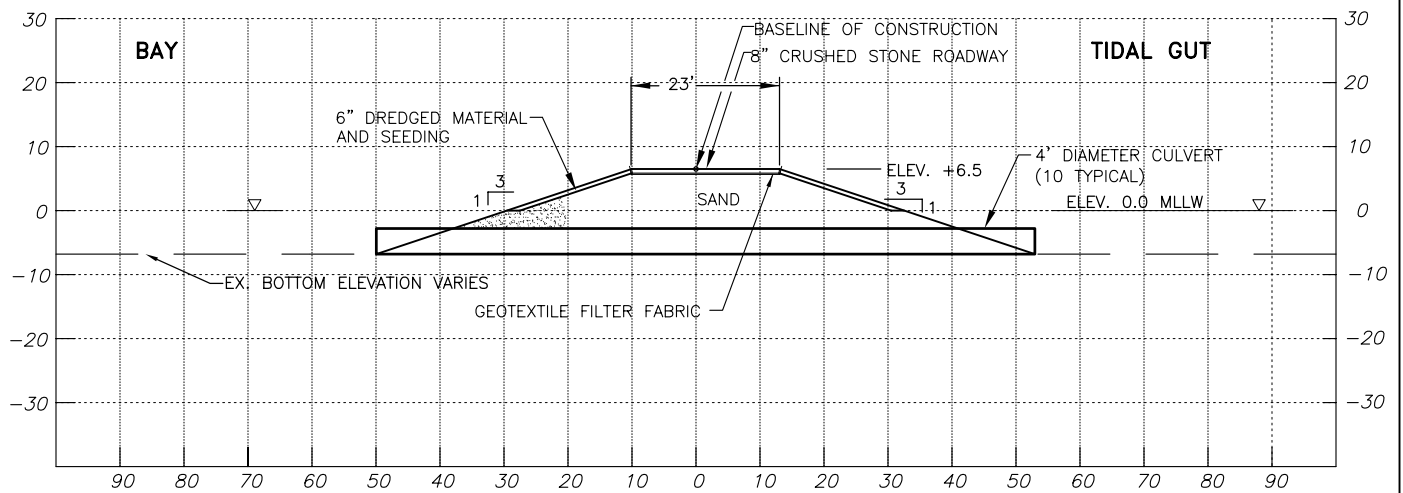
Figure 7. Typical Eastern and Southern Perimeter Dike Sections



TYPICAL DIKE SECTION FOR WETLAND CROSS DIKES TO 6.5 FEET

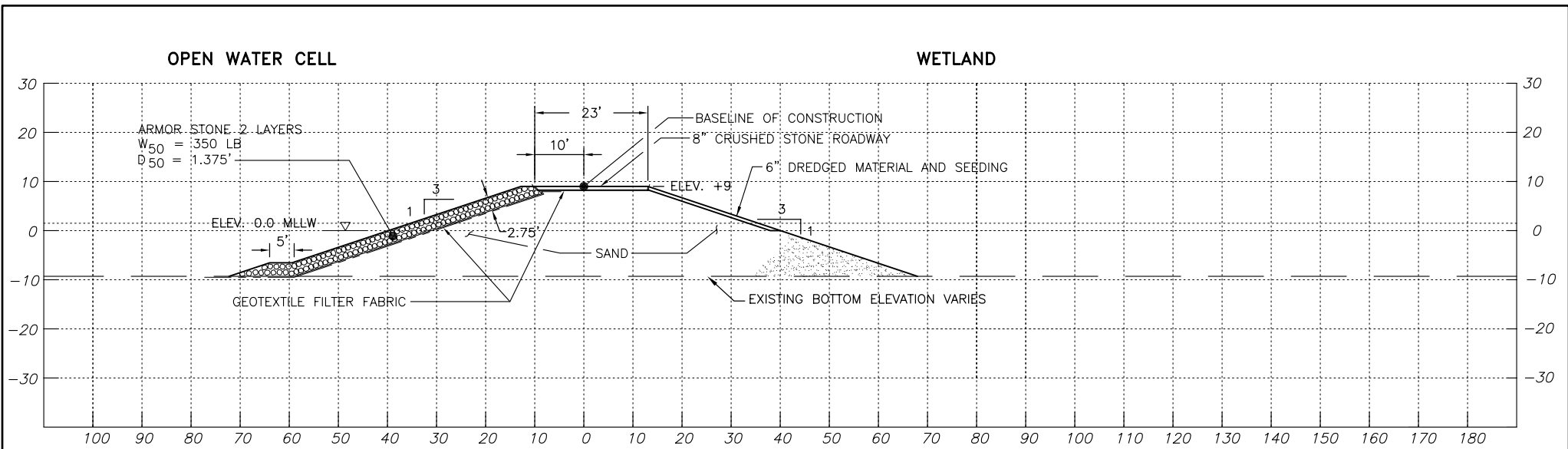


TYPICAL DIKE SECTION FOR UPLAND CROSS DIKE(S)

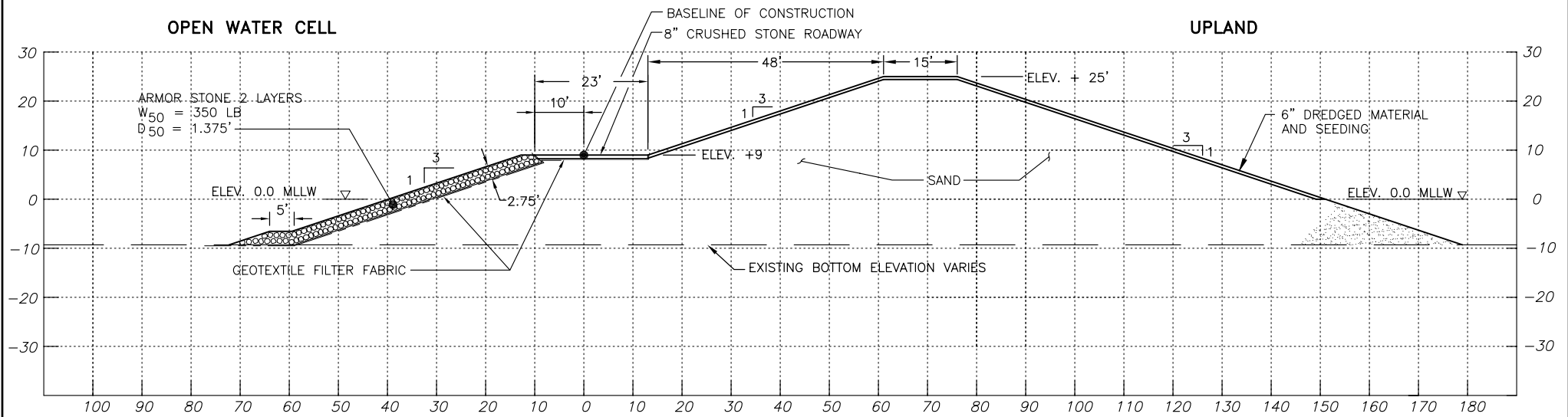


TYPICAL DIKE SECTION FOR TIDAL GUT CROSS DIKE

Figure 9. Typical Wetland, Upland, and Tidal Gut Interior Cross Dike Sections

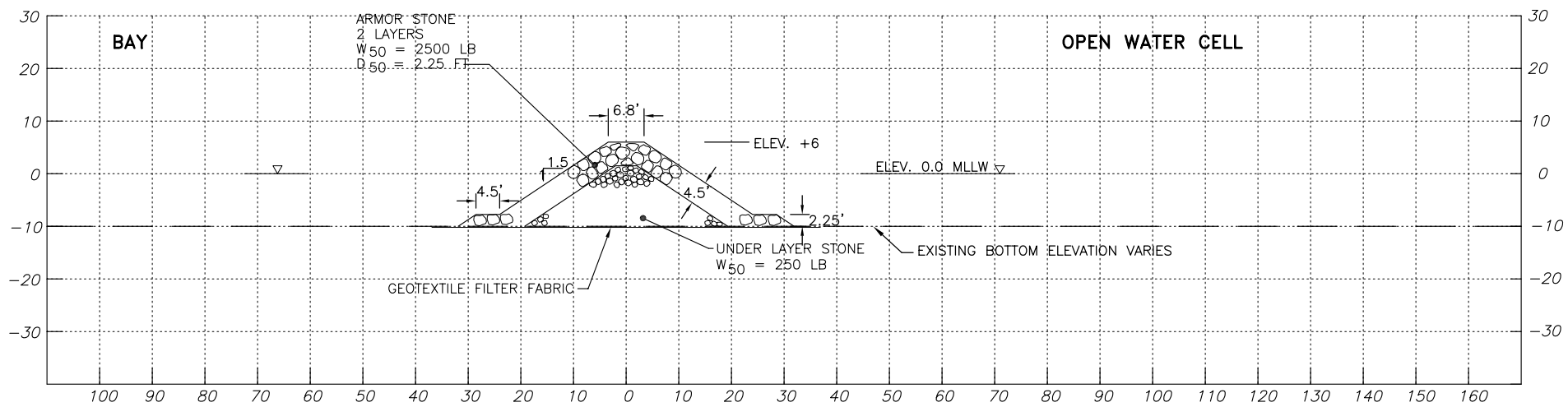


TYPICAL OPEN WATER EMBAYMENT PERIMETER DIKE SECTION TO 9 FEET



TYPICAL OPEN WATER EMBAYMENT PERIMETER DIKE SECTION TO 25 FEET

Figure 10. Typical Open Water Embayment Perimeter Dike Sections



TYPICAL BREAKWATER AND ROCK REEF SECTION TO 6 FEET

Figure 11. Typical Segmented Breakwater and Rock Reef Section

**TABLE L-1 FUNDING SCHEDULE FOR THE POPLAR ISLAND ENVIRONMENTAL RESTORATION PROJECT
EXISTING PROJECT PLUS EXPANSION (60% WETLANDS, 40% UPLANDS, PLUS 5-FT RAISING OF EXISTING UPLAND CELLS)**

	Thru FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
Pre-Construction Costs (Fed)	\$1,737,660	\$40,192												
Pre-Construction Costs (Non-Fed)		\$2,120,316												
Site Management					\$1,999,989	\$6,882,513	\$15,735,843	\$8,897,578	\$15,006,924	\$7,191,728	\$9,078,325	\$14,431,675	\$7,326,227	\$56,742,640
Underdrains					\$999,994	\$1,144,139								
Incremental Dike Raise					\$999,995	\$3,112,195	\$1,404,426	\$250,000	\$6,029,090					
Work-In-Kind							\$7,559,545	\$4,218,944	\$4,214,828	\$2,749,450	\$2,805,398	\$3,025,621	\$2,497,535	\$3,009,211
Site Operation							\$1,297,152	\$1,500,000	\$854,895	\$1,220,610	\$1,221,817	\$1,239,909	\$1,261,620	\$1,286,948
Crust Management							\$2,172,453	\$1,798,685	\$2,128,481	\$835,539	\$889,595	\$1,081,450	\$519,321	\$991,283
Habitat Development									\$450,312					
Other								\$264,726	\$287,708					
Monitoring						\$2,161,520	\$1,188,386	\$655,533	\$493,432	\$693,301	\$693,986	\$704,262	\$716,594	\$730,980
Environmental Monitoring								\$474,031	\$295,623	\$404,092	\$404,491	\$410,480	\$417,668	\$426,053
Access Channel							\$1,939,588							
Access Channel Closure									\$30,546	\$278,300	\$3,342,900	\$6,784,800		
Buildings								\$302,788	\$476,162					
Dike Construction (Expansion)														\$50,633,001
Site Development								\$1,448,971						
Habitat Development							\$36,059	\$764,437	\$64,699	\$868,296	\$511,317	\$2,196,429	\$2,347,224	\$561,119
Expansion GRR								\$312,927	\$891,447	\$890,560	\$55,715			
Hurricane Isabel Repairs									\$1,285,381					
Construction Management						\$16,454	\$42,168		\$219,013	\$553,651	\$543,125	\$557,335	\$571,018	\$584,702
Planning, Engineering & Design						\$448,205	\$96,066	\$1,125,480	\$1,500,135	\$1,447,379	\$1,415,379	\$1,457,010	\$1,492,782	\$1,528,554
Incremental Dredging Cost					\$538,000	\$10,485,029	\$12,435,302	\$4,453,642	\$1,863,232	\$6,137,601	\$7,176,092	\$7,282,352	\$7,409,864	\$7,558,628
Mobilization, Demobilization, Prep					\$538,000	\$908,000	\$623,164	\$450,000	\$400,000	\$388,919	\$1,114,300	\$1,130,800	\$1,150,600	\$1,173,700
Mechanical Dredging						\$9,577,029	\$11,812,138	\$4,003,642	\$1,463,232	\$5,748,682	\$6,061,792	\$6,151,552	\$6,259,264	\$6,384,928
Phase I		\$703,430	\$9,899,318	\$35,006,425	\$7,099,791	\$6,209,677								
Lands and Damages (01)						\$35,000								
Real Estate (Labor) (01)			\$1,055	\$1,153	\$1,658									
Dikes (19)			\$8,744,774	\$33,589,469	\$5,568,907	\$4,785,561								
Armoring, etc, for Internal Dike ** (19)			\$0	\$100,000	\$669,832	\$789,116								
Coaches Island Geotubes (19)						\$600,000								
Contingency (19)														
Planning, Engineering, Design (30)		\$386,099	\$361,484	\$157,629	\$59,938									
Construction Management (31)		\$317,331	\$792,005	\$1,158,174	\$799,456									
Phase II				\$482,557	\$10,704,601	\$26,492,042	\$6,936,603	(\$12,898)						
Dikes (19)					\$7,629,986	\$24,950,417	\$4,533,931	(\$18,826)						
Mob, Demob, and Preparatory Work ** (19)					\$2,400,000	\$0	\$1,600,000							
Coaches Island By-pass (19)							\$277,207							
Contingency (19)														
Planning, Engineering, Design (30)				\$482,557	\$339,450	\$325,018	\$73,727	\$4,248						
Construction Management (31)					\$335,165	\$1,216,607	\$451,738	\$1,680						
Total Cost	\$1,737,660	\$743,622	\$9,899,318	\$35,488,982	\$20,342,381	\$50,069,261	\$35,107,748	\$13,338,322	\$16,870,156	\$13,329,329	\$16,254,417	\$21,714,027	\$14,736,091	\$64,301,268
Total Betterment				\$100,000	\$3,069,832	\$1,389,116	\$1,877,207							
Total Cost (Excluding Betterment)	\$1,737,660	\$743,622	\$9,899,318	\$35,388,982	\$17,272,549	\$48,680,145	\$33,230,541	\$13,338,322	\$16,870,156	\$13,329,329	\$16,254,417	\$21,714,027	\$14,736,091	\$64,301,268
Federal Cost	\$1,303,245	\$557,717	\$7,424,489	\$26,541,737	\$12,954,412	\$36,510,109	\$24,922,906	\$10,003,741	\$12,652,617	\$9,996,997	\$12,190,813	\$16,285,520	\$11,052,068	\$48,225,951
Non-Federal Cost	\$434,415	\$185,906	\$2,474,830	\$8,947,246	\$7,387,969	\$13,559,152	\$10,184,842	\$3,334,580	\$4,217,539	\$3,332,332	\$4,063,604	\$5,428,507	\$3,684,023	\$16,075,317
Proposed Work-in Kind							\$9,731,998	\$4,218,944	\$4,214,828	\$2,749,450	\$2,805,398	\$3,025,621	\$2,497,535	\$3,009,211
Work In Kind Credited							\$7,559,545	\$2,172,453	\$4,218,944	\$4,214,828				
Non-Federal Cash Required	\$434,415	\$185,906	\$2,474,830	\$8,947,246	\$7,387,969	\$13,559,152	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,957,277
Federal Cash Required	\$1,303,245	\$557,717	\$7,424,489	\$26,541,737	\$12,954,412	\$36,510,109	\$17,363,361	\$11,165,869	\$12,651,212	\$9,114,501	\$13,449,019	\$18,688,406	\$12,238,556	\$51,334,780

TABLE L-1 (continued)

	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
Pre-Construction Costs (Fed)														
Pre-Construction Costs (Non-Fed)														
Site Management	\$44,424,552	\$5,149,138	\$7,610,580	\$7,213,231	\$7,670,097	\$7,671,153	\$7,981,880	\$5,069,492	\$8,216,842	\$5,250,563	\$7,271,677	\$6,003,991	\$5,841,144	\$5,692,157
Underdrains														
Incremental Dike Raise														
Work-In-Kind	\$2,058,773	\$1,402,888	\$1,825,842	\$1,988,361	\$1,921,259	\$2,001,641	\$1,764,748	\$2,190,393	\$2,234,201	\$2,278,010	\$1,866,554	\$1,915,984	\$2,370,356	\$2,130,699
Site Operation	\$1,312,278	\$817,807	\$834,016	\$850,961	\$867,907	\$884,853	\$453,983	\$854,888	\$871,986	\$889,084	\$906,865	\$996,840	\$1,016,733	\$1,036,626
Crust Management	\$400,476	\$408,573	\$811,820	\$890,212	\$866,031	\$925,810	\$1,115,970	\$1,136,735	\$1,159,470	\$1,182,205	\$748,834	\$703,995	\$1,134,181	\$870,338
Habitat Development														
Other														
Monitoring	\$346,019	\$176,508	\$180,006	\$247,188	\$187,321	\$190,978	\$194,795	\$198,770	\$202,745	\$206,721	\$210,855	\$215,149	\$219,442	\$223,735
Environmental Monitoring	\$434,438	\$443,223	\$452,008	\$461,192	\$470,375	\$479,559	\$489,143	\$499,125	\$509,108	\$519,090	\$529,471	\$540,253	\$551,034	\$561,815
Access Channel														
Access Channel Closure														
Buildings														
Dike Construction (Expansion)	\$38,151,049													
Site Development														
Habitat Development	\$1,615,680	\$1,085,155	\$3,061,599	\$2,437,386	\$2,895,106	\$2,747,631	\$4,078,883	\$689,515	\$3,740,468	\$675,286	\$3,052,362	\$1,674,338	\$0	\$0
Expansion GRR														
Hurricane Isabel Repairs														
Construction Management	\$598,911	\$613,647	\$628,383	\$643,645	\$659,434	\$675,749	\$518,878	\$531,889	\$545,295	\$559,489	\$573,683	\$589,455	\$807,846	\$829,950
Planning, Engineering & Design	\$1,565,701	\$1,604,225	\$1,642,748	\$1,682,647	\$1,723,923	\$1,766,573	\$1,130,228	\$1,158,570	\$1,187,770	\$1,218,688	\$1,249,607	\$1,283,961	\$2,111,908	\$2,169,693
Incremental Dredging Cost	\$11,613,747	\$11,848,584	\$12,083,420	\$12,328,932	\$12,574,443	\$12,819,954	\$13,076,140	\$13,343,000	\$13,609,860	\$13,876,720	\$14,154,254	\$14,442,463	\$14,730,672	\$6,870,993
Mobilization, Demobilization, Prep	\$1,196,800	\$1,221,000	\$1,245,200	\$1,270,500	\$1,295,800	\$1,321,100	\$1,347,500	\$1,375,000	\$1,402,500	\$1,430,000	\$1,458,600	\$1,488,300	\$1,518,000	\$1,547,700
Mechanical Dredging	\$10,416,947	\$10,627,584	\$10,838,220	\$11,058,432	\$11,278,643	\$11,498,854	\$11,728,640	\$11,968,000	\$12,207,360	\$12,446,720	\$12,695,654	\$12,954,163	\$13,212,672	\$5,323,293
Phase I														
Lands and Damages (01)														
Real Estate (Labor) (01)														
Dikes (19)														
Armoring, etc, for Internal Dike ** (19)														
Coaches Island Geotubes (19)														
Contingency (19)														
Planning, Engineering, Design (30)														
Construction Management (31)														
Phase II														
Dikes (19)														
Mob, Demob, and Preparatory Work ** (19)														
Coaches Island By-pass (19)														
Contingency (19)														
Planning, Engineering, Design (30)														
Construction Management (31)														
Total Cost	\$56,038,299	\$16,997,722	\$19,694,000	\$19,542,163	\$20,244,540	\$20,491,107	\$21,058,020	\$18,412,492	\$21,826,702	\$19,127,283	\$21,425,931	\$20,446,454	\$20,571,816	\$12,563,150
Total Betterment														
Total Cost (Excluding Betterment)	\$56,038,299	\$16,997,722	\$19,694,000	\$19,542,163	\$20,244,540	\$20,491,107	\$21,058,020	\$18,412,492	\$21,826,702	\$19,127,283	\$21,425,931	\$20,446,454	\$20,571,816	\$12,563,150
Federal Cost	\$42,028,724	\$12,748,292	\$14,770,500	\$14,656,622	\$15,183,405	\$15,368,330	\$15,793,515	\$13,809,369	\$16,370,027	\$14,345,462	\$16,069,448	\$15,334,841	\$15,428,862	\$9,422,363
Non-Federal Cost	\$14,009,575	\$4,249,431	\$4,923,500	\$4,885,541	\$5,061,135	\$5,122,777	\$5,264,505	\$4,603,123	\$5,456,676	\$4,781,821	\$5,356,483	\$5,111,614	\$5,142,954	\$3,140,788
Proposed Work-in Kind	\$2,058,773	\$1,402,888	\$1,825,842	\$1,988,361	\$1,921,259	\$2,001,641	\$1,764,748	\$2,190,393	\$2,234,201	\$2,278,010	\$1,866,554	\$1,915,984	\$2,370,356	\$2,130,699
Work In Kind Credited														
Non-Federal Cash Required	\$11,950,802	\$2,846,543	\$3,097,658	\$2,897,180	\$3,139,876	\$3,121,136	\$3,499,757	\$2,412,730	\$3,222,475	\$2,503,811	\$3,489,929	\$3,195,630	\$2,772,598	\$1,010,089
Federal Cash Required	\$42,028,724	\$12,748,292	\$14,770,500	\$14,656,622	\$15,183,405	\$15,368,330	\$15,793,515	\$13,809,369	\$16,370,027	\$14,345,462	\$16,069,448	\$15,334,841	\$15,428,862	\$9,422,363

TABLE L-1 (continued)

	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	TOTAL
Pre-Construction Costs (Fed)									\$1,777,852
Pre-Construction Costs (Non-Fed)									\$2,120,316
Site Management	\$6,252,878	\$5,112,559	\$10,656,199	\$10,894,079	\$4,639,262	\$5,507,079	\$17,305,088	\$23,965,572	\$358,692,655
Underdrains									\$2,144,133
Incremental Dike Raise									\$11,795,706
Work-In-Kind	\$2,026,377	\$1,552,922	\$1,517,559	\$1,548,030	\$675,317	\$597,513	\$611,349	\$623,817	\$67,183,125
Site Operation	\$910,530	\$398,973	\$355,834	\$362,978	\$338,564	\$345,314	\$354,061	\$361,282	\$24,608,162
Crust Management	\$887,659	\$917,969	\$924,155	\$942,712	\$89,483		\$0	\$0	\$26,533,435
Habitat Development									\$450,312
Other									\$552,434
Monitoring	\$228,188	\$235,980	\$237,570	\$242,340	\$247,270	\$252,199	\$257,288	\$262,535	\$9,651,690
Environmental Monitoring	\$572,996	\$296,281	\$298,277	\$304,267	\$310,456	\$316,644	\$323,033	\$329,622	\$12,523,848
Access Channel									\$1,939,588
Access Channel Closure									\$10,436,546
Buildings								\$3,693,506	\$4,472,456
Dike Construction (Expansion)									\$88,784,050
Site Development									\$1,448,971
Habitat Development	\$570,169	\$589,638	\$6,091,262	\$6,213,577	\$1,300,215	\$2,173,449	\$13,882,440	\$16,758,971	\$82,682,710
Expansion GRR									\$2,150,649
Hurricane Isabel Repairs									\$1,285,381
Construction Management	\$853,106	\$658,702	\$677,273	\$696,635	\$478,632	\$492,096	\$506,088	\$520,608	\$16,746,860
Planning, Engineering & Design	\$2,230,230	\$2,015,016	\$2,071,828	\$2,131,570	\$1,874,642	\$1,927,377	\$1,982,178	\$2,039,048	\$48,279,121
Incremental Dredging Cost	\$4,826,934	\$4,898,247	\$3,939,355	\$1,798,799					\$258,176,259
Mobilization, Demobilization, Prep	\$1,578,500	\$1,632,400	\$1,643,400	\$1,676,400					\$33,526,183
Mechanical Dredging	\$3,248,434	\$3,265,847	\$2,295,955	\$122,399					\$224,650,076
Phase I									\$58,918,641
Lands and Damages (01)									\$35,000
Real Estate (Labor) (01)									\$3,866
Dikes (19)									\$52,688,711
Armoring, etc, for Internal Dike ** (19)									\$1,558,948
Coaches Island Geotubes (19)									\$600,000
Contingency (19)									\$0
Planning, Engineering, Design (30)									\$965,150
Construction Management (31)									\$3,066,966
Phase II									\$44,602,905
Dikes (19)									\$37,095,508
Mob, Demob, and Preparatory Work ** (19)									\$4,000,000
Coaches Island By-pass (19)									\$277,207
Contingency (19)									\$0
Planning, Engineering, Design (30)									\$1,225,000
Construction Management (31)									\$2,005,190
Total Cost	\$11,079,812	\$10,010,806	\$14,595,554	\$12,692,878	\$4,639,262	\$5,507,079	\$17,305,088	\$23,965,572	\$722,168,312
Total Betterment									\$6,436,155
Total Cost (Excluding Betterment)	\$11,079,812	\$10,010,806	\$14,595,554	\$12,692,878	\$4,639,262	\$5,507,079	\$17,305,088	\$23,965,572	\$715,732,157
Federal Cost	\$8,309,859	\$7,508,105	\$10,946,666	\$9,519,659	\$3,479,447	\$4,130,309	\$12,978,816	\$17,974,179	\$536,799,118
Non-Federal Cost	\$2,769,953	\$2,502,702	\$3,648,889	\$3,173,220	\$1,159,816	\$1,376,770	\$4,326,272	\$5,991,393	\$185,369,194
Proposed Work-in Kind	\$2,026,377	\$1,552,922	\$1,517,559	\$1,548,030	\$675,317	\$597,513	\$611,349	\$623,817	\$69,355,578
Work In Kind Credited									\$18,165,770
Non-Federal Cash Required	\$743,576	\$949,780	\$2,131,330	\$1,625,190	\$484,499	\$779,257	\$3,714,923	\$9,082,499	\$119,728,539
									\$41,100,000
Federal Cash Required	\$8,309,859	\$7,508,105	\$10,946,666	\$9,519,659	\$3,479,447	\$4,130,309	\$12,978,816	\$14,259,256	\$533,759,285

Table L-2. Mean Depths and Elevations for Exterior and Interior Dike Sections

Reach	Assumed Offset (ft)		Actual Offset (ft)		Mean Depth/Elevation (ft MLLW)
	Left	Right	Left	Right	
West and North Perimeter Dikes to 10.5'	76	76	76	75	(10.0)
Segmented Breakwater and Reefs to 6'	-	-	-	-	(10.0)
East Perimeter Dike to 10.5'	73	71	74	72	(9.2)
East and South Perimeter Dikes to 25'	63	161	67	167	(6.8)
Longitudinal Interior Dike to 25'	54	183	54	183	(8.2)
Longitudinal Interior Dike to 6.5'	57	60	57	60	(9.3)
Open Water Interior Dike to 25'	-	-	-	-	(9.3)
Open Water Interior Dike to 9'	-	-	-	-	(9.3)
Wetland Interior Cross Dikes	45	45	45	45	(9.6)
Tidal Gut Cross Dike	-	-	-	-	(6.8)
Upland Interior Cross Dike(s)	-	-	-	-	15
5' Raising - Cell 2	-	-	-	-	23
5' Raising - Cell 6	-	-	-	-	23

Table L-3. Non-Armor Stone Quantities for 50 Percent Wetland, 50 Percent Upland Option

Reach	Length (ft)	SAND		6" DREDGED MATERIAL		CRUSHED STONE ROADWAY		
		Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	9,361	1,243	430,953	16.6	5,755	15.2	5,270	7,905
East Perimeter Dike to 10.5'	1,336	1,336	66,107	16.6	821	15.2	752	1,128
East and South Perimeter Dikes to 25'	10,186	3,718	1,402,650	62.5	23,579	15.2	5,734	8,601
Longitudinal Interior Dike to 25'	6,551	4,127	1,001,332	79.1	19,192	15.4	3,736	5,604
Longitudinal Interior Dike to 6.5'	8,822	1,098	358,761	20.6	6,731	15.4	5,032	7,548
Wetland Interior Cross Dikes	7,458	813	224,569	17.6	4,862	0	0	0
Upland Interior Cross Dikes	3,579	350	46,394	13.5	1,790	0	0	0
Tidal Gut Cross Dike	150	733	4,072	17.5	97	15.3	85	128
SUBTOTAL			3,534,838	TOTAL	62,827	TOTALS	20,609	30,914
Unsuitable Foundation (removal and replacement)			50,000					
TOTAL SAND FILL			3,584,838					
Sand Losses (estimated at 30% of total sand borrow)			1,075,451					
TOTAL SAND BORROW			4,660,289					

Reach	Length (ft)	SEEDING		EROSION CONTROL MATERIAL		GEOTEXTILE UNDER ROADWAY	
		Length (ft)	Area (sy)	Length (ft)	Area (sy)	Length (ft)	Area (sy)
West and North Perimeter Dikes to 10.5'	9,361	33.2	34,532	33.2	34,532	25.6	26,627
East Perimeter Dike to 10.5'	1,336	33.2	4,928	33.2	4,928	25.6	3,800
East and South Perimeter Dikes to 25'	10,186	140	158,449	125	141,472	25.6	28,974
Longitudinal Interior Dike to 25'	6,551	173	125,925	158	115,006	25.9	18,852
Longitudinal Interior Dike to 6.5'	8,822	41.2	40,385	41.2	40,385	26.1	25,584
Wetland Interior Cross Dikes	7,458	0	0	0	0	0	0
Upland Interior Cross Dikes	3,579	0	0	0	0	0	0
Tidal Gut Cross Dike	150	35.0	583	35.0	583	25.8	430
TOTAL		364,802	TOTAL	336,906	TOTAL	104,267	

Table L-4. Non-Armor Stone Quantities for 60 Percent Wetland, 40 Percent Upland Option

Reach	Length (ft)	SAND		6" DREDGED MATERIAL		CRUSHED STONE ROADWAY		
		Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	9,361	1,243	430,953	16.6	5,755	15.2	5,270	7,905
East Perimeter Dike to 10.5'	2,836	1,336	140,329	16.6	1,744	15.2	1,597	2,396
East and South Perimeter Dikes to 25'	8,687	3,718	1,196,232	62.5	20,109	15.2	0	0
Longitudinal Interior Dike to 25'	5,200	4,127	794,830	79.1	15,234	15.4	2,966	4,449
Longitudinal Interior Dike to 6.5'	11,398	1,098	463,519	20.6	8,696	15.4	6,501	9,752
Wetland Interior Cross Dikes	7,458	813	224,569	17.6	4,862	0	0	0
Upland Interior Cross Dike	2,354	350	30,515	13.5	1,177	0	0	0
Tidal Gut Cross Dike	150	733	4,072	17.5	97	15.3	85	128
SUBTOTAL			3,285,019	TOTAL	57,674	TOTALS	16,419	24,630
Unsuitable Foundation (removal and replacement)			50,000					
TOTAL SAND FILL			3,335,019					
Sand Losses (estimated at 30% of total sand borrow)			1,000,506					
TOTAL SAND BORROW			4,335,525					

Reach	Length (ft)	SEEDING		EROSION CONTROL MATERIAL		GEOTEXTILE UNDER ROADWAY	
		Length (ft)	Area (sy)	Length (ft)	Area (sy)	Length (ft)	Area (sy)
West and North Perimeter Dikes to 10.5'	9,361	33.2	34,532	33.2	34,532	25.6	26,627
East Perimeter Dike to 10.5'	2,836	33.2	10,462	33.2	10,462	25.6	8,067
East and South Perimeter Dikes to 25'	8,687	140	135,131	125	120,653	25.6	24,710
Longitudinal Interior Dike to 25'	5,200	173	99,956	158	91,289	25.9	14,964
Longitudinal Interior Dike to 6.5'	11,398	41.2	52,178	41.2	52,178	26.1	33,054
Wetland Interior Cross Dikes	7,458	0	0	0	0	0	0
Upland Interior Cross Dike	2,354	0	0	0	0	0	0
Tidal Gut Cross Dike	150	35.0	583	35.0	583	25.8	430
TOTAL		332,842	332,842	TOTAL	309,697	TOTAL	107,852

Table L-5. Non-Armor Stone Quantities for Open Water Embayment Option

Reach	Length (ft)	SAND		6" DREDGED MATERIAL		CRUSHED STONE ROADWAY		
		Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	5,950	1,243	273,920	16.6	3,658	15.2	3,350	5,025
East Perimeter Dike to 10.5'	1,343	1,336	66,454	16.6	826	15.2	756	1,134
East and South Perimeter Dikes to 25'	9,875	3,718	1,359,824	62.5	22,859	15.2	0	0
Longitudinal Interior Dike to 25'	4,659	4,127	712,137	79.1	13,649	15.4	2,657	3,986
Open Water Interior Dike to 25'	1,585	4,263	250,254	84.5	4,960	15.1	886	1,329
Open Water Interior Dike to 9'	5,653	1,290	270,088	17.9	3,748	15.1	3,161	4,742
Wetland Interior Cross Dikes	3,994	813	120,264	17.6	2,603	0	0	0
Upland Interior Cross Dike	2,513	350	32,576	13.5	1,257	0	0	0
Tidal Gut Cross Dike	150	733	4,072	17.5	97	15.3	85	128
SUBTOTAL			2,839,335	TOTAL	48,697	TOTALS	10,009	15,015
Unsuitable Foundation (removal and replacement)			50,000					
TOTAL SAND FILL			2,889,335					
Sand Losses (estimated at 30% of total sand borrow)			866,801					
TOTAL SAND BORROW			3,756,136					

Reach	Length (ft)	SEEDING		EROSION CONTROL MATERIAL		GEOTEXTILE UNDER ROADWAY	
		Length (ft)	Area (sy)	Length (ft)	Area (sy)	Length (ft)	Area (sy)
West and North Perimeter Dikes to 10.5'	5,950	33.2	21,949	33.2	21,949	25.6	16,924
East Perimeter Dike to 10.5'	1,343	33.2	4,954	33.2	4,954	25.6	3,820
East and South Perimeter Dikes to 25'	9,875	140	153,611	125	137,153	25.6	28,089
Longitudinal Interior Dike to 25'	4,659	173	89,556	158	81,791	25.9	13,408
Open Water Interior Dike to 25'	1,585	145	25,536	145	25,536	25.6	4,508
Open Water Interior Dike to 9'	5,653	28.5	17,901	28.5	17,901	25.6	16,080
Wetland Interior Cross Dikes	3,994	0	0	0	0	0	0
Upland Interior Cross Dike	2,513	0	0	0	0	0	0
Tidal Gut Cross Dike	150	35.0	583	35.0	583	25.8	430
		TOTAL	288,554	TOTAL	264,331	TOTAL	78,751

Table L-6. Armor Stone Quantities for the 50/50 and 60/40 Wetland/Upland Options

Reach	Length (ft)	2,500 LB ARMOR STONE			1,500 LB ARMOR STONE		
		Area (sf)	Volume (cy)	Tonnage	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	9,361	163	56,513	84,770	131	45,418	68,127
East Perimeter Dike to 10.5'	1,336	0	0	0	123	6,086	9,129
East and South Perimeter Dikes to 25'	10,186	0	0	0	101	38,103	57,155
Longitudinal Interior Dike to 25'	6,551	0	0	0	0	0	0
Longitudinal Interior Dike to 6.5'	8,822	0	0	0	0	0	0
		TOTALS	56,513	84,770	TOTALS	89,607	134,411

Reach	Length (ft)	350 LB ARMOR STONE			250 LB UNDER LAYER STONE		
		Area (sf)	Volume (cy)	Tonnage	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	9,361	0	0	0	92.3	32,001	48,002
East Perimeter Dike to 10.5'	1,336	86.6	4,285	6,428	0	0	0
East and South Perimeter Dikes to 25'	10,186	86.6	32,671	49,007	0	0	0
Longitudinal Interior Dike to 25'	6,551	0	0	0	0	0	0
Longitudinal Interior Dike to 6.5'	8,822	0	0	0	0	0	0
		TOTALS	36,956	55,435	TOTALS	32,001	48,002

Reach	Length (ft)	BEDDING STONE			QUARRY RUN STONE		
		Area (sf)	Volume (cy)	Tonnage	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	9,361	48.9	16,954	25,431	191	66,220	99,330
East Perimeter Dike to 10.5'	1,336	0	0	0	161	7,967	11,951
East and South Perimeter Dikes to 25'	10,186	0	0	0	83.7	31,577	47,366
Longitudinal Interior Dike to 25'	6,551	0	0	0	0	0	0
Longitudinal Interior Dike to 6.5'	8,822	0	0	0	0	0	0
		TOTALS	16,954	25,431	TOTALS	105,764	158,647

Reach	Length (FT)	GEOTEXTILE UNDER STONE (TOE DIKE)		GEOTEXTILE UNDER STONE (MAIN DIKE)	
		Length (ft)	Area (sy)	Length (ft)	Area (sy)
West and North Perimeter Dikes to 10.5'	9,361	58.5	60,847	67.2	69,895
East Perimeter Dike to 10.5'	1,336	55.7	8,268	58.2	8,639
East and South Perimeter Dikes to 25'	10,186	47.3	53,533	54.0	61,116
Longitudinal Interior Dike to 25'	6,551	0	0	0	0
Longitudinal Interior Dike to 6.5'	8,822	0	0	0	0
		TOTAL	122,648	TOTAL	139,650

Table L-7. Armor Stone Quantities for the Open Water Embayment Option

Reach	Length (ft)	2,500 LB ARMOR STONE			1,500 LB ARMOR STONE		
		Area (sf)	Volume (cy)	Tonnage	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	5,950	163	35,920	53,880	131	28,869	43,304
Segmented Breakwater and Reefs to 6'	3,200	268	31,763	47,645	0	0	0
East Perimeter Dike to 10.5'	1,343	0	0	0	123	6,118	9,177
East and South Perimeter Dikes to 25'	9,875	0	0	0	101	36,940	55,410
Longitudinal Interior Dike to 25'	4,659	0	0	0	0	0	0
Open Water Interior Dike to 25'	1,585	0	0	0	0	0	0
Open Water Interior Dike to 9'	5,653	0	0	0	0	0	0
TOTALS			67,683	101,525	TOTALS	71,927	107,891

Reach	Length (ft)	350 LB ARMOR STONE			250 LB UNDER LAYER STONE		
		Area (sf)	Volume (cy)	Tonnage	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	5,950	0	0	0	92.3	20,340	30,510
Segmented Breakwater and Reefs to 6'	3,200	0	0	0	245	29,037	43,556
East Perimeter Dike to 10.5'	1,336	86.6	4,285	6,428	0	0	0
East and South Perimeter Dikes to 25'	10,186	86.6	32,671	49,007	0	0	0
Longitudinal Interior Dike to 25'	4,659	0	0	0	0	0	0
Open Water Interior Dike to 25'	1,585	167	9,804	14,706	0	0	0
Open Water Interior Dike to 9'	5,653	167	34,965	52,448	0	0	0
TOTALS			81,725	122,589	TOTALS	49,377	74,066

Reach	Length (ft)	BEDDING STONE			QUARRY RUN STONE		
		Area (sf)	Volume (cy)	Tonnage	Area (sf)	Volume (cy)	Tonnage
West and North Perimeter Dikes to 10.5'	9,361	48.9	16,954	25,431	191	66,220	99,330
Segmented Breakwater and Reefs to 6'	3,200	0	0	0	0	0	0
East Perimeter Dike to 10.5'	1,336	0	0	0	161	7,967	11,951
East and South Perimeter Dikes to 25'	10,186	0	0	0	83.7	31,577	47,366
Longitudinal Interior Dike to 25'	4,659	0	0	0	0	0	0
Open Water Interior Dike to 25'	1,585	0	0	0	0	0	0
Open Water Interior Dike to 9'	5,653	0	0	0	0	0	0
TOTALS			16,954	25,431	TOTALS	105,764	158,647

Reach	Length (FT)	GEOTEXTILE UNDER STONE (TOE DIKE)		GEOTEXTILE UNDER STONE (MAIN DIKE)	
		Length (ft)	Area (sy)	Length (ft)	Area (sy)
West and North Perimeter Dikes to 10.5'	9,361	58.5	60,847	67.2	69,895
Segmented Breakwater and Reefs to 6'	3,200	73.8	26,240	0	268
East Perimeter Dike to 10.5'	1,336	55.7	8,268	58.2	8,639
East and South Perimeter Dikes to 25'	10,186	47.3	53,533	54.0	61,116
Longitudinal Interior Dike to 25'	4,659	0	0	0	0
Open Water Interior Dike to 25'	1,585	18.3	3,223	58.3	10,267
Open Water Interior Dike to 9'	5,653	18.3	11,494	58.3	36,619
TOTAL			152,111	TOTAL	150,185

Table L-8. Quantities for 5-ft. Dike Raising of Existing Upland Cells

Reach	Length (ft)	SAND		6" DREDGED MATERIAL		CRUSHED STONE ROADWAY		
		Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Area (sf)	Volume (cy)	Tonnage
5' Raising - Cell 2	23,354	313	270,733	27.0	23,354	0	0	0
5' Raising - Cell 6	13,902	313	161,160	27.0	13,902	0	0	0
TOTAL SAND FILL			431,893	TOTAL	37,256	TOTALS	0	0
Sand Losses (estimated at 30% of total sand borrow)			129,568					
TOTAL SAND BORROW			561,461					

Reach	Length (ft)	SEEDING		EROSION CONTROL MATERIAL		GEOTEXTILE UNDER ROADWAY	
		Length (ft)	Area (sy)	Length (ft)	Area (sy)	Length (ft)	Area (sy)
5' Raising - Cell 2	23,354	63.9	165,813	53.9	139,865	0	0
5' Raising - Cell 6	13,902	63.9	98,704	53.9	83,258	0	0
		TOTAL	264,517	TOTAL	223,123	TOTAL	0

Table L-9. Reuse of Existing Armor Stone (same for both 50/50 and 60/40 Options)

Size Armor Stone	Length (ft)	Area (sf)	Volume (cy)	Tonnage
4,000 lb	2,063	108	8,252	12,378
2,000 lb	2,063	92.3	7,049	10,573
3,000 lb	765	67.5	1,913	2,869
1,500 lb	765	69.8	1,976	2,964

Table L-10. Channel Dredging Quantities (same for 50/50, 60/40, and Open Water Embayment Options)

Borrow Area	Avg Depth (ft)	Clay Depth	Sand Depth	Area (sf)	Slope Area (sf)	Vol Clay (cy)	Vol Sand (cy)	Total Vol (cy)
Clays and Silts	(19.3)	5.7	0	408,987	91,832	96,035	0	96,035
Sand (avg. 17.5' deposit)	(12.6)	0	12.4	204,425	38,285	0	102,675	102,675
Sand (avg. 12.5' deposit)	(10.5)	2.0	12.5	284,614	81,907	24,116	150,726	174,842
Sand (avg. 7.5' deposit)	(10.3)	7.2	7.5	791,681	73,921	220,971	230,178	451,149
TOTAL DREDGING REQUIRED						341,122	483,579	824,701
Borrow Losses (estimated at 30% of total sand borrow)							145,074	
TOTAL SAND FILL AVAILABLE							338,505	

Table L-11. Estimated Capacity of Lateral Expansion Options and 5-Ft Vertical Raising

50% Wetlands, 50% Uplands Expansion Option					
Cell	Area (ac)	Avg. Bottom El. (ft)	Nominal Volume (cy)	Dike Volume (cy)	Air Volume (cy)
Wetland South	145	(9.7)	2,626,461	362,799	2,263,662
Wetland North	124	(9.5)	2,196,864	293,041	1,903,823
Upland	280	(7.2)	12,289,918	2,276,212	10,013,706
Totals	549		17,113,243	2,932,052	14,181,191
Plus Borrow Areas (not incl. channel)					3,101,259
Minus Unsuitable Foundation (spoils)					(50,000)
Plus Channel Excavation (minus spoils)					341,307
Minus Channel Excavation Clays and Silts Spoils					(341,122)
Total Air Volume					17,232,635
Total Capacity					24,618,050

60% Wetlands, 40% Uplands Expansion Option					
Cell	Area (ac)	Avg. Bottom El. (ft)	Nominal Volume (cy)	Dike Volume (cy)	Air Volume (cy)
Wetland South	145	(9.7)	2,626,461	362,799	2,263,662
Wetland North	124	(9.5)	2,196,864	293,041	1,903,823
Wetland Swing	40	(7.2)	561,182	96,360	464,822
Upland	240	(7.2)	10,535,418	1,878,176	8,657,242
Totals	549		15,919,925	2,630,376	13,289,549
Plus Borrow Areas (not incl. channel or dike raising)					2,851,440
Minus Unsuitable Foundation (spoils)					(50,000)
Plus Channel Excavation (minus spoils)					341,307
Minus Channel Excavation Clays and Silts Spoils					(341,122)
Total Air Volume					16,091,174
Total Capacity					22,987,391

Open Water Embayment Expansion Option					
Cell	Area (ac)	Avg. Bottom El. (ft)	Nominal Volume (cy)	Dike Volume (cy)	Air Volume (cy)
Wetland South	25	(9.7)	457,129	102,065	355,064
Wetland North	139	(9.5)	2,470,449	375,516	2,094,933
Open Water	130	-	-	-	0
Tidal Gut	5	-	-	-	0
Upland	270	(7.2)	11,866,058	2,237,502	9,628,556
Totals	570		14,793,636	2,715,083	12,078,553
Plus Borrow Areas (not incl. channel or dike raising)					2,405,756
Minus Unsuitable Foundation (spoils)					(50,000)
Plus Channel Excavation (minus spoils)					341,307
Minus Channel Excavation Clays and Silts Spoils					(341,122)
Total Air Volume					14,434,494
Total Capacity					20,620,706

5-ft. Raising of Existing Upland Cells					
Cell	Area (AC)	Avg. Bottom El. (FT)	Nominal Volume (CY)	Dike Volume (CY)	Air Volume (CY)
5' Raising - Cell 2	326	20	2,627,313	402,208	2,225,105
5' Raising - Cell 6	244	20	1,964,233	239,423	1,724,810
Totals	569		4,591,546	641,631	3,949,915
Total Air Volume					3,949,915
Total Capacity					5,642,736

ATTACHMENT A

MCASES Cost Estimate Summary

Print Date Thu 4 August 2005
Eff. Date 5/25/2005

U.S. Army Corps of Engineers
Project Baseline: Poplar Island Expansion 60-40 and Raising Cells 2 & 6 NMFS Option
Baseline Cost Estimate

Time 14:38:31

Title Page

Poplar Island Expansion 60-40 and Raising Cells 2 & 6 NMFS Option

Estimated by CENAB-EN-DT
Designed by U. S. Army Corps of Engineers
Prepared by Baltimore District

Preparation Date 5/25/2005
Effective Date of Pricing 5/25/2005
Estimated Construction Time Days

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Labor ID: LB01Nat · EQ ID: EP01R02

Currency in US dollars

TRACES MII Version 2

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Project Cost			584,211,181.45	40,061,373.14	97,895,757.32	722,168,311.91
Poplar Island Phase 1	1.0000	EA	58,918,641.00	0.00	0.00	58,918,641.00
01 Lands and Damages	1.0000	EA	38,866.00	0.00	0.00	38,866.00
30 Planning Engineering and Design	1.0000	EA	965,150.00	0.00	0.00	965,150.00
31 Construction Management	1.0000	EA	3,066,966.00	0.00	0.00	3,066,966.00
12 Navigation, Ports & Harbors	1.0000	EA	54,847,659.00	0.00	0.00	54,847,659.00
1202 Harbors	1.0000	EA	54,847,659.00	0.00	0.00	54,847,659.00
120220 Disposal Areas	1.0000	EA	54,847,659.00	0.00	0.00	54,847,659.00
12022002 Site Work	1.0000	EA	54,847,659.00	0.00	0.00	54,847,659.00
Poplar Island Phase 2	1.0000	EA	44,602,905.00	0.00	0.00	44,602,905.00
30 Planning Engineering and Design	1.0000	EA	1,225,000.00	0.00	0.00	1,225,000.00
31 Construction Management	1.0000	EA	2,005,190.00	0.00	0.00	2,005,190.00
12 Navigation, Ports & Harbors	1.0000	EA	41,372,715.00	0.00	0.00	41,372,715.00
1202 Harbors	1.0000	EA	41,372,715.00	0.00	0.00	41,372,715.00
120220 Disposal Areas	1.0000	EA	41,372,715.00	0.00	0.00	41,372,715.00
12022002 Site Work	1.0000	EA	41,372,715.00	0.00	0.00	41,372,715.00
FY 98 to FY 00	1.0000	EA	4,315,841.00	0.00	0.00	4,315,841.00
12 Navigation, Ports & Harbors	1.0000	EA	2,537,989.00	0.00	0.00	2,537,989.00
1202 Harbors	1.0000	EA	2,537,989.00	0.00	0.00	2,537,989.00
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	538,000.00	0.00	0.00	538,000.00
120220 Disposal Areas	1.0000	EA	1,999,989.00	0.00	0.00	1,999,989.00
12022002 Site Work	1.0000	EA	1,999,989.00	0.00	0.00	1,999,989.00
Disposal Site Management	1.0000	EA	1,999,989.00	0.00	0.00	1,999,989.00
30 Planning, Engineering and Design	1.0000	EA	1,777,852.00	0.00	0.00	1,777,852.00
FY 01	1.0000	EA	17,367,542.00	0.00	0.00	17,367,542.00
12 Navigation, Ports & Harbors	1.0000	EA	17,367,542.00	0.00	0.00	17,367,542.00
1202 Harbors	1.0000	EA	17,367,542.00	0.00	0.00	17,367,542.00
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	908,000.00	0.00	0.00	908,000.00
120215 Mechanical Dredging	1.0000	EA	9,577,029.00	0.00	0.00	9,577,029.00
12021502 Site Work	1.0000	EA	9,577,029.00	0.00	0.00	9,577,029.00

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Mechanical Dredging	1.0000	EA	9,577,029.00	0.00	0.00	9,577,029.00
120220 Disposal Areas	1.0000	EA	6,882,513.00	0.00	0.00	6,882,513.00
12022002 Site Work	1.0000	EA	6,882,513.00	0.00	0.00	6,882,513.00
Disposal Site Management	1.0000	EA	6,882,513.00	0.00	0.00	6,882,513.00
FY 02	1.0000	EA	28,171,145.00	0.00	0.00	28,171,145.00
12 Navigation, Ports & Harbors	1.0000	EA	28,171,145.00	0.00	0.00	28,171,145.00
1202 Harbors	1.0000	EA	28,171,145.00	0.00	0.00	28,171,145.00
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	623,164.00	0.00	0.00	623,164.00
120215 Mechanical Dredging	1.0000	EA	11,812,138.00	0.00	0.00	11,812,138.00
12021502 Site Work	1.0000	EA	11,812,138.00	0.00	0.00	11,812,138.00
Mechanical Dredging	1.0000	EA	11,812,138.00	0.00	0.00	11,812,138.00
120220 Disposal Areas	1.0000	EA	15,735,843.00	0.00	0.00	15,735,843.00
12022002 Site Work	1.0000	EA	15,735,843.00	0.00	0.00	15,735,843.00
Disposal Site Management	1.0000	EA	15,735,843.00	0.00	0.00	15,735,843.00
WIK Work-In-Kind	1.0000	EA	9,731,998.00	0.00	0.00	9,731,998.00
FY 03	1.0000	EA	13,351,220.00	0.00	0.00	13,351,220.00
12 Navigation, Ports & Harbor	1.0000	EA	13,351,220.00	0.00	0.00	13,351,220.00
1202 Harbors	1.0000	EA	13,351,220.00	0.00	0.00	13,351,220.00
120201 Mobiliozation, Demobilization and Preparatory Work	1.0000	EA	450,000.00	0.00	0.00	450,000.00
120215 Mechanical Dredging	1.0000	EA	4,003,642.00	0.00	0.00	4,003,642.00
12021502 Site Work	1.0000	EA	4,003,642.00	0.00	0.00	4,003,642.00
Mechanical Dredging	1.0000	EA	4,003,642.00	0.00	0.00	4,003,642.00
120220 Disposal Areas	1.0000	EA	8,897,578.00	0.00	0.00	8,897,578.00
12022002 Site Work	1.0000	EA	8,897,578.00	0.00	0.00	8,897,578.00
Disposal Site Management	1.0000	EA	8,897,578.00	0.00	0.00	8,897,578.00
WIK Work-In-Kind	1.0000	EA	4,218,944.00	0.00	0.00	4,218,944.00
FY 04	1.0000	EA	16,870,156.00	0.00	0.00	16,870,156.00
12 Navigation, Ports & Harbor	1.0000	EA	16,870,156.00	0.00	0.00	16,870,156.00
1202 Harbors	1.0000	EA	16,870,156.00	0.00	0.00	16,870,156.00
120215 Mechanical Dredging	1.0000	EA	1,463,232.00	0.00	0.00	1,463,232.00

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
12021502 Site Work	1.0000	EA	1,463,232.00	0.00	0.00	1,463,232.00
12 Maintenance Dredging	1.0000	EA	1,463,232.00	0.00	0.00	1,463,232.00
120220 Disposal Areas	1.0000	EA	15,006,924.00	0.00	0.00	15,006,924.00
12022002 Site Work	1.0000	EA	15,006,924.00	0.00	0.00	15,006,924.00
Disposal Site Management	1.0000	EA	15,006,924.00	0.00	0.00	15,006,924.00
WIK Work-In-Kind	1.0000	EA	4,214,828.00	0.00	0.00	4,214,828.00
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	400,000.00	0.00	0.00	400,000.00
FY 05	1.0000	EA	11,905,537.26	1,190,553.73	233,237.89	13,329,328.88
12 Navigation, Ports & Harbors	1.0000	EA	10,176,337.26	1,017,633.73	134,327.65	11,328,298.64
1202 Harbors	1.0000	EA	10,176,337.26	1,017,633.73	134,327.65	11,328,298.64
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	349,370.00	34,937.00	4,611.68	388,918.68
120215 Mechanical Dredging	1.0000	EA	5,164,105.10	516,410.51	68,166.19	5,748,681.80
12021502 Site Work	1.0000	EA	5,164,105.10	516,410.51	68,166.19	5,748,681.80
Maintenance Dredging	1.0000	EA	5,164,105.10	516,410.51	68,166.19	5,748,681.80
120220 Disposal Areas	1.0000	EA	4,662,862.16	466,286.22	61,549.78	5,190,698.16
12022002 Site Work	1.0000	EA	4,662,862.16	466,286.22	61,549.78	5,190,698.16
Disposal Site Management	1.0000	EA	4,662,862.16	466,286.22	61,549.78	5,190,698.16
Work-In-Kind	1.0000	EA	2,469,862.16	246,986.22	32,602.18	2,749,450.56
WIK Site Operations	1.0000	EA	1,096,488.12	109,648.81	14,473.64	1,220,610.58
WIK Crust Management	1.0000	EA	750,574.04	75,057.40	9,907.58	835,539.02
WIK Monitoring	1.0000	EA	622,800.00	62,280.00	8,220.96	693,300.96
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	4,791.60	404,091.60
Access Channel Closure	1.0000	EA	250,000.00	25,000.00	3,300.00	278,300.00
Habitat Development	1.0000	EA	780,000.00	78,000.00	10,296.00	868,296.00
Expansion GRR	1.0000	EA	800,000.00	80,000.00	10,560.00	890,560.00
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	71,543.47	1,447,379.47
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	14,972.67	302,908.67
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	2,402.40	48,602.40
Site Management and Design	1.0000	EA	940,000.00	94,000.00	53,768.00	1,087,768.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	27,366.77	553,650.77

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
FY 06	1.0000	EA	14,554,751.39	1,455,475.14	244,190.67	16,254,417.20
12 Navigation, Ports & Harbors	1.0000	EA	12,829,501.39	1,282,950.14	183,461.87	14,295,913.40
1202 Harbors	1.0000	EA	12,829,501.39	1,282,950.14	183,461.87	14,295,913.40
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	14,300.00	1,114,300.00
120215 Mechanical Dredging	1.0000	EA	5,440,000.00	544,000.00	77,792.00	6,061,792.00
12021502 Site Work	1.0000	EA	5,440,000.00	544,000.00	77,792.00	6,061,792.00
Maintenance Dredging	1.0000	EA	5,440,000.00	544,000.00	77,792.00	6,061,792.00
120220 Disposal Areas	1.0000	EA	6,389,501.39	638,950.14	91,369.87	7,119,821.40
12022002 Site Work	1.0000	EA	6,389,501.39	638,950.14	91,369.87	7,119,821.40
Disposal Site Management	1.0000	EA	6,389,501.39	638,950.14	91,369.87	7,119,821.40
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	5,190.90	404,490.90
Access Channel Closure	1.0000	EA	3,000,000.00	300,000.00	42,900.00	3,342,900.00
Habitat Development	1.0000	EA	458,868.58	45,886.86	6,561.82	511,317.26
Outlet Structure	1.0000	EA	346,515.00	34,651.50	4,955.16	386,121.66
Expansion GRR	1.0000	EA	50,000.00	5,000.00	715.00	55,715.00
Work-In-Kind	1.0000	EA	2,517,632.80	251,763.28	36,002.15	2,805,398.23
WIK Monitoring	1.0000	EA	622,800.00	62,280.00	8,906.04	693,986.04
WIK Site Operations	1.0000	EA	1,096,488.12	109,648.81	15,679.78	1,221,816.71
WIK Crust Management	1.0000	EA	798,344.68	79,834.47	11,416.33	889,595.48
30 Planning, Engineering & Design	1.0000	EA	1,246,810.00	124,681.00	43,887.71	1,415,378.71
Plans and Specifications	1.0000	EA	257,810.00	25,781.00	9,074.91	292,665.91
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	1,478.40	47,678.40
Site Management and Design	1.0000	EA	940,000.00	94,000.00	33,088.00	1,067,088.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	16,841.09	543,125.09
FY 07	1.0000	EA	19,150,213.78	1,915,021.38	648,792.30	21,714,027.46
12 Navigation, Ports & Harbors	1.0000	EA	17,421,013.78	1,742,101.38	536,567.22	19,699,682.38
1202 Harbors	1.0000	EA	17,421,013.78	1,742,101.38	536,567.22	19,699,682.38
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	30,800.00	1,130,800.00
120215 Mechanical Dredging	1.0000	EA	5,440,000.00	544,000.00	167,552.00	6,151,552.00
12021502 Site Work	1.0000	EA	5,440,000.00	544,000.00	167,552.00	6,151,552.00

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
120220 Disposal Areas	1.0000	EA	10,981,013.78	1,098,101.38	338,215.22	12,417,330.38
12022002 Site Work	1.0000	EA	10,981,013.78	1,098,101.38	338,215.22	12,417,330.38
Disposal Site Management	1.0000	EA	10,981,013.78	1,098,101.38	338,215.22	12,417,330.38
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	11,180.40	410,480.40
Access Channel Closure	1.0000	EA	6,000,000.00	600,000.00	184,800.00	6,784,800.00
Habitat Development	1.0000	EA	1,942,367.00	194,236.70	59,824.90	2,196,428.61
Outlet Structure	2.0000	EA	693,030.00	69,303.00	21,345.32	783,678.32
Work-In-Kind	1.0000	EA	2,675,646.77	267,564.68	82,409.92	3,025,621.37
WIK Monitoring	1.0000	EA	622,800.00	62,280.00	19,182.24	704,262.24
WIK Site Operations	1.0000	EA	1,096,488.12	109,648.81	33,771.83	1,239,908.77
WIK Crust Management	1.0000	EA	956,358.65	95,635.87	29,455.85	1,081,450.36
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	81,174.32	1,457,010.32
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	16,988.22	304,924.22
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	2,725.80	48,925.80
Site Management and Design	1.0000	EA	940,000.00	94,000.00	61,006.00	1,095,006.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	31,050.76	557,334.76
FY 08	1.0000	EA	12,742,837.05	1,274,283.71	718,970.23	14,736,090.99
12 Navigation, Ports & Harbors	1.0000	EA	11,013,637.05	1,101,363.71	557,290.03	12,672,290.79
1202 Harbors	1.0000	EA	11,013,637.05	1,101,363.71	557,290.03	12,672,290.79
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	50,600.00	1,150,600.00
120215 Mechanical Dredging	1.0000	EA	5,440,000.00	544,000.00	275,264.00	6,259,264.00
12021502 Site Work	1.0000	EA	5,440,000.00	544,000.00	275,264.00	6,259,264.00
Maintenance Dredging	1.0000	EA	5,440,000.00	544,000.00	275,264.00	6,259,264.00
120220 Disposal Areas	1.0000	EA	4,573,637.05	457,363.71	231,426.03	5,262,426.79
12022002 Site Work	1.0000	EA	4,573,637.05	457,363.71	231,426.03	5,262,426.79
Disposal Site Management	1.0000	EA	4,573,637.05	457,363.71	231,426.03	5,262,426.79
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	18,367.80	417,667.80
Habitat Development	1.0000	EA	2,040,000.00	204,000.00	103,224.00	2,347,224.00
Work-In-Kind	1.0000	EA	2,170,637.05	217,063.71	109,834.23	2,497,534.99
WIK Monitoring	1.0000	EA	622,800.00	62,280.00	31,513.68	716,593.68

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
WIK Site Operations	1.0000	EA	1,096,488.12	109,648.81	55,482.30	1,261,619.23
WIK Crust Management	1.0000	EA	451,348.93	45,134.89	22,838.26	519,322.08
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	116,946.06	1,492,782.06
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	24,474.56	312,410.56
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	3,927.00	50,127.00
Site Management and Design	1.0000	EA	940,000.00	94,000.00	87,890.00	1,121,890.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	44,734.14	571,018.14
FY 09	1.0000	EA	54,713,790.12	5,471,379.01	4,116,099.61	64,301,268.74
12 Navigation, Ports & Harbors	1.0000	EA	52,984,590.12	5,298,459.01	3,904,964.29	62,188,013.42
1202 Harbors	1.0000	EA	52,984,590.12	5,298,459.01	3,904,964.29	62,188,013.42
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	73,700.00	1,173,700.00
120215 Mechanical Dredging	1.0000	EA	5,440,000.00	544,000.00	400,928.00	6,384,928.00
12021502 Site Work	1.0000	EA	5,440,000.00	544,000.00	400,928.00	6,384,928.00
Maintenance Dredging	1.0000	EA	5,440,000.00	544,000.00	400,928.00	6,384,928.00
120220 Disposal Areas	1.0000	EA	46,544,590.12	4,654,459.01	3,430,336.29	54,629,385.42
12022002 Site Work	1.0000	EA	46,544,590.12	4,654,459.01	3,430,336.29	54,629,385.42
1202200201 Dike Construction	1.0000	EA	43,139,644.90	4,313,964.49	3,179,391.83	50,633,001.22
2500 Lb Armor Stone	40,610.0000	TON	2,439,598.45	243,959.84	179,798.41	2,863,356.70
1500 Lb Armor Stone	107,891.0000	TON	5,587,472.50	558,747.25	411,796.72	6,558,016.48
250 Lb Under Layer Stone	29,626.0000	TON	1,291,561.37	129,156.14	95,188.07	1,515,905.58
Quarry Run Stone	158,646.0000	TON	5,048,395.05	504,839.51	372,066.72	5,925,301.27
Sand	1.0000	CY	19,743,172.77	1,974,317.28	1,455,071.83	23,172,561.88
Sand Placement	1,155,734.0000	CY	10,036,024.69	1,003,602.47	739,655.02	11,779,282.18
Dredging	4,317,597.0000	CY	9,707,148.08	970,714.81	715,416.81	11,393,279.70
Erosion Control Material	105,732.0000	SY	122,972.47	12,297.25	9,063.07	144,332.79
Geotextile Under Stone (Toe Dike)	152,111.0000	SY	417,518.52	41,751.85	30,771.11	490,041.48
Seeding	115,422.0000	SY	43,573.57	4,357.36	3,211.37	51,142.30
350 Lb Armor Stone	49,036.0000	TON	2,137,750.73	213,775.07	157,552.23	2,509,078.04
6" Dredged Material Topsoil	19,479.0000	CY	169,149.41	16,914.94	12,466.31	198,530.66
Crushed Stone Roadway	6,006.0000	CY	233,637.39	23,363.74	17,219.08	274,220.21

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Geotextile Under Roadway	31,500.0000	SY	75,577.16	7,557.72	5,570.04	88,704.91
Geotextile Under Stone (Main Dike)	60,074.0000	SY	144,134.04	14,413.40	10,622.68	169,170.12
Bedding Stone	10,172.0000	TON	569,308.49	56,930.85	41,958.04	668,197.37
Transportation	365.0000	DAY	1,463,453.71	146,345.37	107,856.54	1,717,655.62
Access Channel	824,701.0000	CY	1,475,860.88	147,586.09	108,770.95	1,732,217.91
Mobilization and Demobilization	1.0000	EA	85,801.45	8,580.15	6,323.57	100,705.17
Equipment	1.0000	EA	28,259.29	2,825.93	2,082.71	33,167.93
Labor	1.0000	EA	57,542.16	5,754.22	4,240.86	67,537.23
Spillways	1.0000	EA	2,090,706.93	209,070.69	154,085.10	2,453,862.72
Large Spillways	1.0000	EA	1,227,136.44	122,713.64	90,439.96	1,440,290.03
Permanent	1.0000	EA	863,570.49	86,357.05	63,645.15	1,013,572.69
1202200202 Disposal Site Management	1.0000	EA	3,404,945.22	340,494.52	250,944.46	3,996,384.20
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	26,753.10	426,053.10
Habitat Development	1.0000	EA	478,077.42	47,807.74	35,234.31	561,119.47
Outlet Structure	1.0000	EA	346,515.00	34,651.50	25,538.16	406,704.66
Work-In-Kind	1.0000	EA	2,563,867.80	256,386.78	188,957.06	3,009,211.63
WIK Monitoring	1.0000	EA	622,800.00	62,280.00	45,900.36	730,980.36
WIK Site Operations	1.0000	EA	1,096,488.12	109,648.81	80,811.17	1,286,948.11
WIK Crust Management	1.0000	EA	844,579.67	84,457.97	62,245.52	991,283.16
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	152,717.80	1,528,553.80
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	31,960.90	319,896.90
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	5,128.20	51,328.20
Site Management and Design	1.0000	EA	940,000.00	94,000.00	114,774.00	1,148,774.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	58,417.52	584,701.52
FY 10	1.0000	EA	46,743,977.76	4,674,397.78	4,619,923.05	56,038,298.58
12 Navigation, Ports & Harbors	1.0000	EA	45,014,777.76	4,501,477.78	4,357,430.49	53,873,686.02
1202 Harbors	1.0000	EA	45,014,777.76	4,501,477.78	4,357,430.49	53,873,686.02
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	96,800.00	1,196,800.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	842,547.20	10,416,947.20
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	842,547.20	10,416,947.20

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	842,547.20	10,416,947.20
120220 Disposal Areas	1.0000	EA	35,310,777.76	3,531,077.78	3,418,083.29	42,259,938.82
12022002 Site Work	1.0000	EA	35,310,777.76	3,531,077.78	3,418,083.29	42,259,938.82
1202200202 Disposal Site Management	1.0000	EA	3,433,230.26	343,323.03	332,336.69	4,108,889.97
Work-In-Kind	1.0000	EA	1,720,230.26	172,023.03	166,518.29	2,058,771.57
WIK Site Operations	1.0000	EA	1,096,488.12	109,648.81	106,140.05	1,312,276.98
WIK Crust Management	1.0000	EA	334,622.14	33,462.21	32,391.42	400,475.77
WIK Monitoring	1.0000	EA	289,120.00	28,912.00	27,986.82	346,018.82
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	35,138.40	434,438.40
Habitat Development	1.0000	EA	1,350,000.00	135,000.00	130,680.00	1,615,680.00
1202200201 Dike Construction	1.0000	EA	31,877,547.50	3,187,754.75	3,085,746.60	38,151,048.85
2500 Lb Armor Stone	60,915.0000	TON	3,659,397.67	365,939.77	354,229.69	4,379,567.13
250 Lb Under Layer Stone	44,440.0000	TON	1,937,385.65	193,738.56	187,538.93	2,318,663.14
Sand	1.0000	CY	18,804,457.82	1,880,445.78	1,820,271.52	22,505,175.12
Sand Placement	2,165,494.0000	CY	18,804,457.82	1,880,445.78	1,820,271.52	22,505,175.12
Erosion Control Material	381,722.0000	SY	443,964.90	44,396.49	42,975.80	531,337.20
Seeding	437,649.0000	SY	165,219.20	16,521.92	15,993.22	197,734.34
350 Lb Armor Stone	73,553.0000	TON	3,206,582.51	320,658.25	310,397.19	3,837,637.94
6" Dredged Material Topsoil	66,474.0000	CY	577,238.97	57,723.90	55,876.73	690,839.60
Crushed Stone Roadway	9,009.0000	CY	350,457.71	35,045.77	33,924.31	419,427.79
Geotextile Under Roadway	47,251.0000	SY	113,368.14	11,336.81	10,974.04	135,678.99
Geotextile Under Stone (Main Dike)	90,111.0000	SY	216,201.06	21,620.11	20,928.26	258,749.43
Bedding Stone	15,259.0000	TON	854,018.70	85,401.87	82,669.01	1,022,089.58
Transportation	365.0000	DAY	1,463,453.71	146,345.37	141,662.32	1,751,461.40
Mobilization and Demobilization	1.0000	EA	85,801.45	8,580.15	8,305.58	102,687.18
Equipment	1.0000	EA	28,259.29	2,825.93	2,735.50	33,820.72
Labor	1.0000	EA	57,542.16	5,754.22	5,570.08	68,866.46
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	189,865.37	1,565,701.37
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	39,735.17	327,671.17
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	6,375.60	52,575.60

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Site Management and Design	1.0000	EA	940,000.00	94,000.00	142,692.00	1,176,692.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	72,627.19	598,911.19
FY 11	1.0000	EA	13,833,909.41	1,383,390.94	1,780,421.76	16,997,722.11
12 Navigation, Ports & Harbors	1.0000	EA	12,104,709.41	1,210,470.94	1,464,669.84	14,779,850.19
1202 Harbors	1.0000	EA	12,104,709.41	1,210,470.94	1,464,669.84	14,779,850.19
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	121,000.00	1,221,000.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	1,053,184.00	10,627,584.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	1,053,184.00	10,627,584.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	1,053,184.00	10,627,584.00
120220 Disposal Areas	1.0000	EA	2,400,709.41	240,070.94	290,485.84	2,931,266.19
12022002 Site Work	1.0000	EA	2,400,709.41	240,070.94	290,485.84	2,931,266.19
Disposal Site Management	1.0000	EA	2,400,709.41	240,070.94	290,485.84	2,931,266.19
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	43,923.00	443,223.00
Habitat Development	1.0000	EA	888,742.70	88,874.27	107,537.87	1,085,154.83
Outlet Structure	2.0000	EA	693,030.00	69,303.00	83,856.63	846,189.63
Work-In-Kind	1.0000	EA	1,148,966.71	114,896.67	139,024.97	1,402,888.36
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	17,491.76	176,507.76
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	81,043.93	817,806.97
WIK Crust Management	1.0000	EA	334,622.14	33,462.21	40,489.28	408,573.63
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	228,388.78	1,604,224.78
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	47,797.38	335,733.38
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	7,669.20	53,869.20
Site Management and Design	1.0000	EA	940,000.00	94,000.00	171,644.00	1,205,644.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	87,363.14	613,647.14
FY 12	1.0000	EA	15,721,224.28	1,572,122.43	2,400,653.21	19,693,999.91
12 Navigation, Ports & Harbors	1.0000	EA	13,992,024.28	1,399,202.43	2,031,641.93	17,422,868.63
1202 Harbors	1.0000	EA	13,992,024.28	1,399,202.43	2,031,641.93	17,422,868.63
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	145,200.00	1,245,200.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	1,263,820.80	10,838,220.80
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	1,263,820.80	10,838,220.80

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	1,263,820.80	10,838,220.80
120220 Disposal Areas	1.0000	EA	4,288,024.28	428,802.43	622,621.13	5,339,447.83
12022002 Site Work	1.0000	EA	4,288,024.28	428,802.43	622,621.13	5,339,447.83
Disposal Site Management	1.0000	EA	4,288,024.28	428,802.43	622,621.13	5,339,447.83
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	52,707.60	452,007.60
Habitat Development	1.0000	EA	2,458,720.52	245,872.05	357,006.22	3,061,598.79
Outlet Structure	1.0000	EA	346,515.00	34,651.50	50,313.98	431,480.48
Work-In-Kind	1.0000	EA	1,466,303.76	146,630.38	212,907.31	1,825,841.44
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	20,990.11	180,006.11
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	97,252.72	834,015.75
WIK Crust Management	1.0000	EA	651,959.19	65,195.92	94,664.47	811,819.58
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	266,912.18	1,642,748.18
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	55,859.58	343,795.58
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	8,962.80	55,162.80
Site Management and Design	1.0000	EA	940,000.00	94,000.00	200,596.00	1,234,596.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	102,099.10	628,383.10
FY 13	1.0000	EA	15,279,669.47	1,527,966.95	2,734,527.81	19,542,164.23
12 Navigation, Ports & Harbors	1.0000	EA	13,550,469.47	1,355,046.95	2,310,355.05	17,215,871.47
1202 Harbors	1.0000	EA	13,550,469.47	1,355,046.95	2,310,355.05	17,215,871.47
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	170,500.00	1,270,500.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	1,484,032.00	11,058,432.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	1,484,032.00	11,058,432.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	1,484,032.00	11,058,432.00
120220 Disposal Areas	1.0000	EA	3,846,469.47	384,646.95	655,823.05	4,886,939.47
12022002 Site Work	1.0000	EA	3,846,469.47	384,646.95	655,823.05	4,886,939.47
Disposal Site Management	1.0000	EA	3,846,469.47	384,646.95	655,823.05	4,886,939.47
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	61,891.50	461,191.50
Habitat Development	1.0000	EA	1,918,446.56	191,844.66	327,095.14	2,437,386.36
Outlet Structure	2.0000	EA	693,030.00	69,303.00	118,161.62	880,494.62
Work-In-Kind	1.0000	EA	1,565,022.91	156,502.29	266,836.41	1,988,361.61

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
WIK Monitoring	1.0000	EA	194,560.00	19,456.00	33,172.48	247,188.48
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	114,198.27	850,961.30
WIK Crust Management	1.0000	EA	700,678.33	70,067.83	119,465.66	890,211.82
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	306,811.43	1,682,647.43
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	64,209.73	352,145.73
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	10,302.60	56,502.60
Site Management and Design	1.0000	EA	940,000.00	94,000.00	230,582.00	1,264,582.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	117,361.33	643,645.33
FY 14	1.0000	EA	15,513,104.99	1,551,310.50	3,180,124.96	20,244,540.44
12 Navigation, Ports & Harbors	1.0000	EA	13,783,904.99	1,378,390.50	2,698,888.60	17,861,184.08
1202 Harbors	1.0000	EA	13,783,904.99	1,378,390.50	2,698,888.60	17,861,184.08
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	195,800.00	1,295,800.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	1,704,243.20	11,278,643.20
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	1,704,243.20	11,278,643.20
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	1,704,243.20	11,278,643.20
120220 Disposal Areas	1.0000	EA	4,079,904.99	407,990.50	798,845.40	5,286,740.88
12022002 Site Work	1.0000	EA	4,079,904.99	407,990.50	798,845.40	5,286,740.88
Disposal Site Management	1.0000	EA	4,079,904.99	407,990.50	798,845.40	5,286,740.88
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	71,075.40	470,375.40
Habitat Development	1.0000	EA	2,234,223.28	223,422.33	437,460.92	2,895,106.53
Outlet Structure	1.0000	EA	346,515.00	34,651.50	67,847.64	449,014.14
Work-In-Kind	1.0000	EA	1,482,681.70	148,268.17	290,309.08	1,921,258.95
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	28,304.85	187,320.85
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	131,143.82	867,906.85
WIK Crust Management	1.0000	EA	668,337.13	66,833.71	130,860.41	866,031.25
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	348,086.51	1,723,922.51
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	72,847.81	360,783.81
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	11,688.60	57,888.60
Site Management and Design	1.0000	EA	940,000.00	94,000.00	261,602.00	1,295,602.00
Construction Management	1.0000	EA	478,440.00	47,844.00	133,149.85	659,433.85

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
FY 15	1.0000	EA	15,391,137.55	1,539,113.75	3,560,856.47	20,491,107.77
12 Navigation, Ports & Harbors	1.0000	EA	13,661,937.55	1,366,193.75	3,020,654.39	18,048,785.69
1202 Harbors	1.0000	EA	13,661,937.55	1,366,193.75	3,020,654.39	18,048,785.69
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	221,100.00	1,321,100.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	1,924,454.40	11,498,854.40
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	1,924,454.40	11,498,854.40
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	1,924,454.40	11,498,854.40
120220 Disposal Areas	1.0000	EA	3,957,937.55	395,793.75	875,099.99	5,228,831.29
12022002 Site Work	1.0000	EA	3,957,937.55	395,793.75	875,099.99	5,228,831.29
Disposal Site Management	1.0000	EA	3,957,937.55	395,793.75	875,099.99	5,228,831.29
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	80,259.30	479,559.30
Habitat Development	1.0000	EA	2,079,805.77	207,980.58	459,845.05	2,747,631.40
Outlet Structure	3.0000	EA	1,039,545.00	103,954.50	229,843.40	1,373,342.90
Work-In-Kind	1.0000	EA	1,515,131.78	151,513.18	334,995.64	2,001,640.59
WIK Crust Management	1.0000	EA	700,787.20	70,078.72	154,944.05	925,809.98
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	31,962.22	190,978.22
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	148,089.37	884,852.40
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	390,737.42	1,766,573.42
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	81,773.82	369,709.82
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	13,120.80	59,320.80
Site Management and Design	1.0000	EA	940,000.00	94,000.00	293,656.00	1,327,656.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	149,464.66	675,748.66
FY 16	1.0000	EA	15,542,846.07	1,554,284.61	3,960,888.32	21,058,019.00
12 Navigation, Ports & Harbors	1.0000	EA	14,403,646.07	1,440,364.61	3,564,902.40	19,408,913.08
1202 Harbors	1.0000	EA	14,403,646.07	1,440,364.61	3,564,902.40	19,408,913.08
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	247,500.00	1,347,500.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	2,154,240.00	11,728,640.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	2,154,240.00	11,728,640.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	2,154,240.00	11,728,640.00
120220 Disposal Areas	1.0000	EA	4,699,646.07	469,964.61	1,163,162.40	6,332,773.08

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
12022002 Site Work	1.0000	EA	4,699,646.07	469,964.61	1,163,162.40	6,332,773.08
Disposal Site Management	1.0000	EA	4,699,646.07	469,964.61	1,163,162.40	6,332,773.08
Work-In-Kind	1.0000	EA	1,309,646.07	130,964.61	324,137.40	1,764,748.08
WIK Site Operations	1.0000	EA	336,907.77	33,690.78	83,384.67	453,983.23
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	35,778.60	194,794.60
WIK Crust Management	1.0000	EA	828,178.30	82,817.83	204,974.13	1,115,970.25
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	89,842.50	489,142.50
Habitat Development	1.0000	EA	3,027,000.00	302,700.00	749,182.50	4,078,882.50
30 Planning, Engineering & Design	1.0000	EA	780,760.00	78,076.00	271,392.18	1,130,228.18
Site Management and Design	1.0000	EA	470,000.00	47,000.00	163,372.00	680,372.00
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	14,599.20	60,799.20
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	90,987.78	378,923.78
31 Construction Management	1.0000	EA	358,440.00	35,844.00	124,593.74	518,877.74
FY 17	1.0000	EA	13,300,678.35	1,330,067.83	3,781,745.43	18,412,491.61
12 Navigation, Ports & Harbors	1.0000	EA	12,161,478.35	1,216,147.83	3,344,406.55	16,722,032.73
1202 Harbors	1.0000	EA	12,161,478.35	1,216,147.83	3,344,406.55	16,722,032.73
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	275,000.00	1,375,000.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	2,393,600.00	11,968,000.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	2,393,600.00	11,968,000.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	2,393,600.00	11,968,000.00
120220 Disposal Areas	1.0000	EA	2,457,478.35	245,747.83	675,806.55	3,379,032.73
12022002 Site Work	1.0000	EA	2,457,478.35	245,747.83	675,806.55	3,379,032.73
Disposal Site Management	1.0000	EA	2,457,478.35	245,747.83	675,806.55	3,379,032.73
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	99,825.00	499,125.00
Habitat Development	1.0000	EA	501,465.09	50,146.51	137,902.90	689,514.50
Outlet Structure	1.0000	EA	346,515.00	34,651.50	95,291.63	476,458.13
Work-In-Kind	1.0000	EA	1,593,013.26	159,301.33	438,078.65	2,190,393.23
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	39,754.00	198,770.00
WIK Site Operations	1.0000	EA	621,736.58	62,173.66	170,977.56	854,887.79
WIK Crust Management	1.0000	EA	826,716.68	82,671.67	227,347.09	1,136,735.44

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
30 Planning, Engineering & Design	1.0000	EA	780,760.00	78,076.00	299,733.76	1,158,569.76
Site Management and Design	1.0000	EA	470,000.00	47,000.00	180,433.00	697,433.00
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	16,123.80	62,323.80
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	100,489.66	388,425.66
31 Construction Management	1.0000	EA	358,440.00	35,844.00	137,605.12	531,889.12
FY 18	1.0000	EA	15,466,213.26	1,546,621.33	4,813,866.47	21,826,701.05
12 Navigation, Ports & Harbors	1.0000	EA	14,327,013.26	1,432,701.33	4,333,921.51	20,093,636.09
1202 Harbors	1.0000	EA	14,327,013.26	1,432,701.33	4,333,921.51	20,093,636.09
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	302,500.00	1,402,500.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	2,632,960.00	12,207,360.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	2,632,960.00	12,207,360.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	2,632,960.00	12,207,360.00
120220 Disposal Areas	1.0000	EA	4,623,013.26	462,301.33	1,398,461.51	6,483,776.09
12022002 Site Work	1.0000	EA	4,623,013.26	462,301.33	1,398,461.51	6,483,776.09
Disposal Site Management	1.0000	EA	4,623,013.26	462,301.33	1,398,461.51	6,483,776.09
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	109,807.50	509,107.50
Habitat Development	1.0000	EA	2,667,000.00	266,700.00	806,767.50	3,740,467.50
Work-In-Kind	1.0000	EA	1,593,013.26	159,301.33	481,886.51	2,234,201.09
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	43,729.40	202,745.40
WIK Site Operations	1.0000	EA	621,736.58	62,173.66	188,075.31	871,985.55
WIK Crust Management	1.0000	EA	826,716.68	82,671.67	250,081.80	1,159,470.15
30 Planning, Engineering & Design	1.0000	EA	780,760.00	78,076.00	328,934.19	1,187,770.19
Site Management and Design	1.0000	EA	470,000.00	47,000.00	198,011.00	715,011.00
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	17,694.60	63,894.60
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	110,279.49	398,215.49
31 Construction Management	1.0000	EA	358,440.00	35,844.00	151,010.77	545,294.77
FY 19	1.0000	EA	13,271,441.05	1,327,144.10	4,528,696.83	19,127,281.98
12 Navigation, Ports & Harbors	1.0000	EA	12,132,241.05	1,213,224.10	4,003,639.55	17,349,104.70
1202 Harbors	1.0000	EA	12,132,241.05	1,213,224.10	4,003,639.55	17,349,104.70
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	330,000.00	1,430,000.00

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	2,872,320.00	12,446,720.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	2,872,320.00	12,446,720.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	2,872,320.00	12,446,720.00
120220 Disposal Areas	1.0000	EA	2,428,241.05	242,824.10	801,319.55	3,472,384.70
12022002 Site Work	1.0000	EA	2,428,241.05	242,824.10	801,319.55	3,472,384.70
Disposal Site Management	1.0000	EA	2,428,241.05	242,824.10	801,319.55	3,472,384.70
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	119,790.00	519,090.00
Habitat Development	1.0000	EA	472,227.79	47,222.78	155,835.17	675,285.74
Outlet Structure	1.0000	EA	346,515.00	34,651.50	114,349.95	495,516.45
Work-In-Kind	1.0000	EA	1,593,013.26	159,301.33	525,694.37	2,278,008.96
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	47,704.80	206,720.80
WIK Site Operations	1.0000	EA	621,736.58	62,173.66	205,173.07	889,083.30
WIK Crust Management	1.0000	EA	826,716.68	82,671.67	272,816.51	1,182,204.86
30 Planning, Engineering & Design	1.0000	EA	780,760.00	78,076.00	359,852.28	1,218,688.28
Site Management and Design	1.0000	EA	470,000.00	47,000.00	216,623.00	733,623.00
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	19,357.80	65,557.80
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	120,645.18	408,581.18
31 Construction Management	1.0000	EA	358,440.00	35,844.00	165,205.00	559,489.00
FY 20	1.0000	EA	14,578,554.02	1,457,855.40	5,389,521.95	21,425,931.38
12 Navigation, Ports & Harbors	1.0000	EA	13,439,354.02	1,343,935.40	4,819,352.35	19,602,641.78
1202 Harbors	1.0000	EA	13,439,354.02	1,343,935.40	4,819,352.35	19,602,641.78
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	358,600.00	1,458,600.00
120220 Disposal Areas	1.0000	EA	3,735,354.02	373,535.40	1,339,497.95	5,448,387.38
12022002 Site Work	1.0000	EA	3,735,354.02	373,535.40	1,339,497.95	5,448,387.38
Disposal Site Management	1.0000	EA	3,735,354.02	373,535.40	1,339,497.95	5,448,387.38
Work-In-Kind	1.0000	EA	1,279,688.67	127,968.87	458,896.36	1,866,553.89
WIK Site Operations	1.0000	EA	621,736.58	62,173.66	222,954.74	906,864.97
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	51,839.22	210,855.22
WIK Crust Management	1.0000	EA	513,392.09	51,339.21	184,102.40	748,833.71
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	130,171.80	529,471.80

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Habitat Development	1.0000	EA	2,092,665.35	209,266.54	750,429.80	3,052,361.68
Outlet Structure	1.0000	EA	693,030.00	69,303.00	248,520.56	1,010,853.56
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	3,121,254.40	12,695,654.40
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	3,121,254.40	12,695,654.40
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	3,121,254.40	12,695,654.40
30 Planning, Engineering & Design	1.0000	EA	780,760.00	78,076.00	390,770.38	1,249,606.38
Site Management and Design	1.0000	EA	470,000.00	47,000.00	235,235.00	752,235.00
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	131,010.88	418,946.88
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	21,021.00	67,221.00
31 Construction Management	1.0000	EA	358,440.00	35,844.00	179,399.22	573,683.22
FY 21	1.0000	EA	13,618,563.86	1,361,856.39	5,466,031.39	20,446,451.63
12 Navigation, Ports & Harbors	1.0000	EA	12,479,363.86	1,247,936.39	4,845,736.99	18,573,037.23
1202 Harbors	1.0000	EA	12,479,363.86	1,247,936.39	4,845,736.99	18,573,037.23
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	388,300.00	1,488,300.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	3,379,763.20	12,954,163.20
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	3,379,763.20	12,954,163.20
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	3,379,763.20	12,954,163.20
120220 Disposal Areas	1.0000	EA	2,775,363.86	277,536.39	1,077,673.79	4,130,574.03
12022002 Site Work	1.0000	EA	2,775,363.86	277,536.39	1,077,673.79	4,130,574.03
Disposal Site Management	1.0000	EA	2,775,363.86	277,536.39	1,077,673.79	4,130,574.03
Work-In-Kind	1.0000	EA	1,287,363.86	128,736.39	499,883.39	1,915,983.63
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	260,077.35	996,840.38
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	56,132.65	215,148.65
WIK Crust Management	1.0000	EA	473,019.28	47,301.93	183,673.39	703,994.60
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	140,952.90	540,252.90
Habitat Development	1.0000	EA	1,125,000.00	112,500.00	436,837.50	1,674,337.50
30 Planning, Engineering & Design	1.0000	EA	780,760.00	78,076.00	425,123.82	1,283,959.82
Site Management and Design	1.0000	EA	470,000.00	47,000.00	255,915.00	772,915.00
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	142,528.32	430,464.32
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	22,869.00	69,069.00

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
31 Construction Management	1.0000	EA	358,440.00	35,844.00	195,170.58	589,454.58
FY 22	1.0000	EA	13,357,699.27	1,335,769.93	5,878,346.89	20,571,816.09
12 Navigation, Ports & Harbors	1.0000	EA	11,628,499.27	1,162,849.93	4,860,712.69	17,652,061.89
1202 Harbors	1.0000	EA	11,628,499.27	1,162,849.93	4,860,712.69	17,652,061.89
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	418,000.00	1,518,000.00
120215 Mechanical Dredging	1.0000	EA	8,704,000.00	870,400.00	3,638,272.00	13,212,672.00
12021502 Site Work	1.0000	EA	8,704,000.00	870,400.00	3,638,272.00	13,212,672.00
Maintenance Dredging	1.0000	EA	8,704,000.00	870,400.00	3,638,272.00	13,212,672.00
120220 Disposal Areas	1.0000	EA	1,924,499.27	192,449.93	804,440.69	2,921,389.89
12022002 Site Work	1.0000	EA	1,924,499.27	192,449.93	804,440.69	2,921,389.89
Disposal Site Management	1.0000	EA	1,924,499.27	192,449.93	804,440.69	2,921,389.89
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	151,734.00	551,034.00
Work-In-Kind	1.0000	EA	1,561,499.27	156,149.93	652,706.69	2,370,355.89
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	60,426.08	219,442.08
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	279,969.95	1,016,732.99
WIK Crust Management	1.0000	EA	747,154.69	74,715.47	312,310.66	1,134,180.82
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	736,072.26	2,111,908.26
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	154,045.76	441,981.76
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	24,717.00	70,917.00
Site Management and Design	1.0000	EA	940,000.00	94,000.00	553,190.00	1,587,190.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	281,561.94	807,845.94
FY 23	1.0000	EA	7,908,373.92	790,837.39	3,863,939.40	12,563,150.71
12 Navigation, Ports & Harbors	1.0000	EA	6,179,173.92	617,917.39	2,766,416.16	9,563,507.47
1202 Harbors	1.0000	EA	6,179,173.92	617,917.39	2,766,416.16	9,563,507.47
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	447,700.00	1,547,700.00
120215 Mechanical Dredging	1.0000	EA	3,439,486.24	343,948.62	1,539,857.99	5,323,292.85
12021502 Site Work	1.0000	EA	3,439,486.24	343,948.62	1,539,857.99	5,323,292.85
Maintenance Dredging	1.0000	EA	3,439,486.24	343,948.62	1,539,857.99	5,323,292.85
120220 Disposal Areas	1.0000	EA	1,739,687.68	173,968.77	778,858.17	2,692,514.62
12022002 Site Work	1.0000	EA	1,739,687.68	173,968.77	778,858.17	2,692,514.62

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Disposal Site Management	1.0000	EA	1,739,687.68	173,968.77	778,858.17	2,692,514.62
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	162,515.10	561,815.10
Work-In-Kind	1.0000	EA	1,376,687.68	137,668.77	616,343.07	2,130,699.52
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	64,719.51	223,735.51
WIK Site Operations	1.0000	EA	669,784.58	66,978.46	299,862.55	1,036,625.59
WIK Crust Management	1.0000	EA	562,343.10	56,234.31	251,761.01	870,338.42
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	793,857.37	2,169,693.37
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	166,139.07	454,075.07
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	26,657.40	72,857.40
Site Management and Design	1.0000	EA	940,000.00	94,000.00	596,618.00	1,630,618.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	303,665.87	829,949.87
FY 24	1.0000	EA	6,795,070.00	679,507.00	3,605,235.32	11,079,812.32
12 Navigation, Ports & Harbors	1.0000	EA	5,065,870.00	506,587.00	2,424,018.80	7,996,475.80
1202 Harbors	1.0000	EA	5,065,870.00	506,587.00	2,424,018.80	7,996,475.80
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	478,500.00	1,578,500.00
120215 Mechanical Dredging	1.0000	EA	2,057,924.80	205,792.48	984,717.02	3,248,434.30
12021502 Site Work	1.0000	EA	2,057,924.80	205,792.48	984,717.02	3,248,434.30
Maintenance Dredging	1.0000	EA	2,057,924.80	205,792.48	984,717.02	3,248,434.30
120220 Disposal Areas	1.0000	EA	2,007,945.20	200,794.52	960,801.78	3,169,541.51
12022002 Site Work	1.0000	EA	2,007,945.20	200,794.52	960,801.78	3,169,541.51
Disposal Site Management	1.0000	EA	2,007,945.20	200,794.52	960,801.78	3,169,541.51
Environmental Monitoring	1.0000	EA	363,000.00	36,300.00	173,695.50	572,995.50
Work-In-Kind	1.0000	EA	1,283,735.68	128,373.57	614,267.52	2,026,376.77
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	69,171.96	228,187.96
WIK Site Operations	1.0000	EA	576,832.58	57,683.26	276,014.39	910,530.22
WIK Crust Management	1.0000	EA	562,343.10	56,234.31	269,081.18	887,658.59
Habitat Development	1.0000	EA	361,209.53	36,120.95	172,838.76	570,169.24
30 Planning, Engineering & Design	1.0000	EA	1,250,760.00	125,076.00	854,394.16	2,230,230.16
Plans and Specifications	1.0000	EA	261,760.00	26,176.00	178,808.26	466,744.26
Engineering During Construction	1.0000	EA	42,000.00	4,200.00	28,690.20	74,890.20

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Site Management and Design	1.0000	EA	940,000.00	94,000.00	642,114.00	1,676,114.00
31 Construction Management	1.0000	EA	478,440.00	47,844.00	326,822.36	853,106.36
FY 25	1.0000	EA	5,952,763.12	595,276.31	3,462,766.61	10,010,806.04
12 Navigation, Ports & Harbors	1.0000	EA	4,494,663.12	449,466.31	2,392,958.64	7,337,088.07
1202 Harbors	1.0000	EA	4,494,663.12	449,466.31	2,392,958.64	7,337,088.07
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	532,400.00	1,632,400.00
120215 Mechanical Dredging	1.0000	EA	2,000,641.60	200,064.16	1,065,141.59	3,265,847.35
12021502 Site Work	1.0000	EA	2,000,641.60	200,064.16	1,065,141.59	3,265,847.35
Maintenance Dredging	1.0000	EA	2,000,641.60	200,064.16	1,065,141.59	3,265,847.35
120220 Disposal Areas	1.0000	EA	1,494,021.52	149,402.15	795,417.06	2,438,840.72
12022002 Site Work	1.0000	EA	1,494,021.52	149,402.15	795,417.06	2,438,840.72
Disposal Site Management	1.0000	EA	1,494,021.52	149,402.15	795,417.06	2,438,840.72
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	96,630.60	296,280.60
Habitat Development	1.0000	EA	361,209.53	36,120.95	192,307.95	589,638.43
Work-In-Kind	1.0000	EA	951,311.99	95,131.20	506,478.50	1,552,921.69
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	76,963.74	235,979.74
WIK Site Operations	1.0000	EA	244,408.89	24,440.89	130,123.29	398,973.07
WIK Crust Management	1.0000	EA	562,343.10	56,234.31	299,391.47	917,968.88
30 Planning, Engineering & Design	1.0000	EA	1,098,880.00	109,888.00	806,248.26	2,015,016.26
Plans and Specifications	1.0000	EA	130,880.00	13,088.00	96,026.66	239,994.66
Engineering During Construction	1.0000	EA	21,000.00	2,100.00	15,407.70	38,507.70
Site Management and Design	1.0000	EA	940,000.00	94,000.00	689,678.00	1,723,678.00
31 Construction Management	1.0000	EA	359,220.00	35,922.00	263,559.71	658,701.71
FY 26	1.0000	EA	8,666,602.31	866,660.23	5,062,291.90	14,595,554.44
12 Navigation, Ports & Harbors	1.0000	EA	7,208,502.31	720,850.23	3,917,100.16	11,846,452.70
1202 Harbors	1.0000	EA	7,208,502.31	720,850.23	3,917,100.16	11,846,452.70
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	543,400.00	1,643,400.00
120215 Mechanical Dredging	1.0000	EA	1,397,076.32	139,707.63	759,171.27	2,295,955.22
12021502 Site Work	1.0000	EA	1,397,076.32	139,707.63	759,171.27	2,295,955.22
Maintenance Dredging	1.0000	EA	1,397,076.32	139,707.63	759,171.27	2,295,955.22

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
120220 Disposal Areas	1.0000	EA	4,811,425.99	481,142.60	2,614,528.88	7,907,097.47
12022002 Site Work	1.0000	EA	4,811,425.99	481,142.60	2,614,528.88	7,907,097.47
Disposal Site Management	1.0000	EA	4,811,425.99	481,142.60	2,614,528.88	7,907,097.47
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	98,627.10	298,277.10
Habitat Development	1.0000	EA	3,706,500.00	370,650.00	2,014,112.10	6,091,262.10
Work-In-Kind	1.0000	EA	923,425.99	92,342.60	501,789.68	1,517,558.27
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	78,553.90	237,569.90
WIK Site Operations	1.0000	EA	216,522.89	21,652.29	117,658.54	355,833.71
WIK Crust Management	1.0000	EA	562,343.10	56,234.31	305,577.24	924,154.66
30 Planning, Engineering & Design	1.0000	EA	1,098,880.00	109,888.00	863,060.35	2,071,828.35
Plans and Specifications	1.0000	EA	130,880.00	13,088.00	102,793.15	246,761.15
Engineering During Construction	1.0000	EA	21,000.00	2,100.00	16,493.40	39,593.40
Site Management and Design	1.0000	EA	940,000.00	94,000.00	738,276.00	1,772,276.00
31 Construction Management	1.0000	EA	359,220.00	35,922.00	282,131.39	677,273.39
FY 27	1.0000	EA	7,342,802.55	734,280.26	4,615,795.29	12,692,878.09
12 Navigation, Ports & Harbors	1.0000	EA	5,884,438.55	588,443.86	3,391,790.38	9,864,672.79
1202 Harbors	1.0000	EA	5,884,438.55	588,443.86	3,391,790.38	9,864,672.79
120201 Mobilization, Demobilization and Preparatory Work	1.0000	EA	1,000,000.00	100,000.00	576,400.00	1,676,400.00
120215 Mechanical Dredging	1.0000	EA	73,012.96	7,301.30	42,084.67	122,398.93
12021502 Site Work	1.0000	EA	73,012.96	7,301.30	42,084.67	122,398.93
Maintenance Dredging	1.0000	EA	73,012.96	7,301.30	42,084.67	122,398.93
120220 Disposal Areas	1.0000	EA	4,811,425.59	481,142.56	2,773,305.71	8,065,873.86
12022002 Site Work	1.0000	EA	4,811,425.59	481,142.56	2,773,305.71	8,065,873.86
Disposal Site Management	1.0000	EA	4,811,425.59	481,142.56	2,773,305.71	8,065,873.86
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	104,616.60	304,266.60
Habitat Development	1.0000	EA	3,706,500.00	370,650.00	2,136,426.60	6,213,576.60
Work-In-Kind	1.0000	EA	923,425.59	92,342.56	532,262.51	1,548,030.66
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	83,324.38	242,340.38
WIK Site Operations	1.0000	EA	216,522.49	21,652.25	124,803.56	362,978.30
WIK Crust Management	1.0000	EA	562,343.10	56,234.31	324,134.57	942,711.98

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
30 Planning, Engineering & Design	1.0000	EA	1,099,144.00	109,914.40	922,511.56	2,131,569.96
Plans and Specifications	1.0000	EA	131,144.00	13,114.40	110,069.16	254,327.56
Engineering During Construction	1.0000	EA	21,000.00	2,100.00	17,625.30	40,725.30
Site Management and Design	1.0000	EA	940,000.00	94,000.00	788,942.00	1,822,942.00
31 Construction Management	1.0000	EA	359,220.00	35,922.00	301,493.35	696,635.35
FY 28	1.0000	EA	2,516,444.12	251,644.41	1,871,173.14	4,639,261.67
12 Navigation, Ports & Harbors	1.0000	EA	1,336,444.12	133,644.41	815,899.14	2,285,987.67
1202 Harbors	1.0000	EA	1,336,444.12	133,644.41	815,899.14	2,285,987.67
120220 Disposal Areas	1.0000	EA	1,336,444.12	133,644.41	815,899.14	2,285,987.67
12022002 Site Work	1.0000	EA	1,336,444.12	133,644.41	815,899.14	2,285,987.67
Disposal Site Management	1.0000	EA	1,336,444.12	133,644.41	815,899.14	2,285,987.67
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	110,805.75	310,455.75
Habitat Development	1.0000	EA	760,137.24	76,013.72	464,063.78	1,300,214.74
Work-In-Kind	1.0000	EA	394,806.89	39,480.69	241,029.60	675,317.18
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	88,253.88	247,269.88
WIK Site Operations	1.0000	EA	197,932.89	19,793.29	120,838.03	338,564.20
WIK Crust Management	1.0000	EA	52,314.00	5,231.40	31,937.70	89,483.10
30 Planning, Engineering & Design	1.0000	EA	940,000.00	94,000.00	840,642.00	1,874,642.00
Site Management and Design	1.0000	EA	940,000.00	94,000.00	840,642.00	1,874,642.00
31 Construction Management	1.0000	EA	240,000.00	24,000.00	214,632.00	478,632.00
FY 29	1.0000	EA	2,949,807.72	294,980.77	2,262,290.06	5,507,078.55
12 Navigation, Ports & Harbors	1.0000	EA	1,769,807.72	176,980.77	1,140,818.06	3,087,606.55
1202 Harbors	1.0000	EA	1,769,807.72	176,980.77	1,140,818.06	3,087,606.55
120220 Disposal Areas	1.0000	EA	1,769,807.72	176,980.77	1,140,818.06	3,087,606.55
12022002 Site Work	1.0000	EA	1,769,807.72	176,980.77	1,140,818.06	3,087,606.55
Disposal Site Management	1.0000	EA	1,769,807.72	176,980.77	1,140,818.06	3,087,606.55
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	116,994.90	316,644.90
Work-In-Kind	1.0000	EA	342,492.89	34,249.29	220,770.92	597,513.09
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	93,183.38	252,199.38
WIK Site Operations	1.0000	EA	197,932.89	19,793.29	127,587.54	345,313.72

Description	Quantity	UOM	CostToOwner	Contingency	Escalation	ProjectCost
Habitat Development	1.0000	EA	1,245,814.84	124,581.48	803,052.24	2,173,448.56
Outlet Structure	1.0000	EA	346,515.00	34,651.50	223,363.57	604,530.07
30 Planning, Engineering & Design	1.0000	EA	940,000.00	94,000.00	893,376.00	1,927,376.00
Site Management and Design	1.0000	EA	940,000.00	94,000.00	893,376.00	1,927,376.00
31 Construction Management	1.0000	EA	240,000.00	24,000.00	228,096.00	492,096.00
FY 30	1.0000	EA	9,504,992.89	950,499.29	6,849,596.16	17,305,088.34
12 Navigation, Ports & Harbors	1.0000	EA	8,324,992.89	832,499.29	5,659,330.16	14,816,822.34
1202 Harbors	1.0000	EA	8,324,992.89	832,499.29	5,659,330.16	14,816,822.34
120220 Disposal Areas	1.0000	EA	8,324,992.89	832,499.29	5,659,330.16	14,816,822.34
12022002 Site Work	1.0000	EA	8,324,992.89	832,499.29	5,659,330.16	14,816,822.34
Disposal Site Management	1.0000	EA	8,324,992.89	832,499.29	5,659,330.16	14,816,822.34
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	123,383.70	323,033.70
Habitat Development	1.0000	EA	7,800,000.00	780,000.00	5,302,440.00	13,882,440.00
Work-In-Kind	1.0000	EA	343,492.89	34,349.29	233,506.46	611,348.64
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	98,271.89	257,287.89
WIK Site Operations	1.0000	EA	198,932.89	19,893.29	135,234.58	354,060.75
30 Planning, Engineering & Design	1.0000	EA	940,000.00	94,000.00	948,178.00	1,982,178.00
Site Management and Design	1.0000	EA	940,000.00	94,000.00	948,178.00	1,982,178.00
31 Construction Management	1.0000	EA	240,000.00	24,000.00	242,088.00	506,088.00
FY 31	1.0000	EA	10,932,992.89	1,093,299.29	8,245,774.21	20,272,066.38
12 Navigation, Ports & Harbors	1.0000	EA	9,752,992.89	975,299.29	6,984,118.21	17,712,410.38
1202 Harbors	1.0000	EA	9,752,992.89	975,299.29	6,984,118.21	17,712,410.38
120220 Disposal Areas	1.0000	EA	9,752,992.89	975,299.29	6,984,118.21	17,712,410.38
12022002 Site Work	1.0000	EA	9,752,992.89	975,299.29	6,984,118.21	17,712,410.38
Disposal Site Management	1.0000	EA	9,752,992.89	975,299.29	6,984,118.21	17,712,410.38
Environmental Monitoring	1.0000	EA	181,500.00	18,150.00	129,972.15	329,622.15
Habitat Development	1.0000	EA	9,228,000.00	922,800.00	6,608,170.80	16,758,970.80
Work-In-Kind	1.0000	EA	343,492.89	34,349.29	245,975.26	623,817.43
WIK Monitoring	1.0000	EA	144,560.00	14,456.00	103,519.42	262,535.42
WIK Site Operations	1.0000	EA	198,932.89	19,893.29	142,455.84	361,282.02

Print Date Thu 4 August 2005
Eff. Date 5/25/2005

U.S. Army Corps of Engineers
Project Baseline: Poplar Island Expansion 60-40 and Raising Cells 2 & 6 NMFS Option
Baseline Cost Estimate

Time 14:38:31

Project Cost Page 23

<u>Description</u>	<u>Quantity</u>	<u>UOM</u>	<u>CostToOwner</u>	<u>Contingency</u>	<u>Escalation</u>	<u>ProjectCost</u>
30 Planning, Engineering & Design	1.0000	EA	940,000.00	94,000.00	1,005,048.00	2,039,048.00
Site Management and Design	1.0000	EA	940,000.00	94,000.00	1,005,048.00	2,039,048.00
31 Construction Management	1.0000	EA	240,000.00	24,000.00	256,608.00	520,608.00
Buildings	1.0000	EA	3,357,733.00	335,773.30	0.00	3,693,506.30

ATTACHMENT B

Total Project Cost Summaries

TOTAL PROJECT COST SUMMARIES

ALL CONTRACTS

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY (NMFS Option)

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$534,998	\$36,048	6.7%	\$571,045	\$534,998	\$36,048	\$571,045	\$608,148	\$43,363	\$651,511
	TOTAL CONSTRUCTION COST	\$534,998	\$36,048	6.7%	\$571,045	\$534,998	\$36,048	\$571,045	\$608,148	\$43,363	\$651,511
01	LANDS AND DAMAGES	\$39	\$0	0.0%	\$39	\$39	\$0	\$39	\$39	\$0	\$39
30	PLANNING, ENGINEERING AND DESIGN	\$33,216	\$2,925	8.8%	\$36,141	\$33,216	\$2,925	\$36,141	\$44,976	\$4,101	\$49,077
31	CONSTRUCTION MANAGEMENT	\$15,959	\$1,089	6.8%	\$17,047	\$15,959	\$1,089	\$17,047	\$20,044	\$1,497	\$21,541
	*** TOTAL PROJECT COSTS	\$584,211	\$40,061	6.9%	\$624,273	\$584,211	\$40,061	\$624,273	\$673,207	\$48,961	\$722,168

*** The Total Project Cost of \$722,168,312 includes \$6,436,155 in betterments. The betterments are due to phasing the construction of the dikes at the sponsor's request.

DISTRICT APPROVED:

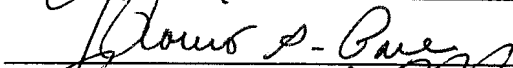
DIVISION APPROVED:


 _____ CHIEF, ESTIMATING AND SPECIFICATIONS SECTION

 CHIEF, COST ENGINEERING


 _____ CHIEF, REAL ESTATE DIVISION

 DIRECTOR REALESTATE


 _____ CHIEF, PLANNING DIVISION

 CHIEF, PROGRAMS MANAGEMENT


 _____ CHIEF, ENGINEERING DIVISION

 DIRECTOR OF PPMD


 _____ CHIEF, OPERATIONS DIVISION


 _____ CHIEF, PROGRAMS MANAGEMENT BRANCH


 _____ PROJECT MANAGER


 _____ DDE (PM)

APPROVED DATE: _____

TOTAL PROJECT COST SUMMARIES

PHASE 1

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$54,848	\$0	0.0%	\$54,848	\$54,848	\$0	\$54,848	\$54,848	\$0	\$54,848
	TOTAL CONSTRUCTION COST	\$54,848	\$0	0.0%	\$54,848	\$54,848	\$0	\$54,848	\$54,848	\$0	\$54,848
01	LANDS AND DAMAGES	\$39	\$0	0.0%	\$39	\$39	\$0	\$39	\$39	\$0	\$39
30	PLANNING, ENGINEERING AND DESIGN	\$965	\$0	0.0%	\$965	\$965	\$0	\$965	\$965	\$0	\$965
31	CONSTRUCTION MANAGEMENT	\$3,067	\$0	0.0%	\$3,067	\$3,067	\$0	\$3,067	\$3,067	\$0	\$3,067
	TOTAL PROJECT COSTS	\$58,919	\$0	0.0%	\$58,919	\$58,919	\$0	\$58,919	\$58,919	\$0	\$58,919

TOTAL PROJECT COST SUMMARIES

PHASE 2

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$41,373	\$0	0.0%	\$41,373	\$41,373	\$0	\$41,373	\$41,373	\$0	\$41,373
	TOTAL CONSTRUCTION COST	\$41,373	\$0	0.0%	\$41,373	\$41,373	\$0	\$41,373	\$41,373	\$0	\$41,373
30	PLANNING, ENGINEERING AND DESIGN	\$1,225	\$0	0.0%	\$1,225	\$1,225	\$0	\$1,225	\$1,225	\$0	\$1,225
31	CONSTRUCTION MANAGEMENT	\$2,005	\$0	0.0%	\$2,005	\$2,005	\$0	\$2,005	\$2,005	\$0	\$2,005
	TOTAL PROJECT COSTS	\$44,603	\$0	0.0%	\$44,603	\$44,603	\$0	\$44,603	\$44,603	\$0	\$44,603

TOTAL PROJECT COST SUMMARIES

FY - 98 to FY 00

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$2,538	\$0	0.0%	\$2,538	\$2,538	\$0	\$2,538	\$2,538	\$0	\$2,538
	TOTAL CONSTRUCTION COST	\$2,538	\$0	0.0%	\$2,538	\$2,538	\$0	\$2,538	\$2,538	\$0	\$2,538
30	PLANNING, ENGINEERING AND DESIGN	\$1,778	\$0	0.0%	\$1,778	\$1,778	\$0	\$1,778	\$1,778	\$0	\$1,778
31	CONSTRUCTION MANAGEMENT	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL PROJECT COSTS	\$4,316	\$0	0.0%	\$4,316	\$4,316	\$0	\$4,316	\$4,316	\$0	\$4,316

TOTAL PROJECT COST SUMMARIES

FY - 01

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$17,368	\$0	0.0%	\$17,368	\$17,368	\$0	\$17,368	\$17,368	\$0	\$17,368
	TOTAL CONSTRUCTION COST	\$17,368	\$0	0.0%	\$17,368	\$17,368	\$0	\$17,368	\$17,368	\$0	\$17,368
30	PLANNING, ENGINEERING AND DESIGN	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	CONSTRUCTION MANAGEMENT	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL PROJECT COSTS	\$17,368	\$0	0.0%	\$17,368	\$17,368	\$0	\$17,368	\$17,368	\$0	\$17,368

TOTAL PROJECT COST SUMMARIES

FY - 02

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$28,171	\$0	0.0%	\$28,171	\$28,171	\$0	\$28,171	\$28,171	\$0	\$28,171
	TOTAL CONSTRUCTION COST	\$28,171	\$0	0.0%	\$28,171	\$28,171	\$0	\$28,171	\$28,171	\$0	\$28,171
30	PLANNING, ENGINEERING AND DESIGN	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	CONSTRUCTION MANAGEMENT	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL PROJECT COSTS	\$28,171	\$0	0.0%	\$28,171	\$28,171	\$0	\$28,171	\$28,171	\$0	\$28,171

TOTAL PROJECT COST SUMMARIES

FY - 03

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$13,351	\$0	0.0%	\$13,351	\$13,351	\$0	\$13,351	\$13,351	\$0	\$13,351
	TOTAL CONSTRUCTION COST	\$13,351	\$0	0.0%	\$13,351	\$13,351	\$0	\$13,351	\$13,351	\$0	\$13,351
30	PLANNING, ENGINEERING AND DESIGN	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	CONSTRUCTION MANAGEMENT	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL PROJECT COSTS	\$13,351	\$0	0.0%	\$13,351	\$13,351	\$0	\$13,351	\$13,351	\$0	\$13,351

TOTAL PROJECT COST SUMMARIES

FY - 04

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$16,870	\$0	0.0%	\$16,870	\$16,870	\$0	\$16,870	\$16,870	\$0	\$16,870
	TOTAL CONSTRUCTION COST	\$16,870	\$0	0.0%	\$16,870	\$16,870	\$0	\$16,870	\$16,870	\$0	\$16,870
30	PLANNING, ENGINEERING AND DESIGN	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	CONSTRUCTION MANAGEMENT	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL PROJECT COSTS	\$16,870	\$0	0.0%	\$16,870	\$16,870	\$0	\$16,870	\$16,870	\$0	\$16,870

TOTAL PROJECT COST SUMMARIES

FY - 05

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$10,176	\$1,018	10.0%	\$11,194	\$10,176	\$1,018	\$11,194	\$10,298	\$1,030	\$11,328
	TOTAL CONSTRUCTION COST	\$10,176	\$1,018	10.0%	\$11,194	\$10,176	\$1,018	\$11,194	\$10,298	\$1,030	\$11,328
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,316	\$132	\$1,447
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$503	\$50	\$554
	TOTAL PROJECT COSTS	\$11,906	\$1,191	10.0%	\$13,096	\$11,906	\$1,191	\$13,096	\$12,118	\$1,212	\$13,329

TOTAL PROJECT COST SUMMARIES

FY - 06

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$12,830	\$1,283	10.0%	\$14,112	\$12,830	\$1,283	\$14,112	\$12,996	\$1,300	\$14,296
	TOTAL CONSTRUCTION COST	\$12,830	\$1,283	10.0%	\$14,112	\$12,830	\$1,283	\$14,112	\$12,996	\$1,300	\$14,296
30	PLANNING, ENGINEERING AND DESIGN	\$1,247	\$125	10.0%	\$1,371	\$1,247	\$125	\$1,371	\$1,287	\$129	\$1,415
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$494	\$49	\$543
	TOTAL PROJECT COSTS	\$14,555	\$1,455	10.0%	\$16,010	\$14,555	\$1,455	\$16,010	\$14,777	\$1,478	\$16,254

TOTAL PROJECT COST SUMMARIES

FY - 07

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
		12	NAVIGATION, PORTS & HARBORS	\$17,421	\$1,742	10.0%	\$19,163	\$17,421	\$1,742	\$19,163	\$17,909
	TOTAL CONSTRUCTION COST	\$17,421	\$1,742	10.0%	\$19,163	\$17,421	\$1,742	\$19,163	\$17,909	\$1,791	\$19,700
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,325	\$132	\$1,457
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$507	\$51	\$557
	TOTAL PROJECT COSTS	\$19,150	\$1,915	10.0%	\$21,065	\$19,150	\$1,915	\$21,065	\$19,740	\$1,974	\$21,714

TOTAL PROJECT COST SUMMARIES

FY - 08

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$11,014	\$1,101	10.0%	\$12,115	\$11,014	\$1,101	\$12,115	\$11,520	\$1,152	\$12,672
	TOTAL CONSTRUCTION COST	\$11,014	\$1,101	10.0%	\$12,115	\$11,014	\$1,101	\$12,115	\$11,520	\$1,152	\$12,672
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,357	\$136	\$1,493
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$519	\$52	\$571
	TOTAL PROJECT COSTS	\$12,743	\$1,274	10.0%	\$14,017	\$12,743	\$1,274	\$14,017	\$13,396	\$1,340	\$14,736

TOTAL PROJECT COST SUMMARIES

FY - 09

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$52,985	\$5,298	10.0%	\$58,283	\$52,985	\$5,298	\$58,283	\$56,535	\$5,653	\$62,188
	TOTAL CONSTRUCTION COST	\$52,985	\$5,298	10.0%	\$58,283	\$52,985	\$5,298	\$58,283	\$56,535	\$5,653	\$62,188
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,390	\$139	\$1,529
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$532	\$53	\$585
	TOTAL PROJECT COSTS	\$54,714	\$5,471	10.0%	\$60,185	\$54,714	\$5,471	\$60,185	\$58,456	\$5,846	\$64,301

TOTAL PROJECT COST SUMMARIES

FY - 10

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$45,015	\$4,501	10.0%	\$49,516	\$45,015	\$4,501	\$49,516	\$48,976	\$4,898	\$53,874
	TOTAL CONSTRUCTION COST	\$45,015	\$4,501	10.0%	\$49,516	\$45,015	\$4,501	\$49,516	\$48,976	\$4,898	\$53,874
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,423	\$142	\$1,566
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$544	\$54	\$599
	TOTAL PROJECT COSTS	\$46,744	\$4,674	10.0%	\$51,418	\$46,744	\$4,674	\$51,418	\$50,944	\$5,094	\$56,038

TOTAL PROJECT COST SUMMARIES

FY - 11

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$12,105	\$1,210	10.0%	\$13,315	\$12,105	\$1,210	\$13,315	\$13,436	\$1,344	\$14,780
	TOTAL CONSTRUCTION COST	\$12,105	\$1,210	10.0%	\$13,315	\$12,105	\$1,210	\$13,315	\$13,436	\$1,344	\$14,780
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,458	\$146	\$1,604
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$558	\$56	\$614
	TOTAL PROJECT COSTS	\$13,834	\$1,383	10.0%	\$15,217	\$13,834	\$1,383	\$15,217	\$15,452	\$1,545	\$16,998

TOTAL PROJECT COST SUMMARIES

FY - 12

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$13,992	\$1,399	10.0%	\$15,391	\$13,992	\$1,399	\$15,391	\$15,839	\$1,584	\$17,423
	TOTAL CONSTRUCTION COST	\$13,992	\$1,399	10.0%	\$15,391	\$13,992	\$1,399	\$15,391	\$15,839	\$1,584	\$17,423
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,493	\$149	\$1,643
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$571	\$57	\$628
	TOTAL PROJECT COSTS	\$15,721	\$1,572	10.0%	\$17,293	\$15,721	\$1,572	\$17,293	\$17,904	\$1,790	\$19,694

TOTAL PROJECT COST SUMMARIES

FY - 13

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$13,550	\$1,355	10.0%	\$14,906	\$13,550	\$1,355	\$14,906	\$15,651	\$1,565	\$17,216
	TOTAL CONSTRUCTION COST	\$13,550	\$1,355	10.0%	\$14,906	\$13,550	\$1,355	\$14,906	\$15,651	\$1,565	\$17,216
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,530	\$153	\$1,683
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$585	\$59	\$644
	TOTAL PROJECT COSTS	\$15,280	\$1,528	10.0%	\$16,808	\$15,280	\$1,528	\$16,808	\$17,766	\$1,777	\$19,542

TOTAL PROJECT COST SUMMARIES

FY - 14

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$13,784	\$1,378	10.0%	\$15,162	\$13,784	\$1,378	\$15,162	\$16,237	\$1,624	\$17,861
	TOTAL CONSTRUCTION COST	\$13,784	\$1,378	10.0%	\$15,162	\$13,784	\$1,378	\$15,162	\$16,237	\$1,624	\$17,861
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,567	\$157	\$1,724
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$599	\$60	\$659
	TOTAL PROJECT COSTS	\$15,513	\$1,551	10.0%	\$17,064	\$15,513	\$1,551	\$17,064	\$18,404	\$1,840	\$20,245

TOTAL PROJECT COST SUMMARIES

FY - 15

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$13,662	\$1,366	10.0%	\$15,028	\$13,662	\$1,366	\$15,028	\$16,408	\$1,641	\$18,049
	TOTAL CONSTRUCTION COST	\$13,662	\$1,366	10.0%	\$15,028	\$13,662	\$1,366	\$15,028	\$16,408	\$1,641	\$18,049
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,606	\$161	\$1,767
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$614	\$61	\$676
	TOTAL PROJECT COSTS	\$15,391	\$1,539	10.0%	\$16,930	\$15,391	\$1,539	\$16,930	\$18,628	\$1,863	\$20,491

TOTAL PROJECT COST SUMMARIES

FY - 16

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$14,404	\$1,440	10.0%	\$15,844	\$14,404	\$1,440	\$15,844	\$17,644	\$1,764	\$19,409
	TOTAL CONSTRUCTION COST	\$14,404	\$1,440	10.0%	\$15,844	\$14,404	\$1,440	\$15,844	\$17,644	\$1,764	\$19,409
30	PLANNING, ENGINEERING AND DESIGN	\$781	\$78	10.0%	\$859	\$781	\$78	\$859	\$1,027	\$103	\$1,130
31	CONSTRUCTION MANAGEMENT	\$358	\$36	10.0%	\$394	\$358	\$36	\$394	\$472	\$47	\$519
	TOTAL PROJECT COSTS	\$15,543	\$1,554	10.0%	\$17,097	\$15,543	\$1,554	\$17,097	\$19,144	\$1,914	\$21,058

TOTAL PROJECT COST SUMMARIES

FY - 17

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$12,161	\$1,216	10.0%	\$13,378	\$12,161	\$1,216	\$13,378	\$15,202	\$1,520	\$16,722
	TOTAL CONSTRUCTION COST	\$12,161	\$1,216	10.0%	\$13,378	\$12,161	\$1,216	\$13,378	\$15,202	\$1,520	\$16,722
30	PLANNING, ENGINEERING AND DESIGN	\$781	\$78	10.0%	\$859	\$781	\$78	\$859	\$1,053	\$105	\$1,159
31	CONSTRUCTION MANAGEMENT	\$358	\$36	10.0%	\$394	\$358	\$36	\$394	\$484	\$48	\$532
	TOTAL PROJECT COSTS	\$13,301	\$1,330	10.0%	\$14,631	\$13,301	\$1,330	\$14,631	\$16,739	\$1,674	\$18,412

TOTAL PROJECT COST SUMMARIES

FY - 18

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$14,327	\$1,433	10.0%	\$15,760	\$14,327	\$1,433	\$15,760	\$18,267	\$1,827	\$20,094
	TOTAL CONSTRUCTION COST	\$14,327	\$1,433	10.0%	\$15,760	\$14,327	\$1,433	\$15,760	\$18,267	\$1,827	\$20,094
30	PLANNING, ENGINEERING AND DESIGN	\$781	\$78	10.0%	\$859	\$781	\$78	\$859	\$1,080	\$108	\$1,188
31	CONSTRUCTION MANAGEMENT	\$358	\$36	10.0%	\$394	\$358	\$36	\$394	\$496	\$50	\$545
	TOTAL PROJECT COSTS	\$15,466	\$1,547	10.0%	\$17,013	\$15,466	\$1,547	\$17,013	\$19,842	\$1,984	\$21,827

TOTAL PROJECT COST SUMMARIES

FY - 19

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$12,132	\$1,213	10.0%	\$13,345	\$12,132	\$1,213	\$13,345	\$15,772	\$1,577	\$17,349
	TOTAL CONSTRUCTION COST	\$12,132	\$1,213	10.0%	\$13,345	\$12,132	\$1,213	\$13,345	\$15,772	\$1,577	\$17,349
30	PLANNING, ENGINEERING AND DESIGN	\$781	\$78	10.0%	\$859	\$781	\$78	\$859	\$1,108	\$111	\$1,219
31	CONSTRUCTION MANAGEMENT	\$358	\$36	10.0%	\$394	\$358	\$36	\$394	\$509	\$51	\$559
	TOTAL PROJECT COSTS	\$13,271	\$1,327	10.0%	\$14,599	\$13,271	\$1,327	\$14,599	\$17,388	\$1,739	\$19,127

TOTAL PROJECT COST SUMMARIES

FY - 20

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$13,439	\$1,344	10.0%	\$14,783	\$13,439	\$1,344	\$14,783	\$17,821	\$1,782	\$19,603
	TOTAL CONSTRUCTION COST	\$13,439	\$1,344	10.0%	\$14,783	\$13,439	\$1,344	\$14,783	\$17,821	\$1,782	\$19,603
30	PLANNING, ENGINEERING AND DESIGN	\$781	\$78	10.0%	\$859	\$781	\$78	\$859	\$1,136	\$114	\$1,250
31	CONSTRUCTION MANAGEMENT	\$358	\$36	10.0%	\$394	\$358	\$36	\$394	\$522	\$52	\$574
	TOTAL PROJECT COSTS	\$14,579	\$1,458	10.0%	\$16,036	\$14,579	\$1,458	\$16,036	\$19,478	\$1,948	\$21,426

TOTAL PROJECT COST SUMMARIES

FY - 21

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$12,479	\$1,248	10.0%	\$13,727	\$12,479	\$1,248	\$13,727	\$16,885	\$1,688	\$18,573
	TOTAL CONSTRUCTION COST	\$12,479	\$1,248	10.0%	\$13,727	\$12,479	\$1,248	\$13,727	\$16,885	\$1,688	\$18,573
30	PLANNING, ENGINEERING AND DESIGN	\$781	\$78	10.0%	\$859	\$781	\$78	\$859	\$1,167	\$117	\$1,284
31	CONSTRUCTION MANAGEMENT	\$358	\$36	10.0%	\$394	\$358	\$36	\$394	\$536	\$54	\$589
	TOTAL PROJECT COSTS	\$13,619	\$1,362	10.0%	\$14,980	\$13,619	\$1,362	\$14,980	\$18,588	\$1,859	\$20,446

TOTAL PROJECT COST SUMMARIES

FY - 22

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$11,628	\$1,163	10.0%	\$12,791	\$11,628	\$1,163	\$12,791	\$16,047	\$1,605	\$17,652
	TOTAL CONSTRUCTION COST	\$11,628	\$1,163	10.0%	\$12,791	\$11,628	\$1,163	\$12,791	\$16,047	\$1,605	\$17,652
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,920	\$192	\$2,112
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$734	\$73	\$808
	TOTAL PROJECT COSTS	\$13,358	\$1,336	10.0%	\$14,693	\$13,358	\$1,336	\$14,693	\$18,702	\$1,870	\$20,572

TOTAL PROJECT COST SUMMARIES

FY - 23

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$6,179	\$618	10.0%	\$6,797	\$6,179	\$618	\$6,797	\$8,694	\$869	\$9,564
	TOTAL CONSTRUCTION COST	\$6,179	\$618	10.0%	\$6,797	\$6,179	\$618	\$6,797	\$8,694	\$869	\$9,564
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$1,972	\$197	\$2,170
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$754	\$75	\$830
	TOTAL PROJECT COSTS	\$7,908	\$791	10.0%	\$8,699	\$7,908	\$791	\$8,699	\$11,421	\$1,142	\$12,563

TOTAL PROJECT COST SUMMARIES

FY - 24

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$5,066	\$507	10.0%	\$5,572	\$5,066	\$507	\$5,572	\$7,270	\$727	\$7,996
	TOTAL CONSTRUCTION COST	\$5,066	\$507	10.0%	\$5,572	\$5,066	\$507	\$5,572	\$7,270	\$727	\$7,996
30	PLANNING, ENGINEERING AND DESIGN	\$1,251	\$125	10.0%	\$1,376	\$1,251	\$125	\$1,376	\$2,027	\$203	\$2,230
31	CONSTRUCTION MANAGEMENT	\$478	\$48	10.0%	\$526	\$478	\$48	\$526	\$776	\$78	\$853
	TOTAL PROJECT COSTS	\$6,795	\$680	10.0%	\$7,475	\$6,795	\$680	\$7,475	\$10,073	\$1,007	\$11,080

TOTAL PROJECT COST SUMMARIES

FY - 25

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$4,495	\$449	10.0%	\$4,944	\$4,495	\$449	\$4,944	\$6,670	\$667	\$7,337
	TOTAL CONSTRUCTION COST	\$4,495	\$449	10.0%	\$4,944	\$4,495	\$449	\$4,944	\$6,670	\$667	\$7,337
30	PLANNING, ENGINEERING AND DESIGN	\$1,099	\$110	10.0%	\$1,209	\$1,099	\$110	\$1,209	\$1,832	\$183	\$2,015
31	CONSTRUCTION MANAGEMENT	\$359	\$36	10.0%	\$395	\$359	\$36	\$395	\$599	\$60	\$659
	TOTAL PROJECT COSTS	\$5,953	\$595	10.0%	\$6,548	\$5,953	\$595	\$6,548	\$9,101	\$910	\$10,011

TOTAL PROJECT COST SUMMARIES

FY - 26

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$7,209	\$721	10.0%	\$7,929	\$7,209	\$721	\$7,929	\$10,770	\$1,077	\$11,846
	TOTAL CONSTRUCTION COST	\$7,209	\$721	10.0%	\$7,929	\$7,209	\$721	\$7,929	\$10,770	\$1,077	\$11,846
30	PLANNING, ENGINEERING AND DESIGN	\$1,099	\$110	10.0%	\$1,209	\$1,099	\$110	\$1,209	\$1,883	\$188	\$2,072
31	CONSTRUCTION MANAGEMENT	\$359	\$36	10.0%	\$395	\$359	\$36	\$395	\$616	\$62	\$677
	TOTAL PROJECT COSTS	\$8,667	\$867	10.0%	\$9,533	\$8,667	\$867	\$9,533	\$13,269	\$1,327	\$14,596

TOTAL PROJECT COST SUMMARIES

FY - 27

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$5,884	\$588	10.0%	\$6,473	\$5,884	\$588	\$6,473	\$8,968	\$897	\$9,865
	TOTAL CONSTRUCTION COST	\$5,884	\$588	10.0%	\$6,473	\$5,884	\$588	\$6,473	\$8,968	\$897	\$9,865
30	PLANNING, ENGINEERING AND DESIGN	\$1,099	\$110	10.0%	\$1,209	\$1,099	\$110	\$1,209	\$1,938	\$194	\$2,132
31	CONSTRUCTION MANAGEMENT	\$359	\$36	10.0%	\$395	\$359	\$36	\$395	\$633	\$63	\$697
	TOTAL PROJECT COSTS	\$7,343	\$734	10.0%	\$8,077	\$7,343	\$734	\$8,077	\$11,539	\$1,154	\$12,693

TOTAL PROJECT COST SUMMARIES

FY - 28

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$1,336	\$134	10.0%	\$1,470	\$1,336	\$134	\$1,470	\$2,078	\$208	\$2,286
	TOTAL CONSTRUCTION COST	\$1,336	\$134	10.0%	\$1,470	\$1,336	\$134	\$1,470	\$2,078	\$208	\$2,286
30	PLANNING, ENGINEERING AND DESIGN	\$940	\$94	10.0%	\$1,034	\$940	\$94	\$1,034	\$1,704	\$170	\$1,875
31	CONSTRUCTION MANAGEMENT	\$240	\$24	10.0%	\$264	\$240	\$24	\$264	\$435	\$44	\$479
	TOTAL PROJECT COSTS	\$2,516	\$252	10.0%	\$2,768	\$2,516	\$252	\$2,768	\$4,218	\$422	\$4,639

TOTAL PROJECT COST SUMMARIES

FY - 29

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$1,770	\$177	10.0%	\$1,947	\$1,770	\$177	\$1,947	\$2,807	\$281	\$3,088
	TOTAL CONSTRUCTION COST	\$1,770	\$177	10.0%	\$1,947	\$1,770	\$177	\$1,947	\$2,807	\$281	\$3,088
30	PLANNING, ENGINEERING AND DESIGN	\$940	\$94	10.0%	\$1,034	\$940	\$94	\$1,034	\$1,752	\$175	\$1,927
31	CONSTRUCTION MANAGEMENT	\$240	\$24	10.0%	\$264	\$240	\$24	\$264	\$447	\$45	\$492
	TOTAL PROJECT COSTS	\$2,950	\$295	10.0%	\$3,245	\$2,950	\$295	\$3,245	\$5,006	\$501	\$5,507

TOTAL PROJECT COST SUMMARIES

FY - 30

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$8,325	\$832	10.0%	\$9,157	\$8,325	\$832	\$9,157	\$13,470	\$1,347	\$14,817
	TOTAL CONSTRUCTION COST	\$8,325	\$832	10.0%	\$9,157	\$8,325	\$832	\$9,157	\$13,470	\$1,347	\$14,817
30	PLANNING, ENGINEERING AND DESIGN	\$940	\$94	10.0%	\$1,034	\$940	\$94	\$1,034	\$1,802	\$180	\$1,982
31	CONSTRUCTION MANAGEMENT	\$240	\$24	10.0%	\$264	\$240	\$24	\$264	\$460	\$46	\$506
	TOTAL PROJECT COSTS	\$9,505	\$950	10.0%	\$10,455	\$9,505	\$950	\$10,455	\$15,732	\$1,573	\$17,305

TOTAL PROJECT COST SUMMARIES

FY - 31

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$9,753	\$975	10.0%	\$10,728	\$9,753	\$975	\$10,728	\$16,102	\$1,610	\$17,712
	TOTAL CONSTRUCTION COST	\$9,753	\$975	10.0%	\$10,728	\$9,753	\$975	\$10,728	\$16,102	\$1,610	\$17,712
30	PLANNING, ENGINEERING AND DESIGN	\$940	\$94	10.0%	\$1,034	\$940	\$94	\$1,034	\$1,854	\$185	\$2,039
31	CONSTRUCTION MANAGEMENT	\$240	\$24	10.0%	\$264	\$240	\$24	\$264	\$473	\$47	\$521
	TOTAL PROJECT COSTS	\$10,933	\$1,093	10.0%	\$12,026	\$10,933	\$1,093	\$12,026	\$18,429	\$1,843	\$20,272

TOTAL PROJECT COST SUMMARIES

Building

THIS ESTIMATE IS BASED ON THE GRR STUDY, DATED SEPTEMBER 2005

PROJECT: POPLAR ISLAND EXPANSION STUDY

PREPARED BY : CENAB-EN-DT OLIVER LEIMBACH

LOCATION : POPLAR ISLAND, MARYLAND

P.O.C.: JOHN NAUROT, CHIEF, ESTIMATING & SPECIFICATIONS SECTION

ACCOUNT NUMBER	ITEM DESCRIPTION	CURRENT MCACES ESTIMATE 25 MAY 05 EFFECTIVE PRICING LEVEL 1OCT 04				AUTHORIZ./BUDGET YEAR * EFFECTIVE PRICING LEVEL:			FULLY FUNDED ESTIMATE		
		COST (\$K)	CNTG (\$K)	CNTG %	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	COST (\$K)	CNTG (\$K)	FULL (\$K)
12	NAVIGATION, PORTS & HARBORS	\$3,358	\$336	10.0%	\$3,694	\$3,358	\$336	\$3,694	\$3,358	\$336	\$3,694
	TOTAL CONSTRUCTION COST	\$3,358	\$336	10.0%	\$3,694	\$3,358	\$336	\$3,694	\$3,358	\$336	\$3,694
30	PLANNING, ENGINEERING AND DESIGN	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	CONSTRUCTION MANAGEMENT	\$0	\$0	#DIV/0!	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL PROJECT COSTS	\$3,358	\$336	10.0%	\$3,694	\$3,358	\$336	\$3,694	\$3,358	\$336	\$3,694