

20 May 1992

MEMORANDUM # 4 FOR STUDY TEAM

SUBJECT: Dauphin Island, AL, Section 14's - Team Meeting on Study Costs

1. Thank you for your prompt response to my panic stricken request for study and construction cost estimates. Y'all are a good team.
2. Copies of both estimates are attached for your information. As you can see, we are well over the limit for study cost sharing. In addition, only the protection of Fort Gaines seems to be feasible. I have already discussed these issues with Mike Henderson at the DIPBB and he is trying to raise the money.
3. We need to have a team meeting to go over all these numbers. Take a good hard look at yours. See if you can, with peace of mind, reduce them any. Don't stint yourself but be sure (as sure as you can be at this stage) that your estimates are firm. (Before anybody says anything, yes, I rounded up from the figure fours, but that's a trivial part of the problem.) It looks like we are going to have to tell Mr. Beville the sponsor can't afford our help. Let us be real sure of this before we tell him the bad news.
4. There will be a team meeting in the PD conference room at 1300 on Thursday, 28 May 1992. Please try to be there.



WALTER W. BURDIN, P.E.
Study Manager

CF:

Joe Ellsworth, EN-E
Ray Gustin, EN-FS
Greg Miller, EN-YD
Bernard Moseby, PD-FE
Doug Nester, PD-EC
Kevin McCauley, RE-P
Ashford Kettler, RE-A
Vernon Holmes, EN

EAST END DAUPHIN ISLAND, ALABAMA
 STUDY COSTS FOR FULL SECTION 14
 (Restore Fort Gaines Revetment)

Org Code	Office Name	Study Item	Estimated Cost
GC	Hydraulic Design	Hydraulic Design	\$6,000
FD	Soils Design	RipRap Layout & Design	\$9,500
	C,G,&P (Survey)	Site Surveys	\$6,000
DD	Cost Engineering	Construction Cost Estimates	\$6,000
TE	Economic Analysis	Economic Analysis	\$7,000
T	Coastal Environment	Environmental Docs	\$5,500
	Cultural Resources	Cultural Resources Check	\$1,500
		Real Estate Activities	\$5,000
HD	Engineering Support	Engineering Coordination	\$1,500
TD	Plan Development Section	Study Management	\$10,000
		Subtotal	\$58,000
		Contingencies	\$11,020
	Total		\$69,000

DAUPHIN ISLAND SHORELINE, ALABAMA
 STUDY COSTS FOR FULL SECTION 14 STUDY
 (Riprap Dune Base at Public Use Area)

Org Code	Office Name	Study Item	Estimated Cost
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GC	Hydraulic Design	Hydraulic Design	\$6,000
FD	Soils Design	Riprap Layout & Design	\$9,500
	C,G,&P (Survey)	Site Surveys	\$5,000
	Cost Engineering	Construction Cost Estimates	\$6,000
TE	Economic Analysis	Economic Analysis	\$6,000
T	Coastal Environment	Environmental Docs	\$5,500
	Cultural Resources	Cultural Resources Check	\$1,500
		Real Estate Activities	\$5,000
HD	Engineering Support	Engineering Coordination	\$1,500
TD	Plan Development Section	Study Management	\$10,000
		Subtotal	\$56,000
		Contingencies (20%)	\$11,200
	Total		\$67,000

EAST END DAUPHIN ISLAND, ALABAMA
SECTION 14 CONSTRUCTION COSTS
(Oct 92 Cost Levels, I = 8 1/2%)

Item	Unit	Unit Cost \$	Quantity	Total Cost \$
16 BANK STABILIZATION				
"SEAWALL"				
Stone	Tons	\$35.00	4700	\$164,500
Filter Cloth	Sq Yds	\$2.00	5705	\$11,410
GROIN REHAB (EXISTING)				
Stone	Tons	\$35.00	1760	\$61,600
GROIN REHAB (EXISTING)				
Stone	Tons	\$35.00	571	\$19,985
Filter Cloth	Sq Yds	\$2.00	704	\$1,408
SLOPE PROTECTION (S COAST)				
Stone	Tons	\$40.00	3,770	\$150,800
Filter Cloth	Sq Yds	\$2.00	3,972	\$7,944
Contingency				\$104,412
TOTAL CONSTRUCTION COST				\$522,059
30 PLANNING, ENGINEERING AND DESIGN				\$60,000
31 CONSTRUCTION MANAGEMENT				\$52,206
TOTAL FEDERAL COST				\$634,000
NON-FEDERAL COSTS				
Lands and Damages				\$50,000
Contingency				\$10,000
TOTAL NON-FEDERAL COST				\$60,000
TOTAL PROJECT CONSTRUCTION COST				\$694,000
DISTRIBUTION OF PROJECT FIRST COSTS				
FEDERAL SHARE-75% of Total Cost Up to \$500,000 Max				\$500,000
NON-FEDERAL SHARE-25% of Total Cost with credit for LERRD				\$194,000
TOTAL PROJECT CONSTRUCTION COST (CHECK TOTAL)				\$694,000

Item	Amount \$
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FEDERAL ANNUAL CHARGES	
Interest & Amortization	\$43,232
NON-FEDERAL ANNUAL CHARGES	
Interest & Amortization	\$16,774
Annual Maintenance	\$5,000
TOTAL NON-FEDERAL CHARGES	\$21,774
TOTAL ESTIMATED ANNUAL CHARGES	\$65,006
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AVERAGE ANNUAL EQUIVALENT BENEFITS	\$76,728
BENEFIT/ COST RATIO	1.18
NET BENEFITS	\$11,722

DAUPHIN ISLAND SHORELINE, ALABAMA
SECTION 14 CONSTRUCTION COSTS
(Oct 92 Cost Levels, I = 8 1/2%)

Item	Unit	Unit. Cost \$	Quantity	Total Cost \$
16 BANK STABILIZATION				
PIER BLANKET				
Stone	Tons	\$45.00	2,650	\$119,250
Filter Cloth	Sq Yds	\$2.50	2,285	\$5,713
SHORELINE PROTECTON				
Stone	Tons	\$40.00	6,894	\$275,760
Filter Cloth	Sq Yds	\$2.00	6,600	\$13,200
Contingency				\$103,481
TOTAL CONSTRUCTION COST				\$517,403
30 PLANNING, ENGINEERING AND DESIGN				\$60,000
31 CONSTRUCTION MANAGEMENT				\$51,740
TOTAL FEDERAL COST				\$629,000
NON-FEDERAL COSTS				
Lands and Damages				\$50,000
Contingency				\$10,000
TOTAL NON-FEDERAL COST				\$60,000
TOTAL PROJECT CONSTRUCTION COST				\$689,000
DISTRIBUTION OF PROJECT FIRST COSTS				
FEDERAL SHARE-75% of Total Cost Up to \$500,000 Max				\$500,000
NON-FEDERAL SHARE-25% of Total Cost with credit for LERRD				\$189,000
TOTAL PROJECT CONSTRUCTION COST (CHECK TOTAL)				\$689,000
Annual Charges for the Selected Plan				
Item				Amount \$
FEDERAL ANNUAL CHARGES				
Interest & Amortization				\$43,232

NON-FEDERAL ANNUAL CHARGES	
Interest & Amortization	\$16,342
Annual Maintenance	\$5,000
TOTAL NON-FEDERAL CHARGES	\$21,342

TOTAL ESTIMATED ANNUAL CHARGES	\$64,573
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AVERAGE ANNUAL EQUIVALENT BENEFITS	\$2,834 <i>bad</i>
BENEFIT/ COST RATIO	0.04 <i>Numbers</i>
NET BENEFITS	(\$61,739)
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