

GUADALUPE RIVER  
at VICTORIA, TEXAS  
(Victoria Levee)

Detailed Project Report

Section 205  
Small Flood Control Project

APPENDICES  
VOLUME II

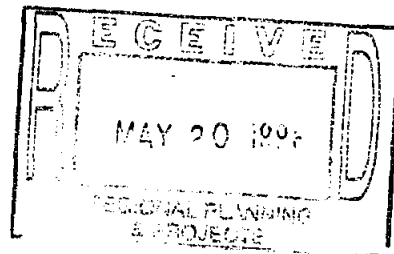
SOUTHWESTERN DIVISION  
U.S. ARMY ENGINEER DISTRICT, GALVESTON  
OCTOBER 1995

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

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GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

APPENDIX F

REAL ESTATE

GUADALUPE RIVER AT VICTORIA, TEXAS  
CITY OF VICTORIA FLOOD PROTECTION LEVEE  
REAL ESTATE SUPPLEMENT  
TO DETAILED PROJECT REPORT

General. The study area is situated in the Guadalupe River watershed in the immediate vicinity of Victoria, Texas. The city of Victoria is located approximately 123 miles from Houston, 116 miles from San Antonio and 85 miles from Corpus Christi. The January 1990 Reconnaissance Report was approved 3 May 1990.

Frequent river flooding results in frequent inundation of urban properties. The recommended plan providing flood protection consists of a system of levees and floodwalls, together with attendant interior drainage facilities, which will provide protection to the city from the 100-year flood.

The project authorization requires that the local sponsor provide without cost to the United States all lands, easements, rights-of-way, and disposal areas necessary for construction and maintenance of the project.

Lands, Easements and Rights-of-Way Required. Rights to be acquired for the project consist of permanent easements as described in the following paragraphs:

a. Levee Right-of-Way. The required acreage for proposed levee construction consists of approximately 33.1 acres of land. The existing levee on the proposed project reportedly was built by the Works Progress Administration and has not been maintained by the City of Victoria. No record can be found to show that an interest was acquired on the land the existing levee lies on. The minimum estate required for levee construction is a perpetual flood protection levee easement.

c. Borrow Areas. Approximately 22.7 acres of land are required for proposed borrow areas. The borrow areas will be used as ponding areas. The minimum estate required for borrow areas to be used as a ponding areas is a perpetual borrow easement.

d. Construction Access. No additional right-of-way will be needed for access. Existing roads and streets will be utilized to gain access to the project site.

e. Recreation Features. No real estate interests will be required for this project.

f. Mitigation. No real estate interests will be required for this project.

Relocation Assistance. No persons, farms, or businesses will be displaced by this project. There are no anticipated bridge or pipeline relocations. There are no known hazardous or toxic waste sites near this project.

Estimated Valuation. Preliminary real estate cost estimates have been furnished by Real Estate Division and include estimates for lands and damages and an allowance for contingencies. A gross appraisal is being prepared but has not been approved for this project. Fifty ownerships will be affected by the acquisition of land. Total real estate costs are estimated to be \$ 520,000.

GUADALUPE RIVER AT VICTORIA, TEXAS  
 CITY OF VICTORIA FLOOD PROTECTION LEVEE  
 PROJECT COST ESTIMATE

5-Jun-82

ACCOUNT CODE	ITEM	FEDERAL	NON-FEDERAL	TOTAL	CONTINGENCY TOTAL	REASON
	Total Labor Cost -->	\$0	OWNERSHIPS @ \$350,000	\$7,000		
01	LANDS AND DAMAGES					
01A-	PRE-AUTHORIZATION PLANNING	\$0	\$0	\$0	\$0	
01B-	POST-AUTHORIZATION PLANNING	\$10,500	\$10,500	\$21,000	\$3,150	15% (1)
01C-	LOCAL COOPERATIVE AGREEMENTS (LCA)	\$1,750	\$1,750	\$3,500	\$350	10% (2)
01D-	ACQUISITIONS	\$22,750	\$204,750	\$227,500	\$45,500	20% (3)
01E-	CONDEMNATIONS (POST-DT FILING)	\$1,400	\$12,600	\$14,000	\$1,400	10% (4)
01F-	APPRAISALS	\$6,300	\$56,700	\$63,000	\$3,150	5% (5)
01G-	AUDITS	\$0	\$0	\$0	\$0	
H-	RELOCATION ASSISTANCE	\$0	\$0	\$0	\$0	
01J-	DISPOSALS	\$0	\$0	\$0	\$0	
01K-	TEMPORARY PERMITS	\$2,100	\$18,900	\$21,000	\$1,260	6% (6)
01L-	ENCROACHMENTS AND TRESPASS	\$0	\$0	\$0	\$0	
	Total - Labor Cost	\$44,800	\$305,200	\$350,000	\$54,810	

GUADALUPE RIVER AT VICTORIA, TEXAS  
 CITY OF VICTORIA FLOOD PROTECTION LEVEE  
 PROJECT COST ESTIMATE

18-Jun-82

ACCOUNT CODE	ITEM	FEDERAL	NON-FEDERAL	TOTAL	CONTINGENCY TOTAL	REASON
01M-	REAL ESTATE PAYMENTS					
01M1-	Disposal Receipts-Reimbursements					
01M2-	Disposal Receipts-General Fund					
01M3-	Land Payments					
	Right-of-Way (Levee)					
	Proposed		\$30,000	\$30,000	\$7,500	25% (7)
	Proposed	10.0 Acres @ \$3,000 /Acre				
	Proposed	23.1 Acres @ \$1,000 /Acre	\$23,100	\$23,100	\$5,775	25% (7)
	Right-of-Way (Borrow)					
	Proposed		\$9,500	\$9,500	\$2,400	25% (7)
	Proposed	3.2 Acres @ \$3,000 /Acre				
	Proposed	19.5 Acres @ \$1,000 /Acre	\$19,500	\$19,500	\$4,875	25% (7)
	Improvements		\$0	\$0	\$0	
01M4-	Relocation Assistance Payments		\$0	\$0	\$0	
01M5-	Damage Payments		\$10,000	\$10,000	\$2,500	25% (7)
01M6-	All Other		\$0	\$0	\$0	
	Subtotal		\$92,200	\$92,200	\$23,050	
01	TOTAL - LANDS & DAMAGES	\$44,800	\$397,400	\$442,200	\$77,860	

GUADALUPE RIVER AT VICTORIA, TEXAS  
 CITY OF VICTORIA FLOOD PROTECTION LEVEE  
 PROJECT COST ESTIMATE

15-Jun-92

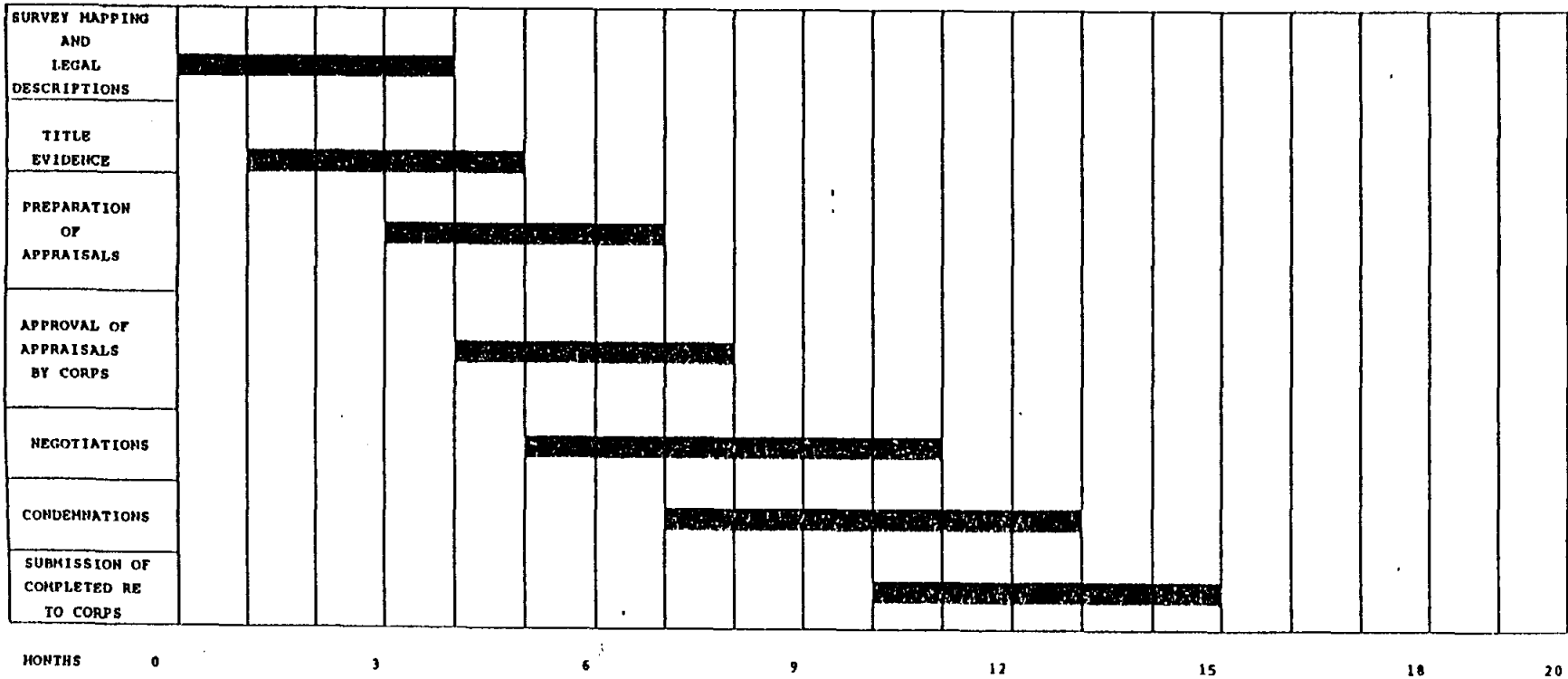
ACCOUNT CODE	ITEM	FEDERAL	NON-FEDERAL	TOTAL	CONTINGENCY TOTAL	REASON
REASONS FOR CONTINGENCIES						
	(1) Uncertainty of various ownerships and title problems.					
	(2) Uncertainty of agreement among parties involved.					
	(3) Uncertainty of negotiated land values, availability of land owners, and willingness of land owners to sell.					
	(4) Uncertainty of the number of condemnations that will be filed and the uncertainty of time and coordination the courts will take to try cases.					
	(5) Uncertainty of the number of appraisals needed because of condemnation or to establish a value for lands previously acquired by locals for crediting purposes.					
	(6) Uncertainty in the number of land owners affected.					
	(7) Uncertainty of final negotiated land values.					

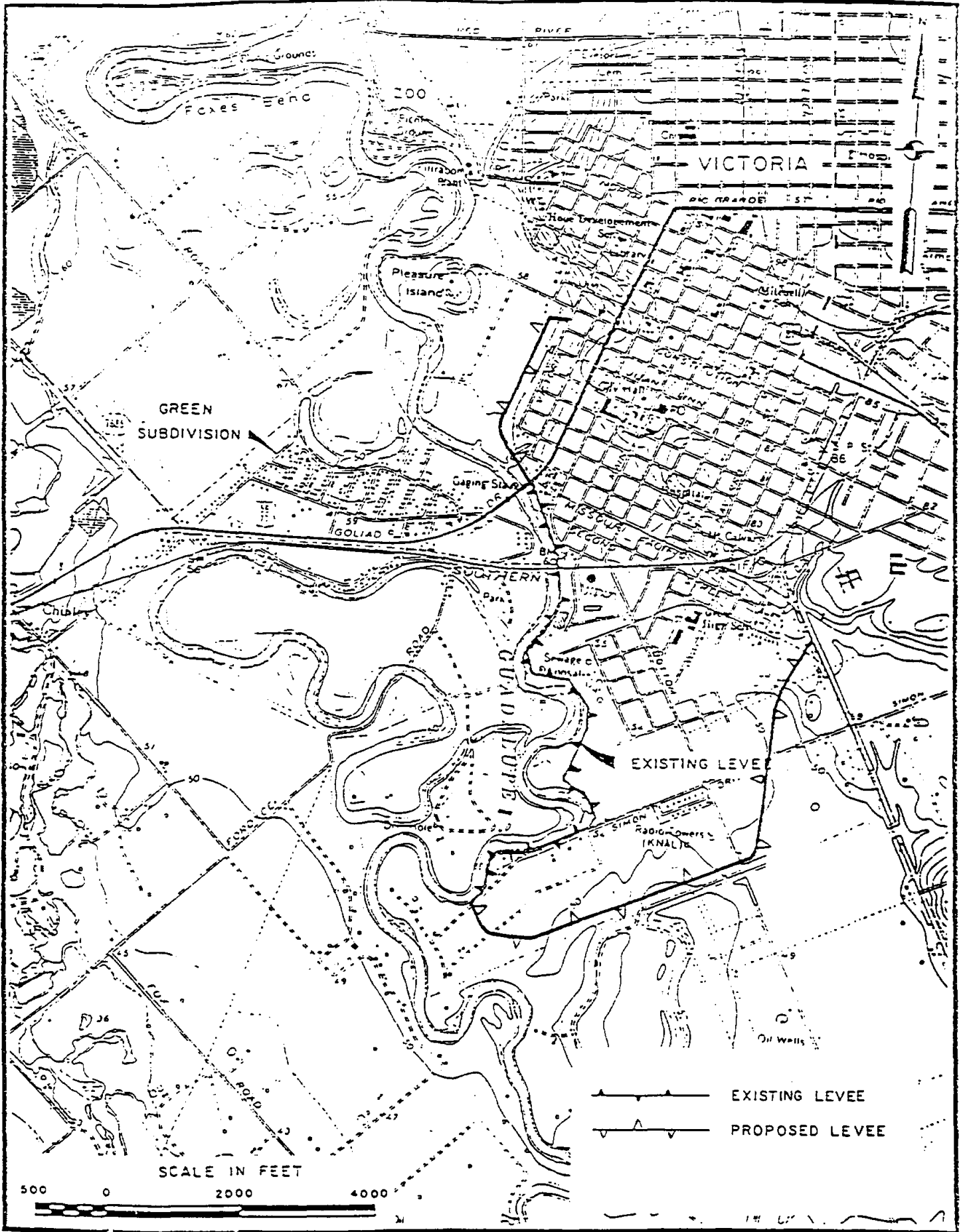


# REAL ESTATE ACQUISITION SCHEDULE

GUADALUPE RIVER AT VICTORIA, TEXAS

NO. OF TRACTS: 50





STUDY AREA MAP

18 Sep 95

MEMORANDUM FOR CESWG-PL, Attention: Mr. Mikel Morris, CESWG-PL-P

SUBJECT: Real Estate for Guadalupe River at Victoria, Texas Project, Detailed Project Report (Victoria Levee)

1. As discussed last week between Messrs. Richard Keelan and Mikel Morris of your office, enclosed are revisions to the February 1992 subject report. Please replace the second page of the narrative in Appendix F Real Estate with the enclosed revised paragraphs regarding "Relocation Assistance" and "Estimated Valuation." The enclosed project cost estimate should also replace the 1992 version to reflect the latest M-CACES.
2. If you have any additional questions, POC is Ms. Carol Hankamer, ext. 3804. Please provide a copy of the final report to this office.



CAROL D. HANKAMER  
Acting Chief, Real Estate Division

2 Encls

Relocation Assistance. Three single-family residences will be relocated by the project. No farms or businesses will be displaced by this project. There are no bridge or pipeline relocations. There are no known hazardous or toxic waste sites near this project.

Estimated Valuation. Estimated real estate costs for this project are based on a current approved gross appraisal. The cost estimate includes values for lands and damages and an allowance for contingencies. Fifty ownerships will be affected by this project. Real estate cost estimates of \$173,400 for lands and damages are included in the total estimate real estate costs of \$676,525. A contingency factor of 25 percent was added to the cost of the land and improvements.

GUADALUPE RIVER LEVEE AT VICTORIA (217-YEAR DESIGN)  
 City of Victoria Flood Protection Levee

PROJECT COST ESTIMATE

01	LANDS AND DAMAGES (50 ownerships @ \$7,000 ea)	Federal Costs	Federal Contingency	Total Federal (w/cont)	Non-Federal Costs	Non-Federal Contingency	Total Non-Federal (w/cont)
012302	Acquisitions	\$25,000	\$5,250	\$40,250	\$140,000	\$21,000	\$161,000
012303	Condemnations	4,375	656	5,031	17,500	2,625	20,125
012304	Leasing	0	0	0	0	0	0
012305	Appraisals	21,875	3,281	25,156	87,500	13,125	100,625
012306	PL 91-646 Assistance	0	0	0	0	0	0
012307	Temporary Permits/Licenses/R.O.W.	8,750	1,313	10,063	35,000	5,250	40,250
012308	Audits	0	0	0	0	0	0
012309	Encroachments and Trespass	0	0	0	0	0	0
012310	Disposals	0	0	0	0	0	0
012311	Real Property Accountability	0	0	0	0	0	0
012312	Project Related Administration	13,125	1,969	15,094	52,500	7,875	60,375
012313	Facility/Utility Relocations	0	0	0	0	0	0
012314	Withdrawals (Public Domain Land)	0	0	0	0	0	0
012315	Real Estate Payments	0	0	0	0	0	0
01231501	Land Payments	0	0	0	116,220	29,055	145,275
01231502	PL 91-646 Assistance Payments	0	0	0	7,500	1,875	9,375
01231503	Damage Payments	0	0	0	15,000	3,750	18,750
01231504	All Other Payments	0	0	0	0	0	0
012316	Real Estate Receipts	0	0	0	0	0	0
012317	LERRD Crediting	4,375	656	5,031	17,500	2,625	20,125
		\$87,500	\$13,125	\$100,625	\$488,720	\$87,180	\$575,900
	<b>TOTAL REAL ESTATE COSTS</b>	<b>\$676,525</b>					

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

APPENDIX G


COST ESTIMATES

BASELINE COST ESTIMATE

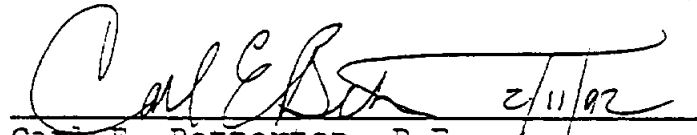
GUADALUPE RIVER AT VICTORIA, TEXAS  
SECTION 205 (FEASIBILITY STUDY)

PREPARED BY: U.S. Army Engineer District, Galveston

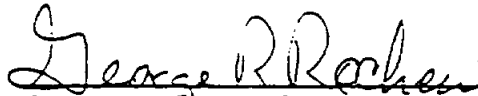
Account Code 01  
Approved By:

  
Richard N. Guthrie  
Chief, Real Estate Division

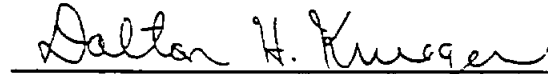
Account Code 30  
Approved By:

 2/11/92  
Carl E. Betterton, P.E.  
Chief, Engineering Division

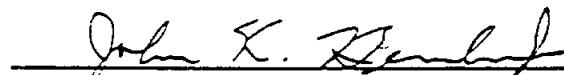
Account Code 31  
Approved By:

  
George R. Rothen, P.E.  
Chief, Construction-Operations Division


Fully Funded Estimate  
Approved By:

  
Dalton H. Krueger, P.E.  
Project Manager

Cost Estimate  
Approved By:

  
John K. Bember, Jr., P.E.  
Chief, Cost Engineering Branch

Reviewed By:

 2/12  
William G. Wooley, P.E.  
Deputy District Engineer  
for Project Management

PREPARATION DATE: JANUARY 1992

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
Drainage Culvert at Ben Jordan east of Bottom Street							
	Structural excavation	130	CY	2.32	302	91	30%
	Install 42" RCP, Class I	160	LF	54.70	8,752	2,626	30%
	Precast concrete headwall	4	EA	676.00	2,704	811	30%
	Backfill w/hand compaction	28	CY	4.00	112	34	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	78	CY	1.12	87	26	30%
	Remove roadway	16	SY	1.80	29	9	30%
Drainage Culvert at Bottom Street							
	Structural excavation	163	CY	2.32	378	113	30%
	Install 36" RCP, Class I	300	LF	43.90	13,170	3,951	30%
	Precast concrete headwall	2	EA	1,108.00	2,216	665	30%
	Backfill w/hand compaction	57	CY	4.00	228	68	30%
	Backfill w/machine compact	49	CY	2.65	130	39	30%
	Haul excess excavation	57	CY	1.12	64	19	30%
Drainage Culvert at Church Street							
	Structural excavation	76	CY	2.32	176	53	30%
	Install 48" RCP, Class I	50	LF	65.10	3,255	977	30%
	Precast concrete headwall	2	EA	766.00	1,532	460	30%
	Backfill w/hand compaction	29	CY	4.00	116	35	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	23	CY	1.12	26	8	30%
	Remove roadway	13	SY	1.80	23	7	30%
Drainage Culvert at Victoria Street							
	Structural excavation	4	CY	2.32	9	3	30%
	Install 12" RCP, Class I	22	LF	9.30	205	62	30%
	Precast concrete headwall	2	EA	271.00	542	163	30%
	Backfill w/hand compaction	2	CY	4.00	8	2	30%
	Backfill w/machine compact	2	CY	2.65	5	2	30%
	Ditch excavation	152	CY	2.12	322	97	30%
Drainage Structure at South Outfall							
	Stripping	16,660	SY	0.34	-5,664	1,699	30%
	Structural excavation	3,664	CY	2.32	8,500	2,550	30%
	Concrete gatewell	75	CY	350.00	26,250	7,875	30%
	Sluice gate, 5' x 5'	6	EA	14,500.00	87,000	26,100	30%
	Cast-in-place concrete	108	CY	350.00	37,800	11,340	30%
	48" RCP, Class IV	1,383	LF	92.75	128,273	38,482	30%
	Regrade dirt roadway	1,400	SY	0.60	840	252	30%
	Backfill w/hand compaction	1,610	CY	4.00	6,440	1,932	30%
	Backfill w/machine compact	1,414	CY	2.65	3,747	1,124	30%
	Haul excess excavation	832	CY	1.12	932	280	30%
	Topsoil	16,660	SY	0.83	13,828	4,148	30%
	Seed and fertilize	16,660	SY	0.37	6,164	1,849	30%



GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
	Drainage Structure at Water Street						
	Remove existing structure	1	LS	1,500.00	1,500	450	30%
	Stripping	150	SY	0.34	51	15	30%
	Structural excavation	400	CY	2.32	928	278	30%
	Install 72" RCP	60	LF	115.00	6,900	2,070	30%
	Cast-in-place concrete	93	CY	350.00	32,550	9,765	30%
	Sluice gate, 6'x 6'	1	EA	16,000.00	16,000	4,800	30%
	Flap gate, 6'x 6'	1	EA	17,000.00	17,000	5,100	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	18	CY	16.50	297	89	30%
	Backfill w/hand compaction	120	CY	4.00	480	144	30%
	Backfill w/machine compact	1,400	CY	2.65	3,710	1,113	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	150	SY	0.83	125	38	30%
	Seed and fertilize	150	SY	0.37	56	17	30%
	Closure Structure at Highway 59						
	Structural excavation	10	CY	2.32	23	7	30%
	Cast-in-place concrete	5	CY	350.00	1,750	525	30%
	Steel panels w/hardware	5	EA	8,400.00	42,000	12,600	30%
	Backfill w/hand compaction	8	CY	4.00	32	10	30%
	Topsoil	16	SY	0.83	13	4	30%
	Seed and fertilize	16	SY	0.37	6	2	30%
	Metal building w/slab	1	LS	48,900.00	48,900	14,670	30%
	Railroad Closure Structure						
	Structural excavation	10	CY	2.32	23	7	30%
	Cast-in-place concrete	5	CY	350.00	1,750	525	30%
	Steel panels w/hardware	1	EA	13,400.00	13,400	4,020	30%
	Backfill w/hand compaction	8	CY	4.00	32	10	30%
	Topsoil	16	SY	0.83	13	4	30%
	Seed and fertilize	16	SY	0.37	6	2	30%
	Structural Wall at CP&L Power Plant						
	Structural excavation	50	CY	2.32	116	35	30%
	Steel plate buttresses	51,100	LBS	2.63	134,393	40,318	30%
	Cast-in-place concrete	68	CY	350.00	23,800	7,140	30%
	Backfill w/hand compaction	25	CY	4.00	100	30	30%
	Haul excess excavation	25	CY	1.12	28	8	30%
					=====	=====	
	Subtotal, Levees and Floodwalls (rounded)				2,743,000		
	Contingencies (rounded)					827,000	
11	TOTAL -- LEVEES AND FLOODWALLS				3,570,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				507,220	72,460	
	Subtotal, Planning, Engineering & Design (rounded)				507,000		
	Contingencies (rounded)					72,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				579,000		
31	CONSTRUCTION MANAGEMENT						
	Construction Management				289,840	72,460	
	Subtotal, Construction Management (rounded)				290,000		
	Contingencies (rounded)					72,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				362,000		
	Subtotal, Project Costs				4,129,000		
	Subtotal, Contingencies					1,087,000	
	TOTAL CURRENT PROJECT COST				5,216,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 500-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01B--	Post-Authorization Planning	1	LS	21,000.00	21,000	3,150	15%
01C--	Local Cooperative Agreements	1	LS	17,500.00	17,500	1,750	10%
01D--	Acquisitions	1	LS	213,500.00	213,500	42,700	20%
01E--	Condemnations (Post-DT Filing)	1	LS	14,000.00	14,000	2,800	20%
01F--	Appraisals	1	LS	63,000.00	63,000	3,150	5%
01K--	Temporary Permits	1	LS	21,000.00	21,000	1,260	6%
01M--	Real Estate Payments						
01M3-	Land Payments						
	Proposed levee R.O.W.	38.6	ACR	3,000.00	115,800	28,950	25%
	Exist. & prop. levee R.O.W.	23.1	ACR	1,000.00	23,100	5,775	25%
	Proposed borrow R.O.W.	4.5	ACR	3,000.00	13,500	3,375	25%
	Proposed borrow R.O.W.	44.8	ACR	1,000.00	44,800	11,200	25%
01M5-	Damage Payments	1	LS	10,000.00	10,000	2,500	25%
	Subtotal, Lands and Damages (rounded)				557,000		
	Contingencies (rounded)					107,000	
01	TOTAL -- LANDS AND DAMAGES				664,000		
02	RELOCATIONS						
023--	Cemetaries, Utilities and Structures						
0232-	Utility Relocations						
	Relocate CP&L power poles	15	EA	550.00	8,250	2,475	30%
	Raise CP&L power lines	450	LF	8.00	3,600	1,080	30%
	Relocate telephone manhole	1	EA	1,200.00	1,200	360	30%
	Relocate tele. junction box	3	EA	1,500.00	4,500	1,350	30%
	Raise telephone line	200	LF	4.00	800	240	30%
	Raise cable T.V. line	280	LF	4.00	1,120	336	30%
	Relocate concrete chute	1	EA	1,400.00	1,400	420	30%
	Extend 15" concrete pipe	16	LF	10.57	169	51	30%
	Raise san. sewer manhole	1	EA	1,000.00	1,000	300	30%
	Subtotal, Utility Relocations				22,039	6,612	

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 500-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
0232-	Structure Relocations						
	Remv/reinstall chain link	2,770	LF	4.90	13,573	4,072	30%
	Replace barbed wire fence	1,750	LF	3.00	5,250	1,575	30%
	Relocate house trailer	1	EA	750.00	750	225	30%
	Subtotal, Structure Relocations				19,573	5,872	
	Subtotal, Relocations (rounded)				42,000		
	Contingencies (rounded)					12,000	
02	TOTAL -- RELOCATIONS				54,000		
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Demolition						
	Remove roadway	4,218	SY	1.80	7,592	2,278	30%
	Remove chicken shed	400	SF	3.20	1,280	448	35%
	Remove house	1,700	SF	4.75	8,075	2,826	35%
	Remove tin shed	2,250	SF	3.20	7,200	2,520	35%
	Remove concrete RR dock	16	CY	550.00	8,800	3,080	35%
	Remove concrete tank	6	CY	550.00	3,300	1,155	35%
	Remove chain link fencing	1,000	LF	0.80	800	240	30%
	Clearing, Grubbing & Debris Removal						
	Borrow areas	8.0	ACR	2,300.00	18,400	6,440	35%
	Levee rehab	6.2	ACR	3,460.00	21,452	7,508	35%
	New levee	7.8	ACR	2,800.00	21,840	7,644	35%
	Stripping						
	Borrow areas	193,000	SY	0.34	65,620	19,686	30%
	Levee rehab	41,000	SY	0.34	13,940	4,182	30%
	New levee	85,000	SY	0.34	28,900	8,670	30%
	Levee Construction						
	Levee (sidecast)	70,000	CY	3.45	241,500	72,450	30%
	Levee (1.5-mile haul)	47,000	CY	4.71	221,370	66,411	30%
	Levee (2.0-mile haul)	163,000	CY	5.14	837,820	251,346	30%
	Turfing						
	Topsoil	129,500	SY	0.83	107,485	32,246	30%
	Seed, mulch & fertilize	26.7	ACR	2,967.00	79,219	23,766	30%
	Asphalt Paving for New Ramps/Roadways						
	Aggregate base course	655	CY	32.60	21,353	6,406	30%
	Bituminous prime coat	1,005	CSF	0.80	804	241	30%
	Bituminous surface course	251	TON	34.60	8,685	2,606	30%
	Gravel surface course	21	CY	32.60	685	206	30%
	Install Barrier Gate	1	EA	1,000.00	1,000	300	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 500-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
	Drainage Culvert at Ben Jordan east of Bottom Street						
	Structural excavation	160	CY	2.32	371	111	30%
	Install 42" RCP, Class I	160	LF	54.70	8,752	2,626	30%
	Precast concrete headwall	4	EA	676.00	2,704	811	30%
	Backfill w/hand compaction	28	CY	4.00	112	34	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	78	CY	1.12	87	26	30%
	Remove roadway	16	SY	1.80	29	9	30%
	Drainage Culvert at Bottom Street						
	Structural excavation	163	CY	2.32	378	113	30%
	Install 36" RCP, Class I	300	LF	43.90	13,170	3,951	30%
	Precast concrete headwall	2	EA	1,108.00	2,216	665	30%
	Backfill w/hand compaction	57	CY	4.00	228	68	30%
	Backfill w/machine compact	49	CY	2.65	130	39	30%
	Haul excess excavation	57	CY	1.12	64	19	30%
	Drainage Culvert at Church Street						
	Structural excavation	76	CY	2.32	176	53	30%
	Install 48" RCP, Class I	50	LF	65.10	3,255	977	30%
	Precast concrete headwall	2	EA	766.00	1,532	460	30%
	Backfill w/hand compaction	29	CY	4.00	116	35	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	23	CY	1.12	26	8	30%
	Remove roadway	13	SY	1.80	23	7	30%
	Drainage Culvert at Victoria Street						
	Structural excavation	4	CY	2.32	9	3	30%
	Install 12" RCP, Class I	22	LF	9.30	205	62	30%
	Precast concrete headwall	2	EA	271.00	542	163	30%
	Backfill w/hand compaction	2	CY	4.00	8	2	30%
	Backfill w/machine compact	2	CY	2.65	5	2	30%
	Ditch excavation	152	CY	2.12	322	97	30%
	Drainage Structure at South Outfall						
	Stripping	16,870	SY	0.34	5,736	1,721	30%
	Structural excavation	3,664	CY	2.32	8,500	2,550	30%
	Concrete gatewell	75	CY	350.00	26,250	7,875	30%
	Sluice gate, 5' x 5'	6	EA	14,500.00	87,000	26,100	30%
	Cast-in-place concrete	112	CY	350.00	39,200	11,760	30%
	48" RCP, Class IV	1,386	LF	92.75	128,552	38,566	30%
	Regrade dirt roadway	1,400	SY	0.60	840	252	30%
	Backfill w/hand compaction	1,610	CY	4.00	6,440	1,932	30%
	Backfill w/machine compact	1,414	CY	2.65	3,747	1,124	30%
	Haul excess excavation	832	CY	1.12	932	280	30%
	Topsoil	16,870	SY	0.83	14,002	4,201	30%
	Seed and fertilize	16,870	SY	0.37	6,242	1,873	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
FEASIBILITY STUDY  
500-YEAR DESIGN  
JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
Drainage Structure at Elder Street							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	2,000	SY	0.34	680	204	30%
	Structural excavation	9,300	CY	2.32	21,576	6,473	30%
	Install 60" RCP, Class IV	151	LF	97.00	14,647	4,394	30%
	Cast-in-place concrete	67	CY	350.00	23,450	7,035	30%
	Sluice gate, 5'x 5'	1	EA	14,500.00	14,500	4,350	30%
	Sand bedding material	55	CY	16.50	908	272	30%
	Backfill w/hand compaction	2,145	CY	4.00	8,580	2,574	30%
	Backfill w/machine compact	7,100	CY	2.65	18,815	5,645	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	2,000	SY	0.83	1,660	498	30%
	Seed and fertilize	2,000	SY	0.37	740	222	30%
Drainage Structure at Wastewater Plant							
	Remove existing structure	1	LS	500.00	500	150	30%
	Stripping	250	SY	0.34	85	26	30%
	Structural excavation	3,000	CY	2.32	6,960	2,088	30%
	Install 48" RCP, Class IV	38	LF	65.20	2,478	743	30%
	Cast-in-place concrete	52	CY	350.00	18,200	5,460	30%
	Sluice gate, 4'x 4'	1	EA	9,500.00	9,500	2,850	30%
	Miscellaneous steel	500	LBS	0.60	300	90	30%
	Sand bedding material	13	CY	16.50	215	65	30%
	Backfill w/hand compaction	100	CY	4.00	400	120	30%
	Backfill w/machine compact	2,887	CY	2.65	7,651	2,295	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	250	SY	0.83	208	62	30%
	Seed and fertilize	250	SY	0.37	93	28	30%
Drainage Structure at Glass & Second Streets							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	300	SY	0.34	102	31	30%
	Structural excavation	1,000	CY	2.32	2,320	696	30%
	Install 12'x 6' box culvert	10	LF	330.00	3,300	990	30%
	Cast-in-place concrete	177	CY	350.00	61,950	18,585	30%
	Sluice gate, 10'x 7'	1	EA	47,500.00	47,500	14,250	30%
	Flap gate, 6'x 6'	2	EA	17,000.00	34,000	10,200	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	100	CY	16.50	1,650	495	30%
	Backfill w/hand compaction	200	CY	4.00	800	240	30%
	Backfill w/machine compact	800	CY	2.65	2,120	636	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	300	SY	0.83	249	75	30%
	Seed and fertilize	300	SY	0.37	111	33	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 500-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
	Drainage Structure at Water Street						
	Remove existing structure	1	LS	1,500.00	1,500	450	30%
	Stripping	.150	SY	0.34	51	15	30%
	Structural excavation	400	CY	2.32	928	278	30%
	Install 72" RCP	63	LF	115.00	7,245	2,174	30%
	Cast-in-place concrete	94	CY	350.00	32,900	9,870	30%
	Sluice gate, 6'x 6'	1	EA	16,000.00	16,000	4,800	30%
	Flap gate, 6'x 6'	1	EA	17,000.00	17,000	5,100	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	18	CY	16.50	297	89	30%
	Backfill w/hand compaction	120	CY	4.00	480	144	30%
	Backfill w/machine compact	1,400	CY	2.65	3,710	1,113	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,620	26,346	30%
	Topsoil	150	SY	0.83	125	38	30%
	Seed and fertilize	150	SY	0.37	56	17	30%
	Closure Structure at Highway 59						
	Structural excavation	10	CY	2.32	23	7	30%
	Cast-in-place concrete	6	CY	350.00	2,100	630	30%
	Steel panels w/hardware	5	EA	8,500.00	42,500	12,750	30%
	Backfill w/hand compaction	8	CY	4.00	32	10	30%
	Topsoil	16	SY	0.83	13	4	30%
	Seed and fertilize	16	SY	0.37	6	2	30%
	Metal building w/slab	1	LS	48,900.00	48,900	14,670	30%
	Railroad Closure Structure						
	Structural excavation	10	CY	2.32	23	7	30%
	Cast-in-place concrete	5	CY	350.00	1,750	525	30%
	Steel panels w/hardware	1	EA	13,500.00	13,500	4,050	30%
	Backfill w/hand compaction	8	CY	4.00	32	10	30%
	Topsoil	16	SY	0.83	13	4	30%
	Seed and fertilize	16	SY	0.37	6	2	30%
	Structural Wall at CP&L Power Plant						
	Structural excavation	50	CY	2.32	116	35	30%
	Steel plate buttresses	76,650	LBS	3.50	268,275	80,483	30%
	Cast-in-place concrete	102	CY	350.00	35,700	10,710	30%
	Backfill w/hand compaction	25	CY	4.00	100	30	30%
	Haul excess excavation	25	CY	1.12	28	8	30%
					=====	=====	
	Subtotal, Levees and Floodwalls (rounded)				3,244,000		
	Contingencies (rounded)					978,000	
11	TOTAL -- LEVEES AND FLOODWALLS				4,222,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 500-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				598,640	85,520	
	Subtotal, Planning, Engineering & Design (rounded)				=====	=====	
	Contingencies (rounded)					86,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				685,000		
31	CONSTRUCTION MANAGEMENT						
	Construction Management				342,080	85,520	
	Subtotal, Construction Management (rounded)				=====	=====	
	Contingencies (rounded)					86,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				428,000		
	Subtotal, Project Costs				=====	=====	
	Subtotal, Contingencies					1,269,000	
	TOTAL CURRENT PROJECT COST				6,053,000		



GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 RIVER DIVERSION -- 200' CHANNEL  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01M--	Real Estate Payments						
01M3-	Land Payments						
	Proposed R.O.W.	220	ACR	3,000.00	660,000	165,000	25%
	Proposed disposal R.O.W.	25	ACR	3,000.00	75,000	18,750	25%
	Subtotal, Lands and Damages (rounded)				735,000		
	Contingencies (rounded)					184,000	
01	TOTAL -- LANDS AND DAMAGES				919,000		
02	RELOCATIONS						
	RR bridge modification	500	LF	1,820.00	910,000	273,000	30%
	R&R unimproved road	2,700	SY	3.60	9,720	2,916	30%
	R&R light road	5,000	SY	30.80	154,000	46,200	30%
	Bridge at Forcyce	15,000	SF	42.00	630,000	189,000	30%
	New bridge at farm road 1685	15,000	SF	42.00	630,000	189,000	30%
	Highway 59 bridge modification	50,000	SF	49.00	2,450,000	735,000	30%
	Transmission Tower	8	EA	75,000.00	600,000	180,000	30%
	R&R Pipelines						
	R&R 2" Valero	400	LF	111.70	44,680	13,404	30%
	R&R 6" Deihl	800	LF	152.95	122,360	36,708	30%
	R&R 18" H.L.P. Co.	400	LF	422.88	169,152	50,746	30%
	Subtotal, Relocations (rounded)				5,720,000		
	Contingencies (rounded)					1,716,000	
02	TOTAL -- RELOCATIONS				7,436,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 RIVER DIVERSION -- 200' CHANNEL  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
15	FLOODWAY CONTROL AND DIVERSION STRUCTURES						
	Clearing & Grubbing						
	Channel areas	155	ACR	2,300.00	356,500	124,775	35%
	Stripping						
	Channel areas	1,115,400	SY	0.34	379,236	113,771	30%
	Disposal areas	121,000	SY	0.34	41,140	12,342	30%
	Channel Construction						
	Channel excavation	6,300,000	CY	2.32	14,616,000	4,384,800	30%
	Levee material	300,000	CY	3.45	1,035,000	310,500	30%
	Haul excavation (2.3 miles)	600,000	CY	4.50	2,700,000	810,000	30%
	Drainage Culvert Diversion						
	Bridge drainage system	32	EA	15,000.00	480,000	144,000	30%
	Channel span drainage	32	EA	15,000.00	480,000	144,000	30%
	Turfing						
	Topsoil	1,164,806	SY	0.83	966,789	290,037	30%
	Seed, mulch & fertilize	241	ACR	2,967.00	715,047	214,514	30%
					=====	=====	
	Subtotal, Floodway Control and Diversion Structures (rounded)				21,770,000		
	Contingencies (rounded)					6,549,000	
15	TOTAL -- FLOODWAY CONTROL AND DIVERSION STRUCTURES				28,319,000		
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				1,787,750	357,550	
					=====	=====	
	Subtotal, Planning, Engineering & Design (rounded)				1,788,000		
	Contingencies (rounded)					358,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				2,146,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 RIVER DIVERSION -- 200' CHANNEL  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
31	CONSTRUCTION MANAGEMENT						
	Construction Management				2,145,300	715,100	
	Subtotal, Construction Management (rounded)				=====	=====	
	Contingencies (rounded)					715,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				2,860,000		
	Subtotal, Project Costs				=====	=====	
	Subtotal, Contingencies					9,522,000	
	TOTAL CURRENT PROJECT COST (excluding mitigation costs)				41,680,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 RIVER DIVERSION -- 1,300' CHANNEL  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01M--	Real Estate Payments						
01MS-	Land Payments						
	Proposed R.O.W.	882	ACR	3,000.00	2,646,000	661,500	25%
	Proposed disposal R.O.W.	130	ACR	3,000.00	390,000	97,500	25%
	Subtotal, Lands and Damages (rounded)				3,036,000		
	Contingencies (rounded)					759,000	
01	TOTAL -- LANDS AND DAMAGES				3,795,000		
02	RELOCATIONS						
	New railway bridge	1,500	LF	1,800.00	2,700,000	810,000	30%
	R&R unimproved road	2,700	LF	3.60	9,720	2,916	30%
	R&R light road	7,000	SY	30.80	215,600	64,680	30%
	New bridge farm road 1685	45,000	SF	42.00	1,890,000	567,000	30%
	Bridge at Forcyce	45,000	SF	42.00	1,890,000	567,000	30%
	New Highway 59 bridge	75,000	SF	49.00	3,675,000	1,102,500	30%
	R&R Telephone System Concrete						
	Encased 3MHS + Conduit panel	1	LS	450,000.00	450,000	135,000	30%
	R&R pipelines						
	R&R 2" Valero	1,550	LF	106.65	165,308	49,592	30%
	R&R 6" Deihl (2 loc.)	3,500	LF	140.45	491,575	147,473	30%
	R&R 18" H.L.P. Co.	1,550	LF	321.66	498,573	149,572	30%
	Transmission Towers	12	EA	75,000.00	900,000	270,000	30%
	Subtotal, Relocations (rounded)				12,886,000		
	Contingencies (rounded)					3,866,000	
02	TOTAL -- RELOCATIONS				16,752,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 RIVER DIVERSION -- 1,300' CHANNEL  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
15	FLOODWAY CONTROL AND DIVERSION STRUCTURES						
	Clearing & Grubbing						
	Channel areas	620	ACR	2,300.00	1,426,000	499,100	35%
	Stripping						
	Channel areas	4,300,000	SY	0.34	1,462,000	438,600	30%
	Disposal areas	630,000	SY	0.34	214,200	64,260	30%
	Channel Construction						
	Channel excavation	31,500,000	CY	2.32	73,080,000	21,924,000	30%
	Haul excavation (2.3 miles)	31,500,000	CY	4.50	141,750,000	42,525,000	30%
	Drainage Culvert Diversion						
	Bridge drainage system	32	EA	15,000.00	480,000	144,000	30%
	Channel span drainage	32	EA	15,000.00	480,000	144,000	30%
	Turfing						
	Topsoil	4,133,300	SY	0.83	3,430,639	1,029,192	30%
	Seed, mulch & fertilize	854	ACR	2,967.00	2,533,818	760,145	30%
					=====	=====	
	Subtotal, Floodway Control and Diversion Structures (rounded)				224,857,000		
	Contingencies (rounded)					67,528,000	
15	TOTAL -- FLOODWAY CONTROL AND DIVERSION STRUCTURES					292,385,000	
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				9,274,110	3,091,370	
					=====	=====	
	Subtotal, Planning, Engineering & Design (rounded)				9,274,000		
	Contingencies (rounded)					3,091,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN					12,365,000	

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 RIVER DIVERSION -- 1,300' CHANNEL  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
31	CONSTRUCTION MANAGEMENT						
	Construction Management				12,365,480	3,091,370	
					=====	=====	
	Subtotal, Construction Management (rounded)				12,365,000		
	Contingencies (rounded)					3,091,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				15,456,000		
					=====	=====	
	Subtotal, Project Costs				262,418,000		
	Subtotal, Contingencies					78,335,000	
	TOTAL CURRENT PROJECT COST (excluding mitigation costs)				340,753,000		

RING LEVEE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
*** Non-Federal Project Costs ***							
01	LANDS AND DAMAGES						
	Acquisition Costs	15	EA	3,000.00	45,000	15,750	35%
	R.O.W. and Borrow	50	ACR	2,500.00	125,000	31,250	25%
					<u>170,000</u>	<u>47,000</u>	
	Subtotal, Lands & Damages (rounded)				170,000		
	Subtotal, Contingencies (rounded)					47,000	
01	TOTAL -- LANDS AND DAMAGES				217,000		
02	RELOCATIONS						
	Misc. Utilities along Hwy 59	1	LS	0.00	0	0	50%
	Relocate Power Poles	5	EA	1,500.00	7,500	2,625	35%
					<u>8,000</u>	<u>3,000</u>	
	Subtotal, Relocations (rounded)				8,000		
	Subtotal, Contingencies (rounded)					3,000	
02	TOTAL -- RELOCATIONS				11,000		
30	PLANNING, ENGINEERING AND DESIGN						
	Planning, Engineering and Design				1,000	0	
					<u>1,000</u>	<u>0</u>	
	Subtotal, Planning, Engineering and Design (rounded)				1,000		
	Subtotal, Contingencies (rounded)					0	
30	TOTAL -- PLANNING, ENGINEERING AND DESIGN				1,000		

RING LEVEE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
*** Non-Federal Project Costs ***							
31	CONSTRUCTION MANAGEMENT						
	Construction Management				1,000	0	
					=====	=====	
	Subtotal, Construction Management (rounded)				1,000		
	Subtotal, Contingencies (rounded)					0	
31	TOTAL -- CONSTRUCTION MANAGEMENT				1,000		
					=====	=====	
	Subtotal, Non-Federal Project Costs				180,000		
	Subtotal, Contingencies					50,000	
	Additional Non-Federal 5% Contribution				104,000		
	TOTAL NON-FEDERAL PROJECT COSTS (excluding utility relocations along Hwy 59)				\$334,000		



RING LEVEE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
*** Federal Project Costs ***							
01	LANDS AND DAMAGES						
	Acquisition Costs	15	EA	500.00	7,500	2,625	35%
	Subtotal, Lands & Damages (rounded)				8,000		
	Subtotal, Contingencies (rounded)					3,000	
01	TOTAL -- LANDS AND DAMAGES				11,000		
11	LEVEES AND FLOODWALLS						
	Clear, Grub, Debris Removal	4.5	AC	3,045.00	13,703	5,481	40%
	Remove Existing Buildings	1	LS	60,000.00	60,000	18,000	30%
	Remove Existing Roadway	900	CY	13.20	11,880	3,564	30%
	Stripping	172,000	SY	0.40	68,800	24,080	35%
	Levee Construction	155,000	CY	4.80	744,000	186,000	25%
	Drainage Structure						
	Structural Excavation	890	CY	2.20	1,958	685	35%
	48" RCP	1,000	LF	75.00	75,000	18,750	25%
	Concrete Headwall w/Flap Gate	1	EA	9,990.00	9,990	2,997	30%
	Structural Backfill	800	CY	4.30	3,440	1,204	35%
	Topsoil	55,000	SY	1.00	55,000	19,250	35%
	Seeding & Mulching	11.5	ACR	2,730.00	31,395	7,849	25%
	Watering	296	MGAL	21.00	6,216	1,554	25%
	New Ramps and Roadway						
	Aggregate Base Course	1600	CY	36.75	58,800	20,580	35%
	Bituminous Prime Coat	1,100	GAL	1.90	2,090	732	35%
	Asphaltic Concrete	700	TON	47.25	33,075	11,576	35%
	Subtotal, Levees and Floodwalls (rounded)				1,175,000		
	Contingencies (rounded)					322,000	
11	TOTAL -- LEVEES AND FLOODWALLS				1,497,000		

RING LEVEE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
*** Federal Project Costs ***							
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				165,000	45,000	
	Subtotal, Planning, Engineering & Design (rounded)				=====	=====	
	Contingencies (rounded)					45,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				210,000		
31	CONSTRUCTION MANAGEMENT						
	Construction Management				105,000	30,000	
	Subtotal, Construction Management (rounded)				=====	=====	
	Contingencies (rounded)					30,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				135,000		
	Subtotal, Federal Project Costs				=====	=====	
	Subtotal, Contingencies					400,000	
	Less Non-Federal 5% Contribution				104,000		
	TOTAL FEDERAL PROJECT COSTS				\$1,749,000		
	TOTAL CURRENT PROJECT COST (excluding utility relocations along Hwy 59)				\$2,083,000		

RING LEVEE -- ALTERNATE ROUTE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
*** Non-Federal Project Costs ***							
01	LANDS AND DAMAGES						
	Acquisition Costs	17	EA	3,000.00	51,000	17,850	35%
	R.O.W. and Borrow	45	ACR	2,500.00	112,500	28,125	25%
					=====	=====	
	Subtotal, Lands & Damages (rounded)				164,000		
	Subtotal, Contingencies (rounded)					46,000	
01	TOTAL -- LANDS AND DAMAGES				210,000		
02	RELOCATIONS						
	Relocate Power Poles	5	EA	1,500.00	7,500	2,625	35%
					=====	=====	
	Subtotal, Relocations (rounded)				8,000		
	Subtotal, Contingencies (rounded)					3,000	
02	TOTAL -- RELOCATIONS				11,000		
30	PLANNING, ENGINEERING AND DESIGN						
	Planning, Engineering and Design				1,000	0	
					=====	=====	
	Subtotal, Planning, Engineering and Design (rounded)				1,000		
	Subtotal, Contingencies (rounded)					0	
30	TOTAL -- PLANNING, ENGINEERING AND DESIGN				1,000		

RING LEVEE -- ALTERNATE ROUTE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
*** Non-Federal Project Costs ***							
31	CONSTRUCTION MANAGEMENT						
	Construction Management				1,000	0	
	Subtotal, Construction Management (rounded)				=====	=====	
	Subtotal, Contingencies (rounded)					0	
31	TOTAL -- CONSTRUCTION MANAGEMENT				1,000		
	Subtotal, Non-Federal Project Costs				=====	=====	
	Subtotal, Contingencies					49,000	
	Additional Non-Federal 5% Contribution				90,000		
	TOTAL NON-FEDERAL PROJECT COSTS				\$313,000		

RING LEVEE -- ALTERNATE ROUTE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
*** Federal Project Costs ***							
01	LANDS AND DAMAGES						
	Acquisition Costs	17	EA	500.00	8,500	2,975	35%
	Subtotal, Lands & Damages (rounded)				9,000		
	Subtotal, Contingencies (rounded)					3,000	
01	TOTAL -- LANDS AND DAMAGES				12,000		
11	LEVEES AND FLOODWALLS						
	Clear, Grub, Debris Removal	5.6	AC	3,045.00	17,052	6,821	40%
	Remove Existing Buildings	1	LS	30,000.00	30,000	9,000	30%
	Remove Existing Roadway	900	CY	13.20	11,880	3,564	30%
	Stripping	141,000	SY	0.40	56,400	19,740	35%
	Levee Construction	138,000	CY	4.80	662,400	165,600	25%
	Drainage Structure						
	Structural Excavation	700	CY	2.20	1,540	539	35%
	48" RCP	800	LF	75.00	60,000	15,000	25%
	Concrete Headwall w/Flap Gate	1	EA	9,990.00	9,990	2,997	30%
	Structural Backfill	650	CY	4.30	2,795	978	35%
	Topsoil	40,000	SY	1.00	40,000	14,000	35%
	Seeding & Mulching	8.3	ACR	2,730.00	22,659	5,665	25%
	Watering	214	MGAL	21.00	4,494	1,124	25%
	New Ramps and Roadway						
	Aggregate Base Course	1200	CY	36.75	44,100	15,435	35%
	Bituminous Prime Coat	1,000	GAL	1.90	1,900	665	35%
	Asphaltic Concrete	700	TON	47.25	33,075	11,576	35%
	Subtotal, Levees and Floodwalls (rounded)				998,000		
	Contingencies (rounded)					273,000	
11	TOTAL -- LEVEES AND FLOODWALLS				1,271,000		

RING LEVEE -- ALTERNATE ROUTE  
 GUADALUPE RIVER PROTECTION LEVEE  
 VICTORIA, TEXAS  
 FEBRUARY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
*** Federal Project Costs ***							
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				140,000	38,000	
					=====	=====	
	Subtotal, Planning, Engineering & Design (rounded)				140,000		
	Contingencies (rounded)					38,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				178,000		
31	CONSTRUCTION MANAGEMENT						
	Construction Management				89,000	25,000	
					=====	=====	
	Subtotal, Construction Management (rounded)				89,000		
	Contingencies (rounded)					25,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				114,000		
					=====	=====	
	Subtotal, Federal Project Costs				1,236,000		
	Subtotal, Contingencies					339,000	
	Less Non-Federal 5% Contribution				90,000		
	TOTAL FEDERAL PROJECT COSTS				\$1,485,000		
	TOTAL CURRENT PROJECT COST				\$1,798,000		


**COST ENGINEERING APPENDIX  
TO THE DETAILED PROJECT REPORT**

GUADALUPE RIVER  
at VICTORIA, TEXAS


Section 205  
Small Flood Control Project

PREPARED BY: U.S. Army Engineer District, Galveston

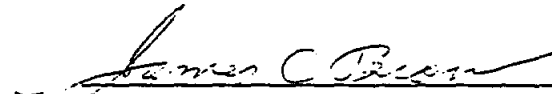
Account Code 01  
Approved By:

  
Richard N. Guthrie  
Chief, Real Estate Division

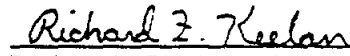
Account Code 30  
Approved By:

  
Carl E. Betterton, P.E.  
Chief, Engineering Division

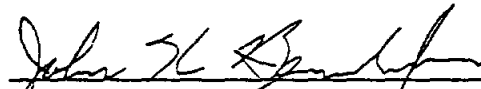
Account Code 31  
Approved By:

  
Joe P. Jarrell, P.E.  
Chief, Construction-Operations Division

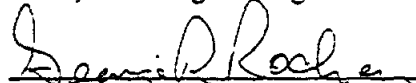
Fully Funded Estimate  
Approved By:

  
Richard F. Keelan, P.E.  
Project Manager

Cost Estimate  
Approved By:

  
John K. Bember, Jr., P.E.  
Chief, Cost Engineering Branch

Reviewed By:

  
George R. Roehen, P.E.  
Deputy District Engineer  
for Project Management

PRICE LEVEL: OCTOBER 1995

# VICTORIA LEVEE - GUADALUPE RIVER DETAILED PROJECT REPORT

## GENERAL NARRATIVE:

The MCACES estimates were provided for the NED Plan (250 year storm) and the Recommended Plan (217 year storm) which is preferred by the local sponsor. These estimates each include relocations, levees, floodwalls and shoreline protection.

The 1995 Unit Price Book database is used with labor rates adjusted to the latest available for the Victoria County area. Equipment costs have been adjusted as necessary. Material costs have been adjusted using quotes provided by local suppliers.

Quantities for levees, floodwalls, relocations and shoreline protection were developed by applicable elements within the district. Contingencies were assigned by the design team consisting of the design engineers, the landscape architect, the operations and maintenance manager, the cost engineer and the engineering project manager. The uncertainty associated with the contingencies are reflected in the levels of design.

The project manager provided midpoints for construction for the fully funded estimate.

## ACCOUNT CODE 01 -- LANDS AND DAMAGES:

Data for account code 01 was developed by the Real Estate Division. Costs are based on recent gross appraisals performed specifically for this estimate. The contingencies (12% to 25%) are within the range typically used at this level of design.

## ACCOUNT CODE 02 -- RELOCATIONS:

Relocations are based on survey information from the area. The cost estimate was developed using trucks for delivery of materials to the project site. General Engineering Section developed quantities for all relocations. Quantities for the construction of the relocations are known and the method of construction is considered to be a standard construction practice, therefore, contingencies (10% to 30%) are low to moderate.



#### ACCOUNT CODE 11 -- LEVEES AND FLOODWALLS:

Earthwork material quantities for construction of the levees and shoreline protection quantities were calculated by Geotechnical and Survey Section. The earthwork quantities were developed and the source of material is known. Construction assumes materials to be excavated by dragline, transported to the site by dump trucks and placed with dozers. Therefore, contingencies (10% to 25%) are low to moderate. General Engineering Section developed quantities for the drainage systems, topsoil and turfing. The materials for drainage work are known and can be delivered by truck or rail. The material source for topsoil is from the borrow area and will be delivered as the earth fill is delivered. Turfing is assumed to be by hydromulch. Construction is assumed to be by hydraulic crane and contingencies (15% to 25%) are low to moderate. Structural Engineering Section designed all structures for outfalls and the floodwall. Quantities for the construction of the floodwall are known and the method of construction is considered to be a standard construction practice. Driving of the piles through a layer of gravel provides some uncertainty. Therefore, contingencies (25%) are moderate.

#### ACCOUNT CODE 30 -- ENGINEERING AND DESIGN:

Costs for this account were provided by applicable elements within Galveston District.

#### ACCOUNT CODE 31 -- CONSTRUCTION MANAGEMENT:

Costs for this account are based on information provided by Construction-Operations Division.

Wed 06 Sep 1995  
Eff. Date 10/01/95

U.S. Army Corps of Engineers  
PROJECT VIC217: Guadalupe River Levee/Wall - 217 Year Storm  
Guadalupe River at Victoria, Texas

TIME 10:26:21  
TITLE PAGE 1

-----  
  
Guadalupe River Levee/Wall  
217 Year Storm  
Levee & Floodwall  
Victoria, Texas

Designed By: CESWG-ED  
Estimated By:

Prepared By: U.S. Army Corps of Engineers  
Galveston District, Texas

Preparation Date: 05/22/95  
Effective Date of Pricing: 10/01/95

Sales Tax: 0.00%

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Release 5.30A

Wed 06 Sep 1995  
Eff. Date 10/01/95  
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U.S. Army Corps of Engineers  
PROJECT VIC217: Guadalupe River Levee/Wall - 217 Year Storm  
Guadalupe River at Victoria, Texas

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No Detailed Estimate...

No Backup Reports...

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	QUANTY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
-----							
01 Construction Contract							
01-1 Non-Federal							
01-1-01 Lands and Damages			488,720	28,748	87,180	604,648	
01-1-02 Relocations			356,727	20,776	94,098	471,601	
			-----				
TOTAL Non-Federal			845,447	49,525	181,278	1,076,249	
01-2 Federal							
01-2-01 Lands and Damages			87,500	8,018	13,125	108,643	
01-2-11 Levees & Floodwalls			5,154,584	708,499	1,439,402	7,302,485	
01-2-30 Engineering & Design			480,987	7,186	72,244	560,417	
01-2-31 Construction Management			243,000	33,400	24,300	300,700	
			-----				
TOTAL Federal			5,966,071	757,103	1,549,071	8,272,246	
			-----				
TOTAL Construction Contract			6,811,518	806,628	1,730,349	9,348,495	
			-----				
TOTAL Guadalupe River Levee/Wall			6,811,518	806,628	1,730,349	9,348,495	

	QUANTITY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
-----							
01 Construction Contract							
01-1 Non-Federal							
01-1-01 Lands and Damages							
01-1-0123 Constructn Contract(s) Documnts							
01-1-012302 Acquisitions			140,000	8,235	21,000	169,235	
01-1-012303 Condemnations			17,500	1,029	2,625	21,154	
01-1-012305 Appraisals			87,500	5,147	13,125	105,772	
01-1-012307 Temporary Permits			35,000	2,059	5,250	42,309	
01-1-012312 Project Related Administration			52,500	3,088	7,875	63,463	
01-1-012315 Real Estate Payments							
01-1-012315 1 Land Payments			116,220	6,836	29,055	152,111	
01-1-01231502 PL 91-646 Assistance Payments			7,500	441	1,875	9,816	
01-1-01231503 Damage Payments			15,000	852	3,750	19,632	
			-----	-----	-----	-----	
TOTAL Real Estate Payments			138,720	8,160	34,680	181,560	
01-1-012317 LERRD Credits			17,500	1,029	2,625	21,154	
			-----	-----	-----	-----	
TOTAL Constructn Contract(s) Documnts			488,720	28,748	87,180	604,648	
			-----	-----	-----	-----	
TOTAL Lands and Damages			488,720	28,748	87,180	604,648	
01-1-02 Relocations							
01-1-0201 Mob, Demob & Preparatory Work							
01-1-020101 Mob & Demob			1,750	103	185	2,038	
			-----	-----	-----	-----	
TOTAL Mob, Demob & Preparatory Work			1,750	103	185	2,038	
01-1-0218 Utilities							
01-1-021801 CP&L Utilities							
01-1-02180101 Wall Penetrations			312,466	18,380	82,711	413,557	
			-----	-----	-----	-----	
TOTAL CP&L Utilities			312,466	18,380	82,711	413,557	
01-1-021802 Sanitary Sewer							

		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
01-1-02180201	Raise Sanitary Sewer Manhole	1.00 EA	967	57	256	1,279	1279.30
TOTAL Sanitary Sewer			967	57	256	1,279	
01-1-021815 Telecommunications							
01-1-02181501	Relocate Telephone Manhole	1.00 EA	1,395	82	369	1,846	1845.78
01-1-02181502	Relocate Telephone Junction Box	3.00 EA	4,184	246	1,107	5,537	1845.78
01-1-02181503	Raise Telephone Lines	200.00 LF	240	14	64	318	1.59
01-1-02181504	Raise CATV Lines	280.00 LF	1,127	66	298	1,492	5.33
TOTAL Telecommunications			6,946	409	1,839	9,193	
01-1-021816 Electrical							
01-1-02181601	Relocate CP&L Power Poles	11.00 EA	26,693	1,570	7,066	35,329	3211.72
01-1-02181602	Relocate CP&L Power Lines	380.00 LF	457	27	121	604	1.59
TOTAL Electrical			27,150	1,597	7,187	35,933	
TOTAL Utilities			347,528	20,443	91,993	459,963	
01-1-0230 Engineering & Design							
01-1-023023	Constructn Contracts(s) Documents		4,250	42	1,073	5,365	
TOTAL Engineering & Design			4,250	42	1,073	5,365	
01-1-0231 Construction Management							
01-1-023123	Supervision and Administration		3,200	188	847	4,235	
TOTAL Construction Management			3,200	188	847	4,235	
TOTAL Relocations			356,727	20,776	94,098	471,601	
TOTAL Non-Federal			845,447	49,525	181,278	1,076,249	
01-2 Federal							
01-2-01 Lands and Damages							
01-2-0123 Constructn Contract(s) Documents							
01-2-012302	Acquisitions		35,000	3,207	5,250	43,457	
01-2-012303	Condemnations		4,375	401	656	5,432	

		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
01-2-012305	Appraisals		21,875	2,004	3,281	27,160	
01-2-012307	Temporary Permits		8,750	802	1,313	10,865	
01-2-012312	Project Related Administration		13,125	1,203	1,969	16,297	
01-2-012317	LERRD Credits		4,375	401	656	5,432	
TOTAL Constructn Contract(s) Documnts			87,500	8,018	13,125	108,643	
TOTAL Lands and Damages			87,500	8,018	13,125	108,643	
01-2-11 Levees & Floodwalls							
01-2-1101 Levee Mob, Demob & Prep Work							
01-2-110101	Mob. & Demob.		4,375	601	498	5,473	
TOTAL Mob. & Demob.			4,375	601	498	5,473	
01-2-110102 Demolition							
01-2-11010201	Remove Concrete Chute	150.00 SY	509	70	145	724	4.82
01-2-11010202	Remove Chain Link Fence	300.00 LF	178	24	51	253	0.84
01-2-11010203	Remove Barbed Wire Fence	2800.00 LF	1,663	229	473	2,364	0.84
TOTAL Demolition			2,350	323	668	3,342	
01-2-110103 Replacement							
01-2-11010301	Replace Concrete Chute	150.00 SY	2,032	279	578	2,890	19.26
01-2-11010302	Replace Chain Link Fence	300.00 LF	4,843	666	1,377	6,885	22.95
01-2-11010303	Replace Barbed Wire Fence	2800.00 LF	7,376	1,014	2,097	10,487	3.75
TOTAL Replacement			14,251	1,959	4,052	20,262	
01-2-110104 Clear, Grub & Debris Removal							
01-2-11010401	Borrow Area	12.00 ACR	21,945	3,016	6,240	31,202	2600.18
01-2-11010402	Levee Area	13.30 ACR	24,323	3,343	6,916	34,582	2600.18
TOTAL Clear, Grub & Debris Removal			46,268	6,360	13,157	65,785	
01-2-110105 Stripping							
01-2-11010501	Borrow Area	58080 SY	18,831	2,588	5,355	26,774	0.46
01-2-11010502	Levee Area	64500 SY	20,915	2,875	5,947	29,737	0.46

	QUANTY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
TOTAL Stripping			39,746	5,463	11,302	56,511	
TOTAL Levee Mob, Demob & Prep Work			106,989	14,706	29,677	151,372	
01-2-1102 Levee Drainage							
01-2-110207 Culvert @ Ben Jordan							
01-2-11020701	Structural Excavation	160.00	CY	342	47	97	487 3.04
01-2-11020702	Install 42" RCP, Class II	160.00	LF	10,329	1,420	2,937	14,686 91.79
01-2-11020703	Precast Concrete Headwall	4.00	EA	2,476	340	704	3,520 880.08
01-2-11020705	Backfill w/hand Compaction	28.00	CY	243	33	69	345 12.32
01-2-11020706	Backfill w/machine Compaction	24.00	CY	34	5	10	48 1.99
01-2-11020707	Haul Excess Excavation	78.00	CY	237	33	67	337 4.32
01-2-11020708	Remove Roadway	16.00	SY	12	2	3	17 1.07
TOTAL Culvert @ Ben Jordan			13,672	1,879	3,888	19,439	
01-2-110208 Culvert @ Bottom St.							
01-2-11020801	Structural Excavation	163.00	CY	346	48	98	492 3.02
01-2-11020802	Install 36" RCP, Class II	300.00	LF	15,551	2,138	4,422	22,111 73.70
01-2-11020803	Precast Concrete Headwall	2.00	EA	757	104	215	1,076 538.22
01-2-11020805	Backfill w/hand Compaction	57.00	CY	494	68	140	702 12.32
01-2-11020806	Backfill w/machine Compaction	49.00	CY	69	9	19	97 1.99
01-2-11020807	Haul Excess Excavation	57.00	CY	173	24	49	246 4.32
TOTAL Culvert @ Bottom St.			17,390	2,390	4,945	24,725	
01-2-110209 Culvert @ Church St.							
01-2-11020901	Structural Excavation	76.00	CY	166	23	47	236 3.11
01-2-11020902	Install 48" RCP, Class II	50.00	LF	3,828	526	1,089	5,443 108.86
01-2-11020903	Precast Concrete Headwall	2.00	EA	1,238	170	352	1,760 880.08
01-2-11020905	Backfill w/hand Compaction	29.00	CY	251	35	71	357 12.32
01-2-11020906	Backfill w/machine Compaction	24.00	CY	34	5	10	48 1.99
01-2-11020907	Haul Excess Excavation	23.00	CY	70	10	20	99 4.32
01-2-11020908	Remove Roadway	13.00	SY	8	1	2	11 0.88
TOTAL Culvert @ Church St.			5,595	769	1,591	7,955	
01-2-110210 Culvert @ Victoria St.							
01-2-11021001	Structural Excavation	4.00	CY	23	3	7	33 8.13
01-2-11021002	Install 12" RCP, Class II	22.00	LF	248	34	71	353 16.03
01-2-11021003	Precast Concrete Headwall	2.00	EA	430	59	122	611 305.57
01-2-11021005	Backfill w/hand Compaction	2.00	CY	17	2	5	25 12.32



	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT	
01-2-11021006	Backfill w/machine Compaction	2.00 CY	3	0	1	4	1.99
01-2-11021009	Ditch Excavation	152.00 CY	462	63	131	656	4.32
TOTAL Culvert @ Victoria St.			1,183	163	336	1,681	
01-2-110211 Culvert @ Borrow Area 3							
01-2-11021101	Structural Excavation	815.00 CY	1,749	240	497	2,487	3.05
01-2-11021102	Install 24" RCP, Class II	22.00 LF	545	75	155	774	35.20
01-2-11021103	Precast Concrete Headwall	2.00 EA	523	72	149	743	371.73
01-2-11021104	Concrete Manhole	1.00 EA	315	43	89	447	447.23
01-2-11021105	Backfill w/hand Compaction	450.00 CY	3,899	536	1,109	5,544	12.32
01-2-11021106	Backfill w/machine Compaction	170.00 CY	238	33	68	338	1.99
01-2-11021107	Haul Excess Excavation	195.00 CY	592	81	168	842	4.32
TOTAL Culvert @ Borrow Area 3			7,860	1,080	2,235	11,176	
01-2-110212 Structure @ South Outfall							
01-2-11021201	Remove Existing Structure	1.00 EA	3,896	536	1,108	5,540	5539.56
01-2-11021202	Stripping	16030 SY	2,092	288	595	2,975	0.11
01-2-11021203	Structural Excavation	3664.00 CY	7,833	1,077	2,228	11,138	3.04
01-2-11021204	Cast-in-place Concrete	104.00 CY	20,608	2,833	5,860	29,301	281.74
01-2-11021205	Sluice Gate, 4' X 4'	6.00 EA	101,871	14,002	28,968	144,842	24140
01-2-11021206	Concrete Gatewell	75.00 CY	26,421	3,632	7,513	37,566	500.67
01-2-11021207	Reinforced Concrete Drainage Str	700.00 CY	246,595	33,895	70,122	350,612	500.87
01-2-11021208	Flap Gate, 4' X 4'	6.00 EA	35,146	4,831	9,994	49,971	8328.54
01-2-11021209	48" Reinforced Concrete Pipe	1374.00 LF	105,199	14,460	29,915	149,573	108.86
01-2-11021210	Sand Bedding Material	470.00 CY	10,980	1,509	3,122	15,611	33.22
01-2-11021211	Backfill w/hand Compaction	1610.00 CY	13,950	1,917	3,967	19,834	12.32
01-2-11021212	Backfill w/machine Compaction	1414.00 CY	1,978	272	563	2,813	1.99
01-2-11021213	Topsoil	16030 SY	30,960	4,255	8,804	44,019	2.75
01-2-11021214	Seed & Fertilize	3.30 AC	8,987	1,235	2,555	12,777	3871.90
01-2-11021215	Haul Excess Excavation	832.00 CY	2,527	347	719	3,593	4.32
01-2-11021216	Regrade Dirt Road	1400.00 SY	503	69	143	715	0.51
TOTAL Structure @ South Outfall			619,546	85,157	176,176	880,879	
01-2-110213 Structure @ Elder St.							
01-2-11021301	Remove Existing Structure	1.00 EA	3,896	536	1,108	5,540	5539.56
01-2-11021302	Stripping	2000.00 SY	261	36	74	371	0.19
01-2-11021303	Structural Excavation	9300.00 CY	19,892	2,734	5,657	28,283	3.04
01-2-11021304	Cast-in-place Concrete	64.00 CY	12,682	1,743	3,606	18,031	281.74
01-2-11021305	Sluice Gate, 5' X 5'	1.00 EA	27,082	3,722	7,701	38,506	38506
01-2-11021306	Steel Sheet Pile Cofferdam	6603.00 SF	156,222	21,473	44,424	222,119	33.64
01-2-11021307	Reinforced Concrete Headwall	3.00 CY	1,057	145	301	1,503	500.87
01-2-11021308	Flap Gate, 5' X 5'	1.00 EA	11,321	1,556	3,219	16,096	16096

		QUANTITY	UOM	CONTRACT	ESCALATE	CONTINGEN	TOTAL COST	UNIT
01-2-11021309	60" Reinforced Concrete Pipe	151.00	LF	16,813	2,311	4,781	23,905	158.31
01-2-11021310	Sand Bedding Material	55.00	CY	1,285	177	365	1,827	33.22
01-2-11021311	Backfill w/hand Compaction	2145.00	CY	18,585	2,555	5,225	26,425	12.32
01-2-11021312	Backfill w/machine Compaction	7100.00	CY	9,933	1,365	2,824	14,122	1.99
01-2-11021313	Topsoil	2000.00	SY	3,861	531	1,098	5,490	2.74
01-2-11021314	Seed & Fertilize	0.40	AC	1,089	150	310	1,549	3871.90
01-2-11021318	Blanket Stone	27.00	TON	958	132	272	1,362	50.43
01-2-11021319	Riprap	62.00	TON	2,096	288	596	2,981	48.07
TOTAL Structure @ Elder St.				287,033	39,453	81,622	408,108	
01-2-110214 Structure @ Wastewater Plant								
01-2-11021401	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,540	5539.56
01-2-11021402	Stripping	250.00	SY	33	4	9	46	0.19
01-2-11021403	Structural Excavation	3000.00	CY	6,417	882	1,825	9,124	3.04
01-2-11021404	Cast-in-place Concrete	49.00	CY	9,710	1,335	2,761	13,805	281.74
01-2-11021405	Sluice Gate, 4' X 4'	1.00	EA	16,979	2,334	4,828	24,140	24140
01-2-11021406	Steel Sheet Pile Cofferdam	6603.00	SF	156,222	21,473	44,424	222,119	33.64
01-2-11021408	Flap Gate, 4' X 4'	1.00	EA	5,858	805	1,666	8,329	8329.54
01-2-11021409	48" Reinforced Concrete Pipe	38.00	LF	2,909	400	827	4,137	108.86
01-2-11021410	Sand Bedding Material	13.00	CY	304	42	86	432	33.22
01-2-11021411	Backfill w/hand Compaction	100.00	CY	866	119	246	1,232	12.32
01-2-11021412	Backfill w/machine Compaction	2887.00	CY	4,039	555	1,148	5,742	1.99
01-2-11021413	Topsoil	250.00	SY	485	67	138	689	2.76
01-2-11021414	Seed & Fertilize	0.05	AC	136	19	39	194	3871.90
01-2-11021417	Miscellaneous Steel	0.25	TON	2,249	309	639	3,197	12790
TOTAL Structure @ Wastewater Plant				210,102	28,879	59,745	298,725	
01-2-110215 Structure @ Glass & Second St.								
01-2-11021501	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,540	5539.56
01-2-11021502	Stripping	300.00	SY	39	5	11	56	0.19
01-2-11021503	Structural Excavation	1000.00	CY	2,139	294	608	3,041	3.04
01-2-11021504	Cast-in-place Concrete	173.00	CY	34,281	4,712	9,748	48,741	281.74
01-2-11021505	Sluice Gate, 10' X 7'	1.00	EA	75,246	10,343	21,397	106,985	106985
01-2-11021506	Steel Sheet Pile Cofferdam	6603.00	SF	156,222	21,473	44,424	222,119	33.64
01-2-11021508	Flap Gate, 6' X 6'	2.00	EA	26,609	3,657	7,567	37,833	18916
01-2-11021510	Sand Bedding Material	100.00	CY	2,336	321	664	3,322	33.22
01-2-11021511	Backfill w/hand Compaction	200.00	CY	1,733	238	493	2,464	12.32
01-2-11021512	Backfill w/machine Compaction	800.00	CY	1,119	154	318	1,591	1.99
01-2-11021513	Topsoil	300.00	SY	577	79	164	820	2.73
01-2-11021514	Seed & Fertilize	0.06	AC	163	22	46	232	3871.90
01-2-11021517	Miscellaneous Steel	1.00	TON	8,995	1,236	2,558	12,790	12790
01-2-11021518	Blanket Stone	139.00	TON	4,930	678	1,402	7,010	50.43
01-2-11021519	Riprap	325.00	TON	10,989	1,510	3,125	15,624	48.07
01-2-11021520	Install 12' X 6' Box Culvert	10.00	LF	6,539	899	1,860	9,298	929.79

	QUANTY	UOM	CONTRACT	ESCALATH	CONTINGN	TOTAL COST	UNIT
TOTAL Structure @ Glass & Second St.			335,813	46,158	95,493	477,464	
01-2-110216 Structure @ Water St.							
01-2-11021601	Remove Existing Structure	1.00 EA	3,896	536	1,108	5,540	5539.56
01-2-11021602	Stripping	150.00 SY	20	3	6	28	0.19
01-2-11021603	Structural Excavation	400.00 CY	856	118	243	1,216	3.04
01-2-11021604	Cast-in-place Concrete	92.00 CY	18,230	2,506	5,184	25,920	281.74
01-2-11021605	Sluice Gate, 6' X 6'	1.00 EA	33,329	4,581	9,477	47,387	47387
01-2-11021606	Steel Sheet Pile Cofferdam	6603.00 SF	156,222	21,473	44,424	222,119	33.64
01-2-11021608	Flap Gate, 6' X 6'	1.00 EA	13,353	1,835	3,797	18,985	18985
01-2-11021609	72" Reinforced Concrete Pipe	54.00 LF	7,656	1,052	2,177	10,886	201.59
01-2-11021610	Sand Bedding Material	40.00 CY	934	128	266	1,329	33.22
01-2-11021611	Backfill w/hand Compaction	120.00 CY	1,040	143	296	1,478	12.32
01-2-11021612	Backfill w/machine Compaction	1400.00 CY	1,959	269	557	2,785	1.99
01-2-11021613	Topsoil	150.00 SY	293	40	83	416	2.77
01-2-11021614	Seed & Fertilize	0.03 AC	82	11	23	116	3871.90
01-2-11021618	Blanket Stone	53.00 TON	1,880	258	535	2,673	50.43
01-2-11021619	Riprap	104.00 TON	3,516	483	1,000	5,000	48.07
TOTAL Structure @ Water St.			243,265	33,437	69,175	345,877	
01-2-110217 Closure Str. @ Hwy. 59							
01-2-11021703	Structural Excavation	26.00 CY	149	20	42	211	8.13
01-2-11021704	Cast-in-place Concrete	282.00 CY	55,879	7,681	15,890	79,450	281.74
01-2-11021705	Reinforcing Steel	25673 LBS	10,533	1,448	2,995	14,975	0.58
01-2-11021708	Structural Steel	14352 LBS	17,937	2,465	5,101	25,503	1.78
01-2-11021709	Miscellaneous Hardware	1.00 JOB	562	77	160	799	799.35
01-2-11021710	Miscellaneous J-Seals	1.00 JOB	2,504	344	712	3,561	3560.70
01-2-11021711	Backfill w/hand Compaction	6.50 CY	56	8	16	80	12.32
TOTAL Closure Str. @ Hwy. 59			87,621	12,043	24,916	124,580	
01-2-110218 Closure Str. @ S.P. Railroad							
01-2-11021803	Structural Excavation	26.00 CY	149	20	42	211	8.13
01-2-11021804	Cast-in-place Concrete	209.00 CY	41,414	5,692	11,777	58,883	281.74
01-2-11021805	Reinforcing Steel	21650 LBS	8,912	1,225	2,534	12,672	0.59
01-2-11021806	Sheet Pile	586.00 SF	9,923	1,364	2,822	14,109	24.08
01-2-11021808	Structural Steel	6726.00 LBS	7,687	1,057	2,186	10,930	1.63
01-2-11021809	Miscellaneous Hardware	1.00 JOB	2,474	340	703	3,517	3517.13
01-2-11021811	Backfill w/hand Compaction	4.00 CY	35	5	10	49	12.32
TOTAL Closure Str. @ S.P. Railroad			70,594	9,703	20,074	100,371	
TOTAL Levee Drainage			1,899,673	261,110	540,196	2,700,980	

		QUANTITY	UOM	CONTRACT	ESCALATE	CONTINGEN	TOTAL COST	UNIT
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01-2-1104 Levee Permanent Access Roads								
01-2-110402 Site Work								
01-2-11040201	Aggregate Base Course	440.00	CY	10,305	1,416	2,930	14,651	33.30
01-2-11040202	Bituminous Prime Coat	615.00	GAL	774	106	220	1,101	1.79
01-2-11040203	Bituminous Surface Course	155.00	TON	6,342	872	1,804	9,018	58.18
01-2-11040204	Gravel Surface Course	15.00	TON	853	117	243	1,213	80.84
01-2-11040205	Install Barrier Gate	1.00	EA	328	45	93	467	466.86
01-2-11040206	Remove Roadway	1235.00	SY	825	113	235	1,173	0.95
TOTAL Site Work				19,427	2,670	5,524	27,622	
TOTAL Levee Permanent Access Roads				19,427	2,670	5,524	27,622	
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01-2-1111 Str. Wall Mob, Demob & Prep Work								
01-2-111101 Mob. & Demob.								
				37,918	5,212	4,313	47,443	
TOTAL Mob. & Demob.				37,918	5,212	4,313	47,443	
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01-2-111104 Clear, Grubb & Debris Removal								
01-2-11110401 Bank & Work Area								
		1.23	ACR	25,535	3,510	7,261	36,306	29517
TOTAL Clear, Grubb & Debris Removal				25,535	3,510	7,261	36,306	
TOTAL Str. Wall Mob, Demob & Prep Work				63,454	8,722	11,574	83,750	
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01-2-1112 Structural Wall @ CP&L Plant								
01-2-111202 Site Work								
01-2-11120201	Granular Fill (Sand)	1937.00	CY	43,664	6,002	12,417	62,083	32.05
01-2-11120202	Granular Fill (Crushed Stone)	3450.00	TON	122,374	16,820	34,798	173,992	50.43
TOTAL Site Work				166,038	22,822	47,215	236,075	
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01-2-111205 Metal								
01-2-11120501	Sheet Pile (PSA23)	58.00	TON	91,905	12,632	26,134	130,672	2252.96
01-2-11120502	Sheet Pile (P235)	127.50	TON	149,105	20,494	42,400	211,999	1662.74
01-2-11120503	Sheet Pile (P240), Box Pile	482.00	TON	732,355	100,662	208,254	1,041,272	2160.32
01-2-11120504	Miscellaneous Steel	482.00	TON	530,873	72,969	150,960	754,802	1565.98
01-2-11120505	Coating Systems	53654	SF	356,183	48,957	101,285	506,426	9.44
01-2-11120506	Marine Crew Adjustments	520.00	HRS	275,828	37,913	78,435	392,175	754.18
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	QUANTITY	UOM	CONTRACT	ESCALATE	CONTINGEN	TOTAL COST	UNIT	
TOTAL Metal	667.50	TON	2,136,249	293,628	607,469	3,037,346	4550.33	
01-2-111230 Bank Stabilization								
01-2-111230 1	Blanket Stone (1/4" - 4")	950.00	TON	33,697	4,652	7,666	45,994	48.42
01-2-111230 2	Riprap (15# - 265#)	2540.00	TON	85,881	11,804	19,537	117,223	46.15
TOTAL Bank Stabilization				119,578	16,456	27,203	163,217	
TOTAL Structural Wall @ CP&L Plant				2,421,865	332,836	681,887	3,436,638	
01-2-1130 Levee Construction								
01-2-113002 Site Work								
01-2-113002 1	Levee (Sidecast)	45700	CY	133,361	18,330	37,923	189,614	4.15
01-2-113002 2	Levee (1 mile haul)	7000.00	CY	29,717	4,085	8,450	42,252	6.04
01-2-113002 3	Levee (1.5 mile haul)	13050	CY	61,728	8,425	17,553	87,765	6.73
01-2-113002 4	Slope Grading (110+69 to 113+69)	1222.00	CY	1,719	236	489	2,444	2.00
01-2-113002 5	Blanket Stone (110+69 to 113+69)	1678.00	TON	59,520	8,181	13,540	81,241	48.42
01-2-113002 6	Riprap (Sta 110+69 to 113+69)	4663.00	TON	157,663	21,671	35,867	215,201	46.15
TOTAL Site Work				443,707	60,988	113,822	618,517	
TOTAL Levee Construction				443,707	60,988	113,822	618,517	
01-2-1199 Levee Associated General Items								
01-2-119902 Site Work (Turfig)								
01-2-119902 1	Levee Topsoil	66900	SY	129,210	17,760	36,742	183,712	2.75
01-2-119902 2	Seed, Mulch & Fertilize	25.80	ACR	70,259	9,657	19,979	99,895	3871.90
TOTAL Site Work (Turfig)				199,468	27,417	56,721	283,607	10993
TOTAL Levee Associated General Items				199,468	27,417	56,721	283,607	
TOTAL Levees & Floodwalls				5,154,584	708,499	1,439,402	7,302,485	
01-2-30 Engineering & Design								
01-2-3001	Plans and Specifications (P&S)			298,255	4,456	46,457	349,168	
01-2-3004	Environmental Studies Documents			3,700	55	259	4,014	
01-2-3005	HTRW Studies/Report			500	7	35	542	
01-2-3006	Cultural Resource Studies Documts			2,500	37	175	2,712	
01-2-3007	Cost Estimates			7,049	105	1,410	8,564	
01-2-3008	Other Studies/Investigations			55,488	829	5,441	61,758	

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
01-2-3009 Contract Award Documents		3,745	56	1,049	4,850	
01-2-3010 Engineering & Design During		22,025	329	3,155	25,509	
01-2-3015 Local Sponsor Project Coordinat'n		3,313	49	662	4,024	
01-2-3021 VE Screening/Studies		48,548	725	9,319	58,592	
01-2-3022 VE Related Redesign		35,864	536	4,282	40,682	
<b>TOTAL Engineering &amp; Design</b>		<b>480,987</b>	<b>7,186</b>	<b>72,244</b>	<b>560,417</b>	
01-2-31 Construction Management						
01-2-3102 Area Office S&A Documents		201,200	27,655	20,120	248,975	
01-2-3103 District Office S&A Documents		41,800	5,745	4,180	51,725	
<b>TOTAL Construction Management</b>		<b>243,000</b>	<b>33,400</b>	<b>24,300</b>	<b>300,700</b>	
<b>TOTAL Federal</b>		<b>5,966,071</b>	<b>757,103</b>	<b>1,549,071</b>	<b>8,272,246</b>	
<b>TOTAL Construction Contract</b>		<b>6,811,518</b>	<b>806,628</b>	<b>1,730,349</b>	<b>9,348,495</b>	
<b>TOTAL Guadalupe River Levee/Wall</b>		<b>6,811,518</b>	<b>806,628</b>	<b>1,730,349</b>	<b>9,348,495</b>	

	QUANTY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
-----											
01 Construction Contract											
01-1 Non-Federal											
01-1-01 Lands and Damages	488,720		0	0	0	0	0	0	0	488,720	
01-1-02 Relocations	285,413		24,260	15,484	29,264	2,306				356,727	
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TOTAL Non-Federal	774,133		24,260	15,484	29,264	2,306				845,447	
01-2 Federal											
01-2-01 Lands and Damages	87,500		0	0	0	0	0	0	0	87,500	
01-2-11 Levees & Floodwalls	4,124,122		350,550	223,734	422,856	33,322				5,154,584	
01-2-30 Engineering & Design	480,987		0	0	0	0	0	0	0	480,987	
01-2-31 Construction Management	243,000		0	0	0	0	0	0	0	243,000	
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TOTAL Federal	4,935,609		350,550	223,734	422,856	33,322				5,966,071	
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TOTAL Construction Contract	5,709,741		374,810	239,217	452,121	35,628				6,811,518	
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TOTAL Guadalupe River Levee/Wall	5,709,741		374,810	239,217	452,121	35,628				6,811,518	
Contingency										806,628	
										-----	
SUBTOTAL										7,618,145	
Escalation										1,730,349	
										-----	
TOTAL INCL OWNER COSTS										9,348,495	

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	QUANTY	UOM	DIRECT	FIELD	C HOME	OF PROFIT	BOND	TOTAL COST	UNIT
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01 Construction Contract									
01-1 Non-Federal									
01-1-01 Lands and Damages									
01-1-0123 Constructn Contract(s) Documnts									
01-1-012302	Acquisitions		140,000	0	0	0	0	140,000	
01-1-012303	Condemnations		17,500	0	0	0	0	17,500	
01-1-012305	Appraisals		87,500	0	0	0	0	87,500	
01-1-012307	Temporary Permits		35,000	0	0	0	0	35,000	
01-1-012312	Project Related Administration		52,500	0	0	0	0	52,500	
01-1-012315 Real Estate Payments									
01-1-012315 1	Land Payments		116,220	0	0	0	0	116,220	
01-1-01231502	PL 91-646 Assistance Payments		7,500	0	0	0	0	7,500	
01-1-01231503	Damage Payments		15,000	0	0	0	0	15,000	
TOTAL Real Estate Payments			138,720	0	0	0	0	138,720	
01-1-012317	LERRD Credits		17,500	0	0	0	0	17,500	
TOTAL Constructn Contract(s) Documnts			488,720	0	0	0	0	488,720	
TOTAL Lands and Damages			488,720	0	0	0	0	488,720	
01-1-02 Relocations									
01-1-0201 Mob, Demob & Preparatory Work									
01-1-020101	Mob & Demob		1,400	119	76	144	11	1,750	
TOTAL Mob, Demob & Preparatory Work			1,400	119	76	144	11	1,750	
01-1-0218 Utilities									
01-1-021801 CP&L Utilities									
01-1-02180101	Wall Penetrations		250,000	21,250	13,563	25,633	2,020	312,466	
TOTAL CP&L Utilities			250,000	21,250	13,563	25,633	2,020	312,466	
01-1-021802 Sanitary Sewer									



		QUANTY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-1-02180201	Raise Sanitary Sewer Manhole	1.00	EA	773	66	42	79	6	967	966.58		
TOTAL Sanitary Sewer				773	66	42	79	6	967			
01-1-021815 Telecommunications												
01-1-02181501	Relocate Telephone Manhole	1.00	EA	1,116	95	61	114	9	1,395	1394.59		
01-1-02181502	Relocate Telephone Junction Box	3.00	EA	3,347	285	182	343	27	4,184	1394.59		
01-1-02181503	Raise Telephone Lines	200.00	LF	192	16	10	20	2	240	1.20		
01-1-02181504	Raise CATV Lines	280.00	LF	902	77	49	92	7	1,127	4.03		
TOTAL Telecommunications				5,557	472	301	570	45	6,946			
01-1-021816 Electrical												
01-1-02181601	Relocate CP&L Power Poles	11.00	EA	21,357	1,815	1,159	2,190	173	26,693	2426.64		
01-1-02181602	Relocate CP&L Power Lines	380.00	LF	365	31	20	37	3	457	1.20		
TOTAL Electrical				21,722	1,846	1,178	2,227	176	27,150			
TOTAL Utilities				278,053	23,634	15,084	28,509	2,247	347,528			
01-1-0230 Engineering & Design												
01-1-023023	Constructn Contracts(s) Documnts			3,400	289	184	349	27	4,250			
TOTAL Engineering & Design				3,400	289	184	349	27	4,250			
01-1-0231 Construction Management												
01-1-023123	Supervision and Administration			2,560	218	139	262	21	3,200			
TOTAL Construction Management				2,560	218	139	262	21	3,200			
TOTAL Relocations				285,413	24,260	15,484	29,264	2,306	356,727			
TOTAL Non-Federal				774,133	24,260	15,484	29,264	2,306	845,447			
01-2 Federal												
01-2-01 Lands and Damages												
01-2-0123 Constructn Contract(s) Documnts												
01-2-012302	Acquisitions			35,000	0	0	0	0	35,000			
01-2-012303	Condemnations			4,375	0	0	0	0	4,375			

		QUANTITY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-012305	Appraisals			21,875	0	0	0	0	0	0	21,875	
01-2-012307	Temporary Permits			8,750	0	0	0	0	0	0	8,750	
01-2-012312	Project Related Administration			13,125	0	0	0	0	0	0	13,125	
01-2-012317	LERRD Credits			4,375	0	0	0	0	0	0	4,375	
TOTAL Constructn Contract(s) Documents				87,500	0	0	0	0	0	0	87,500	
TOTAL Lands and Damages				87,500	0	0	0	0	0	0	87,500	
01-2-11 Levees & Floodwalls												
01-2-1101 Levee Mob, Demob & Prep Work												
01-2-110101	Mob. & Demob.			3,500	298	190	359	28	359	28	4,375	
TOTAL Mob. & Demob.				3,500	298	190	359	28	359	28	4,375	
01-2-110102 Demolition												
01-2-11010201	Remove Concrete Chute	150.00	SY	407	35	22	42	3	42	3	509	3.39
01-2-11010202	Remove Chain Link Fence	300.00	LF	143	12	8	15	1	15	1	178	0.59
01-2-11010203	Remove Barbed Wire Fence	2800.00	LF	1,331	113	72	136	11	136	11	1,663	0.59
TOTAL Demolition				1,880	160	102	193	15	193	15	2,350	
01-2-110103 Replacement												
01-2-11010301	Replace Concrete Chute	150.00	SY	1,626	138	88	167	13	167	13	2,032	13.55
01-2-11010302	Replace Chain Link Fence	300.00	LF	3,875	329	210	397	31	397	31	4,843	16.14
01-2-11010303	Replace Barbed Wire Fence	2800.00	LF	5,901	502	320	605	48	605	48	7,376	2.63
TOTAL Replacement				11,402	969	619	1,169	92	1,169	92	14,251	
01-2-110104 Clear, Grub & Debris Removal												
01-2-11010401	Borrow Area	12.00	ACR	17,558	1,492	953	1,800	142	1,800	142	21,945	1828.78
01-2-11010402	Levee Area	13.30	ACR	19,460	1,654	1,056	1,995	157	1,995	157	24,323	1828.78
TOTAL Clear, Grub & Debris Removal				37,019	3,147	2,008	3,796	299	3,796	299	46,268	
01-2-110105 Stripping												
01-2-11010501	Borrow Area	58080	SY	15,066	1,281	817	1,545	122	1,545	122	18,831	0.32
01-2-11010502	Levee Area	64500	SY	16,734	1,422	908	1,716	135	1,716	135	20,915	0.32

	QUANTITY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
TOTAL Stripping	31,800		2,703	1,725	3,261	257		39,746			
TOTAL Levee Mob, Demob & Prep Work	85,601		7,276	4,644	8,777	692		106,989			
01-2-1102 Levee Drainage											
01-2-110207 Culvert @ Ben Jordan											
01-2-11020701	Structural Excavation	160.00	CY	274	23	15	28	2	342	2.14	
01-2-11020702	Install 42" RCP, Class II	160.00	LF	8,264	702	448	847	67	10,329	64.56	
01-2-11020703	Precast Concrete Headwall	4.00	EA	1,981	168	107	203	16	2,476	618.99	
01-2-11020705	Backfill w/hand Compaction	28.00	CY	194	16	11	20	2	243	8.66	
01-2-11020706	Backfill w/machine Compaction	24.00	CY	27	2	1	3	0	34	1.40	
01-2-11020707	Haul Excess Excavation	78.00	CY	190	16	10	19	2	237	3.04	
01-2-11020708	Remove Roadway	16.00	SY	10	1	1	1	0	12	0.75	
TOTAL Culvert @ Ben Jordan		10,939		930	593	1,122	88	13,672			
01-2-110208 Culvert @ Bottom St.											
01-2-11020801	Structural Excavation	163.00	CY	277	24	15	28	2	346	2.12	
01-2-11020802	Install 36" RCP, Class II	300.00	LF	12,442	1,058	675	1,276	101	15,551	51.84	
01-2-11020803	Precast Concrete Headwall	2.00	EA	606	51	33	62	5	757	378.55	
01-2-11020805	Backfill w/hand Compaction	57.00	CY	395	34	21	41	3	494	8.66	
01-2-11020806	Backfill w/machine Compaction	49.00	CY	55	5	3	6	0	69	1.40	
01-2-11020807	Haul Excess Excavation	57.00	CY	139	12	8	14	1	173	3.04	
TOTAL Culvert @ Bottom St.		13,913		1,183	755	1,427	112	17,390			
01-2-110209 Culvert @ Church St.											
01-2-11020901	Structural Excavation	76.00	CY	133	11	7	14	1	166	2.19	
01-2-11020902	Install 48" RCP, Class II	50.00	LF	3,063	260	166	314	25	3,828	76.56	
01-2-11020903	Precast Concrete Headwall	2.00	EA	990	84	54	102	8	1,238	618.99	
01-2-11020905	Backfill w/hand Compaction	29.00	CY	201	17	11	21	2	251	8.66	
01-2-11020906	Backfill w/machine Compaction	24.00	CY	27	2	1	3	0	34	1.40	
01-2-11020907	Haul Excess Excavation	23.00	CY	56	5	3	6	0	70	3.04	
01-2-11020908	Remove Roadway	13.00	SY	6	1	0	1	0	8	0.62	
TOTAL Culvert @ Church St.		4,477		381	243	459	36	5,595			
01-2-110210 Culvert @ Victoria St.											
01-2-11021001	Structural Excavation	4.00	CY	18	2	1	2	0	23	5.72	
01-2-11021002	Install 12" RCP, Class II	22.00	LF	198	17	11	20	2	248	11.27	
01-2-11021003	Precast Concrete Headwall	2.00	EA	344	29	19	35	3	430	214.92	
01-2-11021005	Backfill w/hand Compaction	2.00	CY	14	1	1	1	0	17	8.66	

	QUANTITY	UOM	DIRECT	FIELD	OFF	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-11021006	Backfill w/machine	Compaction	2.00	CY	2	0	0	0	0	3	1.40
01-2-11021009	Ditch	Excavation	152.00	CY	369	31	20	38	3	462	3.00
TOTAL Culvert @ Victoria St.					946	80	51	97	8	1,183	
01-2-110211 Culvert @ Borrow Area 3											
01-2-11021101	Structural	Excavation	815.00	CY	1,399	119	76	143	11	1,749	2.15
01-2-11021102	Install 24"	RCP, Class II	22.00	LF	436	37	24	45	4	545	24.76
01-2-11021103	Precast Concrete	Headwall	2.00	EA	418	36	23	43	3	523	261.45
01-2-11021104	Concrete	Manhole	1.00	EA	252	21	14	26	2	315	314.55
01-2-11021105	Backfill w/hand	Compaction	450.00	CY	3,120	265	169	320	25	3,899	8.66
01-2-11021106	Backfill w/machine	Compaction	170.00	CY	190	16	10	20	2	238	1.40
01-2-11021107	Haul Excess	Excavation	195.00	CY	474	40	26	49	4	592	3.04
TOTAL Culvert @ Borrow Area 3					6,289	535	341	645	51	7,860	
01-2-110212 Structure @ South Outfall											
01-2-11021201	Remove Existing	Structure	1.00	EA	3,117	265	169	320	25	3,896	3896.12
01-2-11021202	Stripping		16030	SY	1,674	142	91	172	14	2,092	0.13
01-2-11021203	Structural	Excavation	3664.00	CY	6,267	533	340	643	51	7,833	2.14
01-2-11021204	Cast-in-place	Concrete	104.00	CY	16,488	1,401	894	1,691	133	20,608	198.15
01-2-11021205	Sluice Gate, 4' X 4'		6.00	EA	81,506	6,928	4,422	8,357	659	101,871	16979
01-2-11021206	Concrete	Gatewell	75.00	CY	21,139	1,797	1,147	2,167	171	26,421	352.28
01-2-11021207	Reinforced Concrete	Drainage Str	700.00	CY	197,298	16,770	10,703	20,229	1,594	246,595	352.28
01-2-11021208	Flap Gate, 4' X 4'		6.00	EA	28,120	2,390	1,526	2,883	227	35,146	5857.69
01-2-11021209	48" Reinforced Concrete	Pipe	1374.00	LF	84,168	7,154	4,566	8,630	680	105,199	76.56
01-2-11021210	Sand Bedding	Material	470.00	CY	8,785	747	477	901	71	10,980	23.36
01-2-11021211	Backfill w/hand	Compaction	1610.00	CY	11,161	949	605	1,144	90	13,950	8.66
01-2-11021212	Backfill w/machine	Compaction	1414.00	CY	1,583	135	86	162	13	1,978	1.40
01-2-11021213	Topsoil		16030	SY	24,771	2,105	1,344	2,540	200	30,960	1.93
01-2-11021214	Seed & Fertilize		3.30	AC	7,190	611	390	737	58	8,987	2723.21
01-2-11021215	Haul Excess	Excavation	832.00	CY	2,022	172	110	207	16	2,527	3.04
01-2-11021216	Regrade	Dirt Road	1400.00	SY	402	34	22	41	3	503	0.36
TOTAL Structure @ South Outfall					495,692	42,134	26,891	50,825	4,005	619,546	
01-2-110213 Structure @ Elder St.											
01-2-11021301	Remove Existing	Structure	1.00	EA	3,117	265	169	320	25	3,896	3896.12
01-2-11021302	Stripping		2000.00	SY	209	18	11	21	2	261	0.13
01-2-11021303	Structural	Excavation	9300.00	CY	15,915	1,353	863	1,632	129	19,892	2.14
01-2-11021304	Cast-in-place	Concrete	64.00	CY	10,147	862	550	1,040	82	12,682	198.15
01-2-11021305	Sluice Gate, 5' X 5'		1.00	EA	21,668	1,842	1,176	2,222	175	27,082	27082
01-2-11021306	Steel Sheet Pile	Cofferdam	6603.00	SF	124,991	10,624	6,781	12,816	1,010	156,222	23.66
01-2-11021307	Reinforced Concrete	Headwall	3.00	CY	846	72	46	87	7	1,057	352.28
01-2-11021308	Flap Gate, 5' X 5'		1.00	EA	9,058	770	491	929	73	11,321	11321

		QUANTY UOM	DIRECT	FIELD	OF	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-11021309	60" Reinforced Concrete Pipe	151.00 LF	13,452	1,143	730	1,379	109	16,813	111.34		
01-2-11021310	Sand Bedding Material	55.00 CY	1,028	87	56	105	8	1,285	23.36		
01-2-11021311	Backfill w/hand Compaction	2145.00 CY	14,870	1,264	807	1,525	120	18,585	8.66		
01-2-11021312	Backfill w/machine Compaction	7100.00 CY	7,947	675	431	815	64	9,933	1.40		
01-2-11021313	Topsoil	2000.00 SY	3,089	263	168	317	25	3,861	1.93		
01-2-11021314	Seed & Fertilize	0.40 AC	872	74	47	89	7	1,089	2723.21		
01-2-11021318	Blanket Stone	27.00 TON	766	65	42	79	6	958	35.47		
01-2-11021319	Riprap	62.00 TON	1,677	143	91	172	14	2,096	33.81		
TOTAL Structure @ Elder St.			229,652	19,520	12,459	23,547	1,856	287,033			
01-2-110214 Structure @ Wastewater Plant											
01-2-11021401	Remove Existing Structure	1.00 EA	3,117	265	169	320	25	3,896	3896.12		
01-2-11021402	Stripping	250.00 SY	26	2	1	3	0	33	0.13		
01-2-11021403	Structural Excavation	3000.00 CY	5,134	436	279	526	41	6,417	2.14		
01-2-11021404	Cast-in-place Concrete	49.00 CY	7,768	660	421	797	63	9,710	198.15		
01-2-11021405	Sluice Gate, 4' X 4'	1.00 EA	13,584	1,155	737	1,393	110	16,979	16979		
01-2-11021406	Steel Sheet Pile Cofferdam	6603.00 SF	124,991	10,624	6,781	12,816	1,010	156,222	23.66		
01-2-11021408	Flap Gate, 4' X 4'	1.00 EA	4,687	398	254	481	38	5,858	5857.69		
01-2-11021409	48" Reinforced Concrete Pipe	38.00 LF	2,328	198	126	239	19	2,909	76.56		
01-2-11021410	Sand Bedding Material	13.00 CY	243	21	13	25	2	304	23.36		
01-2-11021411	Backfill w/hand Compaction	100.00 CY	693	59	38	71	6	866	8.66		
01-2-11021412	Backfill w/machine Compaction	2887.00 CY	3,231	275	175	331	26	4,039	1.40		
01-2-11021413	Topsoil	250.00 SY	388	33	21	40	3	485	1.94		
01-2-11021414	Seed & Fertilize	0.05 AC	109	9	6	11	1	136	2723.21		
01-2-11021417	Miscellaneous Steel	0.25 TON	1,799	153	98	184	15	2,249	8995.26		
TOTAL Structure @ Wastewater Plant			168,100	14,288	9,119	17,236	1,358	210,102			
01-2-110215 Structure @ Glass & Second St.											
01-2-11021501	Remove Existing Structure	1.00 EA	3,117	265	169	320	25	3,896	3896.12		
01-2-11021502	Stripping	300.00 SY	31	3	2	3	0	39	0.13		
01-2-11021503	Structural Excavation	1000.00 CY	1,711	145	93	175	14	2,139	2.14		
01-2-11021504	Cast-in-place Concrete	173.00 CY	27,428	2,331	1,488	2,812	222	34,281	198.15		
01-2-11021505	Sluice Gate, 10' X 7'	1.00 EA	60,203	5,117	3,266	6,173	486	75,246	75246		
01-2-11021506	Steel Sheet Pile Cofferdam	6603.00 SF	124,991	10,624	6,781	12,816	1,010	156,222	23.66		
01-2-11021508	Flap Gate, 6' X 6'	2.00 EA	21,289	1,810	1,155	2,183	172	26,609	13304		
01-2-11021510	Sand Bedding Material	100.00 CY	1,869	159	101	192	15	2,336	23.36		
01-2-11021511	Backfill w/hand Compaction	200.00 CY	1,386	118	75	142	11	1,733	8.66		
01-2-11021512	Backfill w/machine Compaction	800.00 CY	895	76	49	92	7	1,119	1.40		
01-2-11021513	Topsoil	300.00 SY	461	39	25	47	4	577	1.92		
01-2-11021514	Seed & Fertilize	0.06 AC	131	11	7	13	1	163	2723.21		
01-2-11021517	Miscellaneous Steel	1.00 TON	7,197	612	390	738	58	8,995	8995.26		
01-2-11021518	Blanket Stone	139.00 TON	3,945	335	214	404	32	4,930	35.47		
01-2-11021519	Riprap	325.00 TON	8,792	747	477	901	71	10,989	33.81		
01-2-11021520	Install 12' X 6' Box Culvert	10.00 LF	5,232	445	284	536	42	6,539	653.95		

		QUANTITY	UOM	DIRECT	FIELD	OF	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
TOTAL Structure @ Glass & Second St.				268,680	22,838	14,576	27,548	2,171			335,813	
01-2-110216 Structure @ Water St.												
01-2-11021601	Remove Existing Structure	1.00	EA	3,117	265	169	320	25			3,896	3896.12
01-2-11021602	Stripping	150.00	SY	16	1	1	2	0			20	0.13
01-2-11021603	Structural Excavation	400.00	CY	685	58	37	70	6			856	2.14
01-2-11021604	Cast-in-place Concrete	92.00	CY	14,586	1,240	791	1,496	118			18,230	198.15
01-2-11021605	Sluice Gate, 6' X 6'	1.00	EA	26,666	2,267	1,447	2,734	215			33,329	33329
01-2-11021606	Steel Sheet Pile Cofferdam	6603.00	SF	124,991	10,624	6,781	12,816	1,010			156,222	23.66
01-2-11021608	Flap Gate, 6' X 6'	1.00	EA	10,683	908	580	1,095	86			13,353	13353
01-2-11021609	72" Reinforced Concrete Pipe	54.00	LF	6,126	521	332	628	49			7,656	141.79
01-2-11021610	Sand Bedding Material	40.00	CY	748	64	41	77	6			934	23.36
01-2-11021611	Backfill w/hand Compaction	120.00	CY	832	71	45	85	7			1,040	8.66
01-2-11021612	Backfill w/machine Compaction	1400.00	CY	1,567	133	85	161	13			1,959	1.40
01-2-11021613	Topsoil	150.00	SY	234	20	13	24	2			293	1.95
01-2-11021614	Seed & Fertilize	0.03	AC	65	6	4	7	1			82	2723.21
01-2-11021618	Blanket Stone	53.00	TON	1,504	128	82	154	12			1,880	35.47
01-2-11021619	Riprap	104.00	TON	2,813	239	153	288	23			3,516	33.81
TOTAL Structure @ Water St.				194,633	16,544	10,559	19,956	1,573			243,265	
01-2-110217 Closure Str. @ Hwy. 59												
01-2-11021703	Structural Excavation	26.00	CY	119	10	6	12	1			149	5.72
01-2-11021704	Cast-in-place Concrete	282.00	CY	44,708	3,800	2,425	4,584	361			55,879	198.15
01-2-11021705	Reinforcing Steel	25673	LBS	8,427	716	457	864	68			10,533	0.41
01-2-11021708	Structural Steel	14352	LBS	14,351	1,220	779	1,471	116			17,937	1.25
01-2-11021709	Miscellaneous Hardware	1.00	JOB	450	38	24	46	4			562	562.20
01-2-11021710	Miscellaneous J-Seals	1.00	JOB	2,004	170	109	205	16			2,504	2504.34
01-2-11021711	Backfill w/hand Compaction	6.50	CY	45	4	2	5	0			56	8.66
TOTAL Closure Str. @ Hwy. 59				70,104	5,959	3,803	7,188	566			87,621	
01-2-110218 Closure Str. @ S.P. Railroad												
01-2-11021803	Structural Excavation	26.00	CY	119	10	6	12	1			149	5.72
01-2-11021804	Cast-in-place Concrete	209.00	CY	33,135	2,816	1,798	3,397	268			41,414	198.15
01-2-11021805	Reinforcing Steel	21650	LBS	7,131	606	387	731	58			8,912	0.41
01-2-11021806	Sheet Pile	586.00	SF	7,939	675	431	814	64			9,923	16.93
01-2-11021808	Structural Steel	6726.00	LBS	6,150	523	334	631	50			7,687	1.14
01-2-11021809	Miscellaneous Hardware	1.00	JOB	1,979	168	107	203	16			2,474	2473.70
01-2-11021811	Backfill w/hand Compaction	4.00	CY	28	2	2	3	0			35	8.66
TOTAL Closure Str. @ S.P. Railroad				56,481	4,801	3,064	5,791	456			70,594	
TOTAL Levee Drainage				1,519,906	129,192	82,455	155,840	12,281			1,899,673	

		QUANTITY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
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01-2-1104 Levee Permanent Access Roads												
01-2-110402 Site Work												
01-2-11040201	Aggregate Base Course	440.00	CY	8,245	701	447	845	67	10,305	23.42		
01-2-11040202	Bituminous Prime Coat	615.00	GAL	620	53	34	64	5	774	1.26		
01-2-11040203	Bituminous Surface Course	155.00	TON	5,074	431	275	520	41	6,342	40.92		
01-2-11040204	Gravel Surface Course	15.00	TON	682	58	37	70	6	853	56.85		
01-2-11040205	Install Barrier Gate	1.00	EA	263	22	14	27	2	328	328.36		
01-2-11040206	Remove Roadway	1235.00	SY	660	56	36	68	5	825	0.67		
TOTAL Site Work				15,543	1,321	843	1,594	126	19,427			
TOTAL Levee Permanent Access Roads				15,543	1,321	843	1,594	126	19,427			
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01-2-1111 Str. Wall Mob, Demob & Prep Work												
01-2-111101 Mob. & Demob.				30,338	2,579	1,646	3,111	245	37,918			
TOTAL Mob. & Demob.				30,338	2,579	1,646	3,111	245	37,918			
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01-2-111104 Clear, Grubb & Debris Removal												
01-2-11110401 Bank & Work Area				1.23	ACR	20,431	1,737	1,108	2,095	165	25,535	20760
TOTAL Clear, Grubb & Debris Removal				20,431	1,737	1,108	2,095	165	25,535			
TOTAL Str. Wall Mob, Demob & Prep Work				50,769	4,315	2,754	5,205	410	63,454			
-----												
01-2-1112 Structural Wall @ CP&L Plant												
01-2-111202 Site Work												
01-2-11120201	Granular Fill (Sand)	1937.00	CY	34,935	2,970	1,895	3,582	282	43,664	22.54		
01-2-11120202	Granular Fill (Crushed Stone)	3450.00	TON	97,910	8,322	5,312	10,039	791	122,374	35.47		
TOTAL Site Work				132,845	11,292	7,207	13,621	1,073	166,038			
-----												
01-2-111205 Metal												
01-2-11120501	Sheet Pile (PSA23)	58.00	TON	73,532	6,250	3,989	7,539	594	91,905	1584.57		
01-2-11120502	Sheet Pile (PZ35)	127.50	TON	119,297	10,140	6,472	12,232	964	149,105	1169.45		
01-2-11120503	Sheet Pile (PZ40), Box Pile	482.00	TON	585,949	49,806	31,788	60,079	4,734	732,355	1519.41		
01-2-11120504	Miscellaneous Steel	482.00	TON	424,745	36,103	23,042	43,550	3,432	530,873	1101.40		
01-2-11120505	Coating Systems	53654	SF	284,978	24,223	15,460	29,219	2,303	356,183	6.64		
01-2-11120506	Marine Crew Adjustments	520.00	HRS	220,686	18,758	11,972	22,628	1,783	275,828	530.44		
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\*\*\* PROJECT INDIRECT SUMMARY - LEVEL\_6 \*\*\*

		QUANTITY UOM	DIRECT	FIELD	0	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
TOTAL Metal		667.50 TON	1,709,187	145,281	92,723	175,247	13,810	2,136,249	3200.37		
01-2-111230 Bank Stabilization											
01-2-111230 1	Blanket Stone (1/4" - 4")	950.00 TON	26,961	2,292	1,463	2,764	218	33,697	35.47		
01-2-111230 2	Riprap (15# - 265#)	2540.00 TON	68,713	5,841	3,728	7,045	555	85,881	33.81		
TOTAL Bank Stabilization			95,673	8,132	5,190	9,810	773	119,578			
TOTAL Structural Wall @ CP&L Plant			1,937,706	164,705	105,121	198,678	15,656	2,421,865			
01-2-1130 Levee Construction											
01-2-113002 Site Work											
01-2-113002 1	Levee (Sidecast)	45700 CY	106,700	9,070	5,788	10,940	862	133,361	2.92		
01-2-113002 2	Levee (1 mile haul)	7000.00 CY	23,776	2,021	1,290	2,438	192	29,717	4.25		
01-2-113002 3	Levee (1.5 mile haul)	13050 CY	49,388	4,198	2,679	5,064	399	61,728	4.73		
01-2-113002 4	Slope Grading (110+69 to 113+69)	1222.00 CY	1,375	117	75	141	11	1,719	1.41		
01-2-113002 5	Blanket Stone (110+69 to 113+69)	1678.00 TON	47,621	4,048	2,583	4,883	385	59,520	35.47		
01-2-113002 6	Riprap (Sta 110+69 to 113+69)	4663.00 TON	126,144	10,722	6,843	12,934	1,019	157,663	33.81		
TOTAL Site Work			355,005	30,175	19,259	36,400	2,868	443,707			
TOTAL Levee Construction			355,005	30,175	19,259	36,400	2,868	443,707			
01-2-1199 Levee Associated General Items											
01-2-119902 Site Work (Turfig)											
01-2-119902 1	Levee Topsoil	66900 SY	103,379	8,787	5,608	10,600	835	129,210	1.93		
01-2-119902 2	Seed, Mulch & Fertilize	25.80 ACR	56,213	4,778	3,050	5,764	454	70,259	2723.21		
TOTAL Site Work (Turfig)		25.80 ACR	159,592	13,565	8,658	16,363	1,289	199,468	7731.33		
TOTAL Levee Associated General Items			159,592	13,565	8,658	16,363	1,289	199,468			
TOTAL Levees & Floodwalls			4,124,122	350,550	223,734	422,856	33,322	5,154,584			
01-2-30 Engineering & Design											
01-2-3001	Plans and Specifications (P&S)		298,255	0	0	0	0	298,255			
01-2-3004	Environmental Studies Documents		3,700	0	0	0	0	3,700			
01-2-3005	HTRW Studies/Report		500	0	0	0	0	500			
01-2-3006	Cultural Resource Studies Documents		2,500	0	0	0	0	2,500			
01-2-3007	Cost Estimates		7,049	0	0	0	0	7,049			
01-2-3008	Other Studies/Investigations		55,488	0	0	0	0	55,488			



	QUANTY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-3009	Contract Award Documents		3,745	0	0	0	0	0	0	3,745	
01-2-3010	Engineering & Design During		22,025	0	0	0	0	0	0	22,025	
01-2-3015	Local Sponsor Project Coordinat'n		3,313	0	0	0	0	0	0	3,313	
01-2-3021	VE Screening/Studies		48,548	0	0	0	0	0	0	48,548	
01-2-3022	VE Related Redesign		35,864	0	0	0	0	0	0	35,864	
TOTAL Engineering & Design			480,987	0	0	0	0	0	0	480,987	
01-2-31 Construction Management											
01-2-3102	Area Office S&A Documents		201,200	0	0	0	0	0	0	201,200	
01-2-3103	District Office S&A Documents		41,800	0	0	0	0	0	0	41,800	
TOTAL Construction Management			243,000	0	0	0	0	0	0	243,000	
TOTAL Federal			4,935,609	350,550	223,734	422,856	33,322	5,966,071			
TOTAL Construction Contract			5,709,741	374,810	239,217	452,121	35,628	6,811,518			
TOTAL Guadalupe River Levee/Wall			5,709,741	374,810	239,217	452,121	35,628	6,811,518			
Contingency										806,628	
SUBTOTAL										7,618,145	
Escalation										1,730,349	
TOTAL INCL OWNER COSTS										9,348,495	

BASELINE COST ESTIMATE  
GUADALUPE RIVER AT VICTORIA, TEXAS  
SECTION 205 FEASIBILITY STUDY

This is the baseline cost estimate for the Guadalupe River at Victoria, Texas (Victoria Levee) project. Included on the following pages are a summary of the current and fully funded costs by account code, a detailed summary of current costs, and summary reports for construction items generated by the M-CACES GOLD software. Printouts of the detailed reports are available upon request.

Unit costs developed using M-CACES GOLD were transferred to the detailed summary sheets along with the data, provided by the Project Manager, for account codes 01, 30 and 31 to compute the current project costs. Midpoints for work associated with each account code were provided by the Project Manager to develop the fully funded estimate. Inflation factors from January 1992 to the midpoints were provided by Programs Management Branch.

01 -- LANDS AND DAMAGES. The Federal and Non-Federal costs for account code 01 were provided by Real Estate Division.

02 -- RELOCATIONS. The data for relocating the various utilities and structures was provided by Design Branch.

11 -- LEVEES AND FLOODWALLS. Quantities for construction items were provided by General Engineering and Structural Sections in Design Branch. Unit costs were developed by Cost Engineering Branch using M-CACES GOLD software. Labor rates were developed using the latest wage rates available for the project area. Material quotes, obtained early in January 1992, were used to override those in the unit price book database. All material quotes are based on delivery to the project site. Construction of the five drainage structures constitutes the most complex features of the project and the contingencies associated with these structures are higher than those of the other line items. Additional information can be found in the "Reasons for Contingencies" below. Construction of the other project features are less complex and the contingencies reflect lesser risks associated with construction of these items.

30 -- PLANNING, ENGINEERING AND DESIGN. Data for account code 30 was provided by all applicable functional elements within the District.

31 -- CONSTRUCTION MANAGEMENT. Data for account code 31 was provided by Construction Branch and the Houston Area Office.

Contingencies associated with line items in the detailed summary estimates were assigned by a team composed of design and cost engineers. Design and cost engineers assigned contingencies to the construction items based on uncertainties in the quantities and unit costs, respectively. Even though the estimates for the

drainage culverts and drainage structures contain multiple line items, only one contingency was assigned to each of the culverts and structures. Contingencies for account code 01 were assigned by Real Estate Division. Reasons for the contingencies are numbered on the detailed summary sheets and described below.

REASON FOR CONTINGENCIES:

- 1 -- Uncertainty of various ownerships and title problems.
- 2 -- Uncertainty of agreement among parties involved.
- 3 -- Uncertainty of negotiated land values, availability of land owners, and willingness of land owners to sell.
- 4 -- Uncertainty of the number of condemnations that will be filed and the uncertainty of time and coordination the courts will take to try the cases.
- 5 -- Uncertainty of the number of appraisals needed because of condemnation or to establish a value for lands previously acquired by local sponsor for crediting purposes.
- 6 -- Uncertainty in the number of land owners affected.
- 7 -- Uncertainty of final negotiated land values.
- 8 -- Lack of data from CP&L as to the actual number of poles to be relocated.
- 9 -- Cost based on discussions with Southwestern Bell Telephone. They estimate the relocation would cost approximately \$80,000 with a maximum cost of \$100,000.
- 10 -- Uncertainty based on the method of relocation and cost of materials.
- 11 -- Uncertainty based on final design quantities.
- 12 -- Uncertainty based on final design requirement. Contingency is rather low because the unit price is based on the assumption that the manhole will be replaced, not just raised.
- 13 -- Uncertainty based on the lack of detailed information on the chute to be relocated.
- 14 -- Lack of information available on where the trailer is to be moved.
- 15 -- There are very few risks associated with the quantities or unit prices for the individual drainage culverts. The 20% contingency assigned to these items is to cover the cost of an additional culvert that may be required.
- 16 -- Uncertainty based on preliminary design and some possibility that a steel sheet pile cut-off wall may be required. Additional soil borings are necessary to finalize the design.
- 17 -- Uncertainty based on preliminary design and a high possibility that, based on available soils data, foundation piling may be required to support the structure. Additional soil borings are necessary to finalize the design.
- 18 -- Uncertainty based on preliminary design and potential problems in removing the existing structure and

excavating for the new structure. Some type of soil retention system may be required to prevent damages to adjacent private residences.

- 19 -- Rather low contingencies have been assigned to these items. There is little risk associated with either the quantities or the unit costs.
- 20 -- Uncertainty in the depth of the existing roadway to be removed.
- 21 -- Uncertainty in the cubic yards of debris to be hauled to the disposal area.
- 22 -- High degree of uncertainty associated with the quantity of concrete that is below ground.
- 23 -- High degree of uncertainty associated with extent of associated piping to be removed.
- 24 -- Some uncertainty in the quantity of fencing to be removed. Rather low contingency assigned since some salvage is possible.
- 25 -- Uncertainty based on quantity of material available at the nearest borrow area. Existing drilling and mud tanks in this borrow area may require borrowing from another area, thereby increasing the average haul distance.
- 26 -- Uncertainty in quantity of stripped material suitable for topsoil. Some stripped materials may need to be loaded and hauled from the borrow areas.
- 27 -- Uncertainty based on preliminary design. Transition sections between the levee and the structural wall have not been designed. The congested work site increases the risk associated with the assumed production rates.

GUADALUPE RIVER AT VICTORIA, TEXAS

ACCOUNT CODE	CURRENT COST	MIDPOINT	OMB INFLATION FACTOR	FULLY FUNDED ESTIMATE
<b>NON-FEDERAL PROJECT COSTS</b>				
01 Lands & Damages	469,000	May 93	1.070	502,000
02 Relocations	152,000	Aug 93	1.081	164,000
30 Planning, Engineering & Design	4,000	May 92	1.059	4,000
31 Construction Management	5,000	Aug 93	1.163	6,000
Subtotal	630,000			676,000
Additional Cash Contribution	439,000			555,000
<b>TOTAL NON-FEDERAL PROJECT COSTS</b>	<b>1,069,000</b>			<b>1,231,000</b>
<b>FEDERAL PROJECT COSTS</b>				
01 Lands & Damages	52,000	May 93	1.070	56,000
11 Levees and Floodwalls	2,865,000	May 95	1.153	3,303,000
30 Planning, Engineering & Design	524,000	Nov 93	1.183	620,000
31 Construction Management	205,000	May 95	1.304	267,000
Subtotal	3,646,000			4,246,000
Less Non-Federal Contribution	439,000			555,000
<b>TOTAL FEDERAL PROJECT COSTS</b>	<b>3,207,000</b>			<b>3,691,000</b>
<b>TOTAL PROJECT COST</b>	<b>4,276,000</b>			<b>4,922,000</b>

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** NON-FEDERAL PROJECT COSTS ***								
01	LANDS AND DAMAGES							
01B	Post-Authorization Planning	1	LS	10,500.00	10,500	1,575	15%	1
01C	Local Cooperative Agreements (LCA)	1	LS	1,750.00	1,750	175	10%	2
01D	Acquisitions	1	LS	204,750.00	204,750	40,950	20%	3
01E	Condemnations (Post-DT Filing)	1	LS	12,600.00	12,600	2,520	20%	4
01F	Appraisals	1	LS	56,700.00	56,700	2,835	5%	5
01K	Temporary Permits	1	LS	18,900.00	18,900	1,134	6%	6
01M	Real Estate Payments							
01M3	Land Payments							
	R.O.W. - Levee							
	Proposed	10.0	ACR	3,000.00	30,000	7,500	25%	7
	Existing & proposed	23.1	ACR	1,000.00	23,100	5,775	25%	7
	R.O.W. - Borrow Area							
	Proposed	3.2	ACR	3,000.00	9,600	2,400	25%	7
	Proposed	19.5	ACR	1,000.00	19,500	4,875	25%	7
01M5	Damage Payments	1	LS	10,000.00	10,000	2,500	25%	7
	Subtotal, Lands and Damages (rounded)				397,000			
	Contingencies (rounded)					72,000		
01	TOTAL -- LANDS AND DAMAGES				469,000			

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** NON-FEDERAL PROJECT COSTS ***								
02	RELOCATIONS							
023	Cemetaries, Utilities and Structures							
0232	Utility Relocations							
	Relocate CP&L power poles	11	EA	677.00	7,447	2,606	35%	8
	Raise CP&L power lines	380	LF	8.02	3,048	1,067	35%	8
	Relocate telephone manhole	1	EA	83,109.00	83,109	16,622	20%	9
	Relocate tele. junction box	3	EA	1,535.00	4,605	1,382	30%	10
	Raise telephone line	200	LF	3.73	746	187	25%	11
	Raise cable T.V. line	280	LF	3.73	1,044	261	25%	11
	Raise sanitary swr manhole	1	EA	1,103.00	1,103	221	20%	12
	Subtotal, Utility Relocations				101,102	22,346		
0233	Structure Relocations							
	Relocate concrete chute	1	EA	2,679.00	2,679	670	25%	13
	Remv/reinstall chain link	2,770	LF	5.48	15,180	3,036	20%	11
	Replace barbed wire fence	1,650	LF	3.10	5,115	1,023	20%	11
	Relocate house trailer	1	EA	611.00	611	122	20%	14
	Subtotal, Structure Relocations				23,585	4,851		
	Subtotal, Relocations (rounded)				125,000			
	Contingencies (rounded)					27,000		
02	TOTAL -- RELOCATIONS				152,000			

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** NON-FEDERAL PROJECT COSTS ***								
30	PLANNING, ENGINEERING & DESIGN							
30H	Plans and Specifications							
30HA	Draft P&S				2,000	400		
30HB	Final P&S				1,000	200		
30HC	Design revisions				0	0		
30HD	Subsurface explorations				0	0		
30HE	Sampling, testing and analysis				0	0		
30HF	Model development and testing				0	0		
30HG	Predesign investigations				0	0		
30HH	Pilot studies				0	0		
30HJ	AE contract administration				0	0		
30HK	AE review				0	0		
30HL	Value engineering (VE) screening				0	0		
30HM	VE studies				0	0		
30HN	VE related revisions				0	0		
30HO	BCO review				0	0		
30HY	All other				0	0		
30J	Engineering During Construction (EDC)							
30J1	AE contract award/administration				0	0		
30J2	AE review				0	0		
30J3	Value engineering change proposals (VECP)				0	0		
30J4	Review of E&D effort by construction contractor				0	0		
30J5	Periodic inspections				0	0		
30J9	All other				0	0		
30K	AE Liability Actions				0	0		
30L	Damages Assessed E&D Contractors				0	0		
30M	Cost Engineering				0	0		
30N	Construction and Supply Contract Award Activities							
30N1	Preparation of bid documents				0	0		
30N2	Contract negotiations				0	0		
30N3	Contracting office activities				0	0		
30N9	All other				0	0		
30O	AE Contractor Initiated Claims				0	0		
30Z	Miscellaneous Activities				0	0		
					-----	-----		
	Subtotal, Planning, Engineering & Design (rounded)				3,000			
	Contingencies (rounded)					1,000		
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				4,000			



GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** NON-FEDERAL PROJECT COSTS ***								
31	CONSTRUCTION MANAGEMENT							
31B	Contract Administration							
31B1	Pre-award activities				950	95		
31B2	Award activities				1,604	160		
31B3	Review and approval of contract payments				693	69		
31B4	Contract modifications				0	0		
31B5	Progress and completion reports				0	0		
31B9	All other				0	0		
31C	Bench Marks and Baselines				0	0		
31D	Review of Shop Drawings				0	0		
31E	Inspection and Quality Assurance							
31E1	Schedule compliance				1,617	162		
31E2	Compliance sampling and testing				0	0		
31E3	Quality surveys				0	0		
31E4	TITLE II services				0	0		
31E9	All other				0	0		
31F	Project Office Operation				0	0		
31G	Damages Assessed Contractors				0	0		
31H	Contractor Initiated Claims and Litigations				0	0		
31J	Government/Sponsor Initiated Claims and Litigations				0	0		
	Subtotal, Construction Management (rounded)				5,000			
	Contingencies (rounded)					0		
31	TOTAL -- CONSTRUCTION MANAGEMENT							
					5,000			
	Subtotal, Non-Federal Project Costs				530,000			
	Subtotal, Contingencies					100,000		
	Additional Non-Federal Cash Contribution				439,000			
	TOTAL -- NON-FEDERAL PROJECT COST				1,069,000			

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
01	LANDS AND DAMAGES							
01B	Post-Authorization Planning	1	LS	10,500.00	10,500	1,575	15%	1
01C	Local Cooperative Agreements (LCA)	1	LS	1,750.00	1,750	175	10%	2
01D	Acquisitions	1	LS	22,750.00	22,750	4,550	20%	3
01E	Condemnations (Post-DT Filing)	1	LS	1,400.00	1,400	280	20%	4
01F	Appraisals	1	LS	6,300.00	6,300	315	5%	5
01K	Temporary Permits	1	LS	2,100.00	2,100	126	6%	6
	Subtotal, Lands and Damages (rounded)				45,000			
	Contingencies (rounded)					7,000		
01	TOTAL -- LANDS AND DAMAGES				52,000			
11	LEVEES AND FLOODWALLS							
111	Levees							
1111	Drainage							
	Drainage Culvert at Ben Jordan east of Bottom Street							
	Structural excavation	160	CY	2.71	434			
	Install 42" RCP CIs III	160	LF	63.90	10,224			
	Precast concrete headwll	4	EA	937.00	3,748			
	Backfill w/hand compact.	28	CY	5.80	162			
	Backfill w/machine comp.	24	CY	4.36	105			
	Haul excess excavation	78	CY	4.30	335			
	Remove roadway	16	SY	3.28	52			
	Contingency					3,012	20%	15
	Drainage Culvert at Bottom Street							
	Structural excavation	163	CY	2.71	442			
	Install 36" RCP CIs III	300	LF	42.19	12,657			
	Precast concrete headwll	2	EA	765.00	1,530			
	Backfill w/hand compact.	57	CY	5.80	331			
	Backfill w/machine comp.	49	CY	4.36	214			
	Haul excess excavation	57	CY	4.30	245			
	Contingency					3,084	20%	15

GUADALUPE RIVER AT VICTORIA, TEXAS  
FEASIBILITY STUDY  
BASELINE COST ESTIMATE  
JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
	Drainage Culvert at Church Street							
	Structural excavation	76	CY	2.71	206			
	Install 48" RCP CIs III	50	LF	80.88	4,044			
	Precast concrete headwall	2	EA	1,222.00	2,444			
	Backfill w/hand compact.	29	CY	5.80	168			
	Backfill w/machine comp.	24	CY	4.36	105			
	Haul excess excavation	23	CY	4.30	99			
	Remove roadway	13	SY	3.27	43			
	Contingency					1,422	20%	15
	Drainage Culvert at Victoria Street							
	Structural excavation	4	CY	2.71	11			
	Install 12" RCP CIs III	22	LF	10.62	234			
	Precast concrete headwall	2	EA	282.00	564			
	Backfill w/hand compact.	2	CY	5.80	12			
	Backfill w/machine comp.	2	CY	4.36	9			
	Ditch excavation	152	CY	1.25	190			
	Contingency					204	20%	15
	Drainage Culvert at South End of Borrow Area No. 3							
	Structural excavation	815	CY	2.71	2,209			
	Install 24" RCP CIs III	275	LF	22.02	6,056			
	Precast concrete headwall	1	EA	421.00	421			
	Concrete manhole, 8' x 8'	1	EA	4,334.00	4,334			
	Backfill w/hand compact.	450	CY	5.80	2,610			
	Backfill w/machine comp.	170	CY	4.36	741			
	Haul excess excavation	195	CY	4.30	839			
	Contingency					3,442	20%	15
	Drainage Structure at South Outfall							
	Stripping	16,030	SY	0.32	5,130			
	Structural excavation	3,664	CY	2.71	9,929			
	Sluice gate, 5' x 5'	6	EA	20,939.00	125,634			
	Cast-in-place concrete	171	CY	328.51	56,175			
	48" RCP, Class IV	1,374	LF	85.80	117,889			
	Regrade dirt roadway	1,400	SY	0.39	546			
	Backfill w/hand compact.	1,610	CY	5.80	9,338			
	Backfill w/machine comp.	1,414	CY	4.36	6,165			
	Haul excess excavation	832	CY	4.30	3,578			
	Topsoil	16,030	SY	0.83	13,305			
	Seed and fertilize	3.3	ACR	1,192.00	3,934			
	Flap gate, 5' x 5'	3	EA	17,226.00	51,678			
	Contingency					120,990	30%	16

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
	Drainage Structure at Elder Street							
	Remove existing struct.	1	LS	1,685.00	1,685			
	Stripping	2,000	SY	0.32	640			
	Structural excavation	9,300	CY	2.71	25,203			
	60" RCP, Class IV	151	LF	133.75	20,196			
	Cast-in-place concrete	62	CY	328.52	20,368			
	Sluice gate, 5'x 5'	1	EA	20,939.00	20,939			
	Sand bedding material	55	CY	19.39	1,066			
	Backfill w/hand compact.	2,145	CY	5.80	12,441			
	Backfill w/machine comp.	7,100	CY	4.36	30,956			
	Stl sheet pile cofferdam	6,603	SF	14.25	94,093			
	Topsoil	2,000	SY	0.83	1,660			
	Seed and fertilize	0.4	ACR	1,192.00	477			
	Flap gate, 60"	1	EA	7,215.00	7,215			
	Contingency					94,776	40%	17
	Drainage Structure at Wastewater Plant							
	Remove existing struct.	1	LS	1,444.00	1,444			
	Stripping	250	SY	0.32	80			
	Structural excavation	3,000	CY	2.71	8,130			
	48" RCP, Class IV	38	LF	85.80	3,260			
	Cast-in-place concrete	48	CY	328.56	15,771			
	Sluice gate, 4'x 4'	1	EA	11,524.00	11,524			
	Miscellaneous steel	500	LBS	1.28	640			
	Sand bedding material	13	CY	19.39	252			
	Backfill w/hand compact.	100	CY	5.80	580			
	Backfill w/machine comp.	2,887	CY	4.36	12,587			
	Stl sheet pile cofferdam	6,603	SF	14.25	94,093			
	Topsoil	250	SY	0.83	208			
	Seed and fertilize	0.05	ACR	1,192.00	60			
	Contingency					59,452	40%	17

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
	Drainage Structure at Glass and Second Streets							
	Remove existing struct.	1	LS	2,407.00	2,407			
	Stripping	300	SY	0.32	96			
	Structural excavation	1,000	CY	2.71	2,710			
	12'x 6' box culvert	10	LF	364.12	3,641			
	Cast-in-place concrete	171	CY	328.51	56,175			
	Sluice gate, 10'x 7'	1	EA	72,604.00	72,604			
	Flap gate, 6'x 6'	2	EA	22,354.00	44,708			
	Miscellaneous steel	2,000	LBS	1.28	2,560			
	Sand bedding material	100	CY	19.39	1,939			
	Backfill w/hand compact.	200	CY	5.80	1,160			
	Backfill w/machine comp.	800	CY	4.36	3,488			
	Stl sheet pile cofferdam	6,603	SF	14.25	94,093			
	Topsoil	300	SY	0.83	249			
	Seed and fertilize	0.06	ACR	1,192.00	72			
	Contingency					114,361	40%	18
	Drainage Structure at Water Street							
	Remove existing struct.	1	LS	4,813.00	4,813			
	Stripping	150	SY	0.32	48			
	Structural excavation	400	CY	2.71	1,084			
	Install 72" RCP	54	LF	159.57	8,617			
	Cast-in-place concrete	90	CY	328.52	29,567			
	Sluice gate, 6'x 6'	1	EA	24,543.00	24,543			
	Flap gate, 6'x 6'	1	EA	22,354.00	22,354			
	Miscellaneous steel	2,000	LBS	1.28	2,560			
	Sand bedding material	18	CY	19.39	349			
	Backfill w/hand compact.	120	CY	5.80	696			
	Backfill w/machine comp.	1,400	CY	4.36	6,104			
	Stl sheet pile cofferdam	6,603	SF	14.25	94,093			
	Topsoil	150	SY	0.83	125			
	Seed and fertilize	0.03	ACR	1,192.00	36			
	Contingency					77,996	40%	18
111C	Permanent Access Roads and Parking							
	Aggregate base course	490	CY	39.35	19,282	3,856	20%	19
	Bituminous prime coat	229	CSF	0.83	190	38	20%	19
	Bituminous surface course	177	TON	43.84	7,760	1,552	20%	19
	Gravel surface course	15	CY	39.35	590	118	20%	19
	Install Barrier Gate	1	EA	672.00	672	134	20%	19

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
111D	Site Work							
	Demolition							
	Remove roadway	4,440	SY	3.28	14,563	3,641	25%	20
	Remove chicken shed	400	SF	2.76	1,104	276	25%	21
	Remove houses (4 each)	5,700	SF	3.91	22,287	5,572	25%	21
	Remove tin shed	2,250	SF	2.76	6,210	1,553	25%	21
	Remove concrete RR dock	16	CY	106.05	1,697	764	45%	22
	Remove concrete tank	6	CY	106.05	636	254	40%	23
	Remove chain link fence	1,000	LF	1.04	1,040	208	20%	24
	Clearing, Grubbing & Debris Removal							
	Borrow areas	7.7	ACR	1,138.91	8,770	2,193	25%	21
	Rehabilitated levee	1.8	ACR	4,521.23	8,138	2,035	25%	21
	New levee	6.2	ACR	2,847.27	17,653	4,413	25%	21
	Stripping							
	Borrow areas	110,000	SY	0.32	35,200	7,040	20%	19
	Rehabilitated levee	12,500	SY	0.32	4,000	800	20%	19
	New levee	54,000	SY	0.32	17,280	3,456	20%	19
	Levee Construction							
	Levee (sidecast)	73,600	CY	3.58	263,488	52,698	20%	19
	Levee (1.5-mile haul)	54,400	CY	5.00	272,000	68,000	25%	25
	Turfing							
	Topsoil	75,020	SY	0.83	62,267	18,680	30%	26
	Seed, mulch & fertilize	15.5	ACR	2,076.29	32,182	6,436	20%	19
111R	Associated General Items							
	Structural Wall at CP&L Power Plant							
	Structural excavation	50	CY	2.71	136			
	Steel plate buttresses	24,327	LBS	1.88	45,735			
	Cast-in-place concrete	34	CY	402.44	13,683			
	Backfill w/hand compact.	25	CY	5.80	145			
	Haul excess excavation	25	CY	4.30	108			
	Contingency					20,932	35%	27
	Subtotal, Levees and Floodwalls (rounded)				2,182,000			
	Contingencies (rounded)					683,000		
11	TOTAL -- LEVEES AND FLOODWALLS				2,865,000			

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
30	PLANNING, ENGINEERING & DESIGN							
30A	Planning				25,000	4,000		
30C	Local Cooperative Agreements (LCA)							
30C2	Final LCA				1,750	350		
30H	Plans and Specifications							
30HA	Draft P&S				74,504	14,901		
30HB	Final P&S				96,800	12,294		
30HC	Design revisions				25,136	3,869		
30HD	Subsurface explorations				10,093	707		
30HE	Sampling, testing and analysis				7,093	497		
30HF	Model development and testing				0	0		
30HG	Predesign investigations				46,239	6,189		
30HH	Pilot studies				0	0		
30HJ	AE contract administration				0	0		
30HK	AE review				0	0		
30HL	Value engineering (VE) screening				0	0		
30HM	VE studies				58,076	1,615		
30HN	VE related revisions				13,870	2,773		
30HO	BCO review				27,548	3,477		
30HY	All other				0	0		
30J	Engineering During Construction (EDC)							
30J1	AE contract award/administration				0	0		
30J2	AE review				0	0		
30J3	Value engineering change proposals (VECP)				4,798	960		
30J4	Review of E&D effort by construction contractor				5,684	1,137		
30J5	Periodic inspections				26,147	4,223		
30J9	All other				0	0		
30K	AE Liability Actions				0	0		
30L	Damages Assessed E&D Contractors				0	0		
30M	Cost Engineering				16,300	3,300		
30N	Construction and Supply Contract Award Activities							
30N1	Preparation of bid documents				500	200		
30N2	Contract negotiations				0	0		
30N3	Contracting office activities				900	400		
30N9	All other				800	300		
30O	AE Contractor Initiated Claims				0	0		
30Z	Miscellaneous Activities				17,362	3,472		
	Subtotal, Planning, Engineering & Design (rounded)				459,000			
	Contingencies (rounded)					65,000		
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				524,000			

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
*** FEDERAL PROJECT COSTS ***								
31	CONSTRUCTION MANAGEMENT							
31B	Contract Administration							
31B1	Pre-award activities				8,253	826		
31B2	Award activities				3,342	335		
31B3	Review and approval of contract payments				6,990	699		
31B4	Contract modifications				12,719	1,272		
31B5	Progress and completion reports				8,777	878		
31B9	All other				13,139	1,314		
31C	Bench Marks and Baselines				0	0		
31D	Review of Shop Drawings				5,607	561		
31E	Inspection and Quality Assurance							
31E1	Schedule compliance				103,317	10,332		
31E2	Compliance sampling and testing				7,141	714		
31E3	Quality surveys				0	0		
31E4	TITLE II services				0	0		
31E9	All other				6,330	633		
31F	Project Office Operation				0	0		
31G	Damages Assessed Contractors				0	0		
31H	Contractor Initiated Claims and Litigations				8,134	813		
31J	Government/Sponsor Initiated Claims and Litigations				1,812	181		
	Subtotal, Construction Management (rounded)				186,000			
	Contingencies (rounded)					19,000		
31	TOTAL -- CONSTRUCTION MANAGEMENT					205,000		



GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 BASELINE COST ESTIMATE  
 JANUARY 1992 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %	REASONS
	Subtotal, Federal Project Costs				2,872,000			
	Subtotal, Contingencies					774,000		
	Less Non-Federal Cash Contribution				439,000			
	TOTAL -- FEDERAL PROJECT COST				3,207,000			
	Subtotal, Project Costs				3,402,000			
	Subtotal, Contingencies					874,000		
	TOTAL CURRENT PROJECT COST				4,276,000			

11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE

TIME 05:25:07  
TITLE PAGE

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GUADALUPE RIVER  
Flood Protection Levee

Designed By: CESWG-ED  
Estimated By: JKB, DLM

Prepared By: U.S. Army Corps of Engineers  
Galveston, Texas

Date: 01/31/92

M C A C E S G O L D E D I T I O N  
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LABOR ID: SARGNT EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691 UPB ID: RG0691

Tue 17 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE

TIME 08:28:01

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No Detailed Estimate...

No Backup Reports...

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11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT OWNER SUMMARY - LEVEL 1 \*\*

TIME 08:25:07

SUMMARY PAGE

	QUANTY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02 CONSTRUCTION		2,308,114	0	0	2,308,114	
GUADALUPE RIVER		2,308,114	0	0	2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT OWNER SUMMARY - LEVEL 2 \*\*

TIME 05:25:01

SUMMARY PAGE 2

	QUANTY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02 CONSTRUCTION						
02_02 Relocations		124,695	0	0	124,695	
02_11 Levees and Floodwalls		2,183,419	0	0	2,183,419	
CONSTRUCTION						
		2,308,114	0	0	2,308,114	
GUADALUPE RIVER						
		2,308,114	0	0	2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

0 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GJAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT OWNER SUMMARY - LEVEL 3 \*\*

TIME 08:28:01

SUMMARY PAGE 1

-----  
QUANTITY UOM CONTRACT CONTINGY ESCALATN TOTAL COST UNIT  
-----

02 CONSTRUCTION

02\_02 Relocations

02_02.3 Cemeteries/Utilities/Structures		124,695	0	0	124,695
Relocations		124,695	0	0	124,695

02\_11 Levees and Floodwalls

02_11.1 Levees		2,183,419	0	0	2,183,419
Levees and Floodwalls		2,183,419	0	0	2,183,419
CONSTRUCTION		2,308,114	0	0	2,308,114
GUADALUPE RIVER		2,308,114	0	0	2,308,114

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT OWNER SUMMARY - LEVEL 4 \*\*

TIME 08:28:01

SUMMARY PAGE 4

	QUANTITY	UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02 CONSTRUCTION							
02_02 Relocations							
02_02.3 Cemeteries/Utilities/Structures							
02_02.3.2	Utility Relocations		101,101	0	0	101,101	
02_02.3.3	Structure Relocations		23,594	0	0	23,594	
	Cemeteries/Utilities/Structures		124,695	0	0	124,695	
	Relocations		124,695	0	0	124,695	
02_11 Levees and Floodwalls							
02_11.1 Levees							
02_11.1.1	Drainage		1,325,613	0	0	1,325,613	
02_11.1.C	Permanent Access Roads & Parking		28,494	0	0	28,494	
02_11.1.D	Site Work		769,410	0	0	769,410	
02_11.1.R	Associated General Items		59,902	0	0	59,902	
	Levees		2,183,419	0	0	2,183,419	
	Levees and Floodwalls		2,183,419	0	0	2,183,419	
	CONSTRUCTION		2,308,114	0	0	2,308,114	
	GUADALUPE RIVER		2,308,114	0	0	2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 5 \*\*

TIME 08:28:07

SUMMARY PAGE 5

		QUANTITY	UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02 CONSTRUCTION								
02_02 Relocations								
02_02.3 Cemeteries/Utilities/Structures								
02_02.3.2 Utility Relocations								
02_02.3.2_1	Relocate CP&L Power Poles	11.00	EA	7,447	0	0	7,447	676.96
02_02.3.2_2	Raise CP&L Power Lines	380.00	LF	3,049	0	0	3,049	8.02
02_02.3.2_3	Relocate Telephone Manhole			83,108	0	0	83,108	
02_02.3.2_4	Relocate Telephone Junction Box	3.00	EA	4,605	0	0	4,605	1535.10
02_02.3.2_5	Raise Telephone Line	200.00	LF	746	0	0	746	3.73
02_02.3.2_6	Raise Cable TV Line	280.00	LF	1,044	0	0	1,044	3.73
02_02.3.2_8	Raise Sanitary Sewer Manhole			1,103	0	0	1,103	
Utility Relocations				101,101	0	0	101,101	
02_02.3.3 Structure Relocations								
02_02.3.3_1	Relocate Concrete Chute			2,679	0	0	2,679	
02_02.3.3_2	Remove/Replace Chain Link Fence	2770.00	LF	15,187	0	0	15,187	5.48
02_02.3.3_3	Remove/Replace Barbed Wire Fence	1650.00	LF	5,118	0	0	5,118	3.10
02_02.3.3_4	Relocate House Trailer			611	0	0	611	
Structure Relocations				23,594	0	0	23,594	
Cemeteries/Utilities/Structures				124,695	0	0	124,695	
Relocations				124,695	0	0	124,695	
02_11 Levees and Floodwalls								
02_11.1 Levees								
02_11.1.1 Drainage								
02_11.1.1_1	Drainage Culvert at Ben Jordan	160.00	LF	15,061	0	0	15,061	94.13
02_11.1.1_2	Drainage Culvert at Bottom St.	300.00	LF	15,417	0	0	15,417	51.39
02_11.1.1_3	Drainage Culvert at Church St.	50.00	LF	7,107	0	0	7,107	142.14
02_11.1.1_4	Drainage Culvert at Victoria St.	22.00	LF	1,017	0	0	1,017	46.25
02_11.1.1_5	Drainage Culvert at Borrow Area	275.00	LF	17,207	0	0	17,207	62.57
02_11.1.1_6	Structure at South Outfall			403,324	0	0	403,324	

LABOR ID: SARGNT EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691 UPB ID: RG0691



Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEEVE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 5 \*\*

TIME 05:28:01

SUMMARY PAGE 6

	QUANTY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02_11.1.1_7	Structure at Elder Street	236,933	0	0	236,933	
02_11.1.1_8	Structure at Wastewater Plant	148,634	0	0	148,634	
02_11.1.1_9	Structure at Glass and Second St	285,914	0	0	285,914	
02_11.1.1_10	Structure at Water Street	194,998	0	0	194,998	
	Drainage	1,325,613	0	0	1,325,613	
02_11.1.C Permanent Access Roads & Parking						
02_11.1.C_1	Aggregate Base Course	490.00 CY	19,281	0	19,281	39.35
02_11.1.C_2	Bituminous Prime Coat	229.00 CSF	190	0	190	0.83
02_11.1.C_3	Bituminous Surface Course	177.00 TON	7,760	0	7,760	43.84
02_11.1.C_4	Gravel Surface Course	15.00 CY	590	0	590	39.35
02_11.1.C_5	Barrier Gate		672	0	672	
	Permanent Access Roads & Parking		28,494	0	28,494	
02_11.1.D Site Work						
02_11.1.D_1	Demolition		47,572	0	47,572	
02_11.1.D_2	Clearing/Grubbing/Debris Removal	15.70 ACR	34,561	0	34,561	2201.33
02_11.1.D_3	Stripping	176500 SY	56,993	0	56,993	0.32
02_11.1.D_4	Levee Construction	128000 CY	535,902	0	535,902	4.19
02_11.1.D_5	Turfing	15.50 ACR	94,382	0	94,382	6089.18
	Site Work		769,410	0	769,410	
02_11.1.R Associated General Items						
02_11.1.R_1	Structural Wall at CP&L Plant	795.00 LF	59,902	0	59,902	75.35
	Associated General Items		59,902	0	59,902	
	Levees		2,183,419	0	2,183,419	
	Levees and Floodwalls		2,183,419	0	2,183,419	
	CONSTRUCTION		2,308,114	0	2,308,114	
	GUADALUPE RIVER		2,308,114	0	2,308,114	

LABOR ID: SARGNT

EQUIP ID: RGD691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RGD691

11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

TIME 08:28:01  
SUMMARY PAGE 7

	QUANTITY	UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02 CONSTRUCTION							
02_02 Relocations							
02_02.3 Cemeteries/Utilities/Structures							
02_02.3.2 Utility Relocations							
02_02.3.2_1 Relocate CP&L Power Poles							
	Relocate CP&L Power Poles	11.00 EA	7,447	0	0	7,447	676.96
02_02.3.2_2 Raise CP&L Power Lines							
	Raise CP&L Power Lines	380.00 LF	3,049	0	0	3,049	8.02
02_02.3.2_3 Relocate Telephone Manhole							
	Relocate Telephone Manhole		83,108	0	0	83,108	
02_02.3.2_4 Relocate Telephone Junction Box							
	Relocate Telephone Junction Box	3.00 EA	4,605	0	0	4,605	1535.10
02_02.3.2_5 Raise Telephone Line							
	Raise Telephone Line	200.00 LF	746	0	0	746	3.73
02_02.3.2_6 Raise Cable TV Line							
	Raise Cable TV Line	280.00 LF	1,044	0	0	1,044	3.73
02_02.3.2_8 Raise Sanitary Sewer Manhole							

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

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U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

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	QUANTY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
Raise Sanitary Sewer Manhole		1,103	0	0	1,103	
Utility Relocations		101,101	0	0	101,101	
02_02.3.3 Structure Relocations						
02_02.3.3_1 Relocate Concrete Chute						
Relocate Concrete Chute		2,679	0	0	2,679	
02_02.3.3_2 Remove/Replace Chain Link Fence						
Remove/Replace Chain Link Fence	2770.00 LF	15,187	0	0	15,187	5.48
02_02.3.3_3 Remove/Replace Barbed Wire Fence						
Remove/Replace Barbed Wire Fence	1650.00 LF	5,118	0	0	5,118	3.10
02_02.3.3_4 Relocate House Trailer						
Relocate House Trailer		611	0	0	611	
Structure Relocations		23,594	0	0	23,594	
Cemetaries/Utilities/Structures		124,695	0	0	124,695	
Relocations		124,695	0	0	124,695	
02_11 Levees and Floodwalls						
02_11.1 Levees						
02_11.1.1 Drainage						
02_11.1.1_1 Drainage Culvert at Ben Jordan						
Structural Excavation	160.00 CY	433	0	0	433	2.71

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 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

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SUMMARY PAGE 6

		QUANTITY	UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02_11.1.1_1.2	42" RCP, Class III	160.00	LF	10,224	0	0	10,224	63.90
02_11.1.1_1.3	Precast Concrete Headwall	4.00	EA	3,749	0	0	3,749	937.14
02_11.1.1_1.4	Backfill with Hand Compaction	28.00	CY	162	0	0	162	5.80
02_11.1.1_1.5	Backfill with Machine Compaction	24.00	CY	105	0	0	105	4.36
02_11.1.1_1.6	Load and Haul Excess Excavation	78.00	CY	336	0	0	336	4.30
02_11.1.1_1.7	Remove Roadway	16.00	SY	52	0	0	52	3.28
Drainage Culvert at Ben Jordan		160.00	LF	15,061	0	0	15,061	94.13
02_11.1.1_2	Drainage Culvert at Bottom St.							
02_11.1.1_2.1	Structural Excavation	163.00	CY	441	0	0	441	2.71
02_11.1.1_2.2	36" RCP, Class III	300.00	LF	12,657	0	0	12,657	42.19
02_11.1.1_2.3	Precast Concrete Headwall	2.00	EA	1,530	0	0	1,530	764.95
02_11.1.1_2.4	Backfill with Hand Compaction	57.00	CY	331	0	0	331	5.80
02_11.1.1_2.5	Backfill with Machine Compaction	49.00	CY	214	0	0	214	4.36
02_11.1.1_2.6	Load and Haul Excess Excavation	57.00	CY	245	0	0	245	4.30
Drainage Culvert at Bottom St.		300.00	LF	15,417	0	0	15,417	51.39
02_11.1.1_3	Drainage Culvert at Church St.							
02_11.1.1_3.1	Structural Excavation	76.00	CY	206	0	0	206	2.71
02_11.1.1_3.2	48" RCP, Class III	50.00	LF	4,044	0	0	4,044	80.88
02_11.1.1_3.3	Precast Concrete Headwall	2.00	EA	2,443	0	0	2,443	1221.53
02_11.1.1_3.4	Backfill with Hand Compaction	29.00	CY	168	0	0	168	5.80
02_11.1.1_3.5	Backfill with Machine Compaction	24.00	CY	105	0	0	105	4.36
02_11.1.1_3.6	Load and Haul Excess Excavation	23.00	CY	99	0	0	99	4.30
02_11.1.1_3.7	Remove Roadway	13.00	SY	43	0	0	43	3.27
Drainage Culvert at Church St.		50.00	LF	7,107	0	0	7,107	142.14
02_11.1.1_4	Drainage Culvert at Victoria St.							
02_11.1.1_4.1	Structural Excavation	4.00	CY	11	0	0	11	2.71
02_11.1.1_4.2	12" RCP, Class III	22.00	LF	234	0	0	234	10.62
02_11.1.1_4.3	Precast Concrete Headwall	2.00	EA	563	0	0	563	281.68
02_11.1.1_4.4	Backfill with Hand Compaction	2.00	CY	12	0	0	12	5.80
02_11.1.1_4.5	Backfill with Machine Compaction	2.00	CY	9	0	0	9	4.36
02_11.1.1_4.6	Ditch Excavation	152.00	CY	189	0	0	189	1.25
Drainage Culvert at Victoria St.		22.00	LF	1,017	0	0	1,017	46.25
02_11.1.1_5	Drainage Culvert at Borrow Area							
02_11.1.1_5.1	Structural Excavation	815.00	CY	2,207	0	0	2,207	2.71
02_11.1.1_5.2	24" RCP, Class III	275.00	LF	6,054	0	0	6,054	22.00

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

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U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

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			QUANTITY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02_11.1.1_	5.3	Precast Concrete Headwall		421	0	0	421	
02_11.1.1_	5.4	Concrete Manhole, 8'x 8'		4,334	0	0	4,334	
02_11.1.1_	5.7	Backfill with Hand Compaction	450.00 CY	2,610	0	0	2,610	5.80
02_11.1.1_	5.8	Backfill with Machine Compaction	170.00 CY	741	0	0	741	4.36
02_11.1.1_	5.9	Load and Haul Excess Excavation	195.00 CY	839	0	0	839	4.30
Drainage Culvert at Borrow Area			275.00 LF	17,207	0	0	17,207	62.57
02_11.1.1_ 6 Structure at South Outfall								
02_11.1.1_	6.1	Stripping	16030 SY	5,176	0	0	5,176	0.32
02_11.1.1_	6.2	Structural Excavation	3664.00 CY	9,924	0	0	9,924	2.71
02_11.1.1_	6.4	Sluice Gate, 5' x 5'	6.00 EA	125,634	0	0	125,634	20939
02_11.1.1_	6.5	Cast-in-Place Concrete	171.00 CY	56,176	0	0	56,176	328.51
02_11.1.1_	6.6	48" RCP, Class IV	1374.00 LF	117,891	0	0	117,891	85.80
02_11.1.1_	6.7	Regrade Dirt Roadway	1400.00 SY	542	0	0	542	0.39
02_11.1.1_	6.8	Backfill with Hand Compaction	1610.00 CY	9,338	0	0	9,338	5.80
02_11.1.1_	6.9	Backfill with Machine Compaction	1414.00 CY	6,163	0	0	6,163	4.36
02_11.1.1_	6.10	Load & Haul Excess Excavation	832.00 CY	3,580	0	0	3,580	4.30
02_11.1.1_	6.11	Topsoil	16030 SY	13,291	0	0	13,291	0.83
02_11.1.1_	6.12	Seed and Fertilize	3.30 ACR	3,934	0	0	3,934	1191.98
02_11.1.1_	6.13	Flap Gate, 5' x 5'	3.00 EA	51,677	0	0	51,677	17226
Structure at South Outfall				403,324	0	0	403,324	
02_11.1.1_ 7 Structure at Elder Street								
02_11.1.1_	7.1	Remove Existing Structure		1,685	0	0	1,685	
02_11.1.1_	7.2	Stripping	2000.00 SY	646	0	0	646	0.32
02_11.1.1_	7.3	Structural Excavation	9300.00 CY	25,190	0	0	25,190	2.71
02_11.1.1_	7.4	60" RCP, Class IV	151.00 LF	20,196	0	0	20,196	133.75
02_11.1.1_	7.5	Cast-in-Place Concrete	62.00 CY	20,368	0	0	20,368	328.52
02_11.1.1_	7.6	Sluice Gate, 5' x 5'		20,939	0	0	20,939	
02_11.1.1_	7.7	Sand Bedding Material	55.00 CY	1,067	0	0	1,067	19.39
02_11.1.1_	7.8	Backfill with Hand Compaction	2145.00 CY	12,442	0	0	12,442	5.80
02_11.1.1_	7.9	Backfill with Machine Compaction	7100.00 CY	30,945	0	0	30,945	4.36
02_11.1.1_	7.10	Steel Sheet Pile Cofferdam	6603.00 SF	94,106	0	0	94,106	14.25
02_11.1.1_	7.11	Topsoil	2000.00 SY	1,658	0	0	1,658	0.83
02_11.1.1_	7.12	Seed and Fertilize	0.40 ACR	477	0	0	477	1191.98
02_11.1.1_	7.13	Flap Gate, 60"		7,215	0	0	7,215	
Structure at Elder Street				236,933	0	0	236,933	
02_11.1.1_ 8 Structure at Wastewater Plant								
02_11.1.1_	8.1	Remove Existing Structure		1,444	0	0	1,444	
02_11.1.1_	8.2	Stripping	250.00 SY	81	0	0	81	0.32
02_11.1.1_	8.3	Structural Excavation	3000.00 CY	8,126	0	0	8,126	2.71

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

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11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

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		QUANTITY	UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
02_11.1.1_8.4	48" RCP, Class IV	38.00	LF	3,260	0	0	3,260	85.80
02_11.1.1_8.5	Cast-in-Place Concrete	48.00	CY	15,771	0	0	15,771	328.56
02_11.1.1_8.6	Sluice Gate, 4' x 4'			11,524	0	0	11,524	
02_11.1.1_8.7	Structural Steel	500.00	LBS	640	0	0	640	1.28
02_11.1.1_8.8	Sand Bedding Material	13.00	CY	252	0	0	252	19.39
02_11.1.1_8.9	Backfill with Hand Compaction	100.00	CY	580	0	0	580	5.80
02_11.1.1_8.10	Backfill with Machine Compaction	2887.00	CY	12,583	0	0	12,583	4.36
02_11.1.1_8.11	Steel Sheet Pile Cofferdam	6603.00	SF	94,106	0	0	94,106	14.25
02_11.1.1_8.12	Topsoil	250.00	SY	207	0	0	207	0.83
02_11.1.1_8.13	Seed and Fertilize	0.05	ACR	60	0	0	60	1191.98
Structure at Wastewater Plant				148,634	0	0	148,634	
02_11.1.1_9 Structure at Glass and Second St								
02_11.1.1_9.1	Remove Existing Structure			2,407	0	0	2,407	
02_11.1.1_9.2	Stripping	300.00	SY	97	0	0	97	0.32
02_11.1.1_9.3	Structural Excavation	1000.00	CY	2,709	0	0	2,709	2.71
02_11.1.1_9.4	12'x 6' Box Culvert	10.00	LF	3,641	0	0	3,641	364.12
02_11.1.1_9.5	Cast-in-Place Concrete	171.00	CY	56,176	0	0	56,176	328.51
02_11.1.1_9.6	Sluice Gate, 10' x 7'			72,603	0	0	72,603	
02_11.1.1_9.7	Flap Gate, 6' x 6'	2.00	EA	44,708	0	0	44,708	22354
02_11.1.1_9.8	Structural Steel	2000.00	LBS	2,561	0	0	2,561	1.28
02_11.1.1_9.9	Sand Bedding Material	100.00	CY	1,939	0	0	1,939	19.39
02_11.1.1_9.10	Backfill with Hand Compaction	200.00	CY	1,160	0	0	1,160	5.80
02_11.1.1_9.11	Backfill with Machine Compaction	800.00	CY	3,487	0	0	3,487	4.36
02_11.1.1_9.12	Steel Sheet Pile Cofferdam	6603.00	SF	94,106	0	0	94,106	14.25
02_11.1.1_9.13	Topsoil	300.00	SY	249	0	0	249	0.83
02_11.1.1_9.14	Seed and Fertilize	0.06	ACR	72	0	0	72	1191.98
Structure at Glass and Second St				285,914	0	0	285,914	
02_11.1.1_10 Structure at Water Street								
02_11.1.1_10.1	Remove Existing Structure			4,813	0	0	4,813	
02_11.1.1_10.2	Stripping	150.00	SY	48	0	0	48	0.32
02_11.1.1_10.3	Structural Excavation	400.00	CY	1,083	0	0	1,083	2.71
02_11.1.1_10.4	72" RCP, Class IV	54.00	LF	8,617	0	0	8,617	159.57
02_11.1.1_10.5	Cast-in-Place Concrete	90.00	CY	29,566	0	0	29,566	328.52
02_11.1.1_10.6	Sluice Gate, 6' x 6'			24,542	0	0	24,542	
02_11.1.1_10.7	Flap Gate, 6' x 6'			22,354	0	0	22,354	
02_11.1.1_10.8	Structural Steel	2000.00	LBS	2,561	0	0	2,561	1.28
02_11.1.1_10.9	Sand Bedding Material	18.00	CY	349	0	0	349	19.39
02_11.1.1_10.10	Backfill with Hand Compaction	120.00	CY	696	0	0	696	5.80
02_11.1.1_10.11	Backfill with Machine Compaction	1400.00	CY	6,102	0	0	6,102	4.36
02_11.1.1_10.12	Steel Sheet Pile Cofferdam	6603.00	SF	94,106	0	0	94,106	14.25
02_11.1.1_10.13	Topsoil	150.00	SY	124	0	0	124	0.83
02_11.1.1_10.14	Seed and Fertilize	0.03	ACR	36	0	0	36	1191.98
Structure at Water Street				194,998	0	0	194,998	

LABOR ID: SARGNT EQUIP ID: RGD691

CURRENCY IN DOLLARS

CREW ID: RGD691

UPB ID: RGD691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

TIME 08:28:01

SUMMARY PAGE 12

	QUANTY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
Drainage		1,325,613	0	0	1,325,613	
02_11.1.C Permanent Access Roads & Parking						
02_11.1.C_1 Aggregate Base Course						
Aggregate Base Course	490.00 CY	19,281	0	0	19,281	39.35
02_11.1.C_2 Bituminous Prime Coat						
Bituminous Prime Coat	229.00 CSF	190	0	0	190	0.83
02_11.1.C_3 Bituminous Surface Course						
Bituminous Surface Course	177.00 TON	7,760	0	0	7,760	43.84
02_11.1.C_4 Gravel Surface Course						
Gravel Surface Course	15.00 CY	590	0	0	590	39.35
02_11.1.C_5 Barrier Gate						
Barrier Gate		672	0	0	672	
Permanent Access Roads & Parking		28,494	0	0	28,494	
02_11.1.D Site Work						
02_11.1.D_1 Demolition						
02_11.1.D_1.1 Remove Roadway	4440.00 SY	14,581	0	0	14,581	3.28
02_11.1.D_1.2 Remove Chicken Shed	400.00 SF	1,105	0	0	1,105	2.76
02_11.1.D_1.3 Remove Houses (4 each)	5700.00 SF	22,299	0	0	22,299	3.91
02_11.1.D_1.4 Remove Tin Shed	2250.00 SF	6,214	0	0	6,214	2.76
02_11.1.D_1.5 Remove Concrete RR Dock	16.00 CY	1,697	0	0	1,697	106.05
02_11.1.D_1.6 Remove Concrete Tank	6.00 CY	636	0	0	636	106.05
02_11.1.D_1.7 Remove Chain Link Fence	1000.00 LF	1,040	0	0	1,040	1.04

LABOR ID: SARGNT

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01 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUADD: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

TIME 08:28:01  
 SUMMARY PAGE 13

	QUANTITY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
Demolition		47,572	0	0	47,572	
02_11.1.D_ 2 Clearing/Grubbing/Debris Removal						
02_11.1.D_ 2. 2 Borrow Areas	7.70 ACR	8,770	0	0	8,770	1138.91
02_11.1.D_ 2. 3 Rehabilitated Levee	1.80 ACR	8,138	0	0	8,138	4521.23
02_11.1.D_ 2. 4 New Levee	6.20 ACR	17,653	0	0	17,653	2847.27
Clearing/Grubbing/Debris Removal	15.70 ACR	34,561	0	0	34,561	2201.33
02_11.1.D_ 3 Stripping						
02_11.1.D_ 3. 1 Borrow Areas	110000 SY	35,519	0	0	35,519	0.32
02_11.1.D_ 3. 2 Rehabilitated Levee	12500 SY	4,036	0	0	4,036	0.32
02_11.1.D_ 3. 3 New Levee	54000 SY	17,437	0	0	17,437	0.32
Stripping	176500 SY	56,993	0	0	56,993	0.32
02_11.1.D_ 4 Levee Construction						
02_11.1.D_ 4. 1 Construct Levee - Sidecast	73600 CY	263,724	0	0	263,724	3.58
02_11.1.D_ 4. 2 Construct Levee - Borrow	54400 CY	272,179	0	0	272,179	5.00
Levee Construction	128000 CY	535,902	0	0	535,902	4.19
02_11.1.D_ 5 Turfing						
02_11.1.D_ 5. 1 Topsoil	75020 SY	62,200	0	0	62,200	0.83
02_11.1.D_ 5. 2 Seed, Mulch and Fertilize	15.50 ACR	32,183	0	0	32,183	2076.29
Turfing	15.50 ACR	94,382	0	0	94,382	6089.18
Site Work		769,410	0	0	769,410	
02_11.1.R Associated General Items						
02_11.1.R_ 1 Structural Wall at CP&L Plant						
02_11.1.R_ 1. 1 Structural Excavation	50.00 CY	135	0	0	135	2.71
02_11.1.R_ 1. 2 Steel Plate Buttresses	24327 LBS	45,831	0	0	45,831	1.88
02_11.1.R_ 1. 3 Cast-in-Place Concrete	34.00 CY	13,683	0	0	13,683	402.44
02_11.1.R_ 1. 4 Backfill with Hand Compaction	25.00 CY	145	0	0	145	5.80
02_11.1.R_ 1. 5 Load & Haul Excess Excavation	25.00 CY	108	0	0	108	4.30
Structural Wall at CP&L Plant	795.00 LF	59,902	0	0	59,902	75.35

LABOR ID: SARGNT EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691 UPB ID: RG0691



Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEEVE  
\*\* PROJECT OWNER SUMMARY - LEVEL 6 \*\*

TIME 08:28:01

SUMMARY PAGE 14

	QUANTY UOM	CONTRACT	CONTINGY	ESCALATN	TOTAL COST	UNIT
Associated General Items		59,902	0	0	59,902	
Levees		2,183,419	0	0	2,183,419	
Levees and Floodwalls		2,183,419	0	0	2,183,419	
CONSTRUCTION		2,308,114	0	0	2,308,114	
GUADALUPE RIVER		2,308,114	0	0	2,308,114	

LABOR ID: SARGNT

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Je 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT INDIRECT SUMMARY - LEVEL 1 \*\*

TIME 09:26:01  
SUMMARY PAGE 15

	QUANTITY	UOM	DIRECT	OVERHEAD	HOME	OFC	PROFIT	BOND	TOTAL COST	UNIT
G2 CONSTRUCTION			1,832,990	183,299	80,652	199,209	11,965		2,308,114	
GUADALUPE RIVER			1,832,990	183,299	80,652	199,209	11,965		2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

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Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT INDIRECT SUMMARY - LEVEL 2 \*\*

TIME 08:28:01

SUMMARY PAGE 16

	QUANTITY	UOM	DIRECT	OVERHEAD	HOME	OFC	PROFIT	BOND	TOTAL COST	UNIT
-----										
02 CONSTRUCTION										
02_02 Relocations			99,026	9,903	4,357	10,762	646		124,695	
02_11 Levees and Floodwalls			1,733,963	173,396	76,294	188,447	11,318		2,183,419	
CONSTRUCTION			1,832,990	183,299	80,652	199,209	11,965		2,308,114	
GUADALUPE RIVER			1,832,990	183,299	80,652	199,209	11,965		2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

ue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 3 \*\*

TIME 08:25:01  
 SUMMARY PAGE 17

	QUANTITY	UOM	DIRECT	OVERHEAD	HOME	OFC	PROFIT	BOND	TOTAL COST	UNIT
-----										
02 CONSTRUCTION										
-----										
02_02 Relocations										
02_02.3 Cometeraries/Utilities/Structures			99,026	9,903	4,357	10,762	646		124,695	
Relocations			99,026	9,903	4,357	10,762	646		124,695	
-----										
02_11 Levees and Floodwalls										
02_11.1 Levees			1,733,963	173,396	76,294	188,447	11,318		2,183,419	
Levees and Floodwalls			1,733,963	173,396	76,294	188,447	11,318		2,183,419	
CONSTRUCTION			1,832,990	183,299	80,652	199,209	11,965		2,308,114	
GUADALUPE RIVER			1,832,990	183,299	80,652	199,209	11,965		2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

10c 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 4 \*\*

TIME 08:28:01

SUMMARY PAGE 18

	QUANTY	UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
-----									
02 CONSTRUCTION									
02_02 Relocations									
02_02.3 Cemeteries/Utilities/Structures									
02_02.3.2 Utility Relocations			80,289	8,029	3,533	8,726	524	101,101	
02_02.3.3 Structure Relocations			18,737	1,874	824	2,036	122	23,594	
			-----	-----	-----	-----	-----	-----	
Cemeteries/Utilities/Structures			99,026	9,903	4,357	10,762	646	124,695	
			-----	-----	-----	-----	-----	-----	
Relocations			99,026	9,903	4,357	10,762	646	124,695	
02_11 Levees and Floodwalls									
02_11.1 Levees									
02_11.1.1 Drainage			1,052,736	105,274	46,320	114,411	6,872	1,325,613	
02_11.1.C Permanent Access Roads & Parking			22,628	2,263	996	2,459	148	28,494	
02_11.1.D Site Work			611,027	61,103	26,885	66,406	3,988	769,410	
02_11.1.R Associated General Items			47,571	4,757	2,093	5,170	311	59,902	
			-----	-----	-----	-----	-----	-----	
Levees			1,733,963	173,396	76,294	188,447	11,318	2,183,419	
			-----	-----	-----	-----	-----	-----	
Levees and Floodwalls			1,733,963	173,396	76,294	188,447	11,318	2,183,419	
			-----	-----	-----	-----	-----	-----	
CONSTRUCTION			1,832,990	183,299	80,652	199,209	11,965	2,308,114	
			-----	-----	-----	-----	-----	-----	
GUADALUPE RIVER			1,832,990	183,299	80,652	199,209	11,965	2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Aug 11 10: 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 5 \*\*

TIME 02:28:01  
 SUMMARY PAGE 15

		QUANTITY	UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
-----										
02 CONSTRUCTION										
02_02 Relocations										
02_02.3 Cemeteries/Utilities/Structures										
02_02.3.2 Utility Relocations										
02_02.3.2_1	Relocate CP&L Power Poles	11.00	EA	5,914	591	260	643	39	7,447	676.96
02_02.3.2_2	Raise CP&L Power Lines	380.00	LF	2,421	242	107	263	16	3,049	8.02
02_02.3.2_3	Relocate Telephone Manhole			66,000	6,600	2,904	7,173	431	83,108	
02_02.3.2_4	Relocate Telephone Junction Box	3.00	EA	3,657	366	161	397	24	4,605	1535.10
02_02.3.2_5	Raise Telephone Line	200.00	LF	592	59	26	64	4	746	3.73
02_02.3.2_6	Raise Cable TV Line	280.00	LF	829	83	36	90	5	1,044	3.73
02_02.3.2_8	Raise Sanitary Sewer Manhole			876	88	39	95	6	1,103	
Utility Relocations				80,289	8,029	3,533	8,726	524	101,101	
-----										
02_02.3.3 Structure Relocations										
02_02.3.3_1	Relocate Concrete Chute			2,127	213	94	231	14	2,679	
02_02.3.3_2	Remove/Replace Chain Link Fence	2770.00	LF	12,061	1,206	531	1,311	79	15,187	5.48
02_02.3.3_3	Remove/Replace Barbed Wire Fence	1650.00	LF	4,065	406	179	442	27	5,118	3.10
02_02.3.3_4	Relocate House Trailer			485	48	21	53	3	611	
Structure Relocations				18,737	1,874	824	2,036	122	23,594	
Cemeteries/Utilities/Structures				99,026	9,903	4,357	10,762	646	124,695	
Relocations				99,026	9,903	4,357	10,762	646	124,695	
-----										
02_11 Levees and Floodwalls										
02_11.1 Levees										
02_11.1.1 Drainage										
02_11.1.1_1	Drainage Culvert at Ben Jordan	160.00	LF	11,961	1,196	526	1,300	78	15,061	94.13
02_11.1.1_2	Drainage Culvert at Bottom St.	300.00	LF	12,244	1,224	539	1,331	80	15,417	51.39
02_11.1.1_3	Drainage Culvert at Church St.	50.00	LF	5,644	564	248	613	37	7,107	142.14
02_11.1.1_4	Drainage Culvert at Victoria St.	22.00	LF	808	81	36	88	5	1,017	46.25
02_11.1.1_5	Drainage Culvert at Borrow Area	275.00	LF	13,665	1,366	601	1,485	89	17,207	62.57
02_11.1.1_6	Structure at South Outfall			320,300	32,030	14,093	34,810	2,091	403,324	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT INDIRECT SUMMARY - LEVEL 5 \*\*

TIME 08:28:01

SUMMARY PAGE 20

		QUANTITY UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
02_11.1.1_7	Structure at Elder Street		188,160	18,816	8,279	20,449	1,228	236,933	
02_11.1.1_8	Structure at Wastewater Plant		118,038	11,804	5,194	12,828	770	148,634	
02_11.1.1_9	Structure at Glass and Second St		227,058	22,706	9,991	24,677	1,482	285,914	
02_11.1.1_10	Structure at Water Street		154,858	15,486	6,814	16,830	1,011	194,998	
Drainage			1,052,736	105,274	46,320	114,411	6,872	1,325,613	
02_11.1.C Permanent Access Roads & Parking									
02_11.1.C_1	Aggregate Base Course	490.00 CY	15,312	1,531	674	1,664	100	19,281	39.35
02_11.1.C_2	Bituminous Prime Coat	229.00 CSF	151	15	7	16	1	190	0.83
02_11.1.C_3	Bituminous Surface Course	177.00 TON	6,163	616	271	670	40	7,760	43.84
02_11.1.C_4	Gravel Surface Course	15.00 CY	469	47	21	51	3	590	39.35
02_11.1.C_5	Barrier Gate		534	53	23	58	3	672	
Permanent Access Roads & Parking			22,628	2,263	996	2,459	148	28,494	
02_11.1.D Site Work									
02_11.1.D_1	Demolition		37,779	3,778	1,662	4,106	247	47,572	
02_11.1.D_2	Clearing/Grubbing/Debris Removal	15.70 ACR	27,447	2,745	1,208	2,983	179	34,561	2201.33
02_11.1.D_3	Stripping	176500 SY	45,261	4,526	1,991	4,919	295	56,993	0.32
02_11.1.D_4	Levee Construction	128000 CY	425,587	42,559	18,726	46,253	2,778	535,902	4.19
02_11.1.D_5	Turfing	15.50 ACR	74,954	7,495	3,298	8,146	489	94,382	6089.18
Site Work			611,027	61,103	26,885	66,406	3,988	769,410	
02_11.1.R Associated General Items									
02_11.1.R_1	Structural Wall at CP&L Plant	795.00 LF	47,571	4,757	2,093	5,170	311	59,902	75.35
Associated General Items			47,571	4,757	2,093	5,170	311	59,902	
Levees			1,733,963	173,396	76,294	188,447	11,318	2,183,419	
Levees and Floodwalls			1,733,963	173,396	76,294	188,447	11,318	2,183,419	
CONSTRUCTION			1,832,990	183,299	80,652	199,209	11,965	2,308,114	
GUADALUPE RIVER			1,832,990	183,299	80,652	199,209	11,965	2,308,114	

LABOR ID: SARGNT EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691 UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:25:01  
 SUMMARY PAGE 2

		QUANTITY	UCM	DIRECT	OVERHEAD	HOME	OFC	PROFIT	BOND	TOTAL COST	UNIT
02 CONSTRUCTION											
02_02 Relocations											
02_02.3 Comctaries/Utilities/Structures											
02_02.3.2 Utility Relocations											
02_02.3.2_1 Relocate CP&L Power Poles											
	Relocate CP&L Power Poles	11.00	EA	5,914	591	260	643	39		7,447	676.96
02_02.3.2_2 Raise CP&L Power Lines											
	Raise CP&L Power Lines	380.00	LF	2,421	242	107	263	16		3,049	8.02
02_02.3.2_3 Relocate Telephone Manhole											
	Relocate Telephone Manhole			66,000	6,600	2,904	7,173	431		83,108	
02_02.3.2_4 Relocate Telephone Junction Box											
	Relocate Telephone Junction Box	3.00	EA	3,657	366	161	397	24		4,605	1535.10
02_02.3.2_5 Raise Telephone Line											
	Raise Telephone Line	200.00	LF	592	59	26	64	4		746	3.73
02_02.3.2_6 Raise Cable TV Line											
	Raise Cable TV Line	280.00	LF	829	83	36	90	5		1,044	3.73
02_02.3.2_8 Raise Sanitary Sewer Manhole											

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691



Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 09:28:01

SUMMARY PAGE 22

	QUANTITY	UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
Raise Sanitary Sewer Manhole			876	88	39	95	6	1,103	
Utility Relocations			80,289	8,029	3,533	8,726	524	101,101	
02_02.3.3 Structure Relocations									
02_02.3.3_1 Relocate Concrete Chute									
Relocate Concrete Chute			2,127	213	94	231	14	2,679	
02_02.3.3_2 Remove/Replace Chain Link Fence									
Remove/Replace Chain Link Fence	2770.00	LF	12,061	1,206	531	1,311	79	15,187	5.48
02_02.3.3_3 Remove/Replace Barbed Wire Fence									
Remove/Replace Barbed Wire Fenc	1650.00	LF	4,065	406	179	442	27	5,118	3.10
02_02.3.3_4 Relocate House Trailer									
Relocate House Trailer			485	48	21	53	3	611	
Structure Relocations			18,737	1,874	824	2,036	122	23,594	
Cemetaries/Utilities/Structures			99,026	9,903	4,357	10,762	646	124,695	
Relocations			99,026	9,903	4,357	10,762	646	124,695	
02_11 Levees and Floodwalls									
02_11.1 Levees									
02_11.1.1 Drainage									
02_11.1.1_1 Drainage Culvert at Ben Jordan									
Structural Excavation	160.00	CY	344	34	15	37	2	433	2.71

LABOR ID: SARGHT    EQUIP ID: RG0691    CURRENCY IN DOLLARS    CREW ID: RG0691    UP8 ID: RG0691

ue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 05:25:01

SUMMARY PAGE 23

		QUANTITY	UOM	DIRECT	OVERHEAD	HOME	OFC	PROFIT	BOND	TOTAL COST	UNIT
-----											
02_11.1.1_1.2	42" RCP, Class III	160.00	LF	8,119	812		357	882	53	10,224	63.90
02_11.1.1_1.3	Precast Concrete Headwall	4.00	EA	2,977	298		131	324	19	3,749	937.14
02_11.1.1_1.4	Backfill with Hand Compaction	28.00	CY	129	13		6	14	1	162	5.80
02_11.1.1_1.5	Backfill with Machine Compaction	24.00	CY	83	8		4	9	1	105	4.36
02_11.1.1_1.6	Load and Haul Excess Excavation	78.00	CY	267	27		12	29	2	336	4.30
02_11.1.1_1.7	Remove Roadway	16.00	SY	42	4		2	5	0	52	3.26
-----											
	Drainage Culvert at Ben Jordan	160.00	LF	11,961	1,196		526	1,300	78	15,061	94.13
02_11.1.1_2	Drainage Culvert at Bottom St.										
02_11.1.1_2.1	Structural Excavation	163.00	CY	351	35		15	38	2	441	2.71
02_11.1.1_2.2	36" RCP, Class III	300.00	LF	10,051	1,005		442	1,092	66	12,657	42.19
02_11.1.1_2.3	Precast Concrete Headwall	2.00	EA	1,215	121		53	132	8	1,530	764.95
02_11.1.1_2.4	Backfill with Hand Compaction	57.00	CY	263	26		12	29	2	331	5.80
02_11.1.1_2.5	Backfill with Machine Compaction	49.00	CY	170	17		7	18	1	214	4.36
02_11.1.1_2.6	Load and Haul Excess Excavation	57.00	CY	195	19		9	21	1	245	4.30
-----											
	Drainage Culvert at Bottom St.	300.00	LF	12,244	1,224		539	1,331	80	15,417	51.39
02_11.1.1_3	Drainage Culvert at Church St.										
02_11.1.1_3.1	Structural Excavation	76.00	CY	163	16		7	18	1	206	2.71
02_11.1.1_3.2	48" RCP, Class III	50.00	LF	3,211	321		141	349	21	4,044	80.85
02_11.1.1_3.3	Precast Concrete Headwall	2.00	EA	1,940	194		85	211	13	2,443	1221.53
02_11.1.1_3.4	Backfill with Hand Compaction	29.00	CY	134	13		6	15	1	168	5.80
02_11.1.1_3.5	Backfill with Machine Compaction	24.00	CY	83	8		4	9	1	105	4.36
02_11.1.1_3.6	Load and Haul Excess Excavation	23.00	CY	79	8		3	9	1	99	4.30
02_11.1.1_3.7	Remove Roadway	13.00	SY	34	3		1	4	0	43	3.27
-----											
	Drainage Culvert at Church St.	50.00	LF	5,644	564		248	613	37	7,107	142.14
02_11.1.1_4	Drainage Culvert at Victoria St.										
02_11.1.1_4.1	Structural Excavation	4.00	CY	9	1		0	1	0	11	2.71
02_11.1.1_4.2	12" RCP, Class III	22.00	LF	185	19		8	20	1	234	10.62
02_11.1.1_4.3	Precast Concrete Headwall	2.00	EA	447	45		20	49	3	563	281.68
02_11.1.1_4.4	Backfill with Hand Compaction	2.00	CY	9	1		0	1	0	12	5.80
02_11.1.1_4.5	Backfill with Machine Compaction	2.00	CY	7	1		0	1	0	9	4.36
02_11.1.1_4.6	Ditch Excavation	152.00	CY	150	15		7	16	1	189	1.25
-----											
	Drainage Culvert at Victoria St	22.00	LF	808	81		36	88	5	1,017	46.25
02_11.1.1_5	Drainage Culvert at Borrow Area										
02_11.1.1_5.1	Structural Excavation	815.00	CY	1,753	175		77	191	11	2,207	2.71
02_11.1.1_5.2	24" RCP, Class III	275.00	LF	4,808	481		212	523	31	6,054	22.02

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:28:01

SUMMARY PAGE 24

			QUANTITY	UOM	DIRECT	OVERHEAD	HOME	DFC	PROFIT	BOND	TOTAL COST	UNIT	
02_11.1.1_5.3	5.3	Precast Concrete Headwall			334	33		15	36	2	421		
02_11.1.1_5.4	5.4	Concrete Manhole, 8' x 8'			3,442	344		151	374	22	4,334		
02_11.1.1_5.7	5.7	Backfill with Hand Compaction	450.00	CY	2,073	207		91	225	14	2,610	5.80	
02_11.1.1_5.8	5.8	Backfill with Machine Compactio	170.00	CY	588	59		26	64	4	741	4.36	
02_11.1.1_5.9	5.9	Load and Haul Excess Excavation	195.00	CY	666	67		29	72	4	839	4.30	
Drainage Culvert at Borrow Area					275.00	LF	13,665	1,366	601	1,485	89	17,207	62.57
02_11.1.1_6	6	Structure at South Outfall											
02_11.1.1_6.1	6.1	Stripping	16030	SY	4,111	411		181	447	27	5,176	0.32	
02_11.1.1_6.2	6.2	Structural Excavation	3664.00	CY	7,881	788		347	857	51	9,924	2.71	
02_11.1.1_6.4	6.4	Sluice Gate, 5' x 5'	6.00	EA	99,772	9,977		4,390	10,843	651	125,634	20939	
02_11.1.1_6.5	6.5	Cast-in-Place Concrete	171.00	CY	44,612	4,461		1,963	4,848	291	56,176	328.51	
02_11.1.1_6.6	6.6	48" RCP, Class IV	1374.00	LF	93,623	9,362		4,119	10,175	611	117,891	85.80	
02_11.1.1_6.7	6.7	Regrade Dirt Roadway	1400.00	SY	430	43		19	47	3	542	0.39	
02_11.1.1_6.8	6.8	Backfill with Hand Compaction	1610.00	CY	7,416	742		326	806	48	9,338	5.80	
02_11.1.1_6.9	6.9	Backfill with Machine Compactio	1414.00	CY	4,894	489		215	532	32	6,163	4.36	
02_11.1.1_6.10	6.10	Load & Haul Excess Excavation	832.00	CY	2,843	284		125	309	19	3,580	4.30	
02_11.1.1_6.11	6.11	Topsoil	16030	SY	10,555	1,055		464	1,147	69	13,291	0.83	
02_11.1.1_6.12	6.12	Seed and Fertilize	3.30	ACR	3,124	312		137	339	20	3,934	1191.98	
02_11.1.1_6.13	6.13	Flap Gate, 5' x 5'	3.00	EA	41,039	4,104		1,806	4,460	268	51,677	17226	
Structure at South Outfall					320,300	32,030		14,093	34,810	2,091	403,324		
02_11.1.1_7	7	Structure at Elder Street											
02_11.1.1_7.1	7.1	Remove Existing Structure			1,338	134		59	145	9	1,685		
02_11.1.1_7.2	7.2	Stripping	2000.00	SY	513	51		23	56	3	646	0.32	
02_11.1.1_7.3	7.3	Structural Excavation	9300.00	CY	20,004	2,000		880	2,174	131	25,190	2.71	
02_11.1.1_7.4	7.4	60" RCP, Class IV	151.00	LF	16,038	1,604		706	1,743	105	20,196	133.75	
02_11.1.1_7.5	7.5	Cast-in-Place Concrete	62.00	CY	16,176	1,618		712	1,758	106	20,368	328.52	
02_11.1.1_7.6	7.6	Sluice Gate, 5' x 5'			16,629	1,663		732	1,807	109	20,939		
02_11.1.1_7.7	7.7	Sand Bedding Material	55.00	CY	847	85		37	92	6	1,067	19.39	
02_11.1.1_7.8	7.8	Backfill with Hand Compaction	2145.00	CY	9,881	988		435	1,074	64	12,442	5.80	
02_11.1.1_7.9	7.9	Backfill with Machine Compactio	7100.00	CY	24,575	2,458		1,081	2,671	160	30,945	4.36	
02_11.1.1_7.10	7.10	Steel Sheet Pile Cofferdam	6603.00	SF	74,734	7,473		3,288	8,122	488	94,106	14.25	
02_11.1.1_7.11	7.11	Topsoil	2000.00	SY	1,317	132		58	143	9	1,658	0.83	
02_11.1.1_7.12	7.12	Seed and Fertilize	0.40	ACR	379	38		17	41	2	477	1191.98	
02_11.1.1_7.13	7.13	Flap Gate, 60"			5,730	573		252	623	37	7,215		
Structure at Elder Street					188,160	18,816		8,279	20,449	1,228	236,933		
02_11.1.1_8	8	Structure at Wastewater Plant											
02_11.1.1_8.1	8.1	Remove Existing Structure			1,147	115		50	125	7	1,444		
02_11.1.1_8.2	8.2	Stripping	250.00	SY	64	6		3	7	0	81	0.32	
02_11.1.1_8.3	8.3	Structural Excavation	3000.00	CY	6,453	645		284	701	42	8,126	2.71	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:28:01

SUMMARY PAGE 25

		QUANTY	UOM	DIRECT	OVERHEAD	HOME	OFC	PROFIT	BOND	TOTAL COST	UNIT
02_11.1.1_8.4	48" RCP, Class IV	38.00	LF	2,589	259	114		281	17	3,260	85.80
02_11.1.1_8.5	Cast-in-Place Concrete	48.00	CY	12,525	1,252	551		1,361	82	15,771	328.56
02_11.1.1_8.6	Sluice Gate, 4' x 4'			9,151	915	403		995	60	11,524	
02_11.1.1_8.7	Structural Steel	500.00	LBS	508	51	22		55	3	640	1.28
02_11.1.1_8.8	Sand Bedding Material	13.00	CY	200	20	9		22	1	252	19.39
02_11.1.1_8.9	Backfill with Hand Compaction	100.00	CY	461	46	20		50	3	580	5.80
02_11.1.1_8.10	Backfill with Machine Compaction	2857.00	CY	9,993	999	440		1,086	65	12,583	4.36
02_11.1.1_8.11	Steel Sheet Pile Cofferdam	6603.00	SF	74,734	7,473	3,288		8,122	488	94,106	14.25
02_11.1.1_8.12	Topsoil	250.00	SY	165	16	7		18	1	207	0.83
02_11.1.1_8.13	Seed and Fertilize	0.05	ACR	47	5	2		5	0	60	1191.98
Structure at Wastewater Plant				118,038	11,804	5,194		12,828	770	148,634	
02_11.1.1_9 Structure at Glass and Second St											
02_11.1.1_9.1	Remove Existing Structure			1,911	191	84		208	12	2,407	
02_11.1.1_9.2	Stripping	300.00	SY	77	8	3		8	1	97	0.32
02_11.1.1_9.3	Structural Excavation	1000.00	CY	2,151	215	95		234	14	2,709	2.71
02_11.1.1_9.4	12' x 6' Box Culvert	10.00	LF	2,892	289	127		314	19	3,641	364.12
02_11.1.1_9.5	Cast-in-Place Concrete	171.00	CY	44,612	4,461	1,963		4,848	291	56,176	328.51
02_11.1.1_9.6	Sluice Gate, 10' x 7'			57,658	5,766	2,537		6,266	376	72,603	
02_11.1.1_9.7	Flap Gate, 6' x 6'	2.00	EA	35,505	3,550	1,562		3,859	232	44,708	22354
02_11.1.1_9.8	Structural Steel	2000.00	LBS	2,034	203	89		221	13	2,561	1.28
02_11.1.1_9.9	Sand Bedding Material	100.00	CY	1,540	154	68		167	10	1,939	19.39
02_11.1.1_9.10	Backfill with Hand Compaction	200.00	CY	921	92	41		100	6	1,160	5.80
02_11.1.1_9.11	Backfill with Machine Compaction	800.00	CY	2,769	277	122		301	18	3,487	4.36
02_11.1.1_9.12	Steel Sheet Pile Cofferdam	6603.00	SF	74,734	7,473	3,288		8,122	488	94,106	14.25
02_11.1.1_9.13	Topsoil	300.00	SY	198	20	9		21	1	249	0.83
02_11.1.1_9.14	Seed and Fertilize	0.06	ACR	57	6	2		6	0	72	1191.98
Structure at Glass and Second S				227,058	22,706	9,991		24,677	1,482	285,914	
02_11.1.1_10 Structure at Water Street											
02_11.1.1_10.1	Remove Existing Structure			3,822	382	168		415	25	4,813	
02_11.1.1_10.2	Stripping	150.00	SY	38	4	2		4	0	48	0.32
02_11.1.1_10.3	Structural Excavation	400.00	CY	860	86	38		94	6	1,083	2.71
02_11.1.1_10.4	72" RCP, Class IV	54.00	LF	6,843	684	301		744	45	8,617	159.57
02_11.1.1_10.5	Cast-in-Place Concrete	90.00	CY	23,480	2,348	1,033		2,552	153	29,566	328.52
02_11.1.1_10.6	Sluice Gate, 6' x 6'			19,490	1,949	858		2,118	127	24,542	
02_11.1.1_10.7	Flap Gate, 6' x 6'			17,752	1,775	781		1,929	116	22,354	
02_11.1.1_10.8	Structural Steel	2000.00	LBS	2,034	203	89		221	13	2,561	1.28
02_11.1.1_10.9	Sand Bedding Material	18.00	CY	277	28	12		30	2	349	19.39
02_11.1.1_10.10	Backfill with Hand Compaction	120.00	CY	553	55	24		60	4	696	5.80
02_11.1.1_10.11	Backfill with Machine Compaction	1400.00	CY	4,846	485	213		527	32	6,102	4.36
02_11.1.1_10.12	Steel Sheet Pile Cofferdam	6603.00	SF	74,734	7,473	3,288		8,122	488	94,106	14.25
02_11.1.1_10.13	Topsoil	150.00	SY	99	10	4		11	1	124	0.83
02_11.1.1_10.14	Seed and Fertilize	0.03	ACR	28	3	1		3	0	36	1191.98
Structure at Water Street				154,858	15,486	6,814		16,830	1,011	194,998	

LABOR ID: SARGNT    EQUIP ID: RG0691    CURRENCY IN DOLLARS    CREW ID: RG0691    UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:28:07

SUMMARY PAGE 26

		QUANTITY	UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
Drainage				1,052,736	105,274	46,320	114,411	6,872	1,325,613	
02_11.1.C Permanent Access Roads & Parking										
02_11.1.C_1 Aggregate Base Course										
	Aggregate Base Course	490.00	CY	15,312	1,531	674	1,664	100	19,281	39.35
02_11.1.C_2 Bituminous Prime Coat										
	Bituminous Prime Coat	229.00	CSF	151	15	7	16	1	190	0.83
02_11.1.C_3 Bituminous Surface Course										
	Bituminous Surface Course	177.00	TON	6,163	616	271	670	40	7,760	43.84
02_11.1.C_4 Gravel Surface Course										
	Gravel Surface Course	15.00	CY	469	47	21	51	3	590	39.35
02_11.1.C_5 Barrier Gate										
	Barrier Gate			534	53	23	58	3	672	
	Permanent Access Roads & Parkin			22,628	2,263	996	2,459	148	28,494	
02_11.1.D Site Work										
02_11.1.D_1 Demolition										
	02_11.1.D_1.1 Remove Roadway	4440.00	SY	11,580	1,158	510	1,258	76	14,581	3.28
	02_11.1.D_1.2 Remove Chicken Shed	400.00	SF	877	88	39	95	6	1,105	2.76
	02_11.1.D_1.3 Remove Houses (4 each)	5700.00	SF	17,709	1,771	779	1,925	116	22,299	3.91
	02_11.1.D_1.4 Remove Tin Shed	2250.00	SF	4,935	494	217	536	32	6,214	2.76
	02_11.1.D_1.5 Remove Concrete RR Dock	16.00	CY	1,348	135	59	146	9	1,697	106.05
	02_11.1.D_1.6 Remove Concrete Tank	6.00	CY	505	51	22	55	3	636	106.05
	02_11.1.D_1.7 Remove Chain Link Fence	1000.00	LF	826	83	36	90	5	1,040	1.04

LABOR ID: SARGNT EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:28:01  
 SUMMARY PAGE 27

		QUANTITY UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
Demolition			37,779	3,778	1,662	4,106	247	47,572	
J2_11.1.D_2 Clearing/Grubbing/Debris Removal									
02_11.1.D_2.2	Borrow Areas	7.70 ACR	6,964	696	306	757	45	8,770	1138.91
02_11.1.D_2.3	Rehabilitated Levee	1.80 ACR	6,463	646	284	702	42	8,138	4521.23
02_11.1.D_2.4	New Levee	6.20 ACR	14,019	1,402	617	1,524	92	17,653	2847.27
Clearing/Grubbing/Debris Remova		15.70 ACR	27,447	2,745	1,208	2,983	179	34,561	2201.33
J2_11.1.D_3 Stripping									
02_11.1.D_3.1	Borrow Areas	110000 SY	28,208	2,821	1,241	3,066	184	35,519	0.32
02_11.1.D_3.2	Rehabilitated Levee	12500 SY	3,205	321	141	348	21	4,036	0.32
02_11.1.D_3.3	New Levee	54000 SY	13,847	1,385	609	1,505	90	17,437	0.32
Stripping		176500 SY	45,261	4,526	1,991	4,919	295	56,993	0.32
J2_11.1.D_4 Levee Construction									
02_11.1.D_4.1	Construct Levee - Sidecast	73600 CY	209,436	20,944	9,215	22,762	1,367	263,724	3.58
02_11.1.D_4.2	Construct Levee - Borrow	54400 CY	216,151	21,615	9,511	23,491	1,411	272,179	5.00
Levee Construction		128000 CY	425,587	42,559	18,726	46,253	2,778	535,902	4.19
J2_11.1.D_5 Turfing									
02_11.1.D_5.1	Topsoil	75020 SY	49,396	4,940	2,173	5,368	322	62,200	0.83
02_11.1.D_5.2	Seed, Mulch and Fertilize	15.50 ACR	25,558	2,556	1,125	2,778	167	32,183	2076.29
Turfing		15.50 ACR	74,954	7,495	3,298	8,146	489	94,382	6089.18
Site Work			611,027	61,103	26,885	66,406	3,988	769,410	
J2_11.1.R Associated General Items									
02_11.1.R_1 Structural Wall at CP&L Plant									
02_11.1.R_1.1	Structural Excavation	50.00 CY	108	11	5	12	1	135	2.71
02_11.1.R_1.2	Steel Plate Buttresses	24327 LBS	36,397	3,640	1,601	3,956	238	45,831	1.88
02_11.1.R_1.3	Cast-in-Place Concrete	34.00 CY	10,866	1,087	478	1,181	71	13,683	402.44
02_11.1.R_1.4	Backfill with Hand Compaction	25.00 CY	115	12	5	13	1	145	5.80
02_11.1.R_1.5	Load & Haul Excess Excavation	25.00 CY	85	9	4	9	1	108	4.30
Structural Wall at CP&L Plant		795.00 LF	47,571	4,757	2,093	5,170	311	59,902	75.35

LABOR ID: SARGNT    EQUIP ID: RG0691    CURRENCY IN DOLLARS    CREW ID: RG0691    UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT INDIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:26:01

SUMMARY PAGE 28

	QUANTY	UOM	DIRECT	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT
Associated General Items			47,571	4,757	2,093	5,170	311	59,902	
Levees			1,733,963	173,396	76,294	188,447	11,318	2,183,419	
Levees and Floodwalls			1,733,963	173,396	76,294	188,447	11,318	2,183,419	
CONSTRUCTION			1,832,990	183,299	80,652	199,209	11,965	2,308,114	
GUADALUPE RIVER			1,832,990	183,299	80,652	199,209	11,965	2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 1 \*\*

TIME 08:28:01

SUMMARY PAGE 29

	QUANTITY	UOM	LABOR	EQUIPMT	MATERIAL	TOTAL COST	UNIT
02 CONSTRUCTION	611,155		624,531	597,303		1,832,990	
GUADALUPE RIVER	611,155		624,531	597,303		1,832,990	
FIELD OVERHEAD						183,299	
SUBTOTAL						2,016,288	
HOME OFFICE OVERHEAD						80,652	
SUBTOTAL						2,096,940	
PROFIT						199,209	
SUBTOTAL						2,296,149	
BOND						11,965	
TOTAL INCL INDIRECTS						2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691



Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 2 \*\*

TIME 08:28:01

SUMMARY PAGE 30

	QUANTY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
D2 CONSTRUCTION							
02_02	Relocations		70,858	7,130	21,038	99,026	
02_11	Levees and Floodwalls		540,297	617,402	576,265	1,733,963	
CONSTRUCTION			611,155	624,531	597,303	1,832,990	
GUADALUPE RIVER FIELD OVERHEAD			611,155	624,531	597,303	1,832,990	
						183,299	
SUBTOTAL						2,016,288	
HOME OFFICE OVERHEAD						80,652	
SUBTOTAL						2,096,940	
PROFIT						199,209	
SUBTOTAL						2,296,149	
BOND						11,965	
TOTAL INCL INDIRECTS						2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 3 \*\*

TIME 08:28:00

SUMMARY PAGE 3

	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02 CONSTRUCTION						
02_02 Relocations						
02_02.3 Cemeteries/Utilities/Structures	70,858	7,130	21,038		99,026	
Relocations	70,858	7,130	21,038		99,026	
02_11 Levees and Floodwalls						
02_11.1 Levees	540,297	617,402	576,265		1,733,963	
Levees and Floodwalls	540,297	617,402	576,265		1,733,963	
CONSTRUCTION	611,155	624,531	597,303		1,832,990	
GUADALUPE RIVER FIELD OVERHEAD	611,155	624,531	597,303		1,832,990	183,299
SUBTOTAL					2,016,288	
HOME OFFICE OVERHEAD					80,652	
SUBTOTAL					2,096,940	
PROFIT					199,209	
SUBTOTAL					2,296,149	
BOND					11,965	
TOTAL INCL INDIRECTS					2,308,114	

ABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 4 \*\*

TIME 08:25:01

SUMMARY PAGE 32

	QUANTY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
-----							
02 CONSTRUCTION							
02_02 Relocations							
02_02.3 Cemeteries/Utilities/Structures							
02_02.3.2 Utility Relocations	60,392		2,161	17,736		80,289	
02_02.3.3 Structure Relocations	10,466		4,969	3,302		18,737	
Cemeteries/Utilities/Structures	70,858		7,130	21,038		99,026	
Relocations	70,858		7,130	21,038		99,026	
02_11 Levees and Floodwalls							
02_11.1 Levees							
02_11.1.1 Drainage	319,140		235,979	497,617		1,052,736	
02_11.1.C Permanent Access Roads & Parking	3,435		3,344	15,849		22,628	
02_11.1.D Site Work	197,396		375,999	37,633		611,027	
02_11.1.R Associated General Items	20,325		2,080	25,167		47,571	
Levees	540,297		617,402	576,265		1,733,963	
Levees and Floodwalls	540,297		617,402	576,265		1,733,963	
CONSTRUCTION	611,155		624,531	597,303		1,832,990	
GUADALUPE RIVER FIELD OVERHEAD	611,155		624,531	597,303		1,832,990	183,299
SUBTOTAL						2,016,288	
HOME OFFICE OVERHEAD						80,652	
SUBTOTAL						2,096,940	
PROFIT						199,209	
SUBTOTAL						2,296,149	
BOND						11,965	
TOTAL INCL INDIRECTS						2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEEVE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 5 \*\*

TIME 08:28:01  
 SUMMARY PAGE 33

		QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02 CONSTRUCTION								
02_02 Relocations								
02_02.3 Cemeteries/Utilities/Structures								
02_02.3.2 Utility Relocations								
02_02.3.2_1	Relocate CP&L Power Poles	11.00	EA	3,631	982	1,300	5,914	537.60
02_02.3.2_2	Raise CP&L Power Lines	380.00	LF	385	76	1,961	2,421	6.37
02_02.3.2_3	Relocate Telephone Manhole			55,000	1,000	10,000	66,000	
02_02.3.2_4	Relocate Telephone Junction Box	3.00	EA	938	5	2,714	3,657	1219.10
02_02.3.2_5	Raise Telephone Line	200.00	LF	143	28	421	592	2.96
02_02.3.2_6	Raise Cable TV Line	280.00	LF	200	39	589	829	2.96
02_02.3.2_8	Raise Sanitary Sewer Manhole			95	31	750	876	
Utility Relocations				60,392	2,161	17,736	80,289	
02_02.3.3 Structure Relocations								
02_02.3.3_1	Relocate Concrete Chute			981	676	470	2,127	
02_02.3.3_2	Remove/Replace Chain Link Fence	2770.00	LF	7,347	3,202	1,512	12,061	4.35
02_02.3.3_3	Remove/Replace Barbed Wire Fence	1650.00	LF	1,912	833	1,320	4,065	2.46
02_02.3.3_4	Relocate House Trailer			226	258	0	485	
Structure Relocations				10,466	4,969	3,302	18,737	
Cemeteries/Utilities/Structures				70,858	7,130	21,038	99,026	
Relocations				70,858	7,130	21,038	99,026	
02_11 Levees and Floodwalls								
02_11.1 Levees								
02_11.1.1 Drainage								
02_11.1.1_1	Drainage Culvert at Ben Jordan	160.00	LF	1,857	1,370	8,734	11,961	74.75
02_11.1.1_2	Drainage Culvert at Bottom St.	300.00	LF	2,555	1,809	7,880	12,244	40.81
02_11.1.1_3	Drainage Culvert at Church St.	50.00	LF	913	617	4,115	5,644	112.85
02_11.1.1_4	Drainage Culvert at Victoria St.	22.00	LF	156	128	523	808	36.73
02_11.1.1_5	Drainage Culvert at Borrow Area	275.00	LF	4,197	3,484	5,984	13,665	49.69
02_11.1.1_6	Structure at South Outfall			77,892	39,188	203,220	320,300	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPS ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 5 \*\*

TIME 09:28:01

SUMMARY PAGE 34

		QUANTY UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02_11.1.1_7	Structure at Elder Street		63,658	68,747	55,755	188,160	
02_11.1.1_8	Structure at Wastewater Plant		42,786	41,775	33,477	118,038	
02_11.1.1_9	Structure at Glass and Second St		72,813	40,622	113,623	227,058	
02_11.1.1_10	Structure at Water Street		52,314	38,238	64,306	154,858	
Drainage			319,140	235,979	497,617	1,052,736	
02_11.1.C Permanent Access Roads & Parking							
02_11.1.C_1	Aggregate Base Course	490.00 CY	2,368	2,409	10,535	15,312	31.25
02_11.1.C_2	Bituminous Prime Coat	229.00 CSF	25	35	92	151	0.66
02_11.1.C_3	Bituminous Surface Course	177.00 TON	941	797	4,425	6,163	34.82
02_11.1.C_4	Gravel Surface Course	15.00 CY	73	74	323	469	31.25
02_11.1.C_5	Barrier Gate		30	30	475	534	
Permanent Access Roads & Parking			3,435	3,344	15,849	22,628	
02_11.1.D Site Work							
02_11.1.D_1	Demolition		19,205	18,574	0	37,779	
02_11.1.D_2	Clearing/Grubbing/Debris Removal	15.70 ACR	7,334	20,113	0	27,447	1748.18
02_11.1.D_3	Stripping	176500 SY	10,489	34,772	0	45,261	0.26
02_11.1.D_4	Levee Construction	128000 CY	116,292	284,873	24,422	425,587	3.32
02_11.1.D_5	Turfing	15.50 ACR	44,076	17,668	13,210	74,954	4835.73
Site Work			197,396	375,999	37,633	611,027	
02_11.1.R Associated General Items							
02_11.1.R_1	Structural Wall at CP&L Plant	795.00 LF	20,325	2,080	25,167	47,571	59.84
Associated General Items			20,325	2,080	25,167	47,571	
Levees			540,297	617,402	576,265	1,733,963	
Levees and Floodwalls			540,297	617,402	576,265	1,733,963	
CONSTRUCTION			611,155	624,531	597,303	1,832,990	
GUADALUPE RIVER FIELD OVERHEAD			611,155	624,531	597,303	1,832,990	
						183,299	
SUBTOTAL						2,016,288	
HOME OFFICE OVERHEAD						80,652	
SUBTOTAL						2,096,940	
PROFIT						199,209	
SUBTOTAL						2,296,149	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

11 Feb 1972

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 5 \*\*

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	QUANTITY	UOM	LABOR	EQUIPMT	MATERIAL	TOTAL COST	UNIT
BOND						11,965	
TOTAL INCL INDIRECTS						2,308,114	

ABOR ID: SARGNT    EQUIP ID: RG0691    CURRENCY IN DOLLARS    CREW ID: RG0691    UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

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SUMMARY PAGE 36

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02 CONSTRUCTION							
02_02 Relocations							
02_02.3 Cemeteries/Utilities/Structures							
02_02.3.2 Utility Relocations							
02_02.3.2_1 Relocate CP&L Power Poles							
Relocate CP&L Power Poles	11.00	EA	3,631	982	1,300	5,914	537.60
02_02.3.2_2 Raise CP&L Power Lines							
Raise CP&L Power Lines	380.00	LF	385	76	1,961	2,421	6.37
02_02.3.2_3 Relocate Telephone Manhole							
Relocate Telephone Manhole			55,000	1,000	10,000	66,000	
02_02.3.2_4 Relocate Telephone Junction Box							
Relocate Telephone Junction Box	3.00	EA	938	5	2,714	3,657	1219.10
02_02.3.2_5 Raise Telephone Line							
Raise Telephone Line	200.00	LF	143	28	421	592	2.96
02_02.3.2_6 Raise Cable TV Line							
Raise Cable TV Line	280.00	LF	200	39	589	829	2.96
02_02.3.2_8 Raise Sanitary Sewer Manhole							

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

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UPB ID: RG0691

11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUADD1: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

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		QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
	Raise Sanitary Sewer Manhole	95		31		750	876	
	Utility Relocations	60,392		2,161		17,736	80,289	
02_02.3.3 Structure Relocations								
02_02.3.3_1 Relocate Concrete Chute								
	Relocate Concrete Chute	981		676		470	2,127	
02_02.3.3_2 Remove/Replace Chain Link Fence								
	Remove/Replace Chain Link Fence	2770.00	LF	7,347	3,202	1,512	12,061	4.35
02_02.3.3_3 Remove/Replace Barbed Wire Fence								
	Remove/Replace Barbed Wire Fence	1650.00	LF	1,912	833	1,320	4,065	2.46
02_02.3.3_4 Relocate House Trailer								
	Relocate House Trailer	226		258		0	485	
	Structure Relocations	10,466		4,969		3,302	18,737	
	Cemetaries/Utilities/Structures	70,858		7,130		21,038	99,026	
	Relocations	70,858		7,130		21,038	99,026	
02_11 Levees and Floodwalls								
02_11.1 Levees								
02_11.1.1 Drainage								
02_11.1.1_1 Drainage Culvert at Ben Jordan								
	02_11.1.1_1.1 Structural Excavation	160.00	CY	91	253	0	344	2.15

LABOR ID: SARGNT

EQUIP ID: RGD691

CURRENCY IN DOLLARS

CREW ID: RGD691

UPB ID: RGD691



Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

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SUMMARY PAGE 38

		QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02_11.1.1_1.2	42" RCP, Class III	160.00	LF	1,370	755	5,994	8,119	50.75
02_11.1.1_1.3	Precast Concrete Headwall	4.00	EA	199	38	2,740	2,977	744.23
02_11.1.1_1.4	Backfill with Hand Compaction	28.00	CY	80	49	0	129	4.61
02_11.1.1_1.5	Backfill with Machine Compaction	24.00	CY	23	60	0	83	3.46
02_11.1.1_1.6	Load and Haul Excess Excavation	78.00	CY	74	192	0	267	3.42
02_11.1.1_1.7	Remove Roadway	16.00	SY	20	22	0	42	2.60
Drainage Culvert at Ben Jordan		160.00	LF	1,857	1,370	8,734	11,961	74.75
02_11.1.1_2 Drainage Culvert at Bottom St.								
02_11.1.1_2.1	Structural Excavation	163.00	CY	93	258	0	351	2.15
02_11.1.1_2.2	36" RCP, Class III	300.00	LF	2,132	1,175	6,744	10,051	33.50
02_11.1.1_2.3	Precast Concrete Headwall	2.00	EA	66	13	1,136	1,215	607.49
02_11.1.1_2.4	Backfill with Hand Compaction	57.00	CY	162	101	0	263	4.61
02_11.1.1_2.5	Backfill with Machine Compaction	49.00	CY	47	122	0	170	3.46
02_11.1.1_2.6	Load and Haul Excess Excavation	57.00	CY	54	141	0	195	3.42
Drainage Culvert at Bottom St.		300.00	LF	2,555	1,809	7,880	12,244	40.81
02_11.1.1_3 Drainage Culvert at Church St.								
02_11.1.1_3.1	Structural Excavation	76.00	CY	43	120	0	163	2.15
02_11.1.1_3.2	48" RCP, Class III	50.00	LF	478	263	2,471	3,211	64.23
02_11.1.1_3.3	Precast Concrete Headwall	2.00	EA	248	48	1,644	1,940	970.08
02_11.1.1_3.4	Backfill with Hand Compaction	29.00	CY	82	51	0	134	4.61
02_11.1.1_3.5	Backfill with Machine Compaction	24.00	CY	23	60	0	83	3.46
02_11.1.1_3.6	Load and Haul Excess Excavation	23.00	CY	22	57	0	79	3.42
02_11.1.1_3.7	Remove Roadway	13.00	SY	16	18	0	34	2.60
Drainage Culvert at Church St.		50.00	LF	913	617	4,115	5,644	112.88
02_11.1.1_4 Drainage Culvert at Victoria St.								
02_11.1.1_4.1	Structural Excavation	4.00	CY	2	6	0	9	2.15
02_11.1.1_4.2	12" RCP, Class III	22.00	LF	52	10	123	185	8.43
02_11.1.1_4.3	Precast Concrete Headwall	2.00	EA	40	8	400	447	223.69
02_11.1.1_4.4	Backfill with Hand Compaction	2.00	CY	6	4	0	9	4.61
02_11.1.1_4.5	Backfill with Machine Compaction	2.00	CY	2	5	0	7	3.46
02_11.1.1_4.6	Ditch Excavation	152.00	CY	54	96	0	150	0.99
Drainage Culvert at Victoria St.		22.00	LF	156	128	523	808	36.73
02_11.1.1_5 Drainage Culvert at Borrow Area								
02_11.1.1_5.1	Structural Excavation	815.00	CY	465	1,288	0	1,753	2.15
02_11.1.1_5.2	24" RCP, Class III	275.00	LF	1,366	263	3,179	4,808	17.48

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

ie 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

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			QUANTY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02_11.1.1_5.3	Precast Concrete Headwall				25	5	305	334	
02_11.1.1_5.4	Concrete Manhole, 8' x 8'				713	229	2,500	3,442	
02_11.1.1_5.7	Backfill with Hand Compaction	450.00	CY		1,279	794	0	2,073	4.61
02_11.1.1_5.8	Backfill with Machine Compaction	170.00	CY		164	424	0	588	3.46
02_11.1.1_5.9	Load and Haul Excess Excavation	195.00	CY		185	481	0	666	3.42
Drainage Culvert at Borrow Area					275.00	LF			
					4,197	3,484	5,984	13,665	49.69
02_11.1.1_6 Structure at South Outfall									
02_11.1.1_6.1	Stripping	16030	SY		953	3,158	0	4,111	0.26
02_11.1.1_6.2	Structural Excavation	3664.00	CY		2,089	5,792	0	7,881	2.15
02_11.1.1_6.4	Sluice Gate, 5' x 5'	6.00	EA		18,447	6,325	75,000	99,772	16629
02_11.1.1_6.5	Cast-in-Place Concrete	171.00	CY		24,291	3,358	16,963	44,612	260.89
02_11.1.1_6.6	48" RCP, Class IV	1374.00	LF		13,126	7,235	73,262	93,623	68.14
02_11.1.1_6.7	Regrade Dirt Roadway	1400.00	SY		205	225	0	430	0.31
02_11.1.1_6.8	Backfill with Hand Compaction	1610.00	CY		4,575	2,841	0	7,416	4.61
02_11.1.1_6.9	Backfill with Machine Compaction	1414.00	CY		1,366	3,528	0	4,894	3.46
02_11.1.1_6.10	Load & Haul Excess Excavation	832.00	CY		791	2,052	0	2,843	3.42
02_11.1.1_6.11	Topsoil	16030	SY		8,415	2,140	0	10,555	0.66
02_11.1.1_6.12	Seed and Fertilize	3.30	ACR		1,000	1,629	495	3,124	946.61
02_11.1.1_6.13	Flap Gate, 5' x 5'	3.00	EA		2,635	904	37,500	41,039	13680
Structure at South Outfall					77,892	39,188	203,220	320,300	
02_11.1.1_7 Structure at Elder Street									
02_11.1.1_7.1	Remove Existing Structure				561	777	0	1,338	
02_11.1.1_7.2	Stripping	2000.00	SY		119	394	0	513	0.26
02_11.1.1_7.3	Structural Excavation	9300.00	CY		5,302	14,702	0	20,004	2.15
02_11.1.1_7.4	60" RCP, Class IV	151.00	LF		1,830	1,008	13,200	16,038	106.22
02_11.1.1_7.5	Cast-in-Place Concrete	62.00	CY		8,807	1,218	6,150	16,176	260.90
02_11.1.1_7.6	Sluice Gate, 5' x 5'				3,075	1,054	12,500	16,629	
02_11.1.1_7.7	Sand Bedding Material	55.00	CY		66	33	748	847	15.40
02_11.1.1_7.8	Backfill with Hand Compaction	2145.00	CY		6,095	3,785	0	9,881	4.61
02_11.1.1_7.9	Backfill with Machine Compaction	7100.00	CY		6,860	17,715	0	24,575	3.46
02_11.1.1_7.10	Steel Sheet Pile Cofferdam	6603.00	SF		28,894	27,294	18,546	74,734	11.32
02_11.1.1_7.11	Topsoil	2000.00	SY		1,050	267	0	1,317	0.66
02_11.1.1_7.12	Seed and Fertilize	0.40	ACR		121	197	60	379	946.61
02_11.1.1_7.13	Flap Gate, 60"				878	301	4,550	5,730	
Structure at Elder Street					63,658	68,747	55,755	188,160	
02_11.1.1_8 Structure at Wastewater Plant									
02_11.1.1_8.1	Remove Existing Structure				481	666	0	1,147	
02_11.1.1_8.2	Stripping	250.00	SY		15	49	0	64	0.26
02_11.1.1_8.3	Structural Excavation	3000.00	CY		1,710	4,743	0	6,453	2.15

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

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		QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
02_11.1.1_8.4	48" RCP, Class IV	38.00	LF	363	200	2,026	2,589	68.14
02_11.1.1_8.5	Cast-in-Place Concrete	48.00	CY	6,820	943	4,762	12,525	260.93
02_11.1.1_8.6	Sluice Gate, 4' x 4'			1,230	422	7,500	9,151	
02_11.1.1_8.7	Structural Steel	500.00	LBS	37	13	459	508	1.02
02_11.1.1_8.8	Sand Bedding Material	13.00	CY	16	8	177	200	15.40
02_11.1.1_8.9	Backfill with Hand Compaction	100.00	CY	284	176	0	461	4.61
02_11.1.1_8.10	Backfill with Machine Compaction	2887.00	CY	2,789	7,203	0	9,993	3.46
02_11.1.1_8.11	Steel Sheet Pile Cofferdam	6603.00	SF	28,894	27,294	18,546	74,734	11.32
02_11.1.1_8.12	Topsoil	250.00	SY	131	33	0	165	0.66
02_11.1.1_8.13	Seed and Fertilize	0.05	ACR	15	25	8	47	946.61
Structure at Wastewater Plant				42,786	41,775	33,477	118,038	
02_11.1.1_9	Structure at Glass and Second St							
02_11.1.1_9.1	Remove Existing Structure			801	1,110	0	1,911	
02_11.1.1_9.2	Stripping	300.00	SY	18	59	0	77	0.26
02_11.1.1_9.3	Structural Excavation	1000.00	CY	570	1,581	0	2,151	2.15
02_11.1.1_9.4	12'x 6' Box Culvert	10.00	LF	310	171	2,410	2,892	289.16
02_11.1.1_9.5	Cast-in-Place Concrete	171.00	CY	24,291	3,358	16,963	44,612	260.89
02_11.1.1_9.6	Sluice Gate, 10' x 7'			12,043	3,114	42,500	57,658	
02_11.1.1_9.7	Flap Gate, 6' x 6'	2.00	EA	4,099	1,406	30,000	35,505	17752
02_11.1.1_9.8	Structural Steel	2000.00	LBS	149	50	1,835	2,034	1.02
02_11.1.1_9.9	Sand Bedding Material	100.00	CY	120	60	1,360	1,540	15.40
02_11.1.1_9.10	Backfill with Hand Compaction	200.00	CY	568	353	0	921	4.61
02_11.1.1_9.11	Backfill with Machine Compaction	800.00	CY	773	1,996	0	2,769	3.46
02_11.1.1_9.12	Steel Sheet Pile Cofferdam	6603.00	SF	28,894	27,294	18,546	74,734	11.32
02_11.1.1_9.13	Topsoil	300.00	SY	157	40	0	198	0.66
02_11.1.1_9.14	Seed and Fertilize	0.06	ACR	18	30	9	57	946.61
Structure at Glass and Second St				72,813	40,622	113,623	227,058	
02_11.1.1_10	Structure at Water Street							
02_11.1.1_10.1	Remove Existing Structure			1,602	2,220	0	3,822	
02_11.1.1_10.2	Stripping	150.00	SY	9	30	0	38	0.26
02_11.1.1_10.3	Structural Excavation	400.00	CY	228	632	0	860	2.15
02_11.1.1_10.4	72" RCP, Class IV	54.00	LF	706	389	5,748	6,843	126.72
02_11.1.1_10.5	Cast-in-Place Concrete	90.00	CY	12,785	1,768	8,928	23,480	260.89
02_11.1.1_10.6	Sluice Gate, 6' x 6'			4,089	1,402	14,000	19,490	
02_11.1.1_10.7	Flap Gate, 6' x 6'			2,050	703	15,000	17,752	
02_11.1.1_10.8	Structural Steel	2000.00	LBS	149	50	1,835	2,034	1.02
02_11.1.1_10.9	Sand Bedding Material	18.00	CY	22	11	245	277	15.40
02_11.1.1_10.10	Backfill with Hand Compaction	120.00	CY	341	212	0	553	4.61
02_11.1.1_10.11	Backfill with Machine Compaction	1400.00	CY	1,353	3,493	0	4,846	3.46
02_11.1.1_10.12	Steel Sheet Pile Cofferdam	6603.00	SF	28,894	27,294	18,546	74,734	11.32
02_11.1.1_10.13	Topsoil	150.00	SY	79	20	0	99	0.66
02_11.1.1_10.14	Seed and Fertilize	0.03	ACR	9	15	5	28	946.61
Structure at Water Street				52,314	38,238	64,306	154,858	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

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11 Feb 1992

U.S. Army Corps of Engineers  
 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

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 SUMMARY PAGE 41

	QUANTITY	UOM	LABOR	EQUIPNT	MATERIAL	TOTAL COST	UNIT
Drainage			319,140	235,979	497,617	1,052,736	
02_11.1.C Permanent Access Roads & Parking							
02_11.1.C_1 Aggregate Base Course							
Aggregate Base Course	490.00	CY	2,368	2,409	10,535	15,312	31.25
02_11.1.C_2 Bituminous Prime Coat							
Bituminous Prime Coat	229.00	CSF	25	35	92	151	0.66
02_11.1.C_3 Bituminous Surface Course							
Bituminous Surface Course	177.00	TON	941	797	4,425	6,163	34.82
02_11.1.C_4 Gravel Surface Course							
Gravel Surface Course	15.00	CY	73	74	323	469	31.25
02_11.1.C_5 Barrier Gate							
Barrier Gate			30	30	475	534	
Permanent Access Roads & Parking			3,435	3,344	15,849	22,628	
02_11.1.D Site Work							
02_11.1.D_1 Demolition							
02_11.1.D_1.1 Remove Roadway	4440.00	SY	5,427	6,153	0	11,580	2.61
02_11.1.D_1.2 Remove Chicken Shed	400.00	SF	465	412	0	877	2.19
02_11.1.D_1.3 Remove Houses (4 each)	5700.00	SF	8,831	8,877	0	17,709	3.11
02_11.1.D_1.4 Remove Tin Shed	2250.00	SF	2,618	2,317	0	4,935	2.19
02_11.1.D_1.5 Remove Concrete RR Dock	16.00	CY	812	536	0	1,348	84.22
02_11.1.D_1.6 Remove Concrete Tank	6.00	CY	304	201	0	505	84.22
02_11.1.D_1.7 Remove Chain Link Fence	1000.00	LF	747	78	0	826	0.83

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 PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
 GUADALUPE RIVER FLOOD PROTECTION LEVEE  
 \*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:28:01  
 SUMMARY PAGE 42

		QUANTY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
Demolition		19,205		18,574	0	37,779		
02_11.1.D_2 Clearing/Grubbing/Debris Removal								
02_11.1.D_2.2	Borrow Areas	7.70	ACR	1,950	5,014	0	6,964	904.46
02_11.1.D_2.3	Rehabilitated Levee	1.80	ACR	1,458	5,005	0	6,463	3590.53
02_11.1.D_2.4	New Levee	6.20	ACR	3,926	10,094	0	14,019	2261.16
Clearing/Grubbing/Debris Removal		15.70	ACR	7,334	20,113	0	27,447	1748.18
02_11.1.D_3 Stripping								
02_11.1.D_3.1	Borrow Areas	110000	SY	6,537	21,671	0	28,208	0.26
02_11.1.D_3.2	Rehabilitated Levee	12500	SY	743	2,463	0	3,205	0.26
02_11.1.D_3.3	New Levee	54000	SY	3,209	10,638	0	13,847	0.26
Stripping		176500	SY	10,489	34,772	0	45,261	0.26
02_11.1.D_4 Levee Construction								
02_11.1.D_4.1	Construct Levee - Sidecast	73600	CY	56,252	139,141	14,043	209,436	2.85
02_11.1.D_4.2	Construct Levee - Borrow	54400	CY	60,039	145,732	10,380	216,151	3.97
Levee Construction		128000	CY	116,292	284,873	24,422	425,587	3.32
02_11.1.D_5 Turfing								
02_11.1.D_5.1	Topsoil	75020	SY	39,380	10,016	0	49,396	0.66
02_11.1.D_5.2	Seed, Mulch and Fertilize	15.50	ACR	4,696	7,652	13,210	25,558	1648.89
Turfing		15.50	ACR	44,076	17,668	13,210	74,954	4835.73
Site Work				197,396	375,999	37,633	611,027	
02_11.1.R Associated General Items								
02_11.1.R_1 Structural Wall at CP&L Plant								
02_11.1.R_1.1	Structural Excavation	50.00	CY	29	79	0	108	2.15
02_11.1.R_1.2	Steel Plate Buttresses	24327	LBS	13,728	1,128	21,541	36,397	1.50
02_11.1.R_1.3	Cast-in-Place Concrete	34.00	CY	6,473	768	3,626	10,866	319.60
02_11.1.R_1.4	Backfill with Hand Compaction	25.00	CY	71	44	0	115	4.61
02_11.1.R_1.5	Load & Haul Excess Excavation	25.00	CY	24	62	0	85	3.42
Structural Wall at CP&L Plant		795.00	LF	20,325	2,080	25,167	47,571	59.84

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

ue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE  
\*\* PROJECT DIRECT SUMMARY - LEVEL 6 \*\*

TIME 08:28:01

SUMMARY PAGE 43

	QUANTY	UOM	LABOR	EQUIPMNT	MATERIAL	TOTAL COST	UNIT
Associated General Items	20,325		2,080		25,167	47,571	
Levees	540,297		617,402		576,265	1,733,963	
Levees and Floodwalls	540,297		617,402		576,265	1,733,963	
CONSTRUCTION	611,155		624,531		597,303	1,832,990	
GUADALUPE RIVER FIELD OVERHEAD	611,155		624,531		597,303	1,832,990 183,299	
SUBTOTAL						2,016,288	
HOME OFFICE OVERHEAD						80,652	
SUBTOTAL						2,096,940	
PROFIT						199,209	
SUBTOTAL						2,296,149	
BOND						11,965	
TOTAL INCL INDIRECTS						2,308,114	

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691

UPB ID: RG0691

Tue 11 Feb 1992

U.S. Army Corps of Engineers  
PROJECT GUAD01: GUADALUPE RIVER - Flood Protection Levee  
GUADALUPE RIVER FLOOD PROTECTION LEVEE

TIME 08:28:01

ERROR REPORT

ERROR PAGE 1

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No errors detected ...

\*\*\* END OF ERROR REPORT \*\*\*

LABOR ID: SARGNT

EQUIP ID: RG0691

CURRENCY IN DOLLARS

CREW ID: RG0691 UPB ID: RG0691

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

DETAILED COST ESTIMATES



GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

PRELIMINARY COST ESTIMATES

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 10-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01B--	Post-Authorization Planning	1	LS	21,000.00	21,000	3,150	15%
01C--	Local Cooperative Agreements	1	LS	17,500.00	17,500	1,750	10%
01D--	Acquisitions	1	LS	213,500.00	213,500	42,700	20%
01E--	Condemnations (Post-DT Filing)	1	LS	14,000.00	14,000	2,800	20%
01F--	Appraisals	1	LS	63,000.00	63,000	3,150	5%
01K--	Temporary Permits	1	LS	21,000.00	21,000	1,260	6%
01M--	Real Estate Payments						
01M3-	Land Payments						
	Proposed levee R.O.W.	24.6	ACR	3,000.00	73,800	18,450	25%
	Exist. & prop. levee R.O.W.	0.0	ACR	1,000.00	0	0	25%
	Proposed borrow R.O.W.	1.6	ACR	3,000.00	4,800	1,200	25%
	Proposed borrow R.O.W.	4.2	ACR	1,000.00	4,200	1,050	25%
01M5-	Damage Payments	1	LS	10,000.00	10,000	2,500	25%
	Subtotal, Lands and Damages (rounded)				443,000		
	Contingencies (rounded)					78,000	
01	TOTAL -- LANDS AND DAMAGES				521,000		
02	RELOCATIONS						
023--	Cemetaries, Utilities and Structures						
0232-	Utility Relocations						
	Relocate CP&L power poles	5	EA	550.00	2,750	825	30%
	Raise CP&L power lines	200	LF	8.00	1,600	480	30%
	Relocate telephone manhole	0	EA	1,200.00	0	0	30%
	Relocate tele. junction box	3	EA	1,500.00	4,500	1,350	30%
	Raise telephone line	200	LF	4.00	800	240	30%
	Raise cable T.V. line	280	LF	4.00	1,120	336	30%
	Relocate concrete chute	0	EA	3,500.00	0	0	30%
	Extend 15" concrete pipe	0	LF	10.57	0	0	30%
	Raise san. sewer manhole	1	EA	1,000.00	1,000	300	30%
	Subtotal, Utility Relocations				11,770	3,531	

GUADALUPE RIVER AT VICTORIA, TEXAS  
FEASIBILITY STUDY  
10-YEAR DESIGN  
JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
0232-	Structure Relocations						
	Remv/reinstall chain link	300	LF	4.90	1,470	441	30%
	Replace barbed wire fence	800	LF	3.00	2,400	720	30%
	Relocate house trailer	1	EA	750.00	750	225	30%
	Subtotal, Structure Relocations				4,620	1,386	
	Subtotal, Relocations (rounded)				16,000		
	Contingencies (rounded)					5,000	
02	TOTAL -- RELOCATIONS				21,000		
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Demolition						
	Remove roadway	915	SY	1.80	1,647	494	30%
	Remove chicken shed	0	SF	3.20	0	0	35%
	Remove house	1,700	SF	4.75	8,075	2,826	35%
	Remove tin shed	2,250	SF	3.20	7,200	2,520	35%
	Remove concrete RR dock	16	CY	550.00	8,800	3,080	35%
	Remove concrete tank	6	CY	550.00	3,300	1,155	35%
	Remove chain link fencing	100	LF	0.80	80	24	30%
	Clearing, Grubbing & Debris Removal						
	Borrow areas	2.6	ACR	2,300.00	5,980	2,093	35%
	Levee rehab	0.0	ACR	3,460.00	0	0	35%
	New levee	3.2	ACR	2,800.00	8,960	3,136	35%
	Stripping						
	Borrow areas	28,300	SY	0.34	9,622	2,887	30%
	Levee rehab	0	SY	0.34	0	0	30%
	New levee	32,000	SY	0.34	10,880	3,264	30%
	Levee Construction						
	Levee (sidecast)	35,000	CY	3.45	120,750	36,225	30%
	Levee (1.5-mile haul)	0	CY	4.71	0	0	30%
	Turfing						
	Topsoil	33,500	SY	0.83	27,805	8,342	30%
	Seed, mulch & fertilize	7.0	ACR	2,967.00	20,769	6,231	30%
	Asphalt Paving for New Ramps/Roadways						
	Aggregate base course	215	CY	32.60	7,009	2,103	30%
	Bituminous prime coat	380	CSF	0.80	304	91	30%
	Bituminous surface course	100	TON	34.60	3,460	1,038	30%
	Gravel surface course	6	CY	32.60	196	59	30%
	Install Barrier Gate	1	EA	1,000.00	1,000	300	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 10-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
	Drainage Culvert at Ben Jordan east of Bottom Street						
	Structural excavation	80	CY	2.32	186	56	30%
	Install 42" RCP, Class I	80	LF	54.70	4,376	1,313	30%
	Precast concrete headwall	2	EA	676.00	1,352	406	30%
	Backfill w/hand compaction	14	CY	4.00	56	17	30%
	Backfill w/machine compact	12	CY	2.65	32	10	30%
	Haul excess excavation	39	CY	1.12	44	13	30%
	Remove roadway	8	SY	1.80	14	4	30%
	Drainage Culvert at Bottom Street						
	Structural excavation	75	CY	2.32	174	52	30%
	Install 36" RCP, Class I	200	LF	43.90	8,780	2,634	30%
	Precast concrete headwall	2	EA	831.00	1,662	499	30%
	Backfill w/hand compaction	38	CY	4.00	152	46	30%
	Backfill w/machine compact	33	CY	2.65	87	26	30%
	Haul excess excavation	38	CY	1.12	43	13	30%
	Drainage Culvert at Church Street						
	Structural excavation	76	CY	2.32	176	53	30%
	Install 48" RCP, Class I	50	LF	65.10	3,255	977	30%
	Precast concrete headwall	2	EA	766.00	1,532	460	30%
	Backfill w/hand compaction	29	CY	4.00	116	35	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	23	CY	1.12	26	8	30%
	Remove roadway	13	SY	1.80	23	7	30%
	Drainage Culvert at Victoria Street						
	Structural excavation	0	CY	2.32	0	0	30%
	Install 12" RCP, Class I	0	LF	9.30	0	0	30%
	Precast concrete headwall	0	EA	271.00	0	0	30%
	Backfill w/hand compaction	0	CY	4.00	0	0	30%
	Backfill w/machine compact	0	CY	2.65	0	0	30%
	Ditch excavation	0	CY	2.12	0	0	30%
	Drainage Structure at South Outfall						
	Structural excavation	3,664	CY	2.32	8,500	2,550	30%
	Concrete gatewell	75	CY	350.00	26,250	7,875	30%
	Sluice gate, 5' x 5'	6	EA	14,500.00	87,000	26,100	30%
	Cast-in-place concrete	96	CY	350.00	33,600	10,080	30%
	48" RCP, Class IV	1,230	LF	92.75	114,083	34,225	30%
	Regrade dirt roadway	1,400	SY	0.60	840	252	30%
	Backfill w/hand compaction	1,610	CY	4.00	6,440	1,932	30%
	Backfill w/machine compact	1,414	CY	2.65	3,747	1,124	30%
	Haul excess excavation	832	CY	1.12	932	280	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
FEASIBILITY STUDY  
10-YEAR DESIGN  
JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
Drainage Structure at Elder Street							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	2,000	SY	0.34	680	204	30%
	Structural excavation	9,300	CY	2.32	21,576	6,473	30%
	Install 60" RCP, Class IV	151	LF	97.00	14,647	4,394	30%
	Cast-in-place concrete	62	CY	350.00	21,700	6,510	30%
	Sluice gate, 5'x 5'	1	EA	14,500.00	14,500	4,350	30%
	Sand bedding material	55	CY	16.50	908	272	30%
	Backfill w/hand compaction	2,145	CY	4.00	8,580	2,574	30%
	Backfill w/machine compact	7,100	CY	2.65	18,815	5,645	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	2,000	SY	0.83	1,660	498	30%
	Seed and fertilize	2,000	SY	0.37	740	222	30%
Drainage Structure at Wastewater Plant							
	Remove existing structure	1	LS	500.00	500	150	30%
	Stripping	250	SY	0.34	85	26	30%
	Structural excavation	3,000	CY	2.32	6,960	2,088	30%
	Install 48" RCP, Class IV	38	LF	65.20	2,478	743	30%
	Cast-in-place concrete	48	CY	350.00	16,800	5,040	30%
	Sluice gate, 4'x 4'	1	EA	9,500.00	9,500	2,850	30%
	Miscellaneous steel	500	LBS	0.60	300	90	30%
	Sand bedding material	13	CY	16.50	215	65	30%
	Backfill w/hand compaction	100	CY	4.00	400	120	30%
	Backfill w/machine compact	2,887	CY	2.65	7,651	2,295	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	250	SY	0.83	208	62	30%
	Seed and fertilize	250	SY	0.37	93	28	30%
Drainage Structure at Glass & Second Streets							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	300	SY	0.34	102	31	30%
	Structural excavation	1,000	CY	2.32	2,320	696	30%
	Install 12'x 6' box culvert	10	LF	330.00	3,300	990	30%
	Cast-in-place concrete	171	CY	350.00	59,850	17,955	30%
	Sluice gate, 10'x 7'	1	EA	47,500.00	47,500	14,250	30%
	Flap gate, 6'x 6'	2	EA	17,000.00	34,000	10,200	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	100	CY	16.50	1,650	495	30%
	Backfill w/hand compaction	200	CY	4.00	800	240	30%
	Backfill w/machine compact	800	CY	2.65	2,120	636	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	300	SY	0.83	249	75	30%
	Seed and fertilize	300	SY	0.37	111	33	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 10-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
	-----						
	Drainage Structure at Water Street						
	Remove existing structure	1	LS	1,500.00	1,500	450	30%
	Stripping	150	SY	0.34	51	15	30%
	Structural excavation	400	CY	2.32	928	278	30%
	Install 72" RCP	54	LF	115.00	6,210	1,863	30%
	Cast-in-place concrete	90	CY	350.00	31,500	9,450	30%
	Sluice gate, 6'x 6'	1	EA	16,000.00	16,000	4,800	30%
	Flap gate, 6'x 6'	1	EA	17,000.00	17,000	5,100	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	18	CY	16.50	297	89	30%
	Backfill w/hand compaction	120	CY	4.00	480	144	30%
	Backfill w/machine compact	1,400	CY	2.65	3,710	1,113	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	150	SY	0.83	125	38	30%
	Seed and fertilize	150	SY	0.37	56	17	30%
	Structural Wall at CP&L Power Plant						
	Structural excavation	50	CY	2.32	116	35	30%
	Steel plate buttresses	25,550	LBS	1.75	44,713	13,414	30%
	Cast-in-place concrete	34	CY	350.00	11,900	3,570	30%
	Backfill w/hand compaction	25	CY	4.00	100	30	30%
	Haul excess excavation	25	CY	1.12	28	8	30%
					=====	=====	
	Subtotal, Levees and Floodwalls (rounded)				1,341,000		
	Contingencies (rounded)					404,000	
11	TOTAL -- LEVEES AND FLOODWALLS				1,745,000		
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				247,240	35,320	
					=====	=====	
	Subtotal, Planning, Engineering & Design (rounded)				247,000		
	Contingencies (rounded)					35,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				282,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 10-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
31	CONSTRUCTION MANAGEMENT						
	Construction Management				141,280	35,320	
	Subtotal, Construction Management (rounded)				<u>141,000</u>		
	Contingencies (rounded)					35,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				176,000		
	Subtotal, Project Costs				<u>2,188,000</u>		
	Subtotal, Contingencies					557,000	
	TOTAL CURRENT PROJECT COST				2,745,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 25-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01B--	Post-Authorization Planning	1	LS	21,000.00	21,000	3,150	15%
01C--	Local Cooperative Agreements	1	LS	17,500.00	17,500	1,750	10%
01D--	Acquisitions	1	LS	213,500.00	213,500	42,700	20%
01E--	Condemnations (Post-DT Filing)	1	LS	14,000.00	14,000	2,800	20%
01F--	Appraisals	1	LS	63,000.00	63,000	3,150	5%
01K--	Temporary Permits	1	LS	21,000.00	21,000	1,260	6%
01M--	Real Estate Payments						
01M3-	Land Payments						
	Proposed levee R.O.W.	25.9	ACR	3,000.00	77,700	19,425	25%
	Exist. & prop. levee R.O.W.	0.0	ACR	1,000.00	0	0	25%
	Proposed borrow R.O.W.	2.4	ACR	3,000.00	7,200	1,800	25%
	Proposed borrow R.O.W.	4.7	ACR	1,000.00	4,700	1,175	25%
01M5-	Damage Payments	1	LS	10,000.00	10,000	2,500	25%
	Subtotal, Lands and Damages (rounded)				450,000		
	Contingencies (rounded)					80,000	
01	TOTAL -- LANDS AND DAMAGES					530,000	
02	RELOCATIONS						
023--	Cemetaries, Utilities and Structures						
0232-	Utility Relocations						
	Relocate CP&L power poles	5	EA	550.00	2,750	825	30%
	Raise CP&L power lines	200	LF	8.00	1,600	480	30%
	Relocate telephone manhole	0	EA	1,200.00	0	0	30%
	Relocate tele. junction box	3	EA	1,500.00	4,500	1,350	30%
	Raise telephone line	200	LF	4.00	800	240	30%
	Raise cable T.V. line	280	LF	4.00	1,120	336	30%
	Relocate concrete chute	0	EA	3,500.00	0	0	30%
	Extend 15" concrete pipe	0	LF	10.57	0	0	30%
	Raise san. sewer manhole	1	EA	1,000.00	1,000	300	30%
	Subtotal, Utility Relocations				11,770	3,531	



GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 25-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
0232-	Structure Relocations						
	Rmv/reinstall chain link	300	LF	4.90	1,470	441	30%
	Replace barbed wire fence	800	LF	3.00	2,400	720	30%
	Relocate house trailer	1	EA	750.00	750	225	30%
	Subtotal, Structure Relocations				4,620	1,386	
	Subtotal, Relocations (rounded)				16,000		
	Contingencies (rounded)					5,000	
02	TOTAL -- RELOCATIONS				21,000		
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Demolition						
	Remove roadway	1,108	SY	1.80	1,994	598	30%
	Remove chicken shed	0	SF	3.20	0	0	35%
	Remove house	1,700	SF	4.75	8,075	2,826	35%
	Remove tin shed	2,250	SF	3.20	7,200	2,520	35%
	Remove concrete RR dock	16	CY	550.00	8,800	3,080	35%
	Remove concrete tank	6	CY	550.00	3,300	1,155	35%
	Remove chain link fencing	100	LF	0.80	80	24	30%
	Clearing, Grubbing & Debris Removal						
	Borrow areas	3.1	ACR	2,300.00	7,130	2,496	35%
	Levee rehab	0.0	ACR	3,460.00	0	0	35%
	New levee	3.8	ACR	2,800.00	10,640	3,724	35%
	Stripping						
	Borrow areas	34,600	SY	0.34	11,764	3,529	30%
	Levee rehab	0	SY	0.34	0	0	30%
	New levee	38,100	SY	0.34	12,954	3,886	30%
	Levee Construction						
	Levee (sidecast)	44,000	CY	3.45	151,800	45,540	30%
	Levee (1.5-mile haul)	0	CY	4.71	0	0	30%
	Turfing						
	Topsoil	40,200	SY	0.83	33,366	10,010	30%
	Seed, mulch & fertilize	8.3	ACR	2,967.00	24,626	7,388	30%
	Asphalt Paving for New Ramps/Roadways						
	Aggregate base course	347	CY	32.60	11,312	3,394	30%
	Bituminous prime coat	450	CSF	0.80	360	108	30%
	Bituminous surface course	114	TON	34.60	3,944	1,183	30%
	Gravel surface course	6	CY	32.60	196	59	30%
	Install Barrier Gate	1	EA	1,000.00	1,000	300	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
FEASIBILITY STUDY  
25-YEAR DESIGN  
JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
	Drainage Culvert at Ben Jordan east of Bottom Street						
	Structural excavation	80	CY	2.32	186	56	30%
	Install 42" RCP, Class I	80	LF	54.70	4,376	1,313	30%
	Precast concrete headwall	2	EA	676.00	1,352	406	30%
	Backfill w/hand compaction	14	CY	4.00	56	17	30%
	Backfill w/machine compact	12	CY	2.65	32	10	30%
	Haul excess excavation	39	CY	1.12	44	13	30%
	Remove roadway	8	SY	1.80	14	4	30%
	Drainage Culvert at Bottom Street						
	Structural excavation	75	CY	2.32	174	52	30%
	Install 36" RCP, Class I	200	LF	43.90	8,780	2,634	30%
	Precast concrete headwall	2	EA	831.00	1,662	499	30%
	Backfill w/hand compaction	38	CY	4.00	152	46	30%
	Backfill w/machine compact	33	CY	2.65	87	26	30%
	Haul excess excavation	38	CY	1.12	43	13	30%
	Drainage Culvert at Church Street						
	Structural excavation	76	CY	2.32	176	53	30%
	Install 48" RCP, Class I	50	LF	65.10	3,255	977	30%
	Precast concrete headwall	2	EA	766.00	1,532	460	30%
	Backfill w/hand compaction	29	CY	4.00	116	35	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	23	CY	1.12	26	8	30%
	Remove roadway	13	SY	1.80	23	7	30%
	Drainage Culvert at Victoria Street						
	Structural excavation	4	CY	2.32	9	3	30%
	Install 12" RCP, Class I	22	LF	9.30	205	62	30%
	Precast concrete headwall	2	EA	271.00	542	163	30%
	Backfill w/hand compaction	2	CY	4.00	8	2	30%
	Backfill w/machine compact	2	CY	2.65	5	2	30%
	Ditch excavation	152	CY	2.12	322	97	30%
	Drainage Structure at South Outfall						
	Structural excavation	3,664	CY	2.32	8,500	2,550	30%
	Concrete gatewell	75	CY	350.00	26,250	7,875	30%
	Sluice gate, 5' x 5'	6	EA	14,500.00	87,000	26,100	30%
	Cast-in-place concrete	96	CY	350.00	33,600	10,080	30%
	48" RCP, Class IV	1,374	LF	92.75	127,439	38,232	30%
	Regrade dirt roadway	1,400	SY	0.60	840	252	30%
	Backfill w/hand compaction	1,610	CY	4.00	6,440	1,932	30%
	Backfill w/machine compact	1,414	CY	2.65	3,747	1,124	30%
	Haul excess excavation	832	CY	1.12	932	280	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
FEASIBILITY STUDY  
25-YEAR DESIGN  
JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
Drainage Structure at Elder Street							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	2,000	SY	0.34	680	204	30%
	Structural excavation	9,300	CY	2.32	21,576	6,473	30%
	Install 60" RCP, Class IV	151	LF	97.00	14,647	4,394	30%
	Cast-in-place concrete	62	CY	350.00	21,700	6,510	30%
	Sluice gate, 5'x 5'	1	EA	14,500.00	14,500	4,350	30%
	Sand bedding material	55	CY	16.50	908	272	30%
	Backfill w/hand compaction	2,145	CY	4.00	8,580	2,574	30%
	Backfill w/machine compact	7,100	CY	2.65	18,815	5,645	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	2,000	SY	0.83	1,660	498	30%
	Seed and fertilize	2,000	SY	0.37	740	222	30%
Drainage Structure at Wastewater Plant							
	Remove existing structure	1	LS	500.00	500	150	30%
	Stripping	250	SY	0.34	85	26	30%
	Structural excavation	3,000	CY	2.32	6,960	2,088	30%
	Install 48" RCP, Class IV	38	LF	65.20	2,478	743	30%
	Cast-in-place concrete	48	CY	350.00	16,800	5,040	30%
	Sluice gate, 4'x 4'	1	EA	9,500.00	9,500	2,850	30%
	Miscellaneous steel	500	LBS	0.60	300	90	30%
	Sand bedding material	13	CY	16.50	215	65	30%
	Backfill w/hand compaction	100	CY	4.00	400	120	30%
	Backfill w/machine compact	2,887	CY	2.65	7,651	2,295	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	250	SY	0.83	208	62	30%
	Seed and fertilize	250	SY	0.37	93	28	30%
Drainage Structure at Glass & Second Streets							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	300	SY	0.34	102	31	30%
	Structural excavation	1,000	CY	2.32	2,320	696	30%
	Install 12'x 6' box culvert	10	LF	330.00	3,300	990	30%
	Cast-in-place concrete	171	CY	350.00	59,850	17,955	30%
	Sluice gate, 10'x 7'	1	EA	47,500.00	47,500	14,250	30%
	Flap gate, 6'x 6'	2	EA	17,000.00	34,000	10,200	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	100	CY	16.50	1,650	495	30%
	Backfill w/hand compaction	200	CY	4.00	800	240	30%
	Backfill w/machine compact	800	CY	2.65	2,120	636	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	300	SY	0.83	249	75	30%
	Seed and fertilize	300	SY	0.37	111	33	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 25-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
	-----						
	Drainage Structure at Water Street						
	Remove existing structure	1	LS	1,500.00	1,500	450	30%
	Stripping	150	SY	0.34	51	15	30%
	Structural excavation	400	CY	2.32	928	278	30%
	Install 72" RCP	54	LF	115.00	6,210	1,863	30%
	Cast-in-place concrete	90	CY	350.00	31,500	9,450	30%
	Sluice gate, 6'x 6'	1	EA	16,000.00	16,000	4,800	30%
	Flap gate, 6'x 6'	1	EA	17,000.00	17,000	5,100	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	18	CY	16.50	297	89	30%
	Backfill w/hand compaction	120	CY	4.00	480	144	30%
	Backfill w/machine compact	1,400	CY	2.65	3,710	1,113	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	150	SY	0.83	125	38	30%
	Seed and fertilize	150	SY	0.37	56	17	30%
	Structural Wall at CP&L Power Plant						
	Structural excavation	50	CY	2.32	116	35	30%
	Steel plate buttresses	25,550	LBS	1.75	44,713	13,414	30%
	Cast-in-place concrete	34	CY	350.00	11,900	3,570	30%
	Backfill w/hand compaction	25	CY	4.00	100	30	30%
	Haul excess excavation	25	CY	1.12	28	8	30%
					=====	=====	
	Subtotal, Levees and Floodwalls (rounded)				1,408,000		
	Contingencies (rounded)					425,000	
11	TOTAL -- LEVEES AND FLOODWALLS				1,833,000		
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				259,560	37,080	
					=====	=====	
	Subtotal, Planning, Engineering & Design (rounded)				260,000		
	Contingencies (rounded)					37,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				297,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 25-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
31	CONSTRUCTION MANAGEMENT						
	Construction Management				148,320	37,080	
	Subtotal, Construction Management (rounded)				=====	=====	
	Contingencies (rounded)					37,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				185,000		
	Subtotal, Project Costs				=====	=====	
	Subtotal, Contingencies					584,000	
	TOTAL CURRENT PROJECT COST				2,866,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01B--	Post-Authorization Planning	1	LS	21,000.00	21,000	3,150	15%
01C--	Local Cooperative Agreements	1	LS	17,500.00	17,500	1,750	10%
01D--	Acquisitions	1	LS	213,500.00	213,500	42,700	20%
01E--	Condemnations (Post-DT Filing)	1	LS	14,000.00	14,000	2,800	20%
01F--	Appraisals	1	LS	63,000.00	63,000	3,150	5%
01K--	Temporary Permits	1	LS	21,000.00	21,000	1,260	6%
01M--	Real Estate Payments						
01M3-	Land Payments						
	Proposed levee R.O.W.	31.9	ACR	3,000.00	95,700	23,925	25%
	Exist. & prop. levee R.O.W.	23.1	ACR	1,000.00	23,100	5,775	25%
	Proposed borrow R.O.W.	4.5	ACR	3,000.00	13,500	3,375	25%
	Proposed borrow R.O.W.	27.8	ACR	1,000.00	27,800	6,950	25%
01M5-	Damage Payments	1	LS	10,000.00	10,000	2,500	25%
	Subtotal, Lands and Damages (rounded)				520,000		
	Contingencies (rounded)					97,000	
01	TOTAL -- LANDS AND DAMAGES				617,000		
02	RELOCATIONS						
023--	Cemetaries, Utilities and Structures						
0232-	Utility Relocations						
	Relocate CP&L power poles	11	EA	550.00	6,050	1,815	30%
	Raise CP&L power lines	380	LF	8.00	3,040	912	30%
	Relocate telephone manhole	1	EA	1,200.00	1,200	360	30%
	Relocate tele. junction box	3	EA	1,500.00	4,500	1,350	30%
	Raise telephone line	200	LF	4.00	800	240	30%
	Raise cable T.V. line	280	LF	4.00	1,120	336	30%
	Relocate concrete chute	1	EA	3,500.00	3,500	1,050	30%
	Extend 15" concrete pipe	12	LF	10.57	127	38	30%
	Raise san. sewer manhole	1	EA	1,000.00	1,000	300	30%
	Subtotal, Utility Relocations				21,337	6,401	

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
0232-	Structure Relocations						
	Remv/reinstall chain link	2,770	LF	4.90	13,573	4,072	30%
	Replace barbed wire fence	1,650	LF	3.00	4,950	1,485	30%
	Relocate house trailer	1	EA	750.00	750	225	30%
	Subtotal, Structure Relocations				19,273	5,782	
	Subtotal, Relocations (rounded)				41,000		
	Contingencies (rounded)					12,000	
02	TOTAL -- RELOCATIONS				53,000		
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Demolition						
	Remove roadway	3,440	SY	1.80	6,192	1,858	30%
	Remove chicken shed	400	SF	3.20	1,280	448	35%
	Remove house	1,700	SF	4.75	8,075	2,826	35%
	Remove tin shed	2,250	SF	3.20	7,200	2,520	35%
	Remove concrete RR dock	16	CY	550.00	8,800	3,080	35%
	Remove concrete tank	6	CY	550.00	3,300	1,155	35%
	Remove chain link fencing	1,000	LF	0.80	800	240	30%
	Clearing, Grubbing & Debris Removal						
	Borrow areas	7.7	ACR	2,300.00	17,710	6,199	35%
	Levee rehab	1.8	ACR	3,460.00	6,228	2,180	35%
	New levee	6.2	ACR	2,800.00	17,360	6,076	35%
	Stripping						
	Borrow areas	110,000	SY	0.34	37,400	11,220	30%
	Levee rehab	12,500	SY	0.34	4,250	1,275	30%
	New levee	54,000	SY	0.34	18,360	5,508	30%
	Levee Construction						
	Levee (sidecast)	70,000	CY	3.45	241,500	72,450	30%
	Levee (1.5-mile haul)	47,000	CY	4.71	221,370	66,411	30%
	Turfing						
	Topsoil	75,000	SY	0.83	62,250	18,675	30%
	Seed, mulch & fertilize	15.5	ACR	2,967.00	45,989	13,797	30%
	Asphalt Paving for New Ramps/Roadways						
	Aggregate base course	490	CY	32.60	15,974	4,792	30%
	Bituminous prime coat	229	CSF	0.80	183	55	30%
	Bituminous surface course	177	TON	34.60	6,124	1,837	30%
	Gravel surface course	15	CY	32.60	489	147	30%
	Install Barrier Gate	1	EA	1,000.00	1,000	300	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
Drainage Culvert at Ben Jordan east of Bottom Street							
	Structural excavation	160	CY	2.32	371	111	30%
	Install 42" RCP, Class I	160	LF	54.70	8,752	2,626	30%
	Precast concrete headwall	4	EA	676.00	2,704	811	30%
	Backfill w/hand compaction	28	CY	4.00	112	34	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	78	CY	1.12	87	26	30%
	Remove roadway	16	SY	1.80	29	9	30%
Drainage Culvert at Bottom Street							
	Structural excavation	163	CY	2.32	378	113	30%
	Install 36" RCP, Class I	300	LF	43.90	13,170	3,951	30%
	Precast concrete headwall	2	EA	1,108.00	2,216	665	30%
	Backfill w/hand compaction	57	CY	4.00	228	68	30%
	Backfill w/machine compact	49	CY	2.65	130	39	30%
	Haul excess excavation	57	CY	1.12	64	19	30%
Drainage Culvert at Church Street							
	Structural excavation	76	CY	2.32	176	53	30%
	Install 48" RCP, Class I	50	LF	65.10	3,255	977	30%
	Precast concrete headwall	2	EA	766.00	1,532	460	30%
	Backfill w/hand compaction	29	CY	4.00	116	35	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	23	CY	1.12	26	8	30%
	Remove roadway	13	SY	1.80	23	7	30%
Drainage Culvert at Victoria Street							
	Structural excavation	4	CY	2.32	9	3	30%
	Install 12" RCP, Class I	22	LF	9.30	205	62	30%
	Precast concrete headwall	2	EA	271.00	542	163	30%
	Backfill w/hand compaction	2	CY	4.00	8	2	30%
	Backfill w/machine compact	2	CY	2.65	5	2	30%
	Ditch excavation	152	CY	2.12	322	97	30%
Drainage Structure at South Outfall							
	Stripping	16,030	SY	0.34	5,450	1,635	30%
	Structural excavation	3,664	CY	2.32	8,500	2,550	30%
	Concrete gatewell	75	CY	350.00	26,250	7,875	30%
	Sluice gate, 5' x 5'	6	EA	14,500.00	87,000	26,100	30%
	Cast-in-place concrete	96	CY	350.00	33,600	10,080	30%
	48" RCP, Class IV	1,374	LF	92.75	127,439	38,232	30%
	Regrade dirt roadway	1,400	SY	0.60	840	252	30%
	Backfill w/hand compaction	1,610	CY	4.00	6,440	1,932	30%
	Backfill w/machine compact	1,414	CY	2.65	3,747	1,124	30%
	Haul excess excavation	832	CY	1.12	932	280	30%
	Topsoil	16,030	SY	0.83	13,305	3,992	30%
	Seed and fertilize	16,030	SY	0.37	5,931	1,779	30%



GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
Drainage Structure at Elder Street							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	2,000	SY	0.34	680	204	30%
	Structural excavation	9,300	CY	2.32	21,576	6,473	30%
	Install 60" RCP, Class IV	151	LF	97.00	14,647	4,394	30%
	Cast-in-place concrete	62	CY	350.00	21,700	6,510	30%
	Sluice gate, 5'x 5'	1	EA	14,500.00	14,500	4,350	30%
	Sand bedding material	55	CY	16.50	908	272	30%
	Backfill w/hand compaction	2,145	CY	4.00	8,580	2,574	30%
	Backfill w/machine compact	7,100	CY	2.65	18,815	5,645	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	2,000	SY	0.83	1,660	498	30%
	Seed and fertilize	2,000	SY	0.37	740	222	30%
Drainage Structure at Wastewater Plant							
	Remove existing structure	1	LS	500.00	500	150	30%
	Stripping	250	SY	0.34	85	26	30%
	Structural excavation	3,000	CY	2.32	6,960	2,088	30%
	Install 48" RCP, Class IV	38	LF	65.20	2,478	743	30%
	Cast-in-place concrete	48	CY	350.00	16,800	5,040	30%
	Sluice gate, 4'x 4'	1	EA	9,500.00	9,500	2,850	30%
	Miscellaneous steel	500	LBS	0.60	300	90	30%
	Sand bedding material	13	CY	16.50	215	65	30%
	Backfill w/hand compaction	100	CY	4.00	400	120	30%
	Backfill w/machine compact	2,887	CY	2.65	7,651	2,295	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	250	SY	0.83	208	62	30%
	Seed and fertilize	250	SY	0.37	93	28	30%
Drainage Structure at Glass & Second Streets							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	300	SY	0.34	102	31	30%
	Structural excavation	1,000	CY	2.32	2,320	696	30%
	Install 12'x 6' box culvert	10	LF	330.00	3,300	990	30%
	Cast-in-place concrete	171	CY	350.00	59,850	17,955	30%
	Sluice gate, 10'x 7'	1	EA	47,500.00	47,500	14,250	30%
	Flap gate, 6'x 6'	2	EA	17,000.00	34,000	10,200	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	100	CY	16.50	1,650	495	30%
	Backfill w/hand compaction	200	CY	4.00	800	240	30%
	Backfill w/machine compact	800	CY	2.65	2,120	636	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	300	SY	0.83	249	75	30%
	Seed and fertilize	300	SY	0.37	111	33	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
	Drainage Structure at Water Street						
	Remove existing structure	1	LS	1,500.00	1,500	450	30%
	Stripping	150	SY	0.34	51	15	30%
	Structural excavation	400	CY	2.32	928	278	30%
	Install 72" RCP	54	LF	115.00	6,210	1,863	30%
	Cast-in-place concrete	90	CY	350.00	31,500	9,450	30%
	Sluice gate, 6'x 6'	1	EA	16,000.00	16,000	4,800	30%
	Flap gate, 6'x 6'	1	EA	17,000.00	17,000	5,100	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	18	CY	16.50	297	89	30%
	Backfill w/hand compaction	120	CY	4.00	480	144	30%
	Backfill w/machine compact	1,400	CY	2.65	3,710	1,113	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	150	SY	0.83	125	38	30%
	Seed and fertilize	150	SY	0.37	56	17	30%
	Structural Wall at CP&L Power Plant						
	Structural excavation	50	CY	2.32	116	35	30%
	Steel plate buttresses	25,550	LBS	1.75	44,713	13,414	30%
	Cast-in-place concrete	34	CY	350.00	11,900	3,570	30%
	Backfill w/hand compaction	25	CY	4.00	100	30	30%
	Haul excess excavation	25	CY	1.12	28	8	30%
					=====	=====	
	Subtotal, Levees and Floodwalls (rounded)				1,877,000		
	Contingencies (rounded)					567,000	
11	TOTAL -- LEVEES AND FLOODWALLS				2,444,000		
30	PLANNING, ENGINEERING & DESIGN						
	Planning, Engineering & Design				349,580	49,940	
					=====	=====	
	Subtotal, Planning, Engineering & Design (rounded)				350,000		
	Contingencies (rounded)					50,000	
30	TOTAL -- PLANNING, ENGINEERING & DESIGN				400,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
31	CONSTRUCTION MANAGEMENT						
	Construction Management				199,760	49,940	
	Subtotal, Construction Management (rounded)				200,000		
	Contingencies (rounded)					50,000	
31	TOTAL -- CONSTRUCTION MANAGEMENT				250,000		
	Subtotal, Project Costs				2,988,000		
	Subtotal, Contingencies					776,000	
	TOTAL CURRENT PROJECT COST				3,764,000		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
01	LANDS AND DAMAGES						
01B--	Post-Authorization Planning	1	LS	21,000.00	21,000	3,150	15%
01C--	Local Cooperative Agreements	1	LS	17,500.00	17,500	1,750	10%
01D--	Acquisitions	1	LS	213,500.00	213,500	42,700	20%
01E--	Condemnations (Post-DT Filing)	1	LS	14,000.00	14,000	2,800	20%
01F--	Appraisals	1	LS	63,000.00	63,000	3,150	5%
01K--	Temporary Permits	1	LS	21,000.00	21,000	1,260	6%
01M--	Real Estate Payments						
01M3-	Land Payments						
	Proposed levee R.O.W.	37.5	ACR	3,000.00	112,500	28,125	25%
	Exist. & prop. levee R.O.W.	23.1	ACR	1,000.00	23,100	5,775	25%
	Proposed borrow R.O.W.	4.5	ACR	3,000.00	13,500	3,375	25%
	Proposed borrow R.O.W.	38.5	ACR	1,000.00	38,500	9,625	25%
01M5-	Damage Payments	1	LS	10,000.00	10,000	2,500	25%
	Subtotal, Lands and Damages (rounded)				548,000		
	Contingencies (rounded)					104,000	
01	TOTAL -- LANDS AND DAMAGES				652,000		
02	RELOCATIONS						
023--	Cemetaries, Utilities and Structures						
0232-	Utility Relocations						
	Relocate CP&L power poles	15	EA	550.00	8,250	2,475	30%
	Raise CP&L power lines	450	LF	8.00	3,600	1,080	30%
	Relocate telephone manhole	1	EA	1,200.00	1,200	360	30%
	Relocate tele. junction box	3	EA	1,500.00	4,500	1,350	30%
	Raise telephone line	200	LF	4.00	800	240	30%
	Raise cable T.V. line	280	LF	4.00	1,120	336	30%
	Relocate concrete chute	1	EA	1,400.00	1,400	420	30%
	Extend 15" concrete pipe	16	LF	10.57	169	51	30%
	Raise san. sewer manhole	1	EA	1,000.00	1,000	300	30%
	Subtotal, Utility Relocations				22,039	6,612	

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
0232-	Structure Relocations						
	Remv/reinstall chain link	2,770	LF	4.90	13,573	4,072	30%
	Replace barbed wire fence	1,700	LF	3.00	5,100	1,530	30%
	Relocate house trailer	1	EA	750.00	750	225	30%
	Subtotal, Structure Relocations				19,423	5,827	
	Subtotal, Relocations (rounded)				41,000		
	Contingencies (rounded)					12,000	
02	TOTAL -- RELOCATIONS				53,000		
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Demolition						
	Remove roadway	4,376	SY	1.80	7,877	2,363	30%
	Remove chicken shed	400	SF	3.20	1,280	448	35%
	Remove house	1,700	SF	4.75	8,075	2,826	35%
	Remove tin shed	2,250	SF	3.20	7,200	2,520	35%
	Remove concrete RR dock	16	CY	550.00	8,800	3,080	35%
	Remove concrete tank	6	CY	550.00	3,300	1,155	35%
	Remove chain link fencing	1,000	LF	0.80	800	240	30%
	Clearing, Grubbing & Debris Removal						
	Borrow areas	8.0	ACR	2,300.00	18,400	6,440	35%
	Levee rehab	5.7	ACR	3,460.00	19,722	6,903	35%
	New levee	7.3	ACR	2,800.00	20,440	7,154	35%
	Stripping						
	Borrow areas	162,000	SY	0.34	55,080	16,524	30%
	Levee rehab	33,500	SY	0.34	11,390	3,417	30%
	New levee	76,500	SY	0.34	26,010	7,803	30%
	Levee Construction						
	Levee (sidecast)	70,000	CY	3.45	241,500	72,450	30%
	Levee (1.5-mile haul)	47,000	CY	4.71	221,370	66,411	30%
	Levee (2.0-mile haul)	102,000	CY	5.14	524,280	157,284	30%
	Turfing						
	Topsoil	116,000	SY	0.83	96,280	28,884	30%
	Seed, mulch & fertilize	24.0	ACR	2,967.00	71,208	21,362	30%
	Asphalt Paving for New Ramps/Roadways						
	Aggregate base course	692	CY	32.60	22,559	6,768	30%
	Bituminous prime coat	1,071	CSF	0.80	857	257	30%
	Bituminous surface course	267	TON	34.60	9,238	2,771	30%
	Gravel surface course	24	CY	32.60	782	235	30%
	Install Barrier Gate	1	EA	1,000.00	1,000	300	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
Drainage Culvert at Ben Jordan east of Bottom Street							
	Structural excavation	130	CY	2.32	302	91	30%
	Install 42" RCP, Class I	160	LF	54.70	8,752	2,626	30%
	Precast concrete headwall	4	EA	676.00	2,704	811	30%
	Backfill w/hand compaction	28	CY	4.00	112	34	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	78	CY	1.12	87	26	30%
	Remove roadway	16	SY	1.80	29	9	30%
Drainage Culvert at Bottom Street							
	Structural excavation	163	CY	2.32	378	113	30%
	Install 36" RCP, Class I	300	LF	43.90	13,170	3,951	30%
	Precast concrete headwall	2	EA	1,108.00	2,216	665	30%
	Backfill w/hand compaction	57	CY	4.00	228	68	30%
	Backfill w/machine compact	49	CY	2.65	130	39	30%
	Haul excess excavation	57	CY	1.12	64	19	30%
Drainage Culvert at Church Street							
	Structural excavation	76	CY	2.32	176	53	30%
	Install 48" RCP, Class I	50	LF	65.10	3,255	977	30%
	Precast concrete headwall	2	EA	766.00	1,532	460	30%
	Backfill w/hand compaction	29	CY	4.00	116	35	30%
	Backfill w/machine compact	24	CY	2.65	64	19	30%
	Haul excess excavation	23	CY	1.12	26	8	30%
	Remove roadway	13	SY	1.80	23	7	30%
Drainage Culvert at Victoria Street							
	Structural excavation	4	CY	2.32	9	3	30%
	Install 12" RCP, Class I	22	LF	9.30	205	62	30%
	Precast concrete headwall	2	EA	271.00	542	163	30%
	Backfill w/hand compaction	2	CY	4.00	8	2	30%
	Backfill w/machine compact	2	CY	2.65	5	2	30%
	Ditch excavation	152	CY	2.12	322	97	30%
Drainage Structure at South Outfall							
	Stripping	16,660	SY	0.34	5,664	1,699	30%
	Structural excavation	3,664	CY	2.32	8,500	2,550	30%
	Concrete gatewell	75	CY	350.00	26,250	7,875	30%
	Sluice gate, 5' x 5'	6	EA	14,500.00	87,000	26,100	30%
	Cast-in-place concrete	108	CY	350.00	37,800	11,340	30%
	48" RCP, Class IV	1,383	LF	92.75	128,273	38,482	30%
	Regrade dirt roadway	1,400	SY	0.60	840	252	30%
	Backfill w/hand compaction	1,610	CY	4.00	6,440	1,932	30%
	Backfill w/machine compact	1,414	CY	2.65	3,747	1,124	30%
	Haul excess excavation	832	CY	1.12	932	280	30%
	Topsoil	16,660	SY	0.83	13,828	4,148	30%
	Seed and fertilize	16,660	SY	0.37	6,164	1,849	30%

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
-----							
Drainage Structure at Elder Street							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	2,000	SY	0.34	680	204	30%
	Structural excavation	9,300	CY	2.32	21,576	6,473	30%
	Install 60" RCP, Class IV	151	LF	97.00	14,647	4,394	30%
	Cast-in-place concrete	65	CY	350.00	22,750	6,825	30%
	Sluice gate, 5'x 5'	1	EA	14,500.00	14,500	4,350	30%
	Sand bedding material	55	CY	16.50	908	272	30%
	Backfill w/hand compaction	2,145	CY	4.00	8,580	2,574	30%
	Backfill w/machine compact	7,100	CY	2.65	18,815	5,645	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	2,000	SY	0.83	1,660	498	30%
	Seed and fertilize	2,000	SY	0.37	740	222	30%
Drainage Structure at Wastewater Plant							
	Remove existing structure	1	LS	500.00	500	150	30%
	Stripping	250	SY	0.34	85	26	30%
	Structural excavation	3,000	CY	2.32	6,960	2,088	30%
	Install 48" RCP, Class IV	38	LF	65.20	2,478	743	30%
	Cast-in-place concrete	50	CY	350.00	17,500	5,250	30%
	Sluice gate, 4'x 4'	1	EA	9,500.00	9,500	2,850	30%
	Miscellaneous steel	500	LBS	0.60	300	90	30%
	Sand bedding material	13	CY	16.50	215	65	30%
	Backfill w/hand compaction	100	CY	4.00	400	120	30%
	Backfill w/machine compact	2,887	CY	2.65	7,651	2,295	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	250	SY	0.83	208	62	30%
	Seed and fertilize	250	SY	0.37	93	28	30%
Drainage Structure at Glass & Second Streets							
	Remove existing structure	1	LS	1,000.00	1,000	300	30%
	Stripping	300	SY	0.34	102	31	30%
	Structural excavation	1,000	CY	2.32	2,320	696	30%
	Install 12'x 6' box culvert	10	LF	330.00	3,300	990	30%
	Cast-in-place concrete	175	CY	350.00	61,250	18,375	30%
	Sluice gate, 10'x 7'	1	EA	47,500.00	47,500	14,250	30%
	Flap gate, 6'x 6'	2	EA	17,000.00	34,000	10,200	30%
	Miscellaneous steel	2,000	LBS	0.60	1,200	360	30%
	Sand bedding material	100	CY	16.50	1,650	495	30%
	Backfill w/hand compaction	200	CY	4.00	800	240	30%
	Backfill w/machine compact	800	CY	2.65	2,120	636	30%
	Steel sheet pile cofferdam	6,603	SF	13.30	87,820	26,346	30%
	Topsoil	300	SY	0.83	249	75	30%
	Seed and fertilize	300	SY	0.37	111	33	30%

Wed 06 Sep 1995  
Eff. Date 10/01/95  
ERROR REPORT

U.S. Army Corps of Engineers  
PROJECT VIC217: Guadalupe River Levee/Wall - 217 Year Storm  
Guadalupe River at Victoria, Texas

TIME 10:26:21  
ERROR PAGE 1

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No errors detected...

\* \* \* END OF ERROR REPORT \* \* \*



Wed 06 Sep 1995  
Eff. Date 10/01/95

U.S. Army Corps of Engineers  
PROJECT VIC250: Guadalupe River Levee/Wall NED - 250 Year Storm  
Guadalupe River at Victoria, Texas

TIME 10:16:12

TITLE PAGE 1

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Guadalupe River Levee/Wall NED  
250 Year Storm  
Levee & Floodwall  
Victoria, Texas

Designed By: CESWG-ED  
Estimated By: CESWG-ED-E

Prepared By: U.S. Army Corps of Engineers  
Galveston District, Texas

Preparation Date: 08/15/95  
Effective Date of Pricing: 10/01/95

Sales Tax: 0.00%

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Wed 06 Sep 1995  
Eff. Date 10/01/95  
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U.S. Army Corps of Engineers  
PROJECT VIC250: Guadalupe River Levee/Wall NED - 250 Year Storm  
Guadalupe River at Victoria, Texas

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No Detailed Estimate...

No Backup Reports...

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Wed 06 Sep 1995  
Eff. Date 10/01/95

U.S. Army Corps of Engineers  
PROJECT VIC250: Guadalupe River Levee/Wall NED - 250 Year Storm  
Guadalupe River at Victoria, Texas  
\*\* PROJECT OWNER SUMMARY - FEATURE \*\*

TIME 10:16:12  
SUMMARY PAGE 1

	QUANTY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
-----							
01 Construction Contract							
01-1 Non-Federal							
01-1-01 Lands and Damages			488,720	28,748	87,180	604,648	
01-1-02 Relocations			356,721	20,776	94,096	471,593	
			-----	-----	-----	-----	
TOTAL Non-Federal			845,441	49,524	181,276	1,076,241	
01-2 Federal							
01-2-01 Lands and Damages			87,500	8,018	13,125	108,643	
01-2-11 Levees & Floodwalls			5,215,100	716,817	1,456,611	7,388,528	
01-2-30 Engineering & Design			480,987	7,186	72,244	560,417	
01-2-31 Constnuction Management			243,000	33,400	24,300	300,700	
			-----	-----	-----	-----	
TOTAL Federal			6,026,587	765,421	1,566,280	8,358,288	
			-----	-----	-----	-----	
TOTAL Construction Contract			6,872,028	814,945	1,747,556	9,434,529	
			-----	-----	-----	-----	
TOTAL Guadalupe River Levee/Wall NED			6,872,028	814,945	1,747,556	9,434,529	

	QUANTITY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
-----							
01 Construction Contract							
01-1 Non-Federal							
01-1-01 Lands and Damages							
01-1-0123 Constructn Contract(s) Documnts							
01-1-012302 Acquisitions			140,000	8,235	21,000	169,235	
01-1-012303 Condemnations			17,500	1,029	2,625	21,154	
01-1-012305 Appraisals			87,500	5,147	13,125	105,772	
01-1-012307 Temporary Permits/Licenses/ROW			35,000	2,059	5,250	42,309	
01-1-012312 Project Related Administration			52,500	3,088	7,875	63,463	
01-1-012315 Real Estate Payment Documents							
01-1-01231501 Land Payments			116,220	6,836	29,055	152,111	
01-1-01231502 PL 91-646 Assistance Payments			7,500	441	1,875	9,816	
01-1-01231503 Damage Payments			15,000	882	3,750	19,632	
			-----	-----	-----	-----	
TOTAL Real Estate Payment Documents			138,720	8,160	34,680	181,560	
01-1-012317 LERRD Crediting			17,500	1,029	2,625	21,154	
			-----	-----	-----	-----	
TOTAL Constructn Contract(s) Documnts			488,720	28,748	87,180	604,648	
			-----	-----	-----	-----	
TOTAL Lands and Damages			488,720	28,748	87,180	604,648	
01-1-02 Relocations							
01-1-0201 Mob, Demob & Preparatory Work							
01-1-020101 Mob & Demob			1,750	103	185	2,038	
			-----	-----	-----	-----	
TOTAL Mob, Demob & Preparatory Work			1,750	103	185	2,038	
01-1-0218 Utilities							
01-1-021801 CP&L Utilities							
01-1-02180101 Wall Penetrations			312,461	18,380	82,710	413,551	
			-----	-----	-----	-----	
TOTAL CP&L Utilities			312,461	18,380	82,710	413,551	
01-1-021802 Sanitary Sewer							

		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UN:7
01-1-02180201	Raise Sanitary Sewer Manhole	1.00 EA	967	57	256	1,279	1279.28
TOTAL Sanitary Sewer			967	57	256	1,279	
01-1-021815 Telecommunications							
01-1-02181501	Relocate Telephone Manhole	1.00 EA	1,395	82	369	1,846	1845.75
01-1-02181502	Relocate Telephone Junction Box	3.00 EA	4,184	246	1,107	5,537	1845.75
01-1-02181503	Raise Telephone Lines	200.00 LF	240	14	64	318	1.59
01-1-02181504	Raise CATV Lines	280.00 LF	1,127	66	298	1,492	5.33
TOTAL Telecommunications			6,946	409	1,839	9,193	
01-1-021816 Electrical							
01-1-02181601	Relocate CP&L Power Poles	11.00 EA	26,693	1,570	7,066	35,328	3211.67
01-1-02181602	Relocate CP&L Power Lines	380.00 LF	457	27	121	604	1.59
TOTAL Electrical			27,149	1,597	7,187	35,933	
TOTAL Utilities			347,522	20,442	91,991	459,955	
01-1-0230 Engineering & Design							
01-1-023023	Constructn Contracts(s) Documnts		4,249	42	1,073	5,365	
TOTAL Engineering & Design			4,249	42	1,073	5,365	
01-1-0231 Construction Management							
01-1-023123	Construction Contracts		3,200	188	847	4,235	
TOTAL Construction Management			3,200	188	847	4,235	
TOTAL Relocations			356,721	20,776	94,096	471,593	
TOTAL Non-Federal			845,441	49,524	181,276	1,076,241	
01-2 Federal							
01-2-01 Lands and Damages							
01-2-0123 Constructn Contract(s) Documnts							
01-2-012302	Acquisitions		35,000	3,207	5,250	43,457	
01-2-012303	Condemnations		4,375	401	656	5,432	

		QUANTY	UCM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
01-2-012305	Appraisals			21,875	2,004	3,281	27,160	
01-2-012307	Temporary Permits/Licenses/ROW			8,750	802	1,313	10,865	
01-2-012312	Project Related Administration			13,125	1,203	1,969	16,297	
01-2-012317	LERRD Crediting			4,375	401	656	5,432	
TOTAL Constructn Contract(s) Documnts				87,500	8,018	13,125	108,643	
TOTAL Lands and Damages				87,500	8,018	13,125	108,643	
01-2-11 Levees & Floodwalls								
01-2-1101 Levee Mob, Demob & Prep Work								
01-2-110101	Mob. & Demob.			4,374	601	498	5,473	
TOTAL Mob. & Demob.				4,374	601	498	5,473	
01-2-110102 Demolition								
01-2-11010201	Remove Concrete Chute	150.00	SY	509	70	145	724	4.82
01-2-11010202	Remove Chain Link Fence	300.00	LF	178	24	51	253	0.8
01-2-11010203	Remove Barbed Wire Fence	2830.00	LF	1,681	231	478	2,390	0.84
TOTAL Demolition				2,368	325	673	3,367	
01-2-110103 Replacement								
01-2-11010301	Replace Concrete Chute	150.00	SY	2,032	279	578	2,890	19.26
01-2-11010302	Replace Chain Link Fence	300.00	LF	4,843	666	1,377	6,885	22.95
01-2-11010303	Replace Barbed Wire Fence	2830.00	LF	7,455	1,025	2,120	10,599	3.75
TOTAL Replacement				14,330	1,970	4,075	20,374	
01-2-110104 Clear, Grub & Debris Removal								
01-2-11010401	Borrow Area	13.50	ACR	24,688	3,393	7,020	35,102	2600.14
01-2-11010402	Levee Area	14.10	ACR	25,785	3,544	7,332	36,662	2600.14
TOTAL Clear, Grub & Debris Removal				50,474	6,938	14,353	71,764	
01-2-110105 Stripping								
01-2-11010501	Borrow Area	65340	SY	21,186	2,912	6,024	30,122	0.46
01-2-11010502	Levee Area	68200	SY	22,114	3,040	6,288	31,441	0.46

		QUANTY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
TOTAL Stripping				43,299	5,951	12,313	61,563	
TOTAL Levee Mob, Demob & Prep Work				114,845	15,785	31,911	162,541	
01-2-1102 Levee Drainage								
01-2-110207 Culvert @ Ben Jordan								
01-2-11020701	Structural Excavation	160.00	CY	342	47	97	487	3.04
01-2-11020702	Install 42" RCP, Class II	160.00	LF	10,329	1,420	2,937	14,685	91.78
01-2-11020703	Precast Concrete Headwall	4.00	EA	2,476	340	704	3,520	880.07
01-2-11020705	Backfill w/hand Compaction	28.00	CY	243	33	69	345	12.32
01-2-11020706	Backfill w/machine Compaction	24.00	CY	34	5	10	48	1.99
01-2-11020707	Haul Excess Excavation	78.00	CY	237	33	67	337	4.32
01-2-11020708	Remove Roadway	16.00	SY	12	2	3	17	1.07
TOTAL Culvert @ Ben Jordan				13,672	1,879	3,888	19,439	
01-2-110208 Culvert @ Bottom St.								
01-2-11020801	Structural Excavation	163.00	CY	346	48	98	492	3.02
01-2-11020802	Install 36" RCP, Class II	300.00	LF	15,551	2,137	4,422	22,111	73.70
01-2-11020803	Precast Concrete Headwall	2.00	EA	757	104	215	1,076	538.21
01-2-11020805	Backfill w/hand Compaction	57.00	CY	494	68	140	702	12.32
01-2-11020806	Backfill w/machine Compaction	49.00	CY	69	9	19	97	1.99
01-2-11020807	Haul Excess Excavation	57.00	CY	173	24	49	246	4.32
TOTAL Culvert @ Bottom St.				17,390	2,390	4,945	24,725	
01-2-110209 Culvert @ Church St.								
01-2-11020901	Structural Excavation	76.00	CY	166	23	47	236	3.11
01-2-11020902	Install 48" RCP, Class II	50.00	LF	3,828	526	1,089	5,443	108.86
01-2-11020903	Precast Concrete Headwall	2.00	EA	1,238	170	352	1,760	880.07
01-2-11020905	Backfill w/hand Compaction	29.00	CY	251	35	71	357	12.32
01-2-11020906	Backfill w/machine Compaction	24.00	CY	34	5	10	48	1.99
01-2-11020907	Haul Excess Excavation	23.00	CY	70	10	20	99	4.32
01-2-11020908	Remove Roadway	13.00	SY	8	1	2	11	0.88
TOTAL Culvert @ Church St.				5,595	769	1,591	7,955	
01-2-110210 Culvert @ Victoria St.								
01-2-11021001	Structural Excavation	4.00	CY	23	3	7	33	8.13
01-2-11021002	Install 12" RCP, Class II	22.00	LF	248	34	71	353	16.03
01-2-11021003	Precast Concrete Headwall	2.00	EA	430	59	122	611	305.57
01-2-11021005	Backfill w/hand Compaction	2.00	CY	17	2	5	25	12.32

		QUANTITY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
01-2-11021006	Backfill w/machine Compaction	2.00	CY	3	0	1	4	1.99
01-2-11021009	Ditch Excavation	152.00	CY	462	63	131	656	4.32
TOTAL Culvert @ Victoria St.				1,183	163	336	1,681	
01-2-110211 Culvert @ Borrow Area 3								
01-2-11021101	Structural Excavation	815.00	CY	1,749	240	497	2,487	3.05
01-2-11021102	Install 24" RCP, Class II	22.00	LF	545	75	155	774	35.20
01-2-11021103	Precast Concrete Headwall	2.00	EA	523	72	149	743	371.73
01-2-11021104	Concrete Manhole	1.00	EA	315	43	89	447	447.22
01-2-11021105	Backfill w/hand Compaction	450.00	CY	3,899	536	1,109	5,544	12.32
01-2-11021106	Backfill w/machine Compaction	170.00	CY	238	33	68	338	1.99
01-2-11021107	Haul Excess Excavation	195.00	CY	592	81	168	842	4.32
TOTAL Culvert @ Borrow Area 3				7,860	1,080	2,235	11,176	
01-2-110212 Structure @ South Outfall								
01-2-11021201	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,539	5539.47
01-2-11021202	Stripping	16030	SY	2,092	288	595	2,975	0.19
01-2-11021203	Structural Excavation	3664.00	CY	7,833	1,077	2,228	11,138	3.04
01-2-11021204	Cast-in-place Concrete	106.00	CY	21,004	2,887	5,973	29,864	281.73
01-2-11021205	Sluice Gate, 4' X 4'	6.00	EA	101,870	14,002	28,968	144,840	24140
01-2-11021206	Concrete Gatewell	75.00	CY	26,420	3,632	7,513	37,565	500.87
01-2-11021207	Reinforced Concrete Drainage Str	700.00	CY	246,591	33,894	70,121	350,607	500.87
01-2-11021208	Flap Gate, 4' X 4'	6.00	EA	35,146	4,831	9,994	49,970	8328.41
01-2-11021209	48" Reinforced Concrete Pipe	1374.00	LF	105,197	14,459	29,914	149,571	108.86
01-2-11021210	Sand Bedding Material	470.00	CY	10,980	1,509	3,122	15,611	33.21
01-2-11021211	Backfill w/hand Compaction	1610.00	CY	13,949	1,917	3,967	19,834	12.32
01-2-11021212	Backfill w/machine Compaction	1414.00	CY	1,978	272	563	2,813	1.99
01-2-11021213	Topsoil	16030	SY	30,959	4,255	8,804	44,018	2.75
01-2-11021214	Seed & Fertilize	3.30	AC	8,986	1,235	2,555	12,777	3871.83
01-2-11021215	Haul Excess Excavation	832.00	CY	2,527	347	719	3,593	4.32
01-2-11021216	Regrade Dirt Road	1400.00	SY	503	69	143	715	0.51
TOTAL Structure @ South Outfall				619,933	85,210	176,286	881,428	
01-2-110213 Structure @ Elder St.								
01-2-11021301	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,539	5539.47
01-2-11021302	Stripping	2000.00	SY	261	36	74	371	0.19
01-2-11021303	Structural Excavation	9300.00	CY	19,892	2,734	5,656	28,282	3.04
01-2-11021304	Cast-in-place Concrete	64.00	CY	12,682	1,743	3,606	18,031	281.73
01-2-11021305	Sluice Gate, 5' X 5'	1.00	EA	27,082	3,722	7,701	38,506	38506
01-2-11021306	Steel Sheet Pile Cofferdam	6603.00	SF	156,220	21,472	44,423	222,115	33.64
01-2-11021307	Reinforced Concrete Headwall	3.00	CY	1,057	145	301	1,503	500.87
01-2-11021308	Flap Gate, 5' X 5'	1.00	EA	11,321	1,556	3,219	16,096	16096



	QUANTITY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT		
01-2-11021309	60"	Reinforced Concrete Pipe	151.00	LF	16,813	2,311	4,781	23,904	158.31
01-2-11021310	Sand Bedding Material	55.00	CY	1,285	177	365	1,827	53.21	
01-2-11021311	Backfill w/hand Compaction	2145.00	CY	18,585	2,554	5,285	26,424	12.32	
01-2-11021312	Backfill w/machine Compaction	7100.00	CY	9,933	1,365	2,824	14,122	1.99	
01-2-11021313	Topsoil	2000.00	SY	3,861	531	1,098	5,489	2.74	
01-2-11021314	Seed & Fertilize	0.40	AC	1,089	150	310	1,549	3871.83	
01-2-11021318	Blanket Stone	27.00	TON	958	132	272	1,362	50.43	
01-2-11021319	Riprap	62.00	TON	2,096	288	596	2,981	48.07	
TOTAL Structure @ Elder St.					287,029	39,452	81,620	408,101	
01-2-110214 Structure @ Wastewater Plant									
01-2-11021401	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,539	5539.47	
01-2-11021402	Stripping	250.00	SY	33	4	9	46	0.19	
01-2-11021403	Structural Excavation	3000.00	CY	6,417	882	1,825	9,123	3.04	
01-2-11021404	Cast-in-place Concrete	49.00	CY	9,709	1,335	2,761	13,805	281.73	
01-2-11021405	Sluice Gate, 4' X 4'	1.00	EA	16,978	2,334	4,828	24,140	24140	
01-2-11021406	Steel Sheet Pile Cofferdam	6603.00	SF	156,220	21,472	44,423	222,115	33.64	
01-2-11021408	Flap Gate, 4' X 4'	1.00	EA	5,858	805	1,666	8,328	8328.41	
01-2-11021409	48" Reinforced Concrete Pipe	38.00	LF	2,909	400	827	4,137	108.86	
01-2-11021410	Sand Bedding Material	13.00	CY	304	42	86	432	33.21	
01-2-11021411	Backfill w/hand Compaction	100.00	CY	866	119	246	1,232	12.32	
01-2-11021412	Backfill w/machine Compaction	2887.00	CY	4,039	555	1,148	5,742	1.99	
01-2-11021413	Topsoil	250.00	SY	485	67	138	689	2.76	
01-2-11021414	Seed & Fertilize	0.05	AC	136	19	39	194	3871.83	
01-2-11021417	Miscellaneous Steel	0.25	TON	2,249	309	639	3,197	12789	
TOTAL Structure @ Wastewater Plant					210,098	28,878	59,744	298,720	
01-2-110215 Structure @ Glass & Second St.									
01-2-11021501	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,539	5539.47	
01-2-11021502	Stripping	300.00	SY	39	5	11	56	0.19	
01-2-11021503	Structural Excavation	1000.00	CY	2,139	294	608	3,041	3.04	
01-2-11021504	Cast-in-place Concrete	174.00	CY	34,478	4,739	9,804	49,022	281.73	
01-2-11021505	Sluice Gate, 10' X 7'	1.00	EA	75,244	10,342	21,397	106,983	106983	
01-2-11021506	Steel Sheet Pile Cofferdam	6603.00	SF	156,220	21,472	44,423	222,115	33.64	
01-2-11021508	Flap Gate, 6' X 6'	2.00	EA	26,608	3,657	7,566	37,832	18916	
01-2-11021510	Sand Bedding Material	100.00	CY	2,336	321	664	3,321	33.21	
01-2-11021511	Backfill w/hand Compaction	200.00	CY	1,733	238	493	2,464	12.32	
01-2-11021512	Backfill w/machine Compaction	800.00	CY	1,119	154	318	1,591	1.99	
01-2-11021513	Topsoil	300.00	SY	577	79	164	820	2.73	
01-2-11021514	Seed & Fertilize	0.06	AC	163	22	46	232	3871.83	
01-2-11021517	Miscellaneous Steel	1.00	TON	8,995	1,236	2,558	12,789	12789	
01-2-11021518	Blanket Stone	139.00	TON	4,930	678	1,402	7,010	50.43	
01-2-11021519	Riprap	325.00	TON	10,989	1,510	3,125	15,624	48.07	
01-2-11021520	Install 12' X 6' Box Culvert	10.00	LF	6,539	899	1,860	9,298	929.78	

		QUANTITY	UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
TOTAL Structure @ Glass & Second St.				336,006	46,184	95,548	477,738	
01-2-110216 Structure @ Water St.								
01-2-11021601	Remove Existing Structure	1.00	EA	3,896	536	1,108	5,539	5539.47
01-2-11021602	Stripping	150.00	SY	20	3	6	28	0.19
01-2-11021603	Structural Excavation	400.00	CY	856	118	243	1,216	3.04
01-2-11021604	Cast-in-place Concrete	92.00	CY	18,230	2,506	5,184	25,919	281.73
01-2-11021605	Sluice Gate, 6' X 6'	1.00	EA	33,328	4,581	9,477	47,386	47386
01-2-11021606	Steel Sheet Pile Cofferdam	6603.00	SF	156,220	21,472	44,423	222,115	33.64
01-2-11021608	Flap Gate, 6' X 6'	1.00	EA	13,352	1,835	3,797	18,985	18985
01-2-11021609	72" Reinforced Concrete Pipe	54.00	LF	7,656	1,052	2,177	10,886	201.59
01-2-11021610	Sand Bedding Material	40.00	CY	934	128	266	1,329	33.21
01-2-11021611	Backfill w/hand Compaction	120.00	CY	1,040	143	296	1,478	12.32
01-2-11021612	Backfill w/machine Compaction	1400.00	CY	1,959	269	557	2,785	1.99
01-2-11021613	Topsoil	150.00	SY	293	40	83	416	2.77
01-2-11021614	Seed & Fertilize	0.03	AC	82	11	23	116	3871.83
01-2-11021618	Blanket Stone	53.00	TON	1,880	258	535	2,673	50.43
01-2-11021619	Riprap	104.00	TON	3,516	483	1,000	5,000	48.07
TOTAL Structure @ Water St.				243,261	33,436	69,174	345,871	
01-2-110217 Closure Str. @ Hwy. 59								
01-2-11021703	Structural Excavation	26.00	CY	149	20	42	211	8.13
01-2-11021704	Cast-in-place Concrete	290.00	CY	57,464	7,898	16,341	81,703	281.73
01-2-11021705	Reinforcing Steel	26331	LBS	10,533	1,448	2,995	14,975	0.57
01-2-11021708	Structural Steel	14720	LBS	17,937	2,465	5,100	25,502	1.73
01-2-11021709	Miscellaneous Hardware	1.00	JOB	562	77	160	799	799.34
01-2-11021710	Miscellaneous J-Seals	1.00	JOB	2,504	344	712	3,561	3560.64
01-2-11021711	Backfill w/hand Compaction	6.50	CY	56	8	16	80	12.32
TOTAL Closure Str. @ Hwy. 59				89,204	12,261	25,366	126,832	
01-2-110218 Closure Str. @ S.P. Railroad								
01-2-11021803	Structural Excavation	26.00	CY	149	20	42	211	8.13
01-2-11021804	Cast-in-place Concrete	214.00	CY	42,404	5,828	12,058	60,291	281.73
01-2-11021805	Reinforcing Steel	22205	LBS	8,912	1,225	2,534	12,671	0.57
01-2-11021806	Sheet Pile	586.00	SF	9,923	1,364	2,822	14,108	24.08
01-2-11021808	Structural Steel	6898.00	LBS	7,687	1,057	2,186	10,930	1.58
01-2-11021809	Miscellaneous Hardware	1.00	JOB	2,474	340	703	3,517	3517.08
01-2-11021811	Backfill w/hand Compaction	4.00	CY	35	5	10	49	12.32
TOTAL Closure Str. @ S.P. Railroad				71,583	9,839	20,356	101,778	
TOTAL Levee Drainage				1,902,813	261,542	541,089	2,705,444	

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
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01-2-1104 Levee Permanent Access Roads						
01-2-110402 Site Work						
01-2-11040201	Aggregate Base Course	460.00 CY	10,773	1,481	3,063	15,317 33.30
01-2-11040202	Bituminous Prime Coat	650.00 GAL	819	113	233	1,164 1.79
01-2-11040203	Bituminous Surface Course	165.00 TON	6,751	928	1,920	9,599 58.18
01-2-11040204	Gravel Surface Course	16.00 TON	910	125	259	1,293 80.23
01-2-11040205	Install Barrier Gate	1.00 EA	328	45	93	467 466.86
01-2-11040206	Remove Roadway	1310.00 SY	873	120	248	1,241 0.95
TOTAL Site Work			20,453	2,811	5,816	29,081
TOTAL Levee Permanent Access Roads			20,453	2,811	5,816	29,081
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01-2-1111 Str. Wall Mob, Demob & Prep Work						
01-2-111101 Mob. & Demob.						
			37,918	5,212	4,313	47,442
TOTAL Mob. & Demob.			37,918	5,212	4,313	47,442
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01-2-111104 Clear, Grub & Debris Removal						
01-2-11110401 Bank & Work Area						
	1.23 ACR	25,535	3,510	7,261	36,306	29517
TOTAL Clear, Grub & Debris Removal			25,535	3,510	7,261	36,306
TOTAL Str. Wall Mob, Demob & Prep Work			63,453	8,722	11,574	83,748
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01-2-1112 Structural Wall @ CP&L Plant						
01-2-111202 Site Work						
01-2-11120201	Granular Fill (Sand)	1937.00 CY	43,664	6,002	12,416	62,082 32.05
01-2-11120202	Granular Fill (Crushed Stone)	3450.00 TON	122,372	16,820	34,798	173,989 50.43
TOTAL Site Work			166,035	22,822	47,214	236,071
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01-2-111205 Metal						
01-2-11120501	Sheet Pile (PSA23)	58.00 TON	91,904	12,632	26,134	130,670 2252.93
01-2-11120502	Sheet Pile (PZ35)	127.50 TON	149,102	20,494	42,399	211,995 1662.71
01-2-11120503	Sheet Pile (PZ40), Box Pile	482.00 TON	732,343	100,661	208,251	1,041,255 2160.28
01-2-11120504	Miscellaneous Steel	482.00 TON	530,865	72,967	150,958	754,790 1565.95
01-2-11120505	Coating Systems	53654 SF	356,177	48,957	101,283	506,417 9.44
01-2-11120506	Marine Crew Adjustments	520.00 HRS	275,823	37,912	78,434	392,169 754.17
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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
TOTAL Metal	667.50 TON	2,136,214	293,623	607,459	3,037,297	4550.26
01-2-111230 Bank Stabilization						
01-2-111230 1 Blanket Stone (1/4" - 4")	950.00 TON	33,697	4,632	7,666	45,994	48.41
01-2-111230 2 Riprap (15# - 265#)	2540.00 TON	85,880	11,804	19,537	117,221	46.15
TOTAL Bank Stabilization		119,576	16,436	27,202	163,215	
TOTAL Structural Wall @ CP&L Plant		2,421,826	332,880	681,876	3,436,582	
01-2-1130 Levee Construction						
01-2-113002 Site Work						
01-2-113002 1 Levee (Sidecast)	49800 CY	145,323	19,975	41,324	206,622	4.15
01-2-113002 2 Levee (1 mile haul)	11400 CY	48,395	6,652	13,762	68,809	6.04
01-2-113002 3 Levee (1.5 mile haul)	14000 CY	66,220	9,102	18,831	94,153	6.73
01-2-113002 4 Slope Grading (110+69 to 113+69)	1222.00 CY	1,719	236	489	2,444	2.00
01-2-113002 5 Blanket Stone (110+69 to 113+69)	1678.00 TON	59,519	8,181	13,540	81,239	48.41
01-2-113002 6 Riprap (Sta 110+69 to 113+69)	4663.00 TON	157,661	21,670	35,866	215,197	46.15
TOTAL Site Work		478,837	65,816	123,812	668,465	
TOTAL Levee Construction		478,837	65,816	123,812	668,465	
01-2-1199 Levee Associated General Items						
01-2-119902 Site Work (Turfing)						
01-2-119902 1 Levee Topsoil	70600 SY	136,353	18,742	38,774	193,868	2.75
01-2-119902 2 Seed, Mulch & Fertilize	28.10 ACR	76,521	10,518	21,760	108,799	3871.83
TOTAL Site Work (Turfing)	28.10 ACR	212,874	29,260	60,533	302,666	10771
TOTAL Levee Associated General Items		212,874	29,260	60,533	302,666	
TOTAL Levees & Floodwalls		5,215,100	716,817	1,456,611	7,388,528	
01-2-30 Engineering & Design						
01-2-3001 Plans and Specifications (P&S)		298,255	4,456	46,457	349,168	
01-2-3004 Environmental Studies Documents		3,700	55	259	4,014	
01-2-3005 HTRW Studies/Report		500	7	35	542	
01-2-3006 Cultural Resource Studies Documts		2,500	37	175	2,712	
01-2-3007 Cost Estimates		7,049	105	1,410	8,564	
01-2-3008 Other Studies/Investigations		55,488	829	5,441	61,758	

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST	UNIT
01-2-3009	Contract Award Documents	3,745	56	1,049	4,850	
01-2-3010	Engineering & Design During	22,025	329	3,155	25,509	
01-2-3015	Local Sponsor Project Coordinat'n	3,313	49	662	4,024	
01-2-3021	VE Screening/Studies	48,548	725	9,319	58,592	
01-2-3022	VE Related Redesign	35,864	536	4,282	40,682	
	TOTAL Engineering & Design	480,987	7,186	72,244	560,417	
01-2-31	Construction Management					
01-2-3102	Area Office S&A Documents	201,200	27,655	20,120	248,975	
01-2-3103	District Office S&A Documents	41,800	5,745	4,180	51,725	
	TOTAL Construction Management	243,000	33,400	24,300	300,700	
	TOTAL Federal	6,026,587	765,421	1,566,280	8,358,288	
	TOTAL Construction Contract	6,872,028	814,945	1,747,556	9,434,529	
	TOTAL Guadalupe River Levee/Wall NED	6,872,028	814,945	1,747,556	9,434,529	

	QUANTY	UDM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
-----											
01 Construction Contract											
01-1 Non-Federal											
01-1-01 Lands and Damages	488,720		0	0	0	0	0	0	0	488,720	
01-1-02 Relocations	285,413		24,260	15,484	29,264	2,300				356,721	
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TOTAL Non-Federal	774,133		24,260	15,484	29,264	2,300				845,441	
01-2 Federal											
01-2-01 Lands and Damages	87,500		0	0	0	0	0	0	0	87,500	
01-2-11 Levees & Floodwalls	4,172,607		354,672	226,364	427,828	33,629				5,215,100	
01-2-30 Engineering & Design	480,987		0	0	0	0	0	0	0	480,987	
01-2-31 Construction Management	243,000		0	0	0	0	0	0	0	243,000	
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TOTAL Federal	4,984,094		354,672	226,364	427,828	33,629				6,026,587	
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TOTAL Construction Contract	5,758,227		378,932	241,848	457,092	35,929				6,872,028	
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TOTAL Guadalupe River Levee/Wall NED	5,758,227		378,932	241,848	457,092	35,929				6,872,028	
Contingency										814,945	
SUBTOTAL										7,686,973	
Escalation										1,747,556	
TOTAL INCL OWNER COSTS										9,434,529	

	QUANTY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
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01 Construction Contract											
01-1 Non-Federal											
01-1-01 Lands and Damages											
01-1-0123 Constructn Contract(s) Documents											
01-1-012302 Acquisitions	140,000		0	0	0	0	0	0	0	140,000	
01-1-012303 Condemnations	17,500		0	0	0	0	0	0	0	17,500	
01-1-012305 Appraisals	87,500		0	0	0	0	0	0	0	87,500	
01-1-012307 Temporary Permits/Licenses/ROW	35,000		0	0	0	0	0	0	0	35,000	
01-1-012312 Project Related Administration	52,500		0	0	0	0	0	0	0	52,500	
01-1-012315 Real Estate Payment Documents											
01-1-01231501 Land Payments	116,220		0	0	0	0	0	0	0	116,220	
01-1-01231502 PL 91-646 Assistance Payments	7,500		0	0	0	0	0	0	0	7,500	
01-1-01231503 Damage Payments	15,000		0	0	0	0	0	0	0	15,000	
TOTAL Real Estate Payment Documents	138,720		0	0	0	0	0	0	0	138,720	
01-1-012317 LERRD Crediting	17,500		0	0	0	0	0	0	0	17,500	
TOTAL Constructn Contract(s) Documents	488,720		0	0	0	0	0	0	0	488,720	
TOTAL Lands and Damages	488,720		0	0	0	0	0	0	0	488,720	
01-1-02 Relocations											
01-1-0201 Mob, Demob & Preparatory Work											
01-1-020101 Mob & Demob	1,400		119	76	144	11				1,750	
TOTAL Mob, Demob & Preparatory Work	1,400		119	76	144	11				1,750	
01-1-0218 Utilities											
01-1-021801 CP&L Utilities											
01-1-02180101 Wall Penetrations	250,000		21,250	13,563	25,633	2,015				312,461	
TOTAL CP&L Utilities	250,000		21,250	13,563	25,633	2,015				312,461	
01-1-021802 Sanitary Sewer											

		QUANTY UOM	DIRECT	FIELD	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-1-02180201	Raise Sanitary Sewer Manhole	1.00 EA	773	66	42	79	6	967	966.56	
TOTAL Sanitary Sewer			773	66	42	79	6	967		
01-1-021815 Telecommunications										
01-1-02181501	Relocate Telephone Manhole	1.00 EA	1,116	95	61	114	9	1,395	1394.56	
01-1-02181502	Relocate Telephone Junction Box	3.00 EA	3,347	285	182	343	27	4,184	1394.56	
01-1-02181503	Raise Telephone Lines	200.00 LF	192	16	10	20	2	240	1.20	
01-1-02181504	Raise CATV Lines	280.00 LF	902	77	49	92	7	1,127	4.03	
TOTAL Telecommunications			5,557	472	301	570	45	6,946		
01-1-021816 Electrical										
01-1-02181601	Relocate CP&L Power Poles	11.00 EA	21,357	1,815	1,159	2,190	172	26,693	2426.60	
01-1-02181602	Relocate CP&L Power Lines	380.00 LF	365	31	20	37	3	457	1.20	
TOTAL Electrical			21,722	1,846	1,178	2,227	175	27,149		
TOTAL Utilities			278,053	23,634	15,084	28,509	2,241	347,522		
01-1-0230 Engineering & Design										
01-1-023023	Constructn Contracts(s) Documnts		3,400	289	184	349	27	4,249		
TOTAL Engineering & Design			3,400	289	184	349	27	4,249		
01-1-0231 Construction Management										
01-1-023123	Construction Contracts		2,560	218	139	262	21	3,200		
TOTAL Construction Management			2,560	218	139	262	21	3,200		
TOTAL Relocations			285,413	24,260	15,484	29,264	2,300	356,721		
TOTAL Non-Federal			774,133	24,260	15,484	29,264	2,300	845,441		
01-2 Federal										
01-2-01 Lands and Damages										
01-2-0123 Constructn Contract(s) Documnts										
01-2-012302	Acquisitions		35,000	0	0	0	0	35,000		
01-2-012303	Condemnations		4,375	0	0	0	0	4,375		



		QUANTY UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-012305	Appraisals		21,875	0	0	0	0	0	0	21,875	
01-2-012307	Temporary Permits/Licenses/ROW		8,750	0	0	0	0	0	0	8,750	
01-2-012312	Project Related Administration		13,125	0	0	0	0	0	0	13,125	
01-2-012317	LERRD Crediting		4,375	0	0	0	0	0	0	4,375	
TOTAL Constructn Contract(s) Documnts			87,500	0	0	0	0	0	0	87,500	
TOTAL Lands and Damages			87,500	0	0	0	0	0	0	87,500	
01-2-11 Levees & Floodwalls											
01-2-1101 Levee Mob, Demob & Prep Work											
01-2-110101	Mob. & Demob.		3,500	298	190	359	28			4,374	
TOTAL Mob. & Demob.			3,500	298	190	359	28			4,374	
01-2-110102 Demolition											
01-2-11010201	Remove Concrete Chute	150.00 SY	407	35	22	42	3			509	3.39
01-2-11010202	Remove Chain Link Fence	300.00 LF	143	12	8	15	1			178	0.59
01-2-11010203	Remove Barbed Wire Fence	2830.00 LF	1,345	114	73	138	11			1,681	0.59
TOTAL Demolition			1,895	161	103	194	15			2,368	
01-2-110103 Replacement											
01-2-11010301	Replace Concrete Chute	150.00 SY	1,626	138	88	167	13			2,032	13.55
01-2-11010302	Replace Chain Link Fence	300.00 LF	3,875	329	210	397	31			4,843	16.14
01-2-11010303	Replace Barbed Wire Fence	2830.00 LF	5,965	507	324	612	48			7,455	2.63
TOTAL Replacement			11,465	975	622	1,176	92			14,330	
01-2-110104 Clear, Grub & Debris Removal											
01-2-11010401	Borrow Area	13.50 ACR	19,753	1,679	1,072	2,025	159			24,688	1828.75
01-2-11010402	Levee Area	14.10 ACR	20,631	1,754	1,119	2,115	166			25,785	1828.75
TOTAL Clear, Grub & Debris Removal			40,384	3,433	2,191	4,141	325			50,474	
01-2-110105 Stripping											
01-2-11010501	Borrow Area	65340 SY	16,951	1,441	920	1,738	137			21,186	0.32
01-2-11010502	Levee Area	68200 SY	17,693	1,504	960	1,814	143			22,114	0.32

	QUANTY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
TOTAL Stripping			34,644	2,945	1,879	3,552	279			43,299	
TOTAL Levee Mob, Demob & Prep Work			91,887	7,810	4,985	9,421	741			114,845	
01-2-1102 Levee Drainage											
01-2-110207 Culvert @ Ben Jordan											
01-2-11020701	Structural Excavation	160.00	CY	274	23	15	28	2		342	2.14
01-2-11020702	Install 42" RCP, Class II	160.00	LF	8,264	702	448	847	67		10,329	64.55
01-2-11020703	Precast Concrete Headwall	4.00	EA	1,981	168	107	203	16		2,476	618.98
01-2-11020705	Backfill w/hand Compaction	28.00	CY	194	16	11	20	2		243	8.66
01-2-11020706	Backfill w/machine Compaction	24.00	CY	27	2	1	3	0		34	1.40
01-2-11020707	Haul Excess Excavation	78.00	CY	190	16	10	19	2		237	3.04
01-2-11020708	Remove Roadway	16.00	SY	10	1	1	1	0		12	0.75
TOTAL Culvert @ Ben Jordan			10,939	930	593	1,122	88			13,672	
01-2-110208 Culvert @ Bottom St.											
01-2-11020801	Structural Excavation	163.00	CY	277	24	15	28	2		346	2.14
01-2-11020802	Install 36" RCP, Class II	300.00	LF	12,442	1,058	675	1,276	100		15,551	51.84
01-2-11020803	Precast Concrete Headwall	2.00	EA	606	51	33	62	5		757	378.54
01-2-11020805	Backfill w/hand Compaction	57.00	CY	395	34	21	41	3		494	8.66
01-2-11020806	Backfill w/machine Compaction	49.00	CY	55	5	3	6	0		69	1.40
01-2-11020807	Haul Excess Excavation	57.00	CY	139	12	8	14	1		173	3.04
TOTAL Culvert @ Bottom St.			13,913	1,183	755	1,427	112			17,390	
01-2-110209 Culvert @ Church St.											
01-2-11020901	Structural Excavation	76.00	CY	133	11	7	14	1		166	2.19
01-2-11020902	Install 48" RCP, Class II	50.00	LF	3,063	260	166	314	25		3,828	76.56
01-2-11020903	Precast Concrete Headwall	2.00	EA	990	84	54	102	8		1,238	618.98
01-2-11020905	Backfill w/hand Compaction	29.00	CY	201	17	11	21	2		251	8.66
01-2-11020906	Backfill w/machine Compaction	24.00	CY	27	2	1	3	0		34	1.40
01-2-11020907	Haul Excess Excavation	23.00	CY	56	5	3	6	0		70	3.04
01-2-11020908	Remove Roadway	13.00	SY	6	1	0	1	0		8	0.62
TOTAL Culvert @ Church St.			4,477	381	243	459	36			5,595	
01-2-110210 Culvert @ Victoria St.											
01-2-11021001	Structural Excavation	4.00	CY	18	2	1	2	0		23	5.77
01-2-11021002	Install 12" RCP, Class II	22.00	LF	198	17	11	20	2		248	11.27
01-2-11021003	Precast Concrete Headwall	2.00	EA	344	29	19	35	3		430	214.91
01-2-11021005	Backfill w/hand Compaction	2.00	CY	14	1	1	1	0		17	8.66

	QUANTITY	UOM	DIRECT	FIELD	OF	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-11021006	Backfill w/machine	2.00	CY	2	0	0	0	0	0	3	1.40
01-2-11021009	Ditch Excavation	152.00	CY	369	31	20	38	3	462	3.04	
TOTAL Culvert @ Victoria St.				946	80	51	97	8	1,183		
01-2-110211 Culvert @ Borrow Area 3											
01-2-11021101	Structural Excavation	815.00	CY	1,399	119	76	143	11	1,749	2.15	
01-2-11021102	Install 24" RCP, Class II	22.00	LF	436	37	24	45	4	545	24.76	
01-2-11021103	Precast Concrete Headwall	2.00	EA	418	36	23	43	3	523	261.45	
01-2-11021104	Concrete Manhole	1.00	EA	252	21	14	26	2	315	314.54	
01-2-11021105	Backfill w/hand Compaction	450.00	CY	3,120	265	169	320	25	3,899	8.66	
01-2-11021106	Backfill w/machine Compaction	170.00	CY	190	16	10	20	2	238	1.40	
01-2-11021107	Haul Excess Excavation	195.00	CY	474	40	26	49	4	592	3.04	
TOTAL Culvert @ Borrow Area 3				6,289	535	341	645	51	7,860		
01-2-110212 Structure @ South Outfall											
01-2-11021201	Remove Existing Structure	1.00	EA	3,117	265	169	320	25	3,896	3896.06	
01-2-11021202	Stripping	16030	SY	1,674	142	91	172	13	2,092	0.13	
01-2-11021203	Structural Excavation	3664.00	CY	6,267	533	340	643	51	7,833	2.14	
01-2-11021204	Cast-in-place Concrete	106.00	CY	16,805	1,428	912	1,723	135	21,004	198.15	
01-2-11021205	Sluice Gate, 4' X 4'	6.00	EA	81,506	6,928	4,422	8,357	657	101,870	16978	
01-2-11021206	Concrete Gatewell	75.00	CY	21,139	1,797	1,147	2,167	170	26,420	352.27	
01-2-11021207	Reinforced Concrete Drainage Str	700.00	CY	197,298	16,770	10,703	20,229	1,590	246,591	352.27	
01-2-11021208	Flap Gate, 4' X 4'	6.00	EA	28,120	2,390	1,526	2,883	227	35,146	5857.60	
01-2-11021209	48" Reinforced Concrete Pipe	1374.00	LF	84,168	7,154	4,566	8,630	678	105,197	76.56	
01-2-11021210	Sand Bedding Material	470.00	CY	8,785	747	477	901	71	10,980	23.36	
01-2-11021211	Backfill w/hand Compaction	1610.00	CY	11,161	949	605	1,144	90	13,949	8.66	
01-2-11021212	Backfill w/machine Compaction	1414.00	CY	1,583	135	86	162	13	1,978	1.40	
01-2-11021213	Topsoil	16030	SY	24,771	2,105	1,344	2,540	200	30,959	1.93	
01-2-11021214	Seed & Fertilize	3.30	AC	7,190	611	390	737	58	8,986	2723.17	
01-2-11021215	Haul Excess Excavation	832.00	CY	2,022	172	110	207	16	2,527	3.04	
01-2-11021216	Regrade Dirt Road	1400.00	SY	402	34	22	41	3	503	0.36	
TOTAL Structure @ South Outfall				496,009	42,161	26,908	50,857	3,998	619,933		
01-2-110213 Structure @ Elder St.											
01-2-11021301	Remove Existing Structure	1.00	EA	3,117	265	169	320	25	3,896	3896.06	
01-2-11021302	Stripping	2000.00	SY	209	18	11	21	2	261	0.13	
01-2-11021303	Structural Excavation	9300.00	CY	15,915	1,353	863	1,632	128	19,892	2.14	
01-2-11021304	Cast-in-place Concrete	64.00	CY	10,147	862	550	1,040	82	12,682	198.15	
01-2-11021305	Sluice Gate, 5' X 5'	1.00	EA	21,668	1,842	1,176	2,222	175	27,082	27082	
01-2-11021306	Steel Sheet Pile Cofferdam	6603.00	SF	124,991	10,624	6,781	12,816	1,007	156,220	23.66	
01-2-11021307	Reinforced Concrete Headwall	3.00	CY	846	72	46	87	7	1,057	352.27	
01-2-11021308	Flap Gate, 5' X 5'	1.00	EA	9,058	770	491	929	73	11,321	11321	

		QUANTY UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-11021309	60" Reinforced Concrete Pipe	151.00 LF	13,452	1,143	730	1,379	108	16,813	111.34		
01-2-11021310	Sand Bedding Material	55.00 CY	1,028	87	56	105	8	1,285	23.36		
01-2-11021311	Backfill w/hand Compaction	2145.00 CY	14,870	1,264	807	1,525	120	18,585	8.66		
01-2-11021312	Backfill w/machine Compaction	7100.00 CY	7,947	675	431	815	64	9,933	1.40		
01-2-11021313	Topsoil	2000.00 SY	3,089	263	168	317	25	3,861	1.93		
01-2-11021314	Seed & Fertilize	0.40 AC	872	74	47	89	7	1,089	2723.17		
01-2-11021318	Blanket Stone	27.00 TON	766	65	42	79	6	958	35.47		
01-2-11021319	Riprap	62.00 TON	1,677	143	91	172	14	2,096	33.81		
TOTAL Structure @ Elder St.			229,652	19,520	12,459	23,547	1,851	287,029			
01-2-110214 Structure @ Wastewater Plant											
01-2-11021401	Remove Existing Structure	1.00 EA	3,117	265	169	320	25	3,896	3896.06		
01-2-11021402	Stripping	250.00 SY	26	2	1	3	0	33	0.13		
01-2-11021403	Structural Excavation	3000.00 CY	5,134	436	279	526	41	6,417	2.14		
01-2-11021404	Cast-in-place Concrete	49.00 CY	7,768	660	421	797	63	9,709	198.15		
01-2-11021405	Sluice Gate, 4' X 4'	1.00 EA	13,584	1,155	737	1,393	109	16,978	16978		
01-2-11021406	Steel Sheet Pile Cofferdam	6603.00 SF	124,991	10,624	6,781	12,816	1,007	156,220	23.66		
01-2-11021408	Flap Gate, 4' X 4'	1.00 EA	4,687	398	254	481	38	5,858	5857.60		
01-2-11021409	48" Reinforced Concrete Pipe	38.00 LF	2,328	198	126	239	19	2,909	76.56		
01-2-11021410	Sand Bedding Material	13.00 CY	243	21	13	25	2	304	23.36		
01-2-11021411	Backfill w/hand Compaction	100.00 CY	693	59	38	71	6	866	8.66		
01-2-11021412	Backfill w/machine Compaction	2887.00 CY	3,231	275	175	331	26	4,039	1.40		
01-2-11021413	Topsoil	250.00 SY	388	33	21	40	3	485	1.94		
01-2-11021414	Seed & Fertilize	0.05 AC	109	9	6	11	1	136	2723.17		
01-2-11021417	Miscellaneous Steel	0.25 TON	1,799	153	98	184	15	2,249	8995.11		
TOTAL Structure @ Wastewater Plant			168,100	14,288	9,119	17,236	1,355	210,098			
01-2-110215 Structure @ Glass & Second St.											
01-2-11021501	Remove Existing Structure	1.00 EA	3,117	265	169	320	25	3,896	3896.06		
01-2-11021502	Stripping	300.00 SY	31	3	2	3	0	39	0.13		
01-2-11021503	Structural Excavation	1000.00 CY	1,711	145	93	175	14	2,139	2.14		
01-2-11021504	Cast-in-place Concrete	174.00 CY	27,586	2,345	1,497	2,828	222	34,478	198.15		
01-2-11021505	Sluice Gate, 10' X 7'	1.00 EA	60,203	5,117	3,266	6,173	485	75,244	75244		
01-2-11021506	Steel Sheet Pile Cofferdam	6603.00 SF	124,991	10,624	6,781	12,816	1,007	156,220	23.66		
01-2-11021508	Flap Gate, 6' X 6'	2.00 EA	21,289	1,810	1,155	2,183	172	26,608	13304		
01-2-11021510	Sand Bedding Material	100.00 CY	1,869	159	101	192	15	2,336	23.36		
01-2-11021511	Backfill w/hand Compaction	200.00 CY	1,386	118	75	142	11	1,733	8.66		
01-2-11021512	Backfill w/machine Compaction	800.00 CY	895	76	49	92	7	1,119	1.40		
01-2-11021513	Topsoil	300.00 SY	461	39	25	47	4	577	1.92		
01-2-11021514	Seed & Fertilize	0.06 AC	131	11	7	13	1	163	2723.17		
01-2-11021517	Miscellaneous Steel	1.00 TON	7,197	612	390	738	58	8,995	8995.11		
01-2-11021518	Blanket Stone	139.00 TON	3,945	335	214	404	32	4,930	35.47		
01-2-11021519	Riprap	325.00 TON	8,792	747	477	901	71	10,989	33.81		
01-2-11021520	Install 12' X 6' Box Culvert	10.00 LF	5,232	445	284	536	42	6,539	653.94		

		QUANTITY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
TOTAL Structure @ Glass & Second St.				268,839	22,851	14,585	27,565	2,167		336,006		
01-2-110216 Structure @ Water St.												
01-2-11021601	Remove Existing Structure	1.00	EA	3,117	265	169	320	25		3,896	3896.06	
01-2-11021602	Stripping	150.00	SY	16	1	1	2	0		20	0.13	
01-2-11021603	Structural Excavation	400.00	CY	685	58	37	70	6		856	2.14	
01-2-11021604	Cast-in-place Concrete	92.00	CY	14,586	1,240	791	1,496	118		18,230	198.15	
01-2-11021605	Sluice Gate, 6' X 6'	1.00	EA	26,666	2,267	1,447	2,734	215		33,328	33328	
01-2-11021606	Steel Sheet Pile Cofferdam	6603.00	SF	124,991	10,624	6,781	12,816	1,007		156,220	23.66	
01-2-11021608	Flap Gate, 6' X 6'	1.00	EA	10,683	908	580	1,095	86		13,352	13352	
01-2-11021609	72" Reinforced Concrete Pipe	54.00	LF	6,126	521	332	628	49		7,656	141.78	
01-2-11021610	Sand Bedding Material	40.00	CY	748	64	41	77	6		934	23.36	
01-2-11021611	Backfill w/hand Compaction	120.00	CY	832	71	45	85	7		1,040	8.66	
01-2-11021612	Backfill w/machine Compaction	1400.00	CY	1,567	133	85	161	13		1,959	1.40	
01-2-11021613	Topsoil	150.00	SY	234	20	13	24	2		293	1.95	
01-2-11021614	Seed & Fertilize	0.03	AC	65	6	4	7	1		82	2723.17	
01-2-11021618	Blanket Stone	53.00	TON	1,504	128	82	154	12		1,880	35.47	
01-2-11021619	Riprap	104.00	TON	2,813	239	153	288	23		3,516	33.81	
TOTAL Structure @ Water St.				194,633	16,544	10,559	19,956	1,569		243,261		
01-2-110217 Closure Str. @ Hwy. 59												
01-2-11021703	Structural Excavation	26.00	CY	119	10	6	12	1		149	5.72	
01-2-11021704	Cast-in-place Concrete	290.00	CY	45,977	3,908	2,494	4,714	371		57,464	198.15	
01-2-11021705	Reinforcing Steel	26331	LBS	8,427	716	457	864	68		10,533	0.40	
01-2-11021708	Structural Steel	14720	LBS	14,351	1,220	779	1,471	116		17,937	1.22	
01-2-11021709	Miscellaneous Hardware	1.00	JOB	450	38	24	46	4		562	562.19	
01-2-11021710	Miscellaneous J-Seals	1.00	JOB	2,004	170	109	205	16		2,504	2504.29	
01-2-11021711	Backfill w/hand Compaction	6.50	CY	45	4	2	5	0		56	8.66	
TOTAL Closure Str. @ Hwy. 59				71,372	6,067	3,872	7,318	575		89,204		
01-2-110218 Closure Str. @ S.P. Railroad												
01-2-11021803	Structural Excavation	26.00	CY	119	10	6	12	1		149	5.72	
01-2-11021804	Cast-in-place Concrete	214.00	CY	33,928	2,884	1,841	3,479	273		42,404	198.15	
01-2-11021805	Reinforcing Steel	22205	LBS	7,131	606	387	731	57		8,912	0.40	
01-2-11021806	Sheet Pile	586.00	SF	7,939	675	431	814	64		9,923	16.93	
01-2-11021808	Structural Steel	6898.00	LBS	6,150	523	334	631	50		7,687	1.11	
01-2-11021809	Miscellaneous Hardware	1.00	JOB	1,979	168	107	203	16		2,474	2473.66	
01-2-11021811	Backfill w/hand Compaction	4.00	CY	28	2	2	3	0		35	8.66	
TOTAL Closure Str. @ S.P. Railroad				57,274	4,868	3,107	5,872	462		71,583		
TOTAL Levee Drainage				1,522,443	129,408	82,593	156,100	12,270		1,902,813		

\*\* PROJECT INDIRECT SUMMARY - LEVEL\_6 \*\*

		QUANTY	UOM	DIRECT	FIELD	OFF	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
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01-2-1104 Levee Permanent Access Roads												
01-2-110402 Site Work												
01-2-11040201	Aggregate Base Course	460.00	CY	8,619	733	468	884	69	10,773	23.42		
01-2-11040202	Bituminous Prime Coat	650.00	GAL	655	56	36	67	5	819	1.26		
01-2-11040203	Bituminous Surface Course	165.00	TON	5,402	459	293	554	44	6,751	40.92		
01-2-11040204	Gravel Surface Course	16.00	TON	728	62	39	75	6	910	56.85		
01-2-11040205	Install Barrier Gate	1.00	EA	263	22	14	27	2	328	328.35		
01-2-11040206	Remove Roadway	1310.00	SY	698	59	38	72	6	873	0.67		
TOTAL Site Work				16,365	1,391	888	1,678	132	20,453			
TOTAL Levee Permanent Access Roads				16,365	1,391	888	1,678	132	20,453			
-----												
01-2-1111 Str. Wall Mob, Demob & Prep Work												
01-2-111101 Mob. & Demob.												
				30,338	2,579	1,646	3,111	245	37,918			
TOTAL Mob. & Demob.				30,338	2,579	1,646	3,111	245	37,918			
-----												
01-2-111104 Clear, Grub & Debris Removal												
01-2-11110401 Bank & Work Area												
		1.23	ACR	20,431	1,737	1,108	2,095	165	25,535	20760		
TOTAL Clear, Grub & Debris Removal				20,431	1,737	1,108	2,095	165	25,535			
TOTAL Str. Wall Mob, Demob & Prep Work				50,769	4,315	2,754	5,205	409	63,453			
-----												
01-2-1112 Structural Wall @ CP&L Plant												
01-2-111202 Site Work												
01-2-11120201	Granular Fill (Sand)	1937.00	CY	34,935	2,970	1,895	3,582	282	43,664	22.54		
01-2-11120202	Granular Fill (Crushed Stone)	3450.00	TON	97,910	8,322	5,312	10,039	789	122,372	35.47		
TOTAL Site Work				132,845	11,292	7,207	13,621	1,071	166,035			
-----												
01-2-111205 Metal												
01-2-11120501	Sheet Pile (PSA23)	58.00	TON	73,532	6,250	3,989	7,539	593	91,904	1584.55		
01-2-11120502	Sheet Pile (P235)	127.50	TON	119,297	10,140	6,472	12,232	961	149,102	1169.43		
01-2-11120503	Sheet Pile (P240), Box Pile	482.00	TON	585,949	49,806	31,788	60,079	4,722	732,343	1519.38		
01-2-11120504	Miscellaneous Steel	482.00	TON	424,745	36,103	23,042	43,550	3,423	530,865	1101.38		
01-2-11120505	Coating Systems	53654	SF	284,978	24,223	15,460	29,219	2,297	356,177	6.64		
01-2-11120506	Marine Crew Adjustments	520.00	MRS	220,686	18,758	11,972	22,628	1,779	275,823	530.43		
-----												

	QUANTITY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
TOTAL Metal	667.50	TON	1,709,187	145,281	92,723	175,247	13,775	2,136,214	3200.32		
01-2-111230 Bank Stabilization											
01-2-111230 1	Blanket Stone (1/4" - 4")	950.00	TON	26,961	2,292	1,463	2,764	217	33,697	35.47	
01-2-111230 2	Riprap (15# - 265#)	2540.00	TON	68,713	5,841	3,728	7,045	554	85,880	33.81	
TOTAL Bank Stabilization			95,673	8,132	5,190	9,810	771	119,576			
TOTAL Structural Wall @ CP&L Plant			1,937,706	164,705	105,121	198,678	15,617	2,421,826			
01-2-1130 Levee Construction											
01-2-113002 Site Work											
01-2-113002 1	Levee (Sidecast)	49800	CY	116,273	9,823	6,308	11,922	937	145,323	2.92	
01-2-113002 2	Levee (1 mile haul)	11400	CY	38,721	3,291	2,101	3,970	312	48,395	4.25	
01-2-113002 3	Levee (1.5 mile haul)	14000	CY	52,983	4,504	2,874	5,432	427	66,220	4.73	
01-2-113002 4	Slope Grading (110+69 to 113+69)	1222.00	CY	1,375	117	75	141	11	1,719	1.41	
01-2-113002 5	Blanket Stone (110+69 to 113+69)	1678.00	TON	47,621	4,048	2,583	4,883	384	59,519	35.47	
01-2-113002 6	Riprap (Sta 110+69 to 113+69)	4663.00	TON	126,144	10,722	6,843	12,934	1,017	157,661	33.81	
TOTAL Site Work			383,118	32,565	20,784	39,282	3,088	478,837			
TOTAL Levee Construction			383,118	32,565	20,784	39,282	3,088	478,837			
01-2-1199 Levee Associated General Items											
01-2-119902 Site Work (Turfing)											
01-2-119902 1	Levee Topsoil	70600	SY	109,096	9,273	5,918	11,186	879	136,353	1.93	
01-2-119902 2	Seed, Mulch & Fertilize	28.10	ACR	61,225	5,204	3,321	6,278	493	76,521	2723.17	
TOTAL Site Work (Turfing)		28.10	ACR	170,320	14,477	9,240	17,463	1,373	212,874	7575.58	
TOTAL Levee Associated General Items			170,320	14,477	9,240	17,463	1,373	212,874			
TOTAL Levees & Floodwalls			4,172,607	354,672	226,364	427,828	33,629	5,215,100			
01-2-30 Engineering & Design											
01-2-3001	Plans and Specifications (P&S)	298,255		0	0	0	0	0	298,255		
01-2-3004	Environmental Studies Documents	3,700		0	0	0	0	0	3,700		
01-2-3005	HTRW Studies/Report	500		0	0	0	0	0	500		
01-2-3006	Cultural Resource Studies Documents	2,500		0	0	0	0	0	2,500		
01-2-3007	Cost Estimates	7,049		0	0	0	0	0	7,049		
01-2-3008	Other Studies/Investigations	55,488		0	0	0	0	0	55,488		

Wed 06 Sep 1995  
 Eff. Date 10/01/95

U.S. Army Corps of Engineers  
 PROJECT VIC250: Guadalupe River Levee/Wall NED - 250 Year Storm  
 Guadalupe River at Victoria, Texas  
 \*\* PROJECT INDIRECT SUMMARY - LEVEL\_6 \*\*

TIME 10:16:12  
 SUMMARY PAGE 22

	QUANTY	UOM	DIRECT	FIELD	O	HOME	OF	PROFIT	BOND	TOTAL COST	UNIT
01-2-3009			3,745		0	0		0	0	3,745	
01-2-3010			22,025		0	0		0	0	22,025	
01-2-3015			3,313		0	0		0	0	3,313	
01-2-3021			48,548		0	0		0	0	48,548	
01-2-3022			35,864		0	0		0	0	35,864	
TOTAL Engineering & Design			480,987		0	0		0	0	480,987	
01-2-31 Construction Management											
01-2-3102			201,200		0	0		0	0	201,200	
01-2-3103			41,800		0	0		0	0	41,800	
TOTAL Construction Management			243,000		0	0		0	0	243,000	
TOTAL Federal			4,984,094	354,672	226,364	427,828	33,629	6,026,587			
TOTAL Construction Contract			5,758,227	378,932	241,848	457,092	35,929	6,872,028			
TOTAL Guadalupe River Levee/Wall NED			5,758,227	378,932	241,848	457,092	35,929	6,872,028			
Contingency										814,945	
SUBTOTAL										7,686,973	
Escalation										1,747,556	
TOTAL INCL OWNER COSTS										9,434,529	



Wed 06 Sep 1995  
Eff. Date 10/01/95  
ERROR REPORT

U.S. Army Corps of Engineers  
PROJECT VIC250: Guadalupe River Levee/Wall NED - 250 Year Storm  
Guadalupe River at Victoria, Texas

TIME 10:16:12  
ERROR PAGE 1

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No errors detected...

\* \* \* END OF ERROR REPORT \* \* \*

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project.

APPENDIX H

OPERATION AND MAINTENANCE

GUADALUPE RIVER AT VICTORIA, TEXAS  
10-YEAR PLAN

1/92

Interest Rate = 8.500%  
Base Year = 1996

OPERATION AND MAINTENANCE COSTS

Annual Costs

	Amount	Contingency	Subtotal
Mowing (2 times)	\$1,200	\$300	\$1,500
Grease and test gate	\$400	\$100	\$500
Levee repairs	\$1,600	\$480	\$2,080
Ramp repairs-base	\$293	\$88	\$381
Ramp repairs-asphalt	\$35	\$11	\$46
-----			
Subtotal	\$3,528	\$979	\$4,507

2-Year Costs

Remove silt & debris	\$8,215	\$2,054	\$10,269
-----			
Subtotal	\$8,215	\$2,054	\$10,269

5-Year Costs

Seed, mulch & fert	\$297	\$74	\$371
-----			
Subtotal	\$297	\$74	\$371

EQUIVALENT O&M ANNUAL VALUE \$9,495

OPERATION AND MAINTENANCE COSTS (CONTINUED)  
 GUADALUPE RIVER AT VICTORIA, TEXAS  
 10-YEAR PLAN

1/92

Year	Annual Costs	2-Year Costs	5-Year Costs	Total Value	Base Year Value
1996				0	0
1997	4,507			4,507	4,154
1998	4,507	10,269		14,776	12,552
1999	4,507			4,507	3,529
2000	4,507	10,269		14,776	10,662
2001	4,507		371	4,878	3,244
2002	4,507	10,269		14,776	9,057
2003	4,507			4,507	2,546
2004	4,507	10,269		14,776	7,693
2005	4,507			4,507	2,163
2006	4,507	10,269	371	15,147	6,699
2007	4,507			4,507	1,837
2008	4,507	10,269		14,776	5,551
2009	4,507			4,507	1,561
2010	4,507	10,269		14,776	4,716
2011	4,507		371	4,878	1,435
2012	4,507	10,269		14,776	4,006
2013	4,507			4,507	1,126
2014	4,507	10,269		14,776	3,403
2015	4,507			4,507	957
2016	4,507	10,269	371	15,147	2,963
2017	4,507			4,507	813
2018	4,507	10,269		14,776	2,455
2019	4,507			4,507	690
2020	4,507	10,269		14,776	2,086
2021	4,507		371	4,878	635
2022	4,507	10,269		14,776	1,772
2023	4,507			4,507	498
2024	4,507	10,269		14,776	1,505
2025	4,507			4,507	423
2026	4,507	10,269	371	15,147	1,310
2027	4,507			4,507	359
2028	4,507	10,269		14,776	1,086
2029	4,507			4,507	305
2030	4,507	10,269		14,776	922
2031	4,507		371	4,878	281
2032	4,507	10,269		14,776	784
2033	4,507			4,507	220
2034	4,507	10,269		14,776	666
2035	4,507			4,507	187
2036	4,507	10,269	371	15,147	580
2037	4,507			4,507	159
2038	4,507	10,269		14,776	480
2039	4,507			4,507	135
2040	4,507	10,269		14,776	408
2041	4,507		371	4,878	124
2042	4,507	10,269		14,776	347
2043	4,507			4,507	97
2044	4,507	10,269		14,776	294
2045	4,507			4,507	83
2046	4,507	10,269	371	15,147	256
Total				485,785	109,813
	Equivalent Annual Value			*****	\$9,495

GUADALUPE RIVER AT VICTORIA, TEXAS  
25-YEAR PLAN

1/92

Interest Rate = 8.500%  
Base Year = 1996

OPERATION AND MAINTENANCE COSTS

Annual Costs

	Amount	Contingency	Subtotal
Mowing (2 times)	\$1,300	\$326	\$1,626
Grease and test gate	\$400	\$100	\$500
Levee repairs	\$3,200	\$960	\$4,160
Ramp repairs-base	\$489	\$147	\$636
Ramp repairs-asphalt	\$35	\$11	\$46
	-----		
Subtotal	\$5,424	\$1,544	\$6,968

2-Year Costs

Remove silt & debris	\$8,215	\$2,054	\$10,269
	-----		
Subtotal	\$8,215	\$2,054	\$10,269

5-Year Costs

Seed, mulch & fert	\$297	\$74	\$371
	-----		
Subtotal	\$297	\$74	\$371

EQUIVALENT O&M ANNUAL VALUE \$11,956

OPERATION AND MAINTENANCE COSTS (CONTINUED)  
 GUADALUPE RIVER AT VICTORIA, TEXAS  
 25-YEAR PLAN

1/92

Year	Annual Costs	2-Year Costs	5-Year Costs	Total Value	Base Year Value
1996				0	0
1997	6,968			6,968	6,422
1998	6,968	10,269		17,237	14,642
1999	6,968			6,968	5,455
2000	6,968	10,269		17,237	12,438
2001	6,968		371	7,339	4,881
2002	6,968	10,269		17,237	10,565
2003	6,968			6,968	3,936
2004	6,968	10,269		17,237	8,975
2005	6,968			6,968	3,344
2006	6,968	10,269	371	17,608	7,788
2007	6,968			6,968	2,840
2008	6,968	10,269		17,237	6,476
2009	6,968			6,968	2,413
2010	6,968	10,269		17,237	5,501
2011	6,968		371	7,339	2,159
2012	6,968	10,269		17,237	4,673
2013	6,968			6,968	1,741
2014	6,968	10,269		17,237	3,969
2015	6,968			6,968	1,479
2016	6,968	10,269	371	17,608	3,444
2017	6,968			6,968	1,256
2018	6,968	10,269		17,237	2,864
2019	6,968			6,968	1,067
2020	6,968	10,269		17,237	2,433
2021	6,968		371	7,339	955
2022	6,968	10,269		17,237	2,067
2023	6,968			6,968	770
2024	6,968	10,269		17,237	1,756
2025	6,968			6,968	654
2026	6,968	10,269	371	17,608	1,523
2027	6,968			6,968	556
2028	6,968	10,269		17,237	1,267
2029	6,968			6,968	472
2030	6,968	10,269		17,237	-1,076
2031	6,968		371	7,339	422
2032	6,968	10,269		17,237	914
2033	6,968			6,968	341
2034	6,968	10,269		17,237	776
2035	6,968			6,968	289
2036	6,968	10,269	371	17,608	674
2037	6,968			6,968	246
2038	6,968	10,269		17,237	560
2039	6,968			6,968	209
2040	6,968	10,269		17,237	476
2041	6,968		371	7,339	187
2042	6,968	10,269		17,237	404
2043	6,968			6,968	151
2044	6,968	10,269		17,237	343
2045	6,968			6,968	128
2046	6,968	10,269	371	17,608	298
Total				608,835	138,276
	Equivalent Annual Value			*****	\$11,956

GUADALUPE RIVER AT VICTORIA, TEXAS  
100-YEAR PLAN

1/92

Interest Rate = 8.500%  
Base Year = 1996

OPERATION AND MAINTENANCE COSTS

Annual Costs

	Amount	Contingency	Subtotal
Mowing (2 times)	\$1,650	\$412	\$2,062
Grease and test gate	\$400	\$100	\$500
Levee repairs	\$4,000	\$1,200	\$5,200
Ramp repairs-base	\$587	\$176	\$763
Ramp repairs-asphalt	\$35	\$11	\$46
	-----		
Subtotal	\$6,672	\$1,899	\$8,571

2-Year Costs

Remove silt & debris	\$14,725	\$3,681	\$18,406
	-----		
Subtotal	\$14,725	\$3,681	\$18,406

5-Year Costs

Seed, mulch & fert	\$890	\$223	\$1,113
	-----		
Subtotal	\$890	\$223	\$1,113

EQUIVALENT O&M ANNUAL VALUE \$17,587

OPERATION AND MAINTENANCE COSTS (CONTINUED)  
 GUADALUPE RIVER AT VICTORIA, TEXAS 1/92  
 100-YEAR PLAN

Year	Annual Costs	2-Year Costs	5-Year Costs	Total Value	Base Year Value
1996				0	0
1997	8,571			8,571	7,900
1998	8,571	18,406		26,977	22,916
1999	8,571			8,571	6,710
2000	8,571	18,406		26,977	19,466
2001	8,571		1113	9,684	6,440
2002	8,571	18,406		26,977	16,535
2003	8,571			8,571	4,842
2004	8,571	18,406		26,977	14,046
2005	8,571			8,571	4,113
2006	8,571	18,406	1113	28,090	12,424
2007	8,571			8,571	3,494
2008	8,571	18,406		26,977	10,135
2009	8,571			8,571	2,968
2010	8,571	18,406		26,977	8,609
2011	8,571		1113	9,684	2,848
2012	8,571	18,406		26,977	7,313
2013	8,571			8,571	2,142
2014	8,571	18,406		26,977	6,212
2015	8,571			8,571	1,819
2016	8,571	18,406	1113	28,090	5,495
2017	8,571			8,571	1,545
2018	8,571	18,406		26,977	4,483
2019	8,571			8,571	1,313
2020	8,571	18,406		26,977	3,808
2021	8,571		1113	9,684	1,260
2022	8,571	18,406		26,977	3,235
2023	8,571			8,571	947
2024	8,571	18,406		26,977	2,748
2025	8,571			8,571	805
2026	8,571	18,406	1113	28,090	2,430
2027	8,571			8,571	683
2028	8,571	18,406		26,977	1,983
2029	8,571			8,571	581
2030	8,571	18,406		26,977	1,684
2031	8,571		1113	9,684	557
2032	8,571	18,406		26,977	1,431
2033	8,571			8,571	419
2034	8,571	18,406		26,977	1,215
2035	8,571			8,571	356
2036	8,571	18,406	1113	28,090	1,075
2037	8,571			8,571	302
2038	8,571	18,406		26,977	877
2039	8,571			8,571	257
2040	8,571	18,406		26,977	745
2041	8,571		1113	9,684	246
2042	8,571	18,406		26,977	633
2043	8,571			8,571	185
2044	8,571	18,406		26,977	537
2045	8,571			8,571	157
2046	8,571	18,406	1113	28,090	475
Total				899,830	203,400
Equivalent Annual Value				*****	\$17,587



GUADALUPE RIVER AT VICTORIA, TEXAS  
 300-YEAR PLAN

1/92

Interest Rate = 6.500%  
 Base Year = 1996

OPERATION AND MAINTENANCE COSTS

Annual Costs

	Amount	Contingency	Subtotal
Mowing (2 times)	\$2,400	\$600	\$3,000
Grease and test gate	\$400	\$100	\$500
Levee repairs	\$6,400	\$1,920	\$8,320
Ramp repairs-base	\$587	\$176	\$763
Ramp repairs-asphalt	\$69	\$21	\$90
	-----		
Subtotal	\$9,856	\$2,817	\$12,673

2-Year Costs

Remove silt & debris	\$15,500	\$3,875	\$19,375
	-----		
Subtotal	\$15,500	\$3,875	\$19,375

5-Year Costs

Seed, mulch & fert	\$1,484	\$371	\$1,855
	-----		
Subtotal	\$1,484	\$371	\$1,855

EQUIVALENT O&M ANNUAL VALUE \$22,279

OPERATION AND MAINTENANCE COSTS (CONTINUED)  
 GUADALUPE RIVER AT VICTORIA, TEXAS  
 300-YEAR PLAN

1/92

Year	Annual Costs	2-Year Costs	5-Year Costs	Total Value	Base Year Value
1996				0	0
1997	12,673			12,673	11,680
1998	12,673	19,375		32,048	27,223
1999	12,673			12,673	9,922
2000	12,673	19,375		32,048	23,125
2001	12,673		1855	14,528	9,662
2002	12,673	19,375		32,048	19,644
2003	12,673			12,673	7,159
2004	12,673	19,375		32,048	16,686
2005	12,673			12,673	6,082
2006	12,673	19,375	1855	33,903	14,995
2007	12,673			12,673	5,166
2008	12,673	19,375		32,048	12,040
2009	12,673			12,673	4,388
2010	12,673	19,375		32,048	10,228
2011	12,673		1855	14,528	4,273
2012	12,673	19,375		32,048	8,688
2013	12,673			12,673	3,166
2014	12,673	19,375		32,048	7,380
2015	12,673			12,673	2,690
2016	12,673	19,375	1855	33,903	6,632
2017	12,673			12,673	2,285
2018	12,673	19,375		32,048	5,325
2019	12,673			12,673	1,941
2020	12,673	19,375		32,048	4,524
2021	12,673		1855	14,528	1,890
2022	12,673	19,375		32,048	3,843
2023	12,673			12,673	1,400
2024	12,673	19,375		32,048	3,264
2025	12,673			12,673	1,190
2026	12,673	19,375	1855	33,903	2,933
2027	12,673			12,673	1,011
2028	12,673	19,375		32,048	2,355
2029	12,673			12,673	858
2030	12,673	19,375		32,048	2,001
2031	12,673		1855	14,528	836
2032	12,673	19,375		32,048	1,700
2033	12,673			12,673	619
2034	12,673	19,375		32,048	1,444
2035	12,673			12,673	526
2036	12,673	19,375	1855	33,903	1,297
2037	12,673			12,673	447
2038	12,673	19,375		32,048	1,042
2039	12,673			12,673	380
2040	12,673	19,375		32,048	885
2041	12,673		1855	14,528	370
2042	12,673	19,375		32,048	752
2043	12,673			12,673	274
2044	12,673	19,375		32,048	639
2045	12,673			12,673	233
2046	12,673	19,375	1855	33,903	574
Total				1,136,575	257,666
				*****	\$22,279

Equivalent Annual Value

GUADALUPE RIVER AT VICTORIA, TEXAS  
500-YEAR PLAN

1/92

Interest Rate = 8.500%  
Base Year = 1996

OPERATION AND MAINTENANCE COSTS

Annual Costs

	Amount	Contingency	Subtotal
Mowing (2 times)	\$2,700	\$676	\$3,376
Grease and test gate	\$400	\$100	\$500
Levee repairs	\$8,000	\$2,400	\$10,400
Ramp repairs-base	\$587	\$176	\$763
Ramp repairs-asphalt	\$69	\$21	\$90
	-----		
Subtotal	\$11,756	\$3,373	\$15,129

2-Year Costs

Remove silt & debris	\$15,500	\$3,875	\$19,375
	-----		
Subtotal	\$15,500	\$3,875	\$19,375

5-Year Costs

Seed, mulch & fert	\$1,484	\$371	\$1,855
	-----		
Subtotal	\$1,484	\$371	\$1,855

EQUIVALENT O&M ANNUAL VALUE \$24,735

OPERATION AND MAINTENANCE COSTS (CONTINUED)  
 GUADALUPE RIVER AT VICTORIA, TEXAS  
 500-YEAR PLAN

1/92

Year	Annual Costs	2-Year Costs	5-Year Costs	Total Value	Base Year Value
1996				0	0
1997	15,129			15,129	13,944
1998	15,129	19,375		34,504	29,310
1999	15,129			15,129	11,845
2000	15,129	19,375		34,504	24,897
2001	15,129		1855	16,984	11,295
2002	15,129	19,375		34,504	21,149
2003	15,129			15,129	8,547
2004	15,129	19,375		34,504	17,965
2005	15,129			15,129	7,260
2006	15,129	19,375	1855	36,359	16,081
2007	15,129			15,129	6,167
2008	15,129	19,375		34,504	12,963
2009	15,129			15,129	5,239
2010	15,129	19,375		34,504	11,012
2011	15,129		1855	16,984	4,996
2012	15,129	19,375		34,504	9,354
2013	15,129			15,129	3,780
2014	15,129	19,375		34,504	7,946
2015	15,129			15,129	3,211
2016	15,129	19,375	1855	36,359	7,112
2017	15,129			15,129	2,728
2018	15,129	19,375		34,504	5,733
2019	15,129			15,129	2,317
2020	15,129	19,375		34,504	4,870
2021	15,129		1855	16,984	2,210
2022	15,129	19,375		34,504	4,137
2023	15,129			15,129	1,672
2024	15,129	19,375		34,504	3,514
2025	15,129			15,129	1,420
2026	15,129	19,375	1855	36,359	3,146
2027	15,129			15,129	1,206
2028	15,129	19,375		34,504	2,536
2029	15,129			15,129	1,025
2030	15,129	19,375		34,504	-2,154
2031	15,129		1855	16,984	977
2032	15,129	19,375		34,504	1,830
2033	15,129			15,129	739
2034	15,129	19,375		34,504	1,554
2035	15,129			15,129	628
2036	15,129	19,375	1855	36,359	1,391
2037	15,129			15,129	534
2038	15,129	19,375		34,504	1,122
2039	15,129			15,129	453
2040	15,129	19,375		34,504	953
2041	15,129		1855	16,984	432
2042	15,129	19,375		34,504	809
2043	15,129			15,129	327
2044	15,129	19,375		34,504	687
2045	15,129			15,129	278
2046	15,129	19,375	1855	36,359	615
Total				1,259,375	286,071
Equivalent Annual Value				*****	\$24,735

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 10-YEAR DESIGN  
 O&M COSTS  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Every 6 months:						
	Mowing	12	ACR	50.00	600	150	25%
	Subtotal, every 6 months				750		
	Every year:						
	Grease and test gates	1	JOB	400.00	400	100	25%
	Levee repairs	200	CY	8.00	1,600	480	30%
	Ramp repairs - base materl	6	CY	48.90	293	88	30%
	Ramp repairs - asphal conc	0.5	TON	69.20	35	11	30%
	Subtotal, every year				3,007		
	Every 2 years:						
	Remove silt from ditches	5,300	FT	1.55	8,215	2,054	25%
	Subtotal, every 2 years				10,269		
	Every 5 years:						
	Seed, mulch & fertilize	0.1	ACR	2,967.00	297	74	25%
	Subtotal, every 5 years				371		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 25-YEAR DESIGN  
 O&M COSTS  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Every 6 months:						
	Mowing	13	ACR	50.00	650	163	25%
	Subtotal, every 6 months				813		
	Every year:						
	Grease and test gates	1	JOB	400.00	400	100	25%
	Levee repairs	400	CY	8.00	3,200	960	30%
	Ramp repairs - base materl	10	CY	48.90	489	147	30%
	Ramp repairs - asphal conc	0.5	TON	69.20	35	11	30%
	Subtotal, every year				5,342		
	Every 2 years:						
	Remove silt from ditches	5,300	FT	1.55	8,215	2,054	25%
	Subtotal, every 2 years				10,269		
	Every 5 years:						
	Seed, mulch & fertilize	0.1	ACR	2,967.00	297	74	25%
	Subtotal, every 5 years				371		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 100-YEAR DESIGN  
 O&M COSTS  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Every 6 months:						
	Mowing	16.5	ACR	50.00	825	206	25%
	Subtotal, every 6 months				1031		
	Every year:						
	Grease and test gates	1	JOB	400.00	400	100	25%
	Levee repairs	500	CY	8.00	4,000	1,200	30%
	Ramp repairs - base materl	12	CY	48.90	587	176	30%
	Ramp repairs - asphal conc	0.5	TON	69.20	35	11	30%
	Subtotal, every year				6,509		
	Every 2 years:						
	Remove silt from ditches	9,500	FT	1.55	14,725	3,681	25%
	Subtotal, every 2 years				18,406		
	Every 5 years:						
	Seed, mulch & fertilize	0.3	ACR	2,967.00	890	223	25%
	Subtotal, every 5 years				1,113		

GUADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 300-YEAR DESIGN  
 O&M COSTS  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Every 6 months:						
	Mowing	24.0	ACR	50.00	1,200	300	25%
	Subtotal, every 6 months				1500		
	Every year:						
	Grease and test gates	1	JOB	400.00	400	100	25%
	Levee repairs	800	CY	8.00	6,400	1,920	30%
	Ramp repairs - base materl	12	CY	48.90	587	176	30%
	Ramp repairs - asphal conc	1.0	TON	69.20	69	21	30%
	Subtotal, every year				9,673		
	Every 2 years:						
	Remove silt from ditches	10,000	FT	1.55	15,500	3,875	25%
	Subtotal, every 2 years				19,375		
	Every 5 years:						
	Seed, mulch & fertilize	0.5	ACR	2,967.00	1,484	371	25%
	Subtotal, every 5 years				1,855		



GJADALUPE RIVER AT VICTORIA, TEXAS  
 FEASIBILITY STUDY  
 500-YEAR DESIGN  
 O&M COSTS  
 JULY 1991 PRICE LEVELS

ACCOUNT CODE	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	CONTINGENCY	CONT %
11	LEVEES AND FLOODWALLS						
111--	Levees						
	Every 6 months:						
	Mowing	27.0	ACR	50.00	1,350	338	25%
	Subtotal, every 6 months				1688		
	Every year:						
	Grease and test gates	1	JOB	400.00	400	100	25%
	Levee repairs	1,000	CY	8.00	8,000	2,400	30%
	Ramp repairs - base materl	12	CY	48.90	587	176	30%
	Ramp repairs - asphal conc	1.0	TON	69.20	69	21	30%
	Subtotal, every year				11,753		
	Every 2 years:						
	Remove silt from ditches	10,000	FT	1.55	15,500	3,875	25%
	Subtotal, every 2 years				19,375		
	Every 5 years:						
	Seed, mulch & fertilize	0.5	ACR	2,967.00	1,484	371	25%
	Subtotal, every 5 years				1,855		

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

APPENDIX I

PROJECT COOPERATION AGREEMENT

PROJECT COOPERATION AGREEMENT  
BETWEEN  
THE DEPARTMENT OF THE ARMY  
AND  
THE CITY OF VICTORIA, TEXAS  
FOR CONSTRUCTION OF THE PROJECT AT THE  
GUADALUPE RIVER AT VICTORIA, TEXAS

THIS AGREEMENT is entered into this \_\_\_\_ day of \_\_\_\_\_, 1995, by and between the DEPARTMENT OF THE ARMY (hereinafter the "Government"), represented by the U.S. Army Engineer for the Galveston District (hereinafter the "District Engineer") and the City of Victoria, Texas (hereinafter the "Local Sponsor"), represented by the city manager.

WITNESSETH, THAT:

WHEREAS, the Guadalupe River Project at Victoria, Texas (hereinafter the "Project") was approved for construction by [CITE PROJECT APPROVAL MEMO] pursuant to the authority contained in Section 205 of the Flood Control Act of 1948, as amended, 33 U.S.C. 701s;

WHEREAS, the Government and the Local Sponsor desire to enter into a Project Cooperation Agreement for construction of the Project, as defined in Article I.A. of this Agreement;

WHEREAS, Section 103(a) of the Water Resources Development Act of 1986, Public Law 99-662, as amended, specifies the cost-sharing requirements applicable to the Project;

WHEREAS, Section 205 of the Flood Control Act of 1948, as amended, and Government regulations which implement this statute, limit the amount the Federal Government may expend on a single flood control project to \$5,000,000;

WHEREAS, Section 221 of the Flood Control Act of 1970, Public Law 91-611, as amended, and Section 103 of the Water Resources Development Act of 1986, Public Law 99-662, as amended, provide that the Secretary of the Army shall not commence construction of any water resources project, or separable element thereof, until each non-Federal sponsor has entered into a written agreement to furnish its required cooperation for the project or separable element;

WHEREAS, the Local Sponsor does not qualify for a reduction of the maximum non-Federal cost share pursuant to the guidelines that implement Section 103(m) of the Water Resources Development Act of 1986, Public Law 99-662, as amended;

WHEREAS, the Government and Local Sponsor have the full authority and capability to perform as hereinafter set forth and intend to cooperate in cost-sharing and financing of the construction of the Project in accordance with the terms of this Agreement.

NOW, THEREFORE, the Government and the Local Sponsor agree as follows:

#### ARTICLE I - DEFINITIONS AND GENERAL PROVISIONS

For purposes of this Agreement:

A. The term "Project" shall mean improvement of 2.4 miles of levees along the Guadalupe River at Victoria, Texas. [THE AGREEMENT MUST REFERENCE THE APPROVED PROJECT REPORT, E.G. DETAILED PROJECT REPORT AND PROJECT APPROVAL MEMORANDUM, SUBSEQUENT APPROVED MODIFICATIONS, OR OTHER APPROPRIATE PROJECT DOCUMENT THAT DEFINES THE SCOPE OF THE "PROJECT".] as generally described in the Detailed Project Report, dated \_\_\_\_\_, 1995 and approved by [Assistant Secretary of the Army (Civil Works) / Chief of Engineers / Commander, Southwestern Division] on \_\_\_\_\_, 1995.

B. The term "total project costs" shall mean all costs incurred by the Local Sponsor and the Government in accordance with the terms of this Agreement directly related to construction of the Project. Subject to the provisions of this Agreement, the term shall include, but is not necessarily limited to: engineering and design costs during the preparation of contract plans and specifications; engineering and design costs during construction; the costs of investigations to identify the existence and extent of hazardous substances in accordance with Article XV.A. of this Agreement; costs of historic preservation activities in accordance with Article XVIII.A. of this Agreement; actual construction costs, including the costs of alteration, lowering, raising, or replacement and attendant removal of existing railroad bridges and approaches thereto; supervision and administration costs; costs of participation in the Project Coordination Team in accordance with Article V of this Agreement; costs of contract dispute settlements or awards; the value of lands, easements, rights-of-way, relocations, and suitable borrow and dredged or excavated material disposal areas for which the Government affords credit in accordance with Article IV of this Agreement; and costs of audit in accordance with Article X of this Agreement. The term does not include any costs for operation, maintenance, repair, replacement, or rehabilitation; any costs due to betterments; or any costs of dispute resolution under Article VII of this Agreement.

C. The term "financial obligation for construction" shall mean a financial obligation of the Government, other than an obligation pertaining to the provision of lands, easements, rights-of-way, relocations, and borrow and dredged or excavated material disposal areas, that results or would result in a cost that is or would be included in total project costs.

D. The term "Local proportionate share" shall mean the ratio of the Local Sponsor's total cash contribution required in accordance with Articles II.D.1. and II.D.3. of this Agreement to total financial obligations for construction, as projected by the Government.

E. The term "period of construction" shall mean the time from the date the Government first notifies the Local Sponsor in writing, in accordance with Article VI.B. of this Agreement, of the scheduled date for issuance of the solicitation for the first construction contract to the date that the District Engineer notifies the Local Sponsor in writing of the Government's determination that construction of the Project is complete.

F. The term "highway" shall mean any public highway, roadway, street, or way, including any bridge thereof.

G. The term "relocation" shall mean providing a functionally equivalent facility to the owner of an existing utility, cemetery, highway or other public facility, or railroad (excluding existing railroad bridges and approaches thereto) when such action is authorized in accordance with applicable legal principles of just compensation or as otherwise provided in the authorizing legislation for the Project or any report referenced therein. Providing a functionally equivalent facility may take the form of alteration, lowering, raising, or replacement and attendant removal of the affected facility or part thereof.

H. The term "fiscal year" shall mean one fiscal year of the Government. The Government fiscal year begins on October 1 and ends on September 30.

I. The term "functional portion of the Project" shall mean a portion of the Project that is suitable for tender to the Local Sponsor to operate and maintain in advance of completion of the entire Project. For a portion of the Project to be suitable for tender, the District Engineer must notify the Local Sponsor in writing of the Government's determination that the portion of the Project is complete and can function independently and for a useful purpose, although the balance of the Project is not complete.

J. The term "betterment" shall mean a change in the design and construction of an element of the Project resulting from the application of standards that the Government determines exceed those that the Government would otherwise apply for accomplishing the design and construction of that element.

## ARTICLE II - OBLIGATIONS OF THE GOVERNMENT AND THE LOCAL SPONSOR

A. The Government, subject to receiving funds appropriated by the Congress of the United States (hereinafter, the "Congress") and using those funds and funds provided by the Local Sponsor, shall expeditiously construct the Project (including alteration, lowering, raising, or replacement and attendant removal of existing railroad bridges and approaches thereto), applying those procedures usually applied to Federal projects, pursuant to Federal laws, regulations, and policies.

1. The Government shall afford the Local Sponsor the opportunity to review and comment on the solicitations for all contracts, including relevant plans and specifications, prior to the Government's issuance of such solicitations. The Government shall not issue the solicitation for the first construction contract until the Local Sponsor has confirmed in writing its willingness to proceed with the Project. To the extent possible, the Government shall afford the Local Sponsor the opportunity to review and comment on all contract modifications, including change orders, prior to the issuance to the contractor of a Notice to Proceed. In any instance where providing the Local Sponsor with notification of a contract modification or change order is not possible prior to issuance of the Notice to Proceed, the Government shall provide such notification in writing at the earliest date possible. To the extent possible, the Government also shall afford the Local Sponsor the opportunity to review and comment on all contract claims prior to resolution thereof. The Government shall consider in good faith the comments of the Local Sponsor, but the contents of solicitations, award of contracts, execution of contract modifications, issuance of change orders, resolution of contract claims, and performance of all work on the Project (whether the work is performed under contract or by Government personnel), shall be exclusively within the control of the Government.

2. Throughout the period of construction, the District Engineer shall furnish the Local Sponsor with a copy of the Government's Written Notice of Acceptance of Completed Work for each contract for the Project.

B. The Local Sponsor may request the Government to accomplish betterments. Such requests shall be in writing and shall describe the betterments requested to be accomplished. If the Government in its sole discretion elects to accomplish the requested betterments or any portion thereof, it shall so notify the Local Sponsor in a writing that sets forth any applicable terms and conditions, which must be consistent with this Agreement. In the event of conflict between such a writing and this Agreement, this Agreement shall control. The Local Sponsor shall be solely responsible for all costs due to the requested betterments and shall pay all such costs in accordance with Article VI.C. of this Agreement.

C. When the District Engineer determines that the entire Project is complete or that a portion of the Project has become a functional portion of the Project, the District Engineer shall so notify the Local Sponsor in writing and furnish the Local Sponsor with an Operation, Maintenance, Repair, Replacement, and Rehabilitation Manual (hereinafter the "OMRR&R Manual") and with copies of all of the Government's Written Notices of Acceptance of Completed Work for all contracts for the Project or the functional portion of the Project that have not been provided previously. Upon such notification, the Local Sponsor shall operate, maintain, repair, replace, and rehabilitate the entire Project or the functional portion of the Project in accordance with Article VIII of this Agreement.

D. The Local Sponsor shall contribute a minimum of 25 percent, but not to exceed 50 percent, of total project costs in accordance with the provisions of this paragraph.

1. The Local Sponsor shall provide a cash contribution equal to 5 percent of total project costs in accordance with Article VI.B. of this Agreement.

2. In accordance with Article III of this Agreement, the Local Sponsor shall provide all lands, easements, rights-of-way, and suitable borrow and dredged or excavated material disposal areas that the Government determines the Local Sponsor must provide for the construction, operation, and maintenance of the Project, and shall perform or ensure performance of all relocations that the Government determines to be necessary for the construction, operation, and maintenance of the Project.

3. If the Government projects that the value of the Local Sponsor's contributions under paragraphs D.1. and D.2. of this Article and Articles V, X, and XV.A. of this Agreement will be less than 25 percent of total project costs, the Local Sponsor shall provide an additional cash contribution, in accordance with Article VI.B. of this Agreement, in the amount necessary to make the Local Sponsor's total contribution equal to 25 percent of total project costs.

4. If the Government determines that the value of the Local Sponsor's contributions provided under paragraphs D.2. and D.3. of this Article and Articles V, X, and XV.A. of this Agreement has exceeded 45 percent of total project costs, the Government, subject to the availability of funds, shall reimburse the Local Sponsor for any such value in excess of 45 percent of total project costs. After such a determination, the Government, in its sole discretion, may provide any remaining Project lands, easements, rights-of-way, and suitable borrow and dredged or excavated material disposal areas and perform any remaining Project relocations on behalf of the Local Sponsor.

E. The Local Sponsor may request the Government to provide lands, easements, rights-of-way, and suitable borrow and dredged or excavated material disposal areas or perform relocations on behalf of the Local Sponsor. Such requests shall be in writing and shall describe the services requested to be performed. If in its sole discretion the Government elects to perform the requested services or any portion thereof, it shall so notify the Local Sponsor in a writing that sets forth any applicable terms and conditions, which must be consistent with this Agreement. In the event of conflict between such a writing and this Agreement, this Agreement shall control. The Local Sponsor shall be solely responsible for all costs of the requested services and shall pay all such costs in accordance with Article VI.C. of this Agreement. Notwithstanding the provision of lands, easements, rights-of-way, and suitable borrow and dredged or excavated material disposal areas or performance of relocations by the Government, the Local Sponsor shall be responsible, as between the Government and the Local Sponsor, for the costs of cleanup and response in accordance with Article XV.C. of this Agreement.

F. The Government shall perform a final accounting in accordance with Article VI.D. of this Agreement to determine the contributions provided by the Local Sponsor in accordance with paragraphs B., D., and E. of this Article and Articles V, X, and XV.A. of this Agreement and to determine whether the Local Sponsor has met its obligations under paragraphs B., D., and E. of this Article.

G. The Local Sponsor shall not use Federal funds to meet the Local Sponsor's share of total project costs under this Agreement unless the Federal granting agency verifies in writing that the expenditure of such funds is expressly authorized by statute.

H. The Local Sponsor agrees to participate in and comply with applicable Federal floodplain management and flood insurance programs.



I. Not less than once each year the Local Sponsor shall inform affected interests of the extent of protection afforded by the Project.

J. The Local Sponsor shall publicize flood plain information in the area concerned and shall provide this information to zoning and other regulatory agencies for their use in preventing unwise future development in the flood plain and in adopting such regulations as may be necessary to prevent unwise future development and to ensure compatibility with protection levels provided by the Project.

ARTICLE III - LANDS, RELOCATIONS, DISPOSAL AREAS, AND PUBLIC LAW  
91-646 COMPLIANCE

A. The Government, after consultation with the Local Sponsor, shall determine the lands, easements, and rights-of-way required for the construction, operation, and maintenance of the Project, including those required for relocations, borrow materials, and dredged or excavated material disposal. The Government in a timely manner shall provide the Local Sponsor with general written descriptions, including maps as appropriate, of the lands, easements, and rights-of-way that the Government determines the Local Sponsor must provide, in detail sufficient to enable the Local Sponsor to fulfill its obligations under this paragraph, and shall provide the Local Sponsor with a written notice to proceed with acquisition of such lands, easements, and rights-of-way. Prior to the end of the period of construction, the Local Sponsor shall acquire all lands, easements, and rights-of-way set forth in such descriptions. Furthermore, prior to issuance of the solicitation for each construction contract, the Local Sponsor shall provide the Government with authorization for entry to all lands, easements, and rights-of-way the Government determines the Local Sponsor must provide for that contract. For so long as the Project remains authorized, the Local Sponsor shall ensure that lands, easements, and rights-of-way that the Government determines to be required for the operation and maintenance of the Project and that were provided by the Local Sponsor are retained in public ownership for uses compatible with the authorized purposes of the Project.

B. The Government, after consultation with the Local Sponsor, shall determine the improvements required on lands, easements, and rights-of-way to enable the proper disposal of dredged or excavated material associated with the construction, operation, and maintenance of the Project. Such improvements may include, but are not necessarily limited to, retaining dikes, wasteweirs, bulkheads, embankments, monitoring features, stilling basins, and de-watering pumps and pipes. The Government in a timely manner shall provide the Local Sponsor with general written descriptions of such improvements in detail sufficient to

enable the Local Sponsor to fulfill its obligations under this paragraph, and shall provide the Local Sponsor with a written notice to proceed with construction of such improvements. Prior to the end of the period of construction, the Local Sponsor shall provide all improvements set forth in such descriptions. Furthermore, prior to issuance of the solicitation for each Government construction contract, the Local Sponsor shall prepare plans and specifications for all improvements the Government determines to be required for the proper disposal of dredged or excavated material under that contract, submit such plans and specifications to the Government for approval, and provide such improvements in accordance with the approved plans and specifications.

C. The Government, after consultation with the Local Sponsor, shall determine the relocations necessary for the construction, operation, and maintenance of the Project, including those necessary to enable the removal of borrow materials and the proper disposal of dredged or excavated material. The Government in a timely manner shall provide the Local Sponsor with general written descriptions, including maps as appropriate, of such relocations in detail sufficient to enable the Local Sponsor to fulfill its obligations under this paragraph, and shall provide the Local Sponsor with a written notice to proceed with such relocations. Prior to the end of the period of construction, the Local Sponsor shall perform or ensure the performance of all relocations as set forth in such descriptions. Furthermore, prior to issuance of the solicitation for each Government construction contract, the Local Sponsor shall prepare or ensure the preparation of plans and specifications for, and perform or ensure the performance of, all relocations the Government determines to be necessary for that contract.

D. The Local Sponsor in a timely manner shall provide the Government with such documents as are sufficient to enable the Government to determine the value of any contribution provided pursuant to paragraphs A., B., or C. of this Article. Upon receipt of such documents the Government, in accordance with Article IV of this Agreement and in a timely manner, shall determine the value of such contribution, include such value in total project costs, and afford credit for such value toward the Local Sponsor's share of total project costs.

E. The Local Sponsor shall comply with the applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, as amended by Title IV of the Surface Transportation and Uniform Relocation Assistance Act of 1987 (Public Law 100-17), and the Uniform Regulations contained in 49 C.F.R. Part 24, in acquiring lands, easements, and rights-of-way required for the construction, operation, and maintenance of the Project, including those

necessary for relocations, borrow materials, and dredged or excavated material disposal, and shall inform all affected persons of applicable benefits, policies, and procedures in connection with said Act.

ARTICLE IV - CREDIT FOR VALUE OF LANDS, RELOCATIONS,  
AND DISPOSAL AREAS

A. The Local Sponsor shall receive credit toward its share of total project costs for the value of the lands, easements, rights-of-way, and suitable borrow and dredged or excavated material disposal areas that the Local Sponsor must provide pursuant to Article III of this Agreement, and for the value of the relocations that the Local Sponsor must perform or for which it must ensure performance pursuant to Article III of this Agreement. However, the Local Sponsor shall not receive credit for the value of any lands, easements, rights-of-way, relocations, or borrow and dredged or excavated material disposal areas that have been provided previously as an item of cooperation for another Federal project. The Local Sponsor also shall not receive credit for the value of lands, easements, rights-of-way, relocations, or borrow and dredged or excavated material disposal areas to the extent that such items are provided using Federal funds unless the Federal granting agency verifies in writing that such credit is expressly authorized by statute.

B. For the sole purpose of affording credit in accordance with this Agreement, the value of lands, easements, and rights-of-way, including those necessary for relocations, borrow materials, and dredged or excavated material disposal, shall be the fair market value of the real property interests, plus certain incidental costs of acquiring those interests, as determined in accordance with the provisions of this paragraph.

1. Date of Valuation. The fair market value of lands, easements, or rights-of-way owned by the Local Sponsor on the effective date of this Agreement shall be the fair market value of such real property interests as of the date the Local Sponsor provides the Government with authorization for entry thereto. The fair market value of lands, easements, or rights-of-way acquired by the Local Sponsor after the effective date of this Agreement shall be the fair market value of such real property interests at the time the interests are acquired.

2. General Valuation Procedure. Except as provided in paragraph B.3. of this Article, the fair market value of lands, easements, or rights-of-way shall be determined in accordance with paragraph B.2.a. of this Article, unless thereafter a different amount is determined to represent fair market value in accordance with paragraph B.2.b. of this Article.

a. The Local Sponsor shall obtain, for each real property interest, an appraisal that is prepared by a qualified appraiser who is acceptable to the Local Sponsor and the Government. The appraisal must be prepared in accordance with the applicable rules of just compensation, as specified by the Government. The fair market value shall be the amount set forth in the Local Sponsor's appraisal, if such appraisal is approved by the Government. In the event the Government does not approve the Local Sponsor's appraisal, the Local Sponsor may obtain a second appraisal, and the fair market value shall be the amount set forth in the Local Sponsor's second appraisal, if such appraisal is approved by the Government. In the event the Government does not approve the Local Sponsor's second appraisal, or the Local Sponsor chooses not to obtain a second appraisal, the Government shall obtain an appraisal, and the fair market value shall be the amount set forth in the Government's appraisal, if such appraisal is approved by the Local Sponsor. In the event the Local Sponsor does not approve the Government's appraisal, the Government, after consultation with the Local Sponsor, shall consider the Government's and the Local Sponsor's appraisals and determine an amount based thereon, which shall be deemed to be the fair market value.

b. Where the amount paid or proposed to be paid by the Local Sponsor for the real property interest exceeds the amount determined pursuant to paragraph B.2.a. of this Article, the Government, at the request of the Local Sponsor, shall consider all factors relevant to determining fair market value and, in its sole discretion, after consultation with the Local Sponsor, may approve in writing an amount greater than the amount determined pursuant to paragraph B.2.a. of this Article, but not to exceed the amount actually paid or proposed to be paid. If the Government approves such an amount, the fair market value shall be the lesser of the approved amount or the amount paid by the Local Sponsor, but no less than the amount determined pursuant to paragraph B.2.a. of this Article.

3. Eminent Domain Valuation Procedure. For lands, easements, or rights-of-way acquired by eminent domain proceedings instituted after the effective date of this Agreement, the Local Sponsor shall, prior to instituting such proceedings, submit to the Government notification in writing of its intent to institute such proceedings and an appraisal of the specific real property interests to be acquired in such proceedings. The Government shall have 60 days after receipt of such a notice and appraisal within which to review the appraisal, if not previously approved by the Government in writing.

a. If the Government previously has approved the appraisal in writing, or if the Government provides written approval of, or takes no action on, the appraisal within such 60-day period, the Local Sponsor shall use the amount set forth in

such appraisal as the estimate of just compensation for the purpose of instituting the eminent domain proceeding.

b. If the Government provides written disapproval of the appraisal, including the reasons for disapproval, within such 60-day period, the Government and the Local Sponsor shall consult in good faith to promptly resolve the issues or areas of disagreement that are identified in the Government's written disapproval. If, after such good faith consultation, the Government and the Local Sponsor agree as to an appropriate amount, then the Local Sponsor shall use that amount as the estimate of just compensation for the purpose of instituting the eminent domain proceeding. If, after such good faith consultation, the Government and the Local Sponsor cannot agree as to an appropriate amount, then the Local Sponsor may use the amount set forth in its appraisal as the estimate of just compensation for the purpose of instituting the eminent domain proceeding.

c. For lands, easements, or rights-of-way acquired by eminent domain proceedings instituted in accordance with sub-paragraph B.3. of this Article, fair market value shall be either the amount of the court award for the real property interests taken, to the extent the Government determined such interests are required for the construction, operation, and maintenance of the Project, or the amount of any stipulated settlement or portion thereof that the Government approves in writing.

4. Incidental Costs. For lands, easements, or rights-of-way acquired by the Local Sponsor within a five-year period preceding the effective date of this Agreement, or at any time after the effective date of this Agreement, the value of the interest shall include the documented incidental costs of acquiring the interest, as determined by the Government, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of costs. Such incidental costs shall include, but not necessarily be limited to, closing and title costs, appraisal costs, survey costs, attorney's fees, plat maps, and mapping costs, as well as the actual amounts expended for payment of any Public Law 91-646 relocation assistance benefits provided in accordance with Article III.E. of this Agreement.

C. After consultation with the Local Sponsor, the Government shall determine the value of relocations in accordance with the provisions of this paragraph.

1. For a relocation other than a highway, the value shall be only that portion of relocation costs that the Government determines is necessary to provide a functionally equivalent facility, reduced by depreciation, as applicable, and

by the salvage value of any removed items.

2. For a relocation of a highway, the value shall be only that portion of relocation costs that would be necessary to accomplish the relocation in accordance with the design standard that the State of Texas would apply under similar conditions of geography and traffic load, reduced by the salvage value of any removed items.

3. Relocation costs shall include, but not necessarily be limited to, actual costs of performing the relocation; planning, engineering and design costs; supervision and administration costs; and documented incidental costs associated with performance of the relocation, but shall not include any costs due to betterments, as determined by the Government, nor any additional cost of using new material when suitable used material is available. Relocation costs shall be subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of costs.

D. The value of the improvements made to lands, easements, and rights-of-way for the proper disposal of dredged or excavated material shall be the costs of the improvements, as determined by the Government, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of costs. Such costs shall include, but not necessarily be limited to, actual costs of providing the improvements; planning, engineering and design costs; supervision and administration costs; and documented incidental costs associated with providing the improvements, but shall not include any costs due to betterments, as determined by the Government.

#### ARTICLE V - PROJECT COORDINATION TEAM

A. To provide for consistent and effective communication, the Local Sponsor and the Government, not later than 30 days after the effective date of this Agreement, shall appoint named senior representatives to a Project Coordination Team. Thereafter, the Project Coordination Team shall meet regularly until the end of the period of construction. The Government's Project Manager and a counterpart named by the Local Sponsor shall co-chair the Project Coordination Team.

B. The Government's Project Manager and the Local Sponsor's counterpart shall keep the Project Coordination Team informed of the progress of construction and of significant pending issues and actions, and shall seek the views of the Project Coordination Team on matters that the Project Coordination Team generally oversees.

C. Until the end of the period of construction, the Project Coordination Team shall generally oversee the Project, including issues related to design; plans and specifications; scheduling; real property and relocation requirements; real property acquisition; contract awards and modifications; contract costs; the Government's cost projections; final inspection of the entire Project or functional portions of the Project; preparation of the proposed OMRR&R Manual; anticipated requirements and needed capabilities for performance of operation, maintenance, repair, replacement, and rehabilitation of the Project; and other related matters.

D. The Project Coordination Team may make recommendations that it deems warranted to the District Engineer on matters that the Project Coordination Team generally oversees, including suggestions to avoid potential sources of dispute. The Government in good faith shall consider the recommendations of the Project Coordination Team. The Government, having the legal authority and responsibility for construction of the Project, has the discretion to accept, reject, or modify the Project Coordination Team's recommendations.

E. The costs of participation in the Project Coordination Team shall be included in total project costs and cost shared in accordance with the provisions of this Agreement.

#### ARTICLE VI - METHOD OF PAYMENT

[FOR ARTICLE VI USE OPTION I IF CONSTRUCTION OF THE "PROJECT" WILL BE COMPLETED WITHIN ONE FISCAL YEAR OR IF THE Local SPONSOR ELECTS TO PROVIDE ITS SHARE IN ONE LUMP SUM. OTHERWISE, USE OPTION II.]

##### OPTION I

A. The Government shall maintain current records of contributions provided by the parties and current projections of total project costs and costs due to betterments. At least quarterly, the Government shall provide the Local Sponsor with a report setting forth all contributions provided to date and the current projections of total project costs, of total costs due to betterments, of the components of total project costs, of each party's share of total project costs, of the Local Sponsor's total cash contributions required in accordance with Articles II.B., II.D., and II.E. of this Agreement, and of the Local proportionate share. On the effective date of this Agreement, total project costs are projected to be \$ \_\_\_\_\_, and the Local Sponsor's cash contribution required under Article II.D. of this Agreement is projected to be \$ \_\_\_\_\_. Such amounts are estimates subject to adjustment by the Government and are not to be construed as the total financial responsibilities of the Government and the Local Sponsor.

B. The Local Sponsor shall provide the cash contribution required under Articles II.D.1. and II.D.3. of this Agreement in accordance with the following provisions: Not less than 30 calendar days prior to the scheduled date for issuance of the solicitation for the first construction contract, the Government shall notify the Local Sponsor in writing of such scheduled date and the funds the Government determines to be required from the Local Sponsor to meet its projected cash contribution under Articles II.D.1. and II.D.3. of this Agreement. Not later than such scheduled date, the Local Sponsor shall provide the Government with the full amount of the required funds by delivering a check payable to "FAO, USAED, Galveston" to the District Engineer. The Government shall draw from the funds provided by the Local Sponsor such sums as the Government deems necessary to cover: (a) the Local proportionate share of financial obligations for construction incurred prior to the commencement of the period of construction; and (b) the Local proportionate share of financial obligations for construction as they are incurred during the period of construction. In the event the Government determines that the Local Sponsor must provide additional funds to meet the Local Sponsor's cash contribution, the Government shall notify the Local Sponsor in writing of the additional funds required. Within 60 calendar days thereafter, the Local Sponsor shall provide the Government with a check for the full amount of the additional required funds.

**OPTION II**

A. The Government shall maintain current records of contributions provided by the parties and current projections of total project costs and costs due to betterments. By [SPECIFIC DATE, BASED ON THE TIMING OF THE LOCAL SPONSOR'S FISCAL CYCLE] of each year and at least quarterly thereafter, the Government shall provide the Local Sponsor with a report setting forth all contributions provided to date and the current projections of total project costs, of total costs due to betterments, of the components of total project costs, of each party's share of total project costs, of the Local Sponsor's total cash contributions required in accordance with Articles II.B., II.D., and II.E. of this Agreement, of the Local proportionate share, and of the funds the Government projects to be required from the Local Sponsor for the upcoming fiscal year. On the effective date of this Agreement, total project costs are projected to be \$\_\_\_\_\_, and the Local Sponsor's cash contribution required under Article II.D. of this Agreement is projected to be \$\_\_\_\_\_. Such amounts are estimates subject to adjustment by the Government and are not to be construed as the total financial responsibilities of the Government and the Local Sponsor.



B. The Local Sponsor shall provide the cash contribution required under Articles II.D.1. and II.D.3. of this Agreement in accordance with the provisions of this paragraph.

[ARTICLE VI.B.1. OFFERS THE Local SPONSOR THREE MECHANISMS FROM WHICH TO CHOOSE IN DECIDING HOW TO PROVIDE ITS CASH CONTRIBUTION TO THE FEDERAL GOVERNMENT. THE Local SPONSOR SHOULD INDICATE ITS CHOICE DURING THE COURSE OF NEGOTIATING THE AGREEMENT. THE PCA SHOULD REFLECT ONLY ONE MECHANISM.]

1. Not less than 30 calendar days prior to the scheduled date for issuance of the solicitation for the first construction contract, the Government shall notify the Local Sponsor in writing of such scheduled date and the funds the Government determines to be required from the Local Sponsor to meet the Local proportionate share of projected financial obligations for construction through the first fiscal year of construction, including the Local proportionate share of financial obligations for construction incurred prior to the commencement of the period of construction. Not later than such scheduled date, the Local Sponsor shall [INDICATE MECHANISM: [1] provide the Government with the full amount of the required funds by delivering a check payable to "FAO, USAED, [APPROPRIATE USACE DISTRICT]" to the District Engineer. [2] verify to the satisfaction of the Government that the Local Sponsor has deposited the required funds in an escrow or other account acceptable to the Government, with interest accruing to the Local Sponsor. [3] present the Government with an irrevocable letter of credit acceptable to the Government for the required funds.]

2. For the second and subsequent fiscal years of construction, the Government shall notify the Local Sponsor in writing, no later than 60 calendar days prior to the beginning of that fiscal year, of the funds the Government determines to be required from the Local Sponsor to meet the Local proportionate share of projected financial obligations for construction for that fiscal year. No later than 30 calendar days prior to the beginning of the fiscal year, the Local Sponsor shall make the full amount of the required funds for that fiscal year available to the Government through the funding mechanism specified in Article VI.B.1. of this Agreement.

3. The Government shall draw from the funds provided by the Local Sponsor such sums as the Government deems necessary to cover: (a) the Local proportionate share of financial obligations for construction incurred prior to the commencement of the period of construction; and (b) the Local proportionate share of financial obligations for construction as they are incurred during the period of construction.

4. If at any time during the period of construction the Government determines that additional funds will be needed from the Local Sponsor to cover the Local proportionate share of projected financial obligations for construction for the current fiscal year, the Government shall notify the Local Sponsor in writing of the additional funds required, and the Local Sponsor, no later than 60 calendar days from receipt of such notice, shall make the additional required funds available through the payment mechanism specified in Article VI.B.1. of this Agreement.

[INCLUDE PARAGRAPHS C. AND D. FOR BOTH OPTIONS I AND II IN ARTICLE VI.]

C. In advance of the Government incurring any financial obligation associated with additional work under Article II.B. or II.E. of this Agreement, the Local Sponsor shall [INDICATE MECHANISM: [1] provide the Government with the full amount of the funds required to pay for such additional work by delivering a check payable to "FAO, USAED, Galveston" to the District Engineer. [2] verify to the satisfaction of the Government that the Local Sponsor has deposited the full amount of the funds required to pay for such additional work in an escrow or other account acceptable to the Government, with interest accruing to the Local Sponsor.] The Government shall draw from the funds provided by the Local Sponsor such sums as the Government deems necessary to cover the Government's financial obligations for such additional work as they are incurred. In the event the Government determines that the Local Sponsor must provide additional funds to meet its cash contribution, the Government shall notify the Local Sponsor in writing of the additional funds required. Within 30 calendar days thereafter, the Local Sponsor shall provide the Government with a check for the full amount of the additional required funds.

D. Upon completion of the Project or termination of this Agreement, and upon resolution of all relevant claims and appeals, the Government shall conduct a final accounting and furnish the Local Sponsor with the results of the final accounting. The final accounting shall determine total project costs, each party's contribution provided thereto, and each party's required share thereof. The final accounting also shall determine costs due to betterments and the Local Sponsor's cash contribution provided pursuant to Article II.B. of this Agreement.

1. In the event the final accounting shows that the total contribution provided by the Local Sponsor is less than its required share of total project costs plus costs due to any betterments provided in accordance with Article II.B. of this Agreement, the Local Sponsor shall, no later than 90 calendar days after receipt of written notice, make a cash payment to the Government of whatever sum is required to meet the Local

Sponsor's required share of total project costs plus costs due to any betterments provided in accordance with Article II.B. of this Agreement.

2. In the event the final accounting shows that the total contribution provided by the Local Sponsor exceeds its required share of total project costs plus costs due to any betterments provided in accordance with Article II.B. of this Agreement, the Government shall, subject to the availability of funds, refund the excess to the Local Sponsor no later than 90 calendar days after the final accounting is complete; however, the Local Sponsor shall not be entitled to any refund of the 5 percent cash contribution required pursuant to Article II.D.1. of this Agreement. In the event existing funds are not available to refund the excess to the Local Sponsor, the Government shall seek such appropriations as are necessary to make the refund.

#### ARTICLE VII - DISPUTE RESOLUTION

As a condition precedent to a party bringing any suit for breach of this Agreement, that party must first notify the other party in writing of the nature of the purported breach and seek in good faith to resolve the dispute through negotiation. If the parties cannot resolve the dispute through negotiation, they may agree to a mutually acceptable method of non-binding alternative dispute resolution with a qualified third party acceptable to both parties. The parties shall each pay 50 percent of any costs for the services provided by such a third party as such costs are incurred. The existence of a dispute shall not excuse the parties from performance pursuant to this Agreement.

#### ARTICLE VIII - OPERATION, MAINTENANCE, REPAIR, REPLACEMENT, AND REHABILITATION (OMRR&R)

A. Upon notification in accordance with Article II.C. of this Agreement and for so long as the Project remains authorized, the Local Sponsor shall operate, maintain, repair, replace, and rehabilitate the entire Project or the functional portion of the Project, at no cost to the Government, in a manner compatible with the Project's authorized purposes and in accordance with applicable Federal and State laws as provided in Article XI of this Agreement and specific directions prescribed by the Government in the OMRR&R Manual and any subsequent amendments thereto.

B. The Local Sponsor hereby gives the Government a right to enter, at reasonable times and in a reasonable manner, upon property that the Local Sponsor owns or controls for access to the Project for the purpose of inspection and, if necessary, for the purpose of completing, operating, maintaining, repairing, replacing, or rehabilitating the Project. If an inspection shows that the Local Sponsor for any reason is failing to perform its

obligations under this Agreement, the Government shall send a written notice describing the non-performance to the Local Sponsor. If, after 30 calendar days from receipt of notice, the Local Sponsor continues to fail to perform, then the Government shall have the right to enter, at reasonable times and in a reasonable manner, upon property that the Local Sponsor owns or controls for access to the Project for the purpose of completing, operating, maintaining, repairing, replacing, or rehabilitating the Project. No completion, operation, maintenance, repair, replacement, or rehabilitation by the Government shall operate to relieve the Local Sponsor of responsibility to meet the Local Sponsor's obligations as set forth in this Agreement, or to preclude the Government from pursuing any other remedy at law or equity to ensure faithful performance pursuant to this Agreement.

#### ARTICLE IX - INDEMNIFICATION

The Local Sponsor shall hold and save the Government free from all damages arising from the construction, operation, maintenance, repair, replacement, and rehabilitation of the Project and any Project-related betterments, except for damages due to the fault or negligence of the Government or its contractors.

#### ARTICLE X - MAINTENANCE OF RECORDS AND AUDIT

A. Not later than 60 calendar days after the effective date of this Agreement, the Government and the Local Sponsor shall develop procedures for keeping books, records, documents, and other evidence pertaining to costs and expenses incurred pursuant to this Agreement. These procedures shall incorporate, and apply as appropriate, the standards for financial management systems set forth in the Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments at 32 C.F.R. Section 33.20. The Government and the Local Sponsor shall maintain such books, records, documents, and other evidence in accordance with these procedures and for a minimum of three years after the period of construction and resolution of all relevant claims arising therefrom. To the extent permitted under applicable Federal laws and regulations, the Government and the Local Sponsor shall each allow the other to inspect such books, documents, records, and other evidence.

B. Pursuant to 32 C.F.R. Section 33.26, the Local Sponsor is responsible for complying with the Single Audit Act of 1984, 31 U.S.C. Sections 7501-7507, as implemented by Office of Management and Budget (OMB) Circular No. A-128 and Department of Defense Directive 7600.10. Upon request of the Local Sponsor and to the extent permitted under applicable Federal laws and regulations, the Government shall provide to the Local Sponsor and independent auditors any information necessary to enable an audit of the Local Sponsor's activities under this Agreement.

The costs of any Local audits performed in accordance with this paragraph shall be allocated in accordance with the provisions of OMB Circulars A-87 and A-128, and such costs as are allocated to the Project shall be included in total project costs and cost shared in accordance with the provisions of this Agreement.

C. In accordance with 31 U.S.C. Section 7503, the Government may conduct audits in addition to any audit that the Local Sponsor is required to conduct under the Single Audit Act. Any such Government audits shall be conducted in accordance with Government Auditing Standards and the cost principles in OMB Circular No. A-87 and other applicable cost principles and regulations. The costs of Government audits performed in accordance with this paragraph shall be included in total project costs and cost shared in accordance with the provisions of this Agreement.

#### ARTICLE XI - FEDERAL AND STATE LAWS

In the exercise of their respective rights and obligations under this Agreement, the Local Sponsor and the Government agree to comply with all applicable Federal and State laws and regulations, including, but not limited to, Section 601 of the Civil Rights Act of 1964, Public Law 88-352 (42 U.S.C. 2000d), and Department of Defense Directive 5500.11 issued pursuant thereto, as well as Army Regulations 600-7, entitled "Nondiscrimination on the Basis of Handicap in Programs and Activities Assisted or Conducted by the Department of the Army".

#### ARTICLE XII - RELATIONSHIP OF PARTIES

A. In the exercise of their respective rights and obligations under this Agreement, the Government and the Local Sponsor each act in an independent capacity, and neither is to be considered the officer, agent, or employee of the other.

B. In the exercise of its rights and obligations under this Agreement, neither party shall provide, without the consent of the other party, any contractor with a release that waives or purports to waive any rights such other party may have to seek relief or redress against such contractor either pursuant to any cause of action that such other party may have or for violation of any law.

#### ARTICLE XIII - OFFICIALS NOT TO BENEFIT

No member of or delegate to the Congress, nor any resident commissioner, shall be admitted to any share or part of this Agreement, or to any benefit that may arise therefrom.

#### ARTICLE XIV - TERMINATION OR SUSPENSION

A. If at any time the Local Sponsor fails to fulfill its obligations under Article II.B., II.D., II.E., VI, or XVIII.C. of this Agreement, the Assistant Secretary of the Army for Civil Works shall terminate this Agreement or suspend future performance under this Agreement unless he/she determines that continuation of work on the Project is in the interest of the United States or is necessary in order to satisfy agreements with any other non-Federal interests in connection with the Project.

B. If the Government fails to receive annual appropriations in amounts sufficient to meet Project expenditures for the then-current or upcoming fiscal year, the Government shall so notify the Local Sponsor in writing, and 60 calendar days thereafter either party may elect without penalty to terminate this Agreement or to suspend future performance under this Agreement. In the event that either party elects to suspend future performance under this Agreement pursuant to this paragraph, such suspension shall remain in effect until such time as the Government receives sufficient appropriations or until either the Government or the Local Sponsor elects to terminate this Agreement.

C. In the event that either party elects to terminate this Agreement pursuant to this Article or Article XV of this Agreement, both parties shall conclude their activities relating to the Project and proceed to a final accounting in accordance with Article VI.D. of this Agreement.

D. Any termination of this Agreement or suspension of future performance under this Agreement in accordance with this Article or Article XV of this Agreement shall not relieve the parties of liability for any obligation previously incurred. Any delinquent payment shall be charged interest at a rate, to be determined by the Secretary of the Treasury, equal to 150 per centum of the average bond equivalent rate of the 13-week Treasury bills auctioned immediately prior to the date on which such payment became delinquent, or auctioned immediately prior to the beginning of each additional 3-month period if the period of delinquency exceeds 3 months.

#### ARTICLE XV - HAZARDOUS SUBSTANCES

A. After execution of this Agreement and upon direction by the District Engineer, the Local Sponsor shall perform, or cause to be performed, any investigations for hazardous substances that the Government or the Local Sponsor determines to be necessary to identify the existence and extent of any hazardous substances regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (hereinafter "CERCLA"), 42 U.S.C. Sections 9601-9675, that may exist in, on, or under lands,

easements, and rights-of-way that the Government determines, pursuant to Article III of this Agreement, to be required for the construction, operation, and maintenance of the Project. However, for lands that the Government determines to be subject to the navigation servitude, only the Government shall perform such investigations unless the District Engineer provides the Local Sponsor with prior specific written direction, in which case the Local Sponsor shall perform such investigations in accordance with such written direction. All actual costs incurred by the Local Sponsor for such investigations for hazardous substances shall be included in total project costs and cost shared in accordance with the provisions of this Agreement, subject to an audit in accordance with Article X.C. of this Agreement to determine reasonableness, allocability, and allowability of costs.

B. In the event it is discovered through any investigation for hazardous substances or other means that hazardous substances regulated under CERCLA exist in, on, or under any lands, easements, or rights-of-way that the Government determines, pursuant to Article III of this Agreement, to be required for the construction, operation, and maintenance of the Project, the Local Sponsor and the Government shall provide prompt written notice to each other, and the Local Sponsor shall not proceed with the acquisition of the real property interests until both parties agree that the Local Sponsor should proceed.

C. The Government and the Local Sponsor shall determine whether to initiate construction of the Project, or, if already in construction, whether to continue with work on the Project, suspend future performance under this Agreement, or terminate this Agreement for the convenience of the Government, in any case where hazardous substances regulated under CERCLA are found to exist in, on, or under any lands, easements, or rights-of-way that the Government determines, pursuant to Article III of this Agreement, to be required for the construction, operation, and maintenance of the Project. Should the Government and the Local Sponsor determine to initiate or continue with construction after considering any liability that may arise under CERCLA, the Local Sponsor shall be responsible, as between the Government and the Local Sponsor, for the costs of clean-up and response, to include the costs of any studies and investigations necessary to determine an appropriate response to the contamination. Such costs shall not be considered a part of total project costs. In the event the Local Sponsor fails to provide any funds necessary to pay for clean up and response costs or to otherwise discharge the Local Sponsor's responsibilities under this paragraph upon direction by the Government, the Government may, in its sole discretion, either terminate this Agreement for the convenience of the Government, suspend future performance under this Agreement, or continue work on the Project.

D. The Local Sponsor and the Government shall consult with each other in accordance with Article V of this Agreement in an effort to ensure that responsible parties bear any necessary clean up and response costs as defined in CERCLA. Any decision made pursuant to paragraph C. of this Article shall not relieve any third party from any liability that may arise under CERCLA.

E. As between the Government and the Local Sponsor, the Local Sponsor shall be considered the operator of the Project for purposes of CERCLA liability. To the maximum extent practicable, the Local Sponsor shall operate, maintain, repair, replace, and rehabilitate the Project in a manner that will not cause liability to arise under CERCLA.

#### ARTICLE XVI - NOTICES

A. Any notice, request, demand, or other communication required or permitted to be given under this Agreement shall be deemed to have been duly given if in writing and either delivered personally or by telegram or mailed by first-class, registered, or certified mail, as follows:

If to the Local Sponsor:

City of Victoria  
P.O. Box 1758  
Victoria, Texas 77902

If to the Government:

U. S. Army Engineer District, Galveston  
ATTN: CESWG-DE  
P.O. Box 1229  
Galveston, Texas 77553

B. A party may change the address to which such communications are to be directed by giving written notice to the other party in the manner provided in this Article.

C. Any notice, request, demand, or other communication made pursuant to this Article shall be deemed to have been received by the addressee at the earlier of such time as it is actually received or seven calendar days after it is mailed.

#### ARTICLE XVII - CONFIDENTIALITY

To the extent permitted by the laws governing each party, the parties agree to maintain the confidentiality of exchanged information when requested to do so by the providing party.



ARTICLE XVIII - HISTORIC PRESERVATION

A. The costs of identification, survey and evaluation of historic properties shall be included in total project costs and cost shared in accordance with the provisions of this Agreement.

B. As specified in Section 7(a) of Public Law 93-291 (16 U.S.C. Section 469c(a)), the costs of mitigation and data recovery activities associated with historic preservation shall be borne entirely by the Government and shall not be included in total project costs, up to the statutory limit of one percent of the total amount authorized to be appropriated for the Project.

C. The Government shall not incur costs for mitigation and data recovery that exceed the statutory one percent limit specified in paragraph B. of this Article unless and until the Assistant Secretary of the Army (Civil Works) has waived that limit in accordance with Section 208(3) of Public Law 96-515 (16 U.S.C. Section 469c-2(3)). Any costs of mitigation and data recovery that exceed the one percent limit shall not be included in total project costs but shall be cost shared between the Local Sponsor and the Government consistent with the minimum Local cost sharing requirements for the underlying flood control purpose, as follows: 25 percent borne by the Local Sponsor, and 75 percent borne by the Government.

ARTICLE XIX - LIMITATION ON GOVERNMENT COSTS

The Government's financial participation in the Project is limited to \$5,000,000. Notwithstanding any other provision of this Agreement, the Local Sponsor shall be responsible for all costs in excess of this amount.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, which shall become effective upon the date it is signed by the District Engineer.

THE DEPARTMENT OF THE ARMY

THE CITY OF VICTORIA

BY: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

CERTIFICATE OF AUTHORITY

I, \_\_\_\_\_, do hereby certify that I am the principal legal officer of the City of Victoria, that the City of Victoria is a legally constituted public body with full authority and legal capability to perform the terms of the Agreement between the Department of the Army and the City of Victoria in connection with the Guadalupe River at Victoria, Texas, and to pay damages in accordance with the terms of this Agreement, if necessary, in the event of the failure to perform, as required by Section 221 of Public Law 91-611 (42 U.S.C. Section 1962d-5b), and that the persons who have executed this Agreement on behalf of the City of Victoria have acted within their statutory authority.

IN WITNESS WHEREOF, I have made and executed this certification this \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_.

By: \_\_\_\_\_

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

APPENDIX J

STATEMENT OF FINANCIAL CAPABILITY

## MEMORANDUM FOR CESWG-PL (Keeian)

SUBJECT: Local Sponsor Statement of Financial Capability for the Guadalupe River Levee at Victoria, Texas

1. The City of Victoria, Texas is the local sponsor for the Guadalupe River Levee at Victoria, Texas. As a local sponsor of a Federal project, the City will provide lands, easements, rights-of-ways, relocations, and disposal areas (LERRD's), as required for project construction, which have an estimated value of \$1,304,000. In addition, the City will provide a cash contribution toward project construction in the amount of \$3,832,000.

2. The City of Victoria has already set aside \$500,758 toward project construction as part of the City's 1991 Series General Obligation Bond issuance. The City intends to finance the remaining cash requirement of \$3,331,242 with the sale of other general obligation bonds following a public referendum in early 1996. As with its prior issuances, these bonds will be backed by the City's full faith, credit, and taxing power. The tax base against which this pledge would be made exceeded \$ 1.64 billion in 1995 which constitutes an increase of 5.2 percent over the 1994 tax base.

3. The City's current general obligation bond rating by both Standard and Poor's and Moody's Investors is "A," which, while not the highest rating on the market, indicates a strong capacity to pay interest and repay principal with some limited expectation of risk. It is assumed that the City will not only finance its cash contribution but will also establish a sinking fund containing one year's principal and interest payment as an assurance of timely repayment. Therefore, the amount financed through the sale of additional general obligation bonds is projected to be \$3,598,549. Based on the City's healthy bond rating, an associated interest rate of 5.0 percent, and the establishment of a sinking fund, the City could retire the debt with annual payments of \$288,757 over a twenty-year period.

4. The City of Victoria is currently making payments of \$4.5 million annually to retire \$32.6 million in outstanding general obligation debt. In order to generate sufficient revenues for repayment of this debt, the City assigned to debt retirement \$0.28 of its Fiscal Year 1994-1995 tax levy of \$0.71 per \$100 valuation. The debt incurred with project construction would increase the City's dedicated debt-retirement tax levy to \$0.298 per \$100 valuation for an incremental tax increase of approximately \$0.0176 per \$100 valuation. The increased tax burden of project-induced debt will increase the

CESWG-PL-R

SUBJECT: Local Sponsor Statement of Financial Capability for the  
Guadalupe River Levee at Victoria, Texas

direct net debt per capita on City residents from \$554 to \$560. The overall net debt per capita from all local taxing entities with taxing authority over the property within the City will increase from \$1,040 to \$1,046 with the additional \$3.6 million bond issuance.

5. The addition of \$3.6 million in general obligation debt is not expected to produce any change in the City's overall financial condition, as noted in the enclosed worksheets. This increase in Victoria's tax rate would not exceed any statutory or policy limitations imposed by the State or City Charter on the City's bonded indebtedness. This plan appears to be financially sound, generating the required capital to meet the obligations of the local sponsor to the Federal government.

Encls

RICHARD MEDINA  
Chief, Environmental  
Resources Branch

CF (w/ Encls):

✓ PL-C, Morris

## FINANCIAL CAPABILITY ANALYSIS

based on EPA's Financial Capability Guidebook, March 1984

worksheet #5

item no.	title	value
a. Bond Rating		
500	general obligation bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94
501	revenue bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94
b. Debt		
502	general obligation bonds	
	outstanding	\$32,630,000
	this project	
	total	\$32,630,000
503	revenue bonds	
	outstanding	\$17,873,983
	this project	
	total	\$17,873,983
504	gross direct debt	
	outstanding	\$50,503,983
	this project	\$0
	total	\$50,503,983
505	direct net debt (gross direct debt less debt that is self-supporting and double-barreled bonds)	
	outstanding	\$32,630,000
	this project	\$0
	total	\$32,630,000
506	overlapping net debt (proportionate share of tax-supported debt of all local government units borne by property or persons)	
	outstanding	\$28,634,464
	total	\$28,634,464
507	overall net debt	
	outstanding	\$61,264,464
	this project	\$0
	total	\$61,264,464
508	other debt (outstanding leases, unfunded pension liabilities, notes with maturities exceeding one year)	
509	new debt for other capital improvements	\$0

## c. Debt Repayment Schedule

for direct net debt within next five years

510	year 1-1995		
	existing debt		\$2,920,000
	this project		
	total		\$2,920,000
511	year 2-1996		
	existing debt		\$3,080,000
	this project		
	total		\$3,080,000
512	year 3-1997		
	existing debt		\$3,265,000
	this project		
	total		\$3,265,000
513	year 4-1997		
	existing debt		\$3,480,000
	this project		
	total		\$3,480,000
514	year 5-1998		
	existing debt		\$3,750,000
	this project		
	total		\$3,750,000
515	total direct net debt due within next 5 years		\$16,495,000

## d. Debt Limits

516	Description of debt limitations		
	The Attorney General of the State of Texas , as a matter of policy, will not approve the issuance of bonds where total debt service of all tax supported debt requires a tax rate of more than \$1.50 per \$100 assessed valuation....		
	The City Charter authorizes a tax rate of only \$2.00 per \$100 valuation with no internal limits as to purpose.		
517	percentage of debt limit used for existing debt and project debt		18.7%



worksheet #6		
item no.	title	value
Indicator 1		
600	population-1990	55,000
601	current population-1993	58,906
602	average annual rate of change in population	2.3%
Indicator 2 for Fiscal Year 1994-1995		
603	property tax receipts	\$11,126,454
604	other revenues	\$31,497,618
605	total current revenues	\$42,624,072
606	operating expenditures	\$35,533,888
607	debt service payments	\$7,090,184
608	total current expenditures	\$42,624,072
609	current surplus (deficit)	\$0
610	current operating surplus (deficit) as a percentage of total current expenditures	\$0
Indicator 3		
611	real property tax collection rate-1993	92.8%
Indicator 4		
612	total assessed value of real property less deductions	\$1,640,926,060
613	current assessment ratio (\$?.?? per \$100) Fiscal Year 1994-95	\$0.71
614	full market value of real property	\$1,640,926,060
615	property tax revenues as a percentage of full market value of real property	0.68%
Indicator 5		
616	overall net debt as a percentage of full market value of real property	3.7%
Indicator 6		
617	per capita income-1989	\$12,332
618	total personal income	\$726,428,792
619	overall net debt as a percentage of total personal income	8.4%
Indicator 7		
620	direct net debt outstanding per capita	\$554
Indicator 8		
621	overall net debt outstanding per capita	\$1,040
Indicator 9		
622	direct net debt due within 5 years as a percentage of direct net debt due	50.6%

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 SUPPLEMENTAL INFORMATION SHEET

## What is the Community's Debt History?

## a. Bond Rating

500	general obligation bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94
501	revenue bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94

## b. Outstanding Debt

502	general obligation bonds	
	outstanding	\$32,630,000
	this project	\$0
	total	\$32,630,000
503	revenue bonds	
	outstanding	\$17,873,983
	this project	\$0
	total	\$17,873,983
504	gross direct debt	
	outstanding	\$50,503,983
	this project	\$0
	total	\$50,503,983
505	direct net debt (gross direct debt less debt that is self-supporting and double-barreled bonds)	
	outstanding	\$32,630,000
	this project	\$0
	total	\$32,630,000
506	overlapping net debt (proportionate share of tax-supported debt of all local government units borne by property or persons)	
	outstanding	\$28,634,464
	total	\$28,634,464
507	overall net debt	
	outstanding	\$61,264,464
	this project	\$0
	total	\$61,264,464
508	other debt (outstanding leases, unfunded pension liabilities, notes with maturities exceeding one year)	\$0
509	new debt for other capital improvements	\$0

## c. Debt Repayment Schedule

515	total direct net debt due within next 5 years	\$16,495,000
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## d. Debt Limits

516	Description of debt limitations The Attorney General of the State of Texas , as a matter of policy, will not approve the issuance of bonds where total debt service of all tax supported debt requires a tax rate of more than \$1.50 per \$100 assessed valuation.... The City Charter authorizes a tax rate of only \$2.00 per \$100 valuation with no internal limits as to purpose.	
517	percentage of debt limit used for existing debt and project debt	18.7%

What Is the Community's Financial Condition?

Indicator	Indicator Value	Indicator Rating		
		Weak	Average	Strong
1. Annual rate of change in population	2.3%	below -1%	-1% to 1%	above 1%
2. Current surplus as a % of total current expenditures	0.0%	below 0%	0% to 5%	above 5%
3. Real property tax collection rate	92.8%	below 96%	96% to 98%	above 98%
4. Property tax revenues as a % of full market value of real property	0.7%	above 4%	2% to 4%	below 2%
5. Overall net debt as a % of full market value of real property	3.7%	above 5%	3% to 5%	below 3%
6. Overall net debt outstanding as a % of personal income	8.4%	above 12%	4% to 12%	below 4%
7. Direct net debt per capita	\$554	above \$750	\$250 to \$750	below \$250
8. Overall net debt per capita	\$1,040	above \$1000	\$450 to \$1000	below \$450
9. Percent direct net debt outstanding due within next 5 years	50.6%	below 10%	10% to 30%	above 30%

## worksheet #5

item no.	title	value
<b>a. Bond Rating</b>		
500	general obligation bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94
501	revenue bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94
<b>b. Debt</b>		
502	general obligation bonds	
	outstanding	\$32,630,000
	this project	\$331,242
	total	\$32,961,242
503	revenue bonds	
	outstanding	\$17,873,983
	this project	\$0
	total	\$17,873,983
504	gross direct debt	
	outstanding	\$50,503,983
	this project	\$331,242
	total	\$50,835,225
505	direct net debt (gross direct debt less debt that is self-supporting and double-barreled bonds)	
	outstanding	\$32,630,000
	this project	\$331,242
	total	\$32,961,242
506	overlapping net debt (proportionate share of tax-supported debt of all local government units borne by property or persons)	
	outstanding	\$28,634,464
	total	\$28,634,464
507	overall net debt	
	outstanding	\$61,264,464
	this project	\$331,242
	total	\$61,595,706
508	other debt (outstanding leases, unfunded pension liabilities, notes with maturities exceeding one year)	
509	new debt for other capital improvements	\$0

## c. Debt Repayment Schedule

for direct net debt within next five years

510	year 1-1995		
	existing debt	\$2,920,000	
	this project	\$0	
	total	\$2,920,000	
511	year 2-1996		
	existing debt	\$3,080,000	
	this project	\$100,745	
	total	\$3,180,745	
512	year 3-1997		
	existing debt	\$3,265,000	
	this project	\$105,783	
	total	\$3,370,783	
513	year 4-1997		
	existing debt	\$3,480,000	
	this project	\$111,072	
	total	\$3,591,072	
514	year 5-1998		
	existing debt	\$3,750,000	
	this project	\$116,625	
	total	\$3,866,625	
515	total direct net debt due within next 5 years	\$16,929,225	

## d. Debt Limits

516	Description of debt limitations	
	The Attorney General of the State of Texas , as a matter of policy, will not approve the issuance of bonds where total debt service of all tax supported debt requires a tax rate of more than \$1.50 per \$100 assessed valuation....	
	The City Charter authorizes a tax rate of only \$2.00 per \$100 valuation with no internal limits as to purpose.	
517	percentage of debt limit used for existing debt and project debt	19.8%

## CITY OF VICTORIA, TEXAS WITH LEVEE PROJECT

05/29/95

worksheet #6

item no.	title	value
Indicator 1		
600	population-1990	55,000
601	current population-1993	58,906
602	average annual rate of change in population	2.3%
Indicator 2 for Fiscal Year 1994-1995		
603	property tax receipts	\$11,126,454
604	other revenues	\$31,497,618
605	total current revenues	\$42,624,072
606	operating expenditures	\$35,533,888
607	debt service payments	\$7,090,184
608	total current expenditures	\$42,624,072
609	current surplus (deficit)	\$0
610	current operating surplus (deficit) as a percentage of total current expenditures	\$0
Indicator 3		
611	real property tax collection rate-1993	92.8%
Indicator 4		
612	total assessed value of real property less deductions	\$1,640,926,060
613	current assessment ratio (\$?.?? per \$100) Fiscal Year 1994-95	\$0.71
614	full market value of real property	\$1,640,926,060
615	property tax revenues as a percentage of full market value of real property	0.68%
Indicator 5		
616	overall net debt as a percentage of full market value of real property	3.8%
Indicator 6		
617	per capita income-1989	\$12,332
618	total personal income	\$726,428,792
619	overall net debt as a percentage of total personal income	8.5%
Indicator 7		
620	direct net debt outstanding per capita	\$560
Indicator 8		
621	overall net debt outstanding per capita	\$1,046
Indicator 9		
622	direct net debt due within 5 years as a percentage of direct net debt due	51.4%

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**SUPPLEMENTAL INFORMATION SHEET**

What is the Community's Debt History?

**a. Bond Rating**

500	general obligation bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94
501	revenue bond rating	S&P: A; MOODY'S: A
	date of rating	OCT. 94

**b. Outstanding Debt**

502	general obligation bonds	
	outstanding	\$32,630,000
	this project	\$331,242
	total	\$32,961,242
503	revenue bonds	
	outstanding	\$17,873,983
	this project	\$0
	total	\$17,873,983
504	gross direct debt	
	outstanding	\$50,503,983
	this project	\$331,242
	total	\$50,835,225
505	direct net debt (gross direct debt less debt that is self-supporting and double-barreled bonds)	
	outstanding	\$32,630,000
	this project	\$331,242
	total	\$32,961,242
506	overlapping net debt (proportionate share of tax-supported debt of all local government units borne by property or persons)	
	outstanding	\$28,634,464
	total	\$28,634,464
507	overall net debt	
	outstanding	\$61,264,464
	this project	\$331,242
	total	\$61,595,706
508	other debt (outstanding leases, unfunded pension liabilities, notes with maturities exceeding one year)	\$0
509	new debt for other capital improvements	\$0

**c. Debt Repayment Schedule**

515	total direct net debt due within next 5 years	\$16,929,225
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**d. Debt Limits**

516	Description of debt limitations The Attorney General of the State of Texas , as a matter of policy, will not approve the issuance of bonds where total debt service of all tax supported debt requires a tax rate of more than \$1.50 per \$100 assessed valuation.... The City Charter authorizes a tax rate of only \$2.00 per \$100 valuation with no internal limits as to purpose.	
517	percentage of debt limit used for existing debt and project debt	19.8%

What is the Community's Financial Condition?

Indicator	Indicator Value	Indicator Rating		
		Weak	Average	Strong
1. Annual rate of change in population	2.3%	below -1%	-1% to 1%	above 1% *
2. Current surplus as a % of total current expenditures	0.0%	below 0%	0% to 5%	* above 5%
3. Real property tax collection rate	92.8%	below 96%	96% to 98%	above 98%
4. Property tax revenues as a % of full market value of real property	0.7%	above 4%	2% to 4%	below 2% *
5. Overall net debt as a % of full market value of real property	3.8%	above 5%	3% to 5%	* below 3%
6. Overall net debt outstanding as a % of personal income	8.5%	above 12%	4% to 12%	* below 4%
7. Direct net debt per capita	\$560	above \$750	\$250 to \$750	* below \$250
8. Overall net debt per capita	\$1,046	above \$1000	\$450 to \$1000	below \$450
9. Percent direct net debt outstanding due within next 5 years	51.4%	below 10%	10% to 30%	above 30% *



GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

Section 205 Small Flood Control Project

APPENDIX K

LETTER OF INTENT



CITY OF VICTORIA

Established 1824. Founded By Congress. Republic of Texas. 1839

ENGINEERING DEPARTMENT  
700 Main Center, Suite 115  
P. O. Box 1758, Victoria, Texas 77902-1758

Telephone: 512/572-2722  
Facsimile: 512/572-6739

September 6, 1995

REF: ENGR-L95-150

Mr. James M. Kieslich  
Chief, Planning and Environmental Division  
Department of the Army  
Galveston District, Corps of Engineers  
P.O. Box 1229  
Galveston, Texas 77553-1229

RE: Victoria Levee Project  
Financial Capability

Dear James:

It is my understanding that the City Manager of the City of Victoria intends to propose to the City Council financing the City's share ( $\pm$ \$3,832,000) of the subject project through the sale of general obligation bonds subject to voter approval at an election. The specific date to propose for holding the general obligation bond election is currently in the formulation stage.

On August 29, 1995 the City of Victoria Council voted to hold an election November 7, 1995, to approve an additional  $\frac{1}{2}\%$  sales tax to finance needed City infrastructure improvements. The scope and timing of a proposal of a general obligation bond election, which will include the financing of the Victoria Levee Project, will be subject to the success or failure of the  $\frac{1}{2}\%$  sales tax election. The Mayor has indicated that the City Council will not be in a position to decide when the general obligation bond election will be held until after January 1996.

We understand that your office is in receipt of one copy each of the City of Victoria's 1993/94 and 1994/95 Budgets. Please contact us if any additional information is needed from our office.

John A. Johnston, P.E.  
Director of Public Works

cc: Denny L. Arnold, City Manager  
Teresa A. Special, City Attorney  
Mary A. Ross, Director of Finance

GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)

.Section 205 Small Flood Control Project

APPENDIX L

ABBREVIATIONS

**GUADALUPE RIVER AT VICTORIA, TEXAS  
DETAILED PROJECT REPORT  
(Victoria Levee)**

Section 205 Small Flood Control Project

<u>Abbreviation</u>	<u>Term</u>
AAD	Average Annual Damages
B/C	Benefit-to-Cost Ratio
CEQ	Council on Environmental Quality
CFS	Cubic feet per second
DPR	Detailed Project Report
EA	Environmental Assessment
EQ	Environmental Quality
FEMA	Federal Emergency Management Agency
FT	Feet
FY	Fiscal Year
HEC	Hydrologic Engineering Center
HTW	Hazardous and Toxic Wastes
LCA	Local Cooperation Agreement
LERRD	Lands, Easements, Rights-of-way, Relocations, and Disposal Areas
M-CASES	Micro-Computer Aided Cost Estimate System
NED	National Economic Development
NEPA	National Environmental Policy Act
NGVD	National Geodetic Vertical Datum
OSE	Other Social Effects
RC	Resource Category
RED	Regional Economic Development
SCS	Soil Conservation Service
SHPO	Historical Preservation Officer
SMT	Study Management Team
TACB	Texas Air Control Board
TP40	Technical Paper Number 40
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey