

## APPENDIX K

### COST ESTIMATING

This appendix provides a detailed cost estimate for the Recommended Plan. Estimates are presented in the standard Code of Accounts from the MCACES Models Database. Table K-1 presents a comparative summary between the costs as shown in the MCACES, at April 1998 price levels, and the costs as updated to reflect October 1998 price levels. These updated (October 1998) costs are used in the final project economic analyses and cost apportionment calculations, as presented in Chapter 6 of the main report. Documentation for these summaries is presented by detailed account number. The MCACES estimate does not include the costs of the previously constructed non-Federal levees; however, these costs are shown in table K-1.

**Table K-1**  
**Project Cost Summary - Recommended Plan**  
*(April 1998 price levels vs. October 1998 price levels)*

Account No.	Description	Construction (April 1998)	Contingency (April 1998)	Total (April 1998)	Total (October 1998)
01	Lands and Damages	\$20,227,500	\$5,025,400	\$25,252,900	\$26,696,000
02	Relocations	\$4,575,300	\$1,228,700	\$5,804,000	\$5,906,600
06	Fish and Wildlife Facilities	\$377,300	\$94,300	\$471,600	\$479,900
09	Channels and Canals	\$24,014,000	\$5,304,800	\$29,318,800	\$29,832,000
11	Levees and Floodways	\$13,626,800	\$3,305,500	\$16,932,300	\$17,226,900
16	Recreation Facilities	\$4,068,200	\$1,226,300	\$5,294,500	\$5,387,200
18	Cultural Resource Preservation	\$750,000	\$187,500	\$937,500	\$950,000
30	Planning, Engineering and Design	\$9,842,600	\$1,832,800	\$11,675,400	\$11,879,800
31	Construction Management	\$5,366,800	\$1,341,700	\$6,708,500	\$6,826,900
	<b>Totals</b>	<b>\$82,848,300</b>	<b>\$19,547,200</b>	<b>\$102,395,500</b>	<b>\$104,184,300</b>
	Compatible Non-Federal Levees	\$23,120,000	\$0	\$23,120,000	\$23,120,000
	<b>Total Project Costs</b>	<b>\$105,968,300</b>	<b>\$19,547,200</b>	<b>\$125,515,500</b>	<b>\$127,304,300</b>

## **GENERAL NARRATIVE**

This estimate was prepared using current guidelines and directives. All quantities of work required for the construction cost estimate were determined by the designers and the estimate of costs for Accounts No. 01, 06, 30, 31 and 32 were determined by the appropriate parties within the Fort Worth District, or by others who were acting for these parties, and will be identified in other sections of the narrative. The estimate is organized as required by EC-110-2-538, Civil Works Project Cost Estimating - Code of Accounts as amended by CERM-FC, dated 29 Sep 1989, Subject Civil Works Construction Estimating.

Direct cost unit prices were developed by the estimators or based on the Corps of Engineers Unit Price Book where this was expedient. In some instances prices from widely published estimating guides were used as were prices from previous projects with comparable items of construction cost.

The estimate for the Dallas Floodway Extension was created in MCACES version 5.30. It utilizes the most recent Unit Price Book, Crew Database, Equipment rates and current wage rates and materials costs. The estimate was prepared in the current Code of Accounts. Utilizing all levels of the Code of Accounts caused the overall cost of some items to be "broken up" into different account areas. As an example, the piping cost is a combination of account 0203180201, Trenching (and backfill), account 0203180203, Bedding, and account 0203181501, Piping. The items primarily affected are piping (as explained) and concrete structures (concrete and reinforcing shown separately). To figure the cost of an item, it is necessary to sum all items in the various accounts that are identified by the same station number (i.e. Cadillac (STA. 94+00) 15" SS) to identify the cost of the 15" Sanitary Sewer at Sta. 94+00 on the Cadillac Levee. For ease in applying varying contingency amounts, two estimates were prepared. The first estimate was prepared without contingencies and the second with the contingencies applied as separate fields in the prime contractors markup. This method of applying contingencies is the reason for the use of so many prime contractors codes.

The following sections provide information on the development of costs for the various cost account codes presented in the MCACES.

### **Account 01 - Real Estate**

Costs for this account were supplied by Real Estate Division. Property values included in the cost estimate are based on a Gross Appraisal dated April 14, 1997, prepared by a Fort Worth District Staff Appraiser. The appraisal was reviewed and approved by a Reviewing Appraiser in Corps of Engineers Headquarters, Washington, DC on May 30, 1997. The appraisal was supplemented to provide a value estimate for mitigation lands and the supplement was approved after a verbal delegation of authority from HQUSACE. Data from this supplement has been included in the following cost estimates. Contingencies range from 10% to 25%, as per guidance.

### **Account 02 - Relocations**

The extent to which existing facilities are expected to be affected by this project were determined by detailed surveys and field investigations. Relocation requirements and related quantities were developed by the Relocations Unit of the Civil Design Branch and coordinated through the City of Dallas and the various utility owners.

Some underground pipe and other structures will be required. For this a large amount of trenching and other excavation will be necessary. The estimated excavation direct cost unit price used is made up of three things; the cost of more difficult work near the bottom of the excavation, the cost between this and the surface of the ground and the cost of backfilling or disposing of all excavated material. Contingencies range from 25% to 40% for this account.

### **Account 06 - Fish and Wildlife (Environmental Restoration) Features**

Costs for this account were developed and furnished by elements of Environmental Division. The estimate was prepared anticipating the use of current practices for the establishment of vegetation in the project and mitigation areas. Prices include initial development for improvement of bottomland hardwoods, conversion of grasslands to bottomland hardwoods, and fencing/signage. Contingencies of 25%, based on findings in previously constructed projects, were used. The amounts attributed to each project feature are shown separately in Appendix F.

### **Account 09 - Channels and Canals, and Account 11 - Levees and Floodwalls**

The items of work and the respective quantities used in the estimate of cost presented under these account codes are considered reliable for this stage of design and were priced accordingly. Allowances for contingencies were based on there being only routine construction problems other than those discussed in this narrative.

The prices developed are based on using ordinary construction methods and equipment routinely owned by or available to contractors capable of handling projects of this magnitude. It has been assumed that not all the work will be on one contract or handled by one contractor, but it has been assumed that regardless of the contractual arrangements large and well equipped organizations will be needed.

Ground water is to be expected, but is considered to be manageable without extremely expensive arrangements such as well point systems.

Different kinds of equipment, such as off-road and highway hauling equipment, would likely be used. A 15% compaction rate was used to calculate quantities of material needed for complete in place measurements of fill.

Excess material was estimated as being disposed of beyond the project limits. The maximum one-way haul to a disposal site is 13.5 miles. The minimum haul on the job is 0.1 mile. The average haul for all materials is approximately 5.5 miles.

A contingency of 25% - 35% is recommended for Accounts 09 and 11.

### **Account 14 - Recreation Facilities**

The quantities used and the items of work listed under this account code were considered reliable for this stage of design and were priced accordingly.

The quantities of concrete and reinforcing steel cause the hike and bike trail to be a big item. Although both items appear to be correct, the weight of reinforcing steel could be reduced considerably if #3 bar at 0.376#/lf were used in lieu of the #4 bars at 0.668#/lf, but the total direct cost of the reinforcing steel, complete in place, could be expected to be only 2.3% less than the cost of #4 bars at 0.668#/lf upon which the estimate is based. This is because it costs much more per pound to tie and place the very light # 3 bars.

Because of the conservative design, a 20% is allowed for contingencies on Account 14.

### **Account 30 - Planning, Engineering, and Design**

Costs for this account were developed by applicable elements of the Fort Worth District and reflect and appropriate level of detail. Costs are consistent with historical data from other projects of a similar size and detail. A contingency of 25% was used for this line item and is considered adequate.

### **Account 31 - Construction Management**

Costs for this account were based on an anticipated length of construction and adjusted based on historical data for jobs of this size and scope. A contingency of 25% was used for this line item and is considered adequate.

Sat 16 Jan 1999  
Eff. Date 04/02/98

Tri-Service Automated Cost Estimating System (TRACES)  
PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
WITH CONTINGENCIES

16:14:58

TITLE PAGE 1

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DALLAS FLOODWAY EXTENSION LPP

Designed By: CESWF-EC  
Estimated By: CESWF-EC-CE

Prepared By: SEARS/KEENE/MASSEY

Preparation Date: 04/02/98  
Effective Date of Pricing: 04/02/98

Sales Tax: 0.00%

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Release 1.2

LABOR ID: DFWTEX EQUIP ID: FEDC95

Currency in DOLLARS

CREW ID: FEDC95 UPB ID: FEDC95

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 \*\* PROJECT INDIRECT SUMMARY - Level 6 \*\*

	QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
01 Lands and Damages										
01_AA CHAIN OF WETLANDS										
01_AA.23 Constructn Contract(s) Documnts										
01_AA.23.03 Real Estate Analysis Documents										
01_AA.23.03_01 Real Estate Planning Documents										
01_AA.23.03_01_001			2,000	0	0	0	0	400	2,400	
01_AA.23.03_01_002			500	0	0	0	0	100	600	
TOTAL Real Estate Planning Documents			2,500	0	0	0	0	500	3,000	
01_AA.23.03_02 Real Estate Acquisition Documnts										
01_AA.23.03_02_001			63,000	0	0	0	0	12,600	75,600	
01_AA.23.03_02_002			5,400	0	0	0	0	1,080	6,480	
TOTAL Real Estate Acquisition Documnts			68,400	0	0	0	0	13,680	82,080	
01_AA.23.03_03 Real Estate Condemnatn Documents										
01_AA.23.03_03_001			72,000	0	0	0	0	18,000	90,000	
01_AA.23.03_03_002			1,800	0	0	0	0	450	2,250	
TOTAL Real Estate Condemnatn Documents			73,800	0	0	0	0	18,450	92,250	
01_AA.23.03_05 Real Estate Appraisal Documents										
01_AA.23.03_05_001			20,000	0	0	0	0	2,000	22,000	
01_AA.23.03_05_002			3,000	0	0	0	0	300	3,300	
TOTAL Real Estate Appraisal Documents			23,000	0	0	0	0	2,300	25,300	
01_AA.23.03_15 Real Estate Payment Documents										
01_AA.23.03_15_001			9,643,200	0	0	0	0	2,410,800	12,054,000	
01_AA.23.03_15_002			964,320	0	0	0	0	241,080	1,205,400	
01_AA.23.03_15_004			5,000	0	0	0	0	1,250	6,250	
TOTAL Real Estate Payment Documents			10,612,520	0	0	0	0	2,653,130	13,265,650	
01_AA.23.03_17			1,000	0	0	0	0	100	1,100	

		QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL Real Estate Analysis Documents		1.00		10,781,220	0	0	0	0	2,688,160	13,469,380	13469380
TOTAL Constructn Contract(s) Documnts		1.00	EA	10,781,220	0	0	0	0	2,688,160	13,469,380	13469380
TOTAL CHAIN OF WETLANDS				10,781,220	0	0	0	0	2,688,160	13,469,380	
01_BB CADILLAC HEIGHTS SPF LEVEE											
01_BB.23 Constructn Contract(s) Documnts											
01_BB.23.03 Real Estate Analysis Documents											
01_BB.23.03_01 Real Estate Planning Documents											
01_BB.23.03_01_001	PLANNING BY LOCAL SPONSOR			4,000	0	0	0	0	800	4,800	
01_BB.23.03_01_002	REVIEW BY LOCAL SPONSOR			1,000	0	0	0	0	200	1,200	
TOTAL Real Estate Planning Documents				5,000	0	0	0	0	1,000	6,000	
01_BB.23.03_02 Real Estate Acquisition Documnts											
01_BB.23.03_02_001	ACQUISITION BY LOCAL SPONSOR			70,000	0	0	0	0	14,000	84,000	
01_BB.23.03_02_002	REVIEW OF LOCAL SPONSOR			6,000	0	0	0	0	1,200	7,200	
TOTAL Real Estate Acquisition Documnts				76,000	0	0	0	0	15,200	91,200	
01_BB.23.03_03 Real Estate Condemnatn Documents											
01_BB.23.03_03_001	CONDEMNATIONS BY LOCAL SPONSOR			24,000	0	0	0	0	6,000	30,000	
01_BB.23.03_03_002	REVIEW OF LOCAL SPONSOR			600	0	0	0	0	150	750	
TOTAL Real Estate Condemnatn Documents				24,600	0	0	0	0	6,150	30,750	
01_BB.23.03_05 Real Estate Appraisal Documents											
01_BB.23.03_05_001	APPRAISALS BY LOCAL SPONSOR			22,000	0	0	0	0	2,200	24,200	
01_BB.23.03_05_002	REVIEW OF LOCAL SPONSOR			3,200	0	0	0	0	320	3,520	
TOTAL Real Estate Appraisal Documents				25,200	0	0	0	0	2,520	27,720	
01_BB.23.03_06 Real Estate PL 91-646 Asst. Docs											
01_BB.23.03_06_001	PL 91-646 ASST BY LOCAL SPONSOR			10,000	0	0	0	0	2,500	12,500	
01_BB.23.03_06_002	REVIEW OF LOCAL SPONSOR			1,000	0	0	0	0	250	1,250	
TOTAL Real Estate PL 91-646 Asst. Docs				11,000	0	0	0	0	2,750	13,750	

		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
-----											
01_BB.23.03_15 Real Estate Payment Documents											
01_BB.23.03_15_001	PAYMENTS BY LOCAL SPONSOR (LAND)	2,059,870		0	0	0	0	0	514,968	2,574,838	
01_BB.23.03_15_002	PAYMENTS-LOCAL SPONSOR (DAMAGES)	205,987		0	0	0	0	0	51,497	257,484	
01_BB.23.03_15_003	PAYMENTS-LOCAL SPONSOR (PL91-646	2,415,830		0	0	0	0	0	603,958	3,019,788	
01_BB.23.03_15_004	REVIEW OF LOCAL SPONSOR	3,000		0	0	0	0	0	750	3,750	
TOTAL Real Estate Payment Documents		4,684,687		0	0	0	0	0	1,171,172	5,855,859	
-----											
01_BB.23.03_17 RealEstate LERRD Crediting Docs											
TOTAL Real Estate Analysis Documents		1,000		0	0	0	0	0	100	1,100	
-----											
TOTAL Constructn Contract(s) Documnts		1.00 EA		4,827,487	0	0	0	0	1,198,892	6,026,379	6026379
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TOTAL CADILLAC HEIGHTS SPF LEVEE		4,827,487		0	0	0	0	0	1,198,892	6,026,379	
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01_CC LAMAR STREET LEVEE											
01_CC.23 Constructn Contract(s) Documnts											
01_CC.23.03 Real Estate Analysis Documents											
01_CC.23.03_01 Real Estate Planning Documents											
01_CC.23.03_01_001	PLANNING BY LOCAL SPONSOR	2,000		0	0	0	0	0	400	2,400	
01_CC.23.03_01_002	REVIEW BY LOCAL SPONSOR	500		0	0	0	0	0	100	600	
TOTAL Real Estate Planning Documents		2,500		0	0	0	0	0	500	3,000	
-----											
01_CC.23.03_02 Real Estate Acquisition Documnts											
01_CC.23.03_02_001	ACQUISITION BY LOCAL SPONSOR	147,000		0	0	0	0	0	29,400	176,400	
01_CC.23.03_02_002	REVIEW OF LOCAL SPONSOR	12,600		0	0	0	0	0	2,520	15,120	
TOTAL Real Estate Acquisition Documnts		159,600		0	0	0	0	0	31,920	191,520	
-----											
01_CC.23.03_03 Real Estate Condemnatn Documents											
01_CC.23.03_03_001	CONDEMNATIONS BY LOCAL SPONSOR	108,000		0	0	0	0	0	27,000	135,000	
01_CC.23.03_03_002	REVIEW OF LOCAL SPONSOR	2,600		0	0	0	0	0	650	3,250	
TOTAL Real Estate Condemnatn Documents		110,600		0	0	0	0	0	27,650	138,250	
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01_CC.23.03_05 Real Estate Appraisal Documents											
01_CC.23.03_05_001	APPRAISALS BY LOCAL SPONSOR	46,000		0	0	0	0	0	4,600	50,600	



		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
01_CC.23.03_05_002	REVIEW OF LOCAL SPONSOR			6,800	0	0	0	0	680	7,480	
	TOTAL Real Estate Appraisal Documents			52,800	0	0	0	0	5,280	58,080	
01_CC.23.03_06	Real Estate PL 91-646 Asst. Docs										
01_CC.23.03_06_001	PL 91-646 ASST BY LOCAL SPONSOR			5,000	0	0	0	0	1,250	6,250	
01_CC.23.03_06_002	REVIEW OF LOCAL SPONSOR			500	0	0	0	0	125	625	
	TOTAL Real Estate PL 91-646 Asst. Docs			5,500	0	0	0	0	1,375	6,875	
01_CC.23.03_15	Real Estate Payment Documents										
01_CC.23.03_15_001	PAYMENTS BY LOCAL SPONSOR (LAND)			3,165,230	0	0	0	0	791,308	3,956,538	
01_CC.23.03_15_002	PAYMENTS-LOCAL SPONSOR (DAMAGES)			316,523	0	0	0	0	79,131	395,654	
01_CC.23.03_15_003	PAYMENTS-LOCAL SPONSOR (PL91-646)			800,000	0	0	0	0	200,000	1,000,000	
01_CC.23.03_15_004	REVIEW OF LOCAL SPONSOR			4,000	0	0	0	0	1,000	5,000	
	TOTAL Real Estate Payment Documents			4,285,753	0	0	0	0	1,071,438	5,357,191	
01_CC.23.03_17	RealEstate LERRD Crediting Docs			2,000	0	0	0	0	200	2,200	
01_CC.23.03_18	Real Estate All Other Documents										
	TOTAL Real Estate Analysis Documents			4,618,753	0	0	0	0	1,138,363	5,757,116	
	TOTAL Constructn Contract(s) Documnts	1.00	EA	4,618,753	0	0	0	0	1,138,363	5,757,116	5757116
	TOTAL LAMAR STREET LEVEE			4,618,753	0	0	0	0	1,138,363	5,757,116	
	TOTAL Lands and Damages	1.00	EA	20,227,460	0	0	0	0	5,025,415	25,252,875	252875
02	Relocations										
02_03	Cemetery, Utilities, & Structure										
02_03.18	Utilities										
02_03.18.02	Site Work										
02_03.18.02_01	Trench Excavation										
02_03.18.02_01_001	CADILLAC (STA 94+00) 15" SS	296.00	CY	2,829	481	99	341	19	1,508	5,277	17.83
02_03.18.02_01_002	CADILLAC (STA 102+00) 8" SS	158.00	CY	1,510	257	53	182	10	805	2,817	17.83
02_03.18.02_01_003	CADILLAC (STA 112+00) 10" SS	210.00	CY	2,007	341	70	242	13	1,070	3,744	17.83
02_03.18.02_01_004	CADILLAC (STA 98+00) 8" SS	79.00	CY	755	128	27	91	5	402	1,408	17.83
02_03.18.02_01_005	CADILLAC (STA 34+00) 15" SS	300.00	CY	2,868	487	101	346	19	1,528	5,348	17.83
02_03.18.02_01_006	CADILLAC (STA 81+00) 12" SS	356.00	CY	3,403	578	119	410	23	1,813	6,347	17.83
02_03.18.02_01_007	CADILLAC (STA 43+00) 12" SS	213.00	CY	2,036	346	71	245	13	1,085	3,797	17.83

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLDWYWAY EXTENSION LPP  
 WITH CONTINGENCIES  
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			QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
02_03.18.02_01_008	CADILLAC (STA 26+00)	10" SS	185.00	CY	1,768	301	62	213	12	942	3,298	17.83
02_03.18.02_01_009	CADILLAC (STA 66+00)	10" SS	798.00	CY	7,628	1,297	268	919	51	4,065	14,226	17.83
02_03.18.02_01_010	CADILLAC (STA 75+80)	12" SS	168.00	CY	1,606	273	56	194	11	856	2,995	17.83
02_03.18.02_01_011	CADILLAC (STA 66+00)	24" SD	445.00	CY	4,253	723	149	513	28	2,267	7,933	17.83
02_03.18.02_01_014	CADILLAC (STA 112+00)	24" SD	222.00	CY	2,122	361	74	256	14	1,131	3,958	17.83
02_03.18.02_01_015	CADILLAC (STA 111+00)	72" SD	533.00	CY	5,095	866	179	614	34	2,715	9,502	17.83
02_03.18.02_01_019	CADILLAC (STA 10+00)	54" SD	5778.00	CY	55,228	9,389	1,939	6,656	366	29,431	103,008	17.83
02_03.18.02_01_020	CADILLAC (STA 62+00)	8" WATER	296.00	CY	2,829	481	99	341	19	1,508	5,277	17.83
02_03.18.02_01_021	CADILLAC (STA 43+50)	6" WATER	326.00	CY	3,116	530	109	376	21	1,661	5,812	17.83
02_03.18.02_01_023	CADILLAC (STA 26+00)	8" WATER	296.00	CY	2,829	481	99	341	19	1,508	5,277	17.83
02_03.18.02_01_024	LAMAR (STA 27+00-34+00)	10" SS	672.00	CY	6,423	1,092	225	774	43	3,423	11,979	17.83
02_03.18.02_01_025	LAMAR (STA 70+00)	12" SS	179.00	CY	1,711	291	60	206	11	912	3,191	17.83
02_03.18.02_01_026	LAMAR (STA 90+00)	24" SS	262.00	CY	2,504	426	88	302	17	1,335	4,671	17.83
02_03.18.02_01_027	LAMAR (STA 106+00)	15" SS	148.00	CY	1,415	240	50	170	9	754	2,638	17.83
02_03.18.02_01_028	LAMAR (STA 117+00)	48" SS	9533.00	CY	91,120	15,490	3,198	10,981	604	48,558	169,951	17.83
02_03.18.02_01_029	LAMAR (STA 25+00)	54" SD	289.00	CY	2,762	470	97	333	18	1,472	5,152	17.83
02_03.18.02_01_030	LAMAR (STA 47+00)	48" SD	311.00	CY	2,973	505	104	358	20	1,584	5,544	17.83
02_03.18.02_01_031	LAMAR (STA 77+50)	24" SD	333.00	CY	3,183	541	112	384	21	1,696	5,937	17.83
02_03.18.02_01_032	LAMAR (STA 77+50)	30" SD	150.00	CY	1,434	244	50	173	10	764	2,674	17.83
02_03.18.02_01_033	LAMAR (STA 77+50)	42" SD	1359.00	CY	12,990	2,208	456	1,565	86	6,922	24,228	17.83
02_03.18.02_01_034	LAMAR (STA 77+50)	60" SD	4252.00	CY	40,642	6,909	1,427	4,898	269	21,659	75,803	17.83
02_03.18.02_01_035	LAMAR (STA 119+00)	66" SD	3378.00	CY	32,289	5,489	1,133	3,891	214	17,207	60,223	17.83
02_03.18.02_01_036	LAMAR (STA 27+00)	12" SD	133.00	CY	1,271	216	45	153	8	677	2,371	17.83
02_03.18.02_01_037	LAMAR (STA 24+60)	8'x8' BOX CULV	3044.00	CY	29,096	4,946	1,021	3,506	193	15,505	54,267	17.83
02_03.18.02_01_038	LAMAR (STA 134+00)	7'x7' BX CULV	9133.00	CY	87,297	14,840	3,064	10,520	579	46,520	162,820	17.83
TOTAL Trench Excavation					418,993	71,229	14,707	50,493	2,777	223,279	781,477	
02_03.18.02_03 Pipe Bedding												
02_03.18.02_03_001	CADILLAC (STA 94+00)	15" SS	35.00	CY	743	126	26	90	5	248	1,238	35.37
02_03.18.02_03_002	CADILLAC (STA 102+00)	8" SS	15.20	CY	323	55	11	39	2	108	538	35.37
02_03.18.02_03_003	CADILLAC (STA 112+00)	10" SS	22.00	CY	467	79	16	56	3	156	778	35.37
02_03.18.02_03_005	CADILLAC (STA 34+00)	15" SS	35.00	CY	743	126	26	90	5	248	1,238	35.37
02_03.18.02_03_006	CADILLAC (STA 81+00)	12" SS	34.00	CY	722	123	25	87	5	241	1,203	35.37
02_03.18.02_03_007	CADILLAC (STA 43+00)	12" SS	23.00	CY	489	83	17	59	3	163	814	35.37
02_03.18.02_03_008	CADILLAC (STA 26+00)	10" SS	19.00	CY	404	69	14	49	2	134	672	35.37
02_03.18.02_03_011	CADILLAC (STA 112+00)	24" SD	49.00	CY	1,041	177	37	125	7	347	1,733	35.37
02_03.18.02_03_012	CADILLAC (STA 111+00)	72" SD	72.00	CY	1,529	260	54	184	10	509	2,547	35.37
02_03.18.02_03_016	CADILLAC (STA 10+00)	54" SD	361.00	CY	7,668	1,304	269	924	51	2,554	12,770	35.37
02_03.18.02_03_017	CADILLAC (STA 62+00)	8" WATER	37.00	CY	786	134	28	95	5	262	1,309	35.37
02_03.18.02_03_018	CADILLAC (STA 43+50)	6" WATER	41.00	CY	871	148	31	105	6	290	1,450	35.37
02_03.18.02_03_019	CADILLAC (STA 26+00)	8" WATER	37.00	CY	786	134	28	95	5	262	1,309	35.37
02_03.18.02_03_020	LAMAR (STA 27+00-31+00)	10" SS	69.00	CY	1,466	249	51	177	10	486	2,441	35.37
02_03.18.02_03_021	LAMAR (STA 70+00)	12" SS	19.00	CY	404	69	14	49	3	134	672	35.37
02_03.18.02_03_022	LAMAR (STA 90+00)	24" SS	36.00	CY	765	130	27	92	5	255	1,273	35.37
02_03.18.02_03_023	LAMAR (STA 106+00)	15" SS	6.00	CY	127	22	4	15	1	42	212	35.37
02_03.18.02_03_024	LAMAR (STA 117+00)	48" SS	13.00	CY	276	47	10	33	2	92	460	35.37
02_03.18.02_03_025	LAMAR (STA 25+00)	54" SD	55.00	CY	1,168	199	41	141	8	389	1,946	35.37
02_03.18.02_03_026	LAMAR (STA 47+00)	48" SD	24.00	CY	510	87	18	61	3	170	849	35.37

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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			QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT		
02_03.18.02_03_027	LAMAR (STA 77+50)	24" SD	74.00	CY	1,572	267	55	189	10	524	2,618	35.37		
02_03.18.02_03_028	LAMAR (STA 77+50)	30" SD	30.00	CY	637	108	22	77	4	212	1,061	35.37		
02_03.18.02_03_029	LAMAR (STA 77+50)	60" SD	354.00	CY	7,519	1,278	264	906	50	2,504	12,522	35.37		
02_03.18.02_03_032	LAMAR LEVEE (STA 119+00)	66" SD	167.00	CY	3,547	603	125	427	24	1,181	5,907	35.37		
02_03.18.02_03_033	LAMAR (STA 27+00)	12" SD	14.50	CY	308	52	11	37	2	103	513	35.37		
02_03.18.02_03_034	LAMAR (STA 77+50)	48" SD	266.00	CY	5,650	961	198	681	37	1,882	9,409	35.37		
02_03.18.02_03_035	CADILLAC (STA 66+00)	10" SS	82.00	CY	1,742	296	61	210	12	580	2,901	35.37		
02_03.18.02_03_036	CADILLAC (STA 66+00)	24" SD	98.00	CY	2,082	354	73	251	14	693	3,467	35.37		
02_03.18.02_03_037	CADILLAC (STA 75+80)	12" SS	17.00	CY	361	61	13	44	2	120	601	35.37		
TOTAL Pipe Bedding					44,707	7,600	1,569	5,388	296	14,890	74,450			
02_03.18.02_06 Manholes														
02_03.18.02_06_001	CADILLAC (STA 94+00)		1.00	EA	2,549	433	89	307	17	849	4,245	4244.65		
02_03.18.02_06_002	CADILLAC (STA 102+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_003	CADILLAC (STA 112+00)		3.00	EA	10,175	1,730	357	1,226	67	3,389	16,944	5647.87		
02_03.18.02_06_005	CADILLAC (STA 34+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_006	CADILLAC (STA 81+00)		2.00	EA	6,783	1,153	238	817	45	2,259	11,296	5647.87		
02_03.18.02_06_007	CADILLAC (STA 43+00)		1.00	EA	2,553	434	90	308	17	850	4,251	4251.35		
02_03.18.02_06_008	CADILLAC (STA 26+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_009	CADILLAC (STA 66+00)		6.00	EA	20,349	3,459	714	2,452	135	6,777	33,887	5647.87		
02_03.18.02_06_010	CADILLAC (STA 75+80)		2.00	EA	6,783	1,153	238	817	45	2,259	11,296	5647.87		
02_03.18.02_06_020	LAMAR (STA 27+00-31+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_021	LAMAR (STA 70+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_022	LAMAR (STA 90+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_023	LAMAR (STA 106+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
02_03.18.02_06_033	LAMAR (STA 27+00)		1.00	EA	3,392	577	119	409	22	1,130	5,648	5647.87		
TOTAL Manholes					76,324	12,975	2,679	9,198	506	25,420	127,101			
02_03.18.02_98 ROAD R/R CADILLAC (SARGENT RD)														
02_03.18.02_98_001	ROAD GRADING		1111.00	SY	1,324	225	46	160	9	441	2,205	1.98		
02_03.18.02_98_002	LIME STAB SUBGRADE		489.00	SY	1,530	260	54	184	10	510	2,548	5.21		
02_03.18.02_98_003	BASE COURSE		99.00	CY	1,410	240	50	170	9	470	2,349	23.73		
02_03.18.02_98_004	2" HMAC		44.00	TON	11,731	1,994	412	1,414	78	3,907	19,535	443.98		
TOTAL ROAD R/R CADILLAC (SARGENT RD)					1111.00	SY	15,995	2,719	561	1,928	106	5,327	26,637	23.98
02_03.18.02_99 ROAD REMOV & REPLACE														
02_03.18.02_99_001	FILL		29008	CY	95,909	16,304	3,366	11,558	636	31,943	159,716	5.50		
02_03.18.02_99_002	LIME SUBGRADE		3305.00	SY	6,829	1,161	240	823	45	2,275	11,373	3.44		
02_03.18.02_99_003	BASE COURSE		745.00	CY	22,167	3,768	778	2,671	147	7,383	36,914	49.55		
02_03.18.02_99_004	8" CONCRETE PAVEMENT		685.00	CY	149,027	25,335	5,231	17,959	988	49,635	248,174	362.30		
02_03.18.02_99_005	REMOVE CONC PAVMNT		685.00	CY	11,643	1,979	409	1,403	77	3,878	19,389	28.36		

				QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL ROAD REMOV & REPLACE				19830	SY	285,574	48,548	10,024	34,415	1,893	95,113	475,566	23.98
TOTAL Site Work						841,592	143,071	29,540	101,420	5,578	364,030	1,485,231	
02_03.18.15 Mechanical													
02_03.18.15_01 Pipe and Fittings													
02_03.18.15_01_001	CADILLAC (STA 94+00)	15" SS	300.00	LF	5,416	921	190	653	36	1,804	9,019	30.06	
02_03.18.15_01_002	CADILLAC (STA 102+00)	8" SS	200.00	LF	1,357	231	48	164	9	452	2,260	11.30	
02_03.18.15_01_003	CADILLAC (STA 112+00)	10" SS	250.00	LF	2,517	428	88	303	17	838	4,191	16.76	
02_03.18.15_01_005	CADILLAC (STA 34+00)	15" SS	300.00	LF	5,414	920	190	652	36	1,803	9,015	30.05	
02_03.18.15_01_006	CADILLAC (STA 81+00)	12" SS	450.00	LF	6,298	1,071	221	759	42	2,098	10,488	23.31	
02_03.18.15_01_007	CADILLAC (STA 43+00)	12" SS	240.00	LF	3,360	571	118	405	22	1,119	5,595	23.31	
02_03.18.15_01_008	CADILLAC (STA 26+00)	10" SS	220.00	LF	2,214	376	78	267	15	737	3,687	16.76	
02_03.18.15_01_011	CADILLAC (STA 112+00)	24" SD	300.00	LF	28,855	4,905	1,013	3,477	191	9,610	48,051	160.17	
02_03.18.15_01_012	CADILLAC (STA 111+00)	72" SD	200.00	LF	50,043	8,507	1,757	6,031	332	16,667	83,336	416.68	
02_03.18.15_01_016	CADILLAC (STA 10+00)	54" SD	3200.00	LF	485,019	82,453	17,024	58,450	3,215	161,540	807,701	252.41	
02_03.18.15_01_017	CADILLAC (STA 62+00)	8" WATER	200.00	LF	2,873	488	101	346	19	957	4,785	23.93	
02_03.18.15_01_018	CADILLAC (STA 43+50)	6" WATER	220.00	LF	2,153	366	76	259	14	717	3,585	16.30	
02_03.18.15_01_019	CADILLAC (STA 26+00)	8" WATER	200.00	LF	2,819	479	99	340	19	939	4,694	23.47	
02_03.18.15_01_020	LAMAR (STA 27+00-31+00)	10" SS	800.00	LF	13,669	2,324	480	1,647	91	4,552	22,762	28.45	
02_03.18.15_01_021	LAMAR (STA 70+00)	12" SS	200.00	LF	4,881	830	171	588	32	1,626	8,129	40.65	
02_03.18.15_01_022	LAMAR (STA 90+00)	24" SS	220.00	LF	11,388	1,936	400	1,372	75	3,793	18,964	86.20	
02_03.18.15_01_023	LAMAR (STA 106+00)	15" SS	150.00	LF	5,379	914	189	648	36	1,791	8,957	59.71	
02_03.18.15_01_024	LAMAR (STA 117+00)	48" SS	300.00	LF	32,633	5,548	1,145	3,933	216	10,869	54,343	181.14	
02_03.18.15_01_025	LAMAR (STA 25+00)	54" SD	150.00	LF	24,949	4,241	876	3,007	165	8,309	41,547	276.98	
02_03.18.15_01_026	LAMAR (STA 47+00)	48" SD	200.00	LF	30,167	5,128	1,059	3,635	200	10,047	50,237	251.19	
02_03.18.15_01_027	LAMAR (STA 77+50)	24" SD	450.00	LF	12,990	2,208	456	1,565	86	4,326	21,632	48.07	
02_03.18.15_01_028	LAMAR (STA 77+50)	30" SD	150.00	LF	6,206	1,055	218	748	41	2,067	10,335	68.90	
02_03.18.15_01_029	LAMAR (STA 77+50)	60" SD	2050.00	LF	365,626	62,156	12,833	44,062	2,423	121,775	608,876	297.01	
02_03.18.15_01_032	LAMAR LEVEE (STA 119+00)	66" SD	1200.00	LF	302,388	51,406	10,614	36,441	2,004	100,713	503,565	419.64	
02_03.18.15_01_033	LAMAR (STA 27+00)	12" SD	150.00	LF	3,648	620	128	440	24	1,215	6,075	40.50	
02_03.18.15_01_035	CADILLAC (STA 66+00)	10" SS	950.00	LF	9,560	1,625	336	1,152	63	3,184	15,921	16.76	
02_03.18.15_01_036	CADILLAC (STA 66+00)	24" SD	450.00	LF	12,990	2,208	456	1,565	86	4,326	21,632	48.07	
02_03.18.15_01_037	CADILLAC (STA 75+80)	12" SS	200.00	LF	2,800	476	98	337	19	932	4,662	23.31	
02_03.18.15_01_038	LAMAR (STA 77+50)	42" SD	950.00	LF	86,300	14,671	3,029	10,400	572	28,743	143,716	151.28	
TOTAL Pipe and Fittings						1,523,909	259,064	53,489	183,646	10,101	507,552	2,537,762	
02_03.18.15_03 Valves/Gates (incl Conc Risers)													
02_03.18.15_03_001	CAD (STA 94)	15" GATE VALVE	1.00	EA	8,398	1,428	295	1,012	56	2,797	13,986	13996	
02_03.18.15_03_002	CAD (STA 102)	8" GATE VALVE	1.00	EA	6,168	1,049	217	743	41	2,054	10,272	10272	
02_03.18.15_03_003	CAD (STA 112)	10" GATE VALVE	1.00	EA	7,065	1,201	248	851	47	2,353	11,765	11765	
02_03.18.15_03_005	CAD (STA 34)	15" GATE VALVE	1.00	EA	8,676	1,475	305	1,046	58	2,890	14,448	14448	
02_03.18.15_03_006	CAD (STA 81)	12" GATE VALVE	1.00	EA	7,752	1,318	272	934	51	2,582	12,909	12909	
02_03.18.15_03_007	CAD (STA 43)	12" GATE VALVE	1.00	EA	9,377	1,594	329	1,130	62	3,123	15,615	15615	
02_03.18.15_03_008	CAD (STA 26)	10" GATE VALVE	1.00	EA	8,743	1,486	307	1,054	58	2,912	14,560	14560	

Tri-Service Automated Cost Engineering System (TRACES)  
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			QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
02_03.18.15	03_011	CAD (STA 112) 24"x24" FLAP GATE	1.00	EA	14,019	2,383	492	1,689	93	4,669	23,346	23346
02_03.18.15	03_012	CAD (STA 111) 72" FLAP GATE	1.00	EA	33,721	5,733	1,184	4,064	224	11,231	56,155	56155
02_03.18.15	03_017	CAD (STA 62) 8" AIR RELEASE VALV	1.00	EA	573	97	20	69	4	191	954	953.56
02_03.18.15	03_018	CAD (STA 43+50) 6" COMBO AIR REL	1.00	EA	386	66	14	47	3	129	646	645.74
02_03.18.15	03_019	CAD (STA 26) 8" COMBO AIR RELEAS	1.00	EA	572	97	20	69	4	191	953	953.36
02_03.18.15	03_021	LAMAR (STA 70) 12" SLUICE GATE	1.00	EA	9,574	1,628	336	1,154	63	3,189	15,944	15944
02_03.18.15	03_022	LAMAR (STA 90) 24" SLUICE GATE	1.00	EA	14,756	2,509	518	1,778	98	4,915	24,574	24574
02_03.18.15	03_023	LAMAR (STA 106) 15" SLUICE GATE	1.00	EA	9,644	1,639	338	1,162	64	3,212	16,059	16059
02_03.18.15	03_024	LAMAR (STA 117) 48" SLUICE GATE	1.00	EA	34,702	5,899	1,218	4,182	230	11,558	57,790	57790
02_03.18.15	03_025	LAMAR (STA 25) 54" SLUICE/FLAP	1.00	EA	22,412	3,810	787	2,701	149	7,464	37,322	37322
02_03.18.15	03_026	LAMAR (STA 47) 48" SLUICE/FLAP	1.00	EA	20,591	3,500	723	2,481	136	6,858	34,290	34290
02_03.18.15	03_029	LAMAR (STA 77+50) 60" SLUICE/FLP	1.00	EA	36,000	6,120	1,264	4,338	239	11,990	59,951	59951
02_03.18.15	03_030	LAMAR (STA 24+60) 8' SLUICE GATE	1.00	EA	33,319	5,664	1,170	4,015	221	11,097	55,486	55486
02_03.18.15	03_031	LAMAR (STA 134) 7'x7' BOX CULV	1.00	EA	33,163	5,638	1,164	3,997	220	11,045	55,227	55227
02_03.18.15	03_032	LAMAR LEVEE (STA 119) 66" SLUICE	1.00	EA	47,108	8,008	1,653	5,677	312	15,690	78,449	78449
02_03.18.15	03_033	LAMAR (STA 27) 12" SLUICE GATE	1.00	EA	6,649	1,130	233	801	44	2,215	11,073	11073
02_03.18.15	03_034	CAD (STA 66+00) 10" GATE VALVE	1.00	EA	7,065	1,201	248	851	47	2,353	11,765	11765
02_03.18.15	03_035	CAD (STA 75+80) 12" GATE VALVE	1.00	EA	7,752	1,318	272	934	51	2,582	12,909	12909
TOTAL Valves/Gates (incl Conc Risers)					388,186	65,992	13,625	46,780	2,573	129,289	646,445	
TOTAL Mechanical					1,912,095	325,056	67,115	230,427	12,673	636,841	3,184,207	
02_03.18.16 Electrical												
02_03.18.16	99A	ELECTRICAL TOWER - 138 KV	1.00	EA	30,000	5,100	1,053	3,615	199	9,992	49,959	49959
02_03.18.16	99B	FIBER OPTICS - CADILLAC HTS	100.00	LF	207	35	7	25	1	97	373	3.73
02_03.18.16	99C	FIBER OPTICS - LAMAR LEVEE	100.00	LF	207	35	7	25	1	97	373	3.73
02_03.18.16	99D	CAD (STA 97+50) 8" SS DEMO PIPE	100.00	LF	1,008	171	35	121	7	336	1,678	16.78
02_03.18.16	99E	CAD (STA 44+00) WOOD POWER POLE	2.00	EA	2,796	475	98	337	19	1,304	5,028	2514.00
02_03.18.16	99F	CAD (STA 45+00) WOOD POWER POLE	1.00	EA	1,398	238	49	168	9	652	2,514	2514.00
02_03.18.16	99G	CAD (STA 47+70) WOOD POWER POLE	1.00	EA	1,398	238	49	168	9	652	2,514	2514.00
02_03.18.16	99H	CAD (STA 66) REOCATE 4-WIRE ELE	600.00	LF	8,333	1,417	292	1,004	55	2,775	13,877	23.13
02_03.18.16	99I	CAD (STA 61+50) WOOD POWER POLE	2.00	EA	2,796	475	98	337	19	1,304	5,028	2514.00
TOTAL Electrical					48,142	8,184	1,690	5,802	319	17,207	81,344	
TOTAL Utilities					2,801,829	476,311	98,344	337,648	18,571	1,018,078	4,750,781	
02_03.47 Structures												
02_03.47.03 Concrete												
02_03.47.03_01 Concrete												
02_03.47.03	01_009	CADILLAC (STA 120+00) HEADWALL	10.70	CY	7,450	1,267	262	898	49	2,481	12,407	1159.52
02_03.47.03	01_010	CADILLAC (STA 120+00) C & G	1000.00	LF	7,803	1,327	274	940	52	2,599	12,995	12.99
02_03.47.03	01_011	CADILLAC (STA 112+00) HEADWALL	3.70	CY	3,273	556	115	394	22	1,090	5,450	1473.10
02_03.47.03	01_012	CADILLAC (STA 111+00) HEADWALL	21.90	CY	10,890	1,851	382	1,315	72	3,627	18,135	828.10

Tri-Service Automated Cost Engineering System (TRACES)  
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				QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
02_03.47.03_01_013	CADILLAC (STA 111+00) C & G	1400.00	LF	10,921	1,857	383	1,316	72	3,637	18,187	12.99	
02_03.47.03_01_014	CADILLAC (STA 91+00) HEADWALL	10.70	CY	7,301	1,241	256	880	48	2,432	12,158	1136.27	
02_03.47.03_01_015	CADILLAC (STA 91+00) C & G	1000.00	LF	7,801	1,326	274	940	52	2,598	12,991	12.99	
02_03.47.03_01_016	CADILLAC (STA 10+00) HEADWALL	14.10	CY	9,425	1,602	331	1,136	62	3,139	15,696	1113.18	
02_03.47.03_01_026	LAMAR (STA 47+00) HEADWALL	11.60	CY	8,013	1,362	281	966	53	2,669	13,343	1150.28	
02_03.47.03_01_029	LAMAR (STA 77+50) HEADWALL	16.50	CY	10,790	1,834	379	1,300	72	3,594	17,968	1088.97	
02_03.47.03_01_030	LAMAR 24+60 - 8'Box Culv W/Demo	274.00	CY	74,191	12,612	2,604	8,941	492	24,710	123,550	450.91	
02_03.47.03_01_031	LAMAR (STA 134) 7'BX CULV/RipRap	628.50	CY	155,783	26,483	5,468	18,773	1,033	51,885	259,425	412.77	
02_03.47.03_01_032	LAMAR LEVEE (STA 119+00) HDWALL	19.20	CY	12,284	2,088	431	1,480	81	4,091	20,457	1065.44	
TOTAL Concrete				325,925	55,407	11,440	39,277	2,160	108,552	542,762		
02_03.47.03_02 Reinforcing Steel												
02_03.47.03_02_030	LAMAR (STA 24+60) 8'x8' BOX CULV	58944	LB	27,144	4,614	953	3,271	180	9,040	45,202	0.77	
02_03.47.03_02_031	LAMAR (STA 134+00) 7'x7' BX CULV	127910	LB	58,903	10,013	2,067	7,098	390	19,618	98,090	0.77	
TOTAL Reinforcing Steel				86,046	14,628	3,020	10,369	570	28,659	143,293		
02_03.47.03_99A Service Bridge												
02_03.47.03_99A_001	CADILLAC (STA 94+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_002	CADILLAC (STA 102+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_003	CADILLAC (STA 112+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_005	CADILLAC (STA 34+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_006	CADILLAC (STA 81+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_007	CADILLAC (STA 43+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_008	CADILLAC (STA 26+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_009	CADILLAC (STA 66+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_011	CADILLAC (STA 112+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_012	CADILLAC (STA 111+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_013	CADILLAC (STA 111+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_015	CADILLAC (STA 75+80)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_021	LAMAR (STA 70+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_022	LAMAR (STA 90+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_023	LAMAR (STA 106+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_024	LAMAR (STA 117+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_025	LAMAR (STA 25+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_026	LAMAR (STA 47+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_029	LAMAR (STA 77+50)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_030	LAMAR (STA 24+60)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_031	LAMAR (STA 134+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_032	LAMAR LEVEE (STA 119+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
02_03.47.03_99A_033	LAMAR (STA 27+00)	110.00	SF	9,586	1,630	336	1,155	64	3,193	15,964	145.13	
TOTAL Service Bridge				220,481	37,482	7,739	26,570	1,461	73,433	367,167		
TOTAL Concrete				632,453	107,517	22,199	76,217	4,192	210,644	1,053,222		

	QUANTY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL Structures		632,453	107,517	22,199	76,217	4,192	210,644	1,053,222	
TOTAL Cemetery, Utilities, & Structure		3,434,281	583,828	120,543	413,865	22,763	1,228,722	5,804,003	
TOTAL Relocations		3,434,281	583,828	120,543	413,865	22,763	1,228,722	5,804,003	
06 Fish and Wildlife Facilities									
06_03 Wildlife Facilities & Sanctuary									
06_03.71 Fences									
06_03.71.02 Site Work									
06_03.71.02_01 Barbed Wire Fence									
06_03.71.02_01_001 Barbed Wire Fence	31680 LF	63,363	10,772	2,224	7,636	420	21,104	105,519	3.33
TOTAL Barbed Wire Fence		63,363	10,772	2,224	7,636	420	21,104	105,519	
TOTAL Site Work		63,363	10,772	2,224	7,636	420	21,104	105,519	
TOTAL Fences		63,363	10,772	2,224	7,636	420	21,104	105,519	
06_03.72 Signs									
06_03.72.02 Site Work									
06_03.72.02_01 Signs									
06_03.72.02_01_001 Signs		10,000	1,700	351	1,205	66	3,331	16,653	
TOTAL Signs		10,000	1,700	351	1,205	66	3,331	16,653	
TOTAL Site Work		10,000	1,700	351	1,205	66	3,331	16,653	
TOTAL Signs		10,000	1,700	351	1,205	66	3,331	16,653	
06_03.73 Habitat and Feeding Facilities									
06_03.73.02 Site Work									
06_03.73.02_01 Trees									
06_03.73.02_01_001 SELECTIVE THINNING (IMP)	463.00 AC	37,040	6,297	1,300	4,464	246	12,337	61,683	133.22
06_03.73.02_01_002 MAST TREES (IMP)	1175.00 EA	35,250	5,993	1,237	4,248	234	11,740	58,702	49.96
06_03.73.02_01_003 TREE PLANTING W/SITE PREP (IMP)	1175.00 EA	35,250	5,993	1,237	4,248	234	11,740	58,702	49.96
06_03.73.02_01_004 SHEAR, RAKE, PILE & BED (IMP)	50.00 AC	8,000	1,360	281	964	53	2,664	13,322	266.45

		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
06_03.73.02_01_005	300 TREES/150 SEEDLINGS PER ACRE	233.00	AC	69,900	11,883	2,453	8,424	463	23,281	116,404	499.59
TOTAL Trees				185,440	31,525	6,509	22,347	1,229	61,763	308,813	
06_03.73.02_02 Shrubs											
06_03.73.02_02_001	SHREDDING/DISKING (CONV)	233.00	AC	9,320	1,584	327	1,123	62	3,104	15,521	66.61
TOTAL Shrubs				9,320	1,584	327	1,123	62	3,104	15,521	
TOTAL Site Work				194,760	33,109	6,836	23,471	1,291	64,867	324,333	
06_03.73.06 Wood and Plastic											
06_03.73.06_01 Wood Feeders											
06_03.73.06_01_001	PASSERINE NEST BOXES (IMP)	270.00	EA	8,100	1,377	284	976	54	2,698	13,489	49.96
06_03.73.06_01_002	PASSERINE NEST BOXES (IMP)	233.00	EA	6,990	1,188	245	842	46	2,328	11,640	49.96
TOTAL Wood Feeders				15,090	2,565	530	1,818	100	5,026	25,129	
TOTAL Wood and Plastic				15,090	2,565	530	1,818	100	5,026	25,129	
TOTAL Habitat and Feeding Facilities				209,850	35,675	7,366	25,289	1,391	69,893	349,463	
TOTAL Wildlife Facilities & Sanctuary				283,213	48,146	9,941	34,130	1,877	94,327	471,634	
TOTAL Fish and Wildlife Facilities				283,213	48,146	9,941	34,130	1,877	94,327	471,634	
09 Channels and Canals											
09_01 Channels											
09_01.99 Associated General Items											
09_01.99.02 Site Work											
09_01.99.02_03 Pipe Drains:											
09_01.99.02_03_001	OFLT STR - DNSTRM WTLNDS-EXC	12160	CY	140,694	23,918	4,938	16,955	933	46,859	234,297	19.27
09_01.99.02_03_002	SD BOXES - DNSTREAM WETLANDS	8.00	CY	6,800	1,156	239	819	45	2,265	11,324	1415.50
09_01.99.02_03_003	18" RIPRAP - DNSTREAM WETLANDS	950.00	SY	40,042	6,807	1,405	4,826	265	13,337	66,683	70.19
09_01.99.02_03_004	FILTER FABRIC - DNSTREAM WETLAND	950.00	SY	2,555	434	90	308	17	851	4,254	4.48
09_01.99.02_03_005	18" RIPRAP - INLET UPPER WETLAND	504.00	SY	21,244	3,611	746	2,560	141	7,075	35,377	70.19
09_01.99.02_03_006	18" RIPRAP - OUTFLT UPPER WETLAND	417.00	SY	17,577	2,988	617	2,118	116	5,854	29,270	70.19
09_01.99.02_03_007	18" RIPRAP - OUTFALL CEDER CREEK	291.00	SY	12,266	2,085	431	1,478	81	4,085	20,426	70.19
09_01.99.02_03_008	36" RCP UPPER WETLANDS	1880.00	LF	124,672	21,194	4,376	15,024	826	41,523	207,617	110.43



			QUANTY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL Pipe Drains:				365,849	62,194	12,841	44,088	2,425	121,849	609,247	
09_01.99.02_06 Seeding											
09_01.99.02_06_002	TURFING - UPPER WETLANDS	33.00 AC		79,200	13,464	2,780	9,544	525	26,378	131,892	3996.71
09_01.99.02_06_005	TURFING - DOWNSTREAM WETLANDS	69.00 AC		165,600	28,152	5,813	19,956	1,098	55,155	275,773	3996.71
TOTAL Seeding				244,800	41,616	8,592	29,501	1,623	81,533	407,665	
09_01.99.02_10 Excavation and Embankment:											
09_01.99.02_10_CCC	EXC,HAUL,WASTE (FLD CTRL) LOWER*	199571 CY		900,704	153,120	31,615	108,544	5,970	299,988	1,499,940	7.52
09_01.99.02_10_CCD	EXC,HAUL,WASTE (ENV REST) LOWER*	314285 CY		1,418,431	241,133	49,787	170,935	9,401	472,422	2,362,110	7.52
09_01.99.02_10_CCF	EXC,HAUL,WASTE (FLD CTRL) IH-45	217852 CY		983,210	167,146	34,511	118,487	6,517	327,467	1,637,337	7.52
09_01.99.02_10_CCH	EXC,HAUL (FLD CTRL) LOWER SWALE*	533762 CY		1,130,988	192,268	39,698	136,295	7,496	376,686	1,883,432	3.53
09_01.99.02_10_CDD	EXC,HAUL (FLD CTRL) UPPER SWALE*	518491 CY		1,052,848	178,984	36,955	126,879	6,978	350,661	1,753,305	3.38
09_01.99.02_10_CDE	EXC,HAUL (FLD CTRL) IH-45	69365 CY		140,853	23,945	4,944	16,974	934	46,912	234,561	3.38
09_01.99.02_10_CDD	EXC,HAUL,WASTE(ENV REST) UPPER *	222211 CY		1,001,861	170,316	35,165	120,734	6,640	333,679	1,668,396	7.51
09_01.99.02_10_EED	FILL (FLD CTRL) LOWER	85930 CY		54,067	9,191	1,898	6,516	358	18,008	90,038	1.05
09_01.99.02_10_EEE	FILL (FLD CTRL) IH-45	60317 CY		37,951	6,452	1,332	4,574	252	12,640	63,200	1.05
09_01.99.02_10_GGA	EXC,HAUL NO-HAZ MAT'L-AREA 7	10667 CY		426,680	0	0	0	0	85,336	512,016	48.00
09_01.99.02_10_GGB	EXC,HAUL NO-HAZ MAT'L-AREA 10	18485 CY		739,400	0	0	0	0	147,880	887,280	48.00
09_01.99.02_10_GGC	EXC,HAUL NO-HAZ MAT'L-AREA 11	18150 CY		726,000	0	0	0	0	145,200	871,200	48.00
09_01.99.02_10_GGD	EXC,HAUL NO-HAZ MAT'L-AREA 12	6357.00 CY		254,280	0	0	0	0	50,856	305,136	48.00
09_01.99.02_10_GGE	EXC,HAUL NO-HAZ MAT'L-AREA 13	282168 CY		7,054,200	0	0	0	0	1,410,840	8,465,040	30.00
09_01.99.02_10_GGF	EXC,HAUL NO-HAZ MAT'L-AREA 15	92315 CY		3,692,600	0	0	0	0	738,520	4,431,120	48.00
09_01.99.02_10_GGG	REM/TRANS LEAD LEACHATE-AREA 13	5400000 GAL		1,080,000	0	0	0	0	216,000	1,296,000	0.24
TOTAL Excavation and Embankment:				20,694,072	1,142,555	235,904	809,937	44,547	5,033,096	27,960,111	
TOTAL Site Work				21,304,721	1,246,365	257,338	883,526	48,594	5,236,478	28,977,023	
09_01.99.03 Concrete											
09_01.99.03_01 Concrete											
09_01.99.03_01_001	INLET STR - DOWNSTREAM WETLANDS	112.00 CY		47,600	8,092	1,671	5,736	315	15,854	79,268	707.75
09_01.99.03_01_002	OTLET STR - DOWNSTREAM WETLANDS	7.00 CY		2,975	506	104	359	20	991	4,954	707.75
09_01.99.03_01_003	INLET STR - UPPER CHAIN WETLANDS	224.00 CY		95,200	16,184	3,342	11,473	631	31,707	158,536	707.75
09_01.99.03_01_004	OUTLET STR - UPPER CHAIN WETLANDS	10.00 CY		4,250	723	149	512	28	1,416	7,078	707.75
TOTAL Concrete				150,025	25,504	5,266	18,080	994	49,967	249,836	
09_01.99.03_02 Reinforcing Steel											
09_01.99.03_02_001	INLET STR - DOWNSTREAM WETLANDS	11200 LB		5,158	877	181	622	34	1,718	6,589	0.77
09_01.99.03_02_002	OTLET STR - DOWNSTREAM WETLANDS	616.00 LB		284	48	10	34	2	94	472	0.77

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
09_01.99.03_02_003	INLET STR - UPPER CHAIN WETLANDS	22400	LB	10,315	1,754	362	1,243	68	3,436	17,178	0.77
09_01.99.03_02_004	OUTLET STR - UPPER CHAIN WETLANDS	924.00	LB	426	72	15	51	3	142	709	0.77
TOTAL Reinforcing Steel		1.00		16,182	2,751	568	1,950	107	5,390	26,948	26948
TOTAL Concrete				166,207	28,255	5,834	20,030	1,102	55,357	276,784	
09_01.99.05 Metals											
09_01.99.05_99 ASSOCIATED GENERAL ITEMS											
09_01.99.05_99_001	TRASHRACK -DOWNSTREAM WETLAND	4.00	EA	8,340	1,418	293	1,005	55	2,778	13,889	3472.15
09_01.99.05_99_002	MANHOLE COVER-DOWNSTREAM WETLAND	4.00	EA	4,660	792	164	562	31	1,552	7,760	1940.07
09_01.99.05_99_003	TRASHRACK -UPPER CHAIN WETLAND	8.00	EA	16,680	2,836	585	2,010	111	5,555	27,777	3472.15
09_01.99.05_99_004	MANHOLE COVR-UPPER CHAIN WETLAND	8.00	EA	9,320	1,584	327	1,123	62	3,104	15,521	1940.07
TOTAL ASSOCIATED GENERAL ITEMS				39,000	6,630	1,369	4,700	258	12,989	64,947	
TOTAL Metals				39,000	6,630	1,369	4,700	258	12,989	64,947	
TOTAL Associated General Items				21,509,928	1,281,251	264,541	908,256	49,954	5,304,824	29,318,754	
TOTAL Channels				21,509,928	1,281,251	264,541	908,256	49,954	5,304,824	29,318,754	
TOTAL Channels and Canals				21,509,928	1,281,251	264,541	908,256	49,954	5,304,824	29,318,754	
11 Levees and Floodwalls											
11_01 Levees											
11_01.02 Drainage											
11_01.02.03 Concrete											
11_01.02.03_01 Concrete											
11_01.02.03_01_005	SLUICE STR - CADILLAC HTS	2791.00	CY	871,378	148,134	30,585	105,010	5,776	290,221	1,451,104	519.92
11_01.02.03_01_006	FLOODGATES - CADILLAC HTS	1931.00	CY	195,939	33,310	6,877	23,613	1,299	65,259	326,296	168.98
11_01.02.03_01_007	FLOODGATES - LAMAR LEVEE	812.00	CY	82,394	14,007	2,892	9,929	546	27,442	137,210	168.98
11_01.02.03_01_008	SLUICE STR - LAMAR LEVEE	2339.00	CY	730,259	124,144	25,632	88,004	4,840	243,220	1,216,099	519.92
TOTAL Concrete				1,879,970	319,595	65,987	226,555	12,461	626,142	3,130,709	
11_01.02.03_02 Reinforcing Steel											
11_01.02.03_02_005	SLUICE STR - CADILLAC HTS	384242	LB	176,943	30,080	6,211	21,323	1,173	58,933	294,663	0.77
11_01.02.03_02_006	FLOODGATES - CADILLAC HTS	272921	LB	125,680	21,366	4,411	15,146	833	41,859	209,295	0.77
11_01.02.03_02_007	FLOODGATES - LAMAR LEVEE	113680	LB	52,350	8,899	1,837	6,309	347	17,436	87,178	0.77

			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
11_01.02.03_02_008	SLUICE STR - LAMAR LEVEE	339600 LB	156,386	26,586	5,489	18,846	1,037	52,086	260,429	0.77	
	TOTAL Reinforcing Steel	1.00 LB	511,359	86,931	17,949	61,624	3,389	170,313	851,565	851565	
	TOTAL Concrete		2,391,329	406,526	83,936	288,179	15,850	796,455	3,982,274		
11_01.02.05	Metals										
11_01.02.05_01	Gates										
11_01.02.05_01_001	FABRICATED GATES - CADILLAC HTS	42277 LB	147,547	25,083	5,179	17,781	978	49,142	245,709	5.81	
11_01.02.05_01_002	FABRICATED GATES - LAMAR LEVEE	18360 LB	64,076	10,893	2,249	7,722	425	21,341	106,706	5.81	
	TOTAL Gates		211,623	35,976	7,428	25,503	1,403	70,483	352,415		
11_01.02.05_04	Handrailing										
11_01.02.05_04_016	HAND RAILING - CADILLAC HTS	1491.00 LB	5,144	874	181	620	34	1,713	8,566	5.75	
11_01.02.05_04_017	HAND RAILING - LAMAR LEVEE	946.00 LB	3,264	555	115	393	22	1,087	5,435	5.75	
	TOTAL Handrailing		8,408	1,429	295	1,013	56	2,800	14,001		
11_01.02.05_99	ASSOCIATED ITEMS										
11_01.02.05_99_005	RODNEY HUNT GATE & FRM - CAD HTS	84000 LB	349,440	59,405	12,265	42,111	2,316	116,384	581,922	6.93	
11_01.02.05_99_006	RODNEY HUNT HOIST (12) CAD HTS	9600.00 LB	39,936	6,789	1,402	4,813	265	13,301	66,505	6.93	
11_01.02.05_99_007	ROD HUNT FLAP GATE (12) CAD HTS	24000 LB	99,840	16,973	3,504	12,032	662	33,253	166,263	6.93	
11_01.02.05_99_008	9" WATERSTOPS - CAD HTS	1904.00 LF	21,545	3,663	756	2,596	143	7,176	35,879	18.84	
11_01.02.05_99_009	LADDERS (94 VLF) - CADILLAC HTS	940.00 LB	1,647	280	58	199	11	549	2,743	2.92	
11_01.02.05_99_010	48" HANDRAIL (448 LF)- CAD HTS	2464.00 LB	8,501	1,445	298	1,024	56	2,831	14,156	5.75	
11_01.02.05_99_011	W-BEAMS - CADILLAC HTS	9600.00 LB	16,800	2,856	590	2,025	111	5,595	27,977	2.91	
11_01.02.05_99_012	RUBBER J-SEAL - CADILLAC HEIGHTS	302.00 LF	2,567	436	90	309	17	855	4,275	14.16	
11_01.02.05_99_013	NEOPRENE GASKETS - CADILLAC HTS	302.00 LF	604	103	21	73	4	201	1,006	3.33	
11_01.02.05_99_014	SCREW JACK SUPP - CADILLAC HTS	5.00 EA	875	149	31	105	6	291	1,457	291.43	
11_01.02.05_99_015	LOAD BINDERS - CADILLAC HTS	10.00 EA	750	128	26	90	5	250	1,249	124.90	
11_01.02.05_99_016	ASPHALT @ GATES - CADILLAC HTS	0.60 CY	144	24	5	17	1	48	240	399.75	
11_01.02.05_99_018	FLOODGATE HINGES - CADILLAC HTS	25.00 EA	55,650	9,461	1,953	6,706	369	18,535	92,674	3706.95	
11_01.02.05_99_019	TURNBUKLES - CADILLAC HTS	13.00 EA	975	166	34	117	6	325	1,624	124.90	
11_01.02.05_99_020	PORTABLE WINCHES - CADILLAC HTS	4.00 EA	4,460	758	157	537	30	1,485	7,427	1856.81	
11_01.02.05_99_021	STAINLESS STEEL - CADILLAC HTS	1600.00 LB	6,800	1,156	239	819	45	2,265	11,324	7.08	
11_01.02.05_99_022	MISCELLANEOUS - CADILLAC HTS	250.00 LB	613	104	21	74	4	204	1,020	4.08	
11_01.02.05_99_023	RUBBER J-SEAL - LAMAR LEVEE	90.50 LF	769	131	27	93	5	256	1,281	14.16	
11_01.02.05_99_024	NEOPRENE GASKETS - LAMAR LEVEE	90.50 LF	181	31	6	22	1	60	301	3.33	
11_01.02.05_99_025	SCREW JACK SUPP - LAMAR LEVEES	2.00 EA	350	60	12	42	2	117	583	291.43	
11_01.02.05_99_026	LOAD BINDERS - LAMAR LEVEE	4.00 EA	300	51	11	36	2	100	500	124.90	
11_01.02.05_99_027	ASPHALT @ GATES - LAMAR LEVEE	0.40 CY	96	16	3	12	1	32	160	399.75	
11_01.02.05_99_028	FLOODGATE HINGES - LAMAR LEVEE	12.00 EA	26,712	4,541	938	3,219	177	8,897	44,483	3706.95	
11_01.02.05_99_029	TURNBUKLES - LAMAR LEVEE	5.00 EA	375	64	13	45	2	125	624	124.90	

			QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
11_01.02.05_99_030	PORTABLE WINCHES - LAMAR LEVEE	2.00 EA	2,230	379	78	269	15	743	3,714	1856.81	
11_01.02.05_99_031	STAINLESS STEEL -LAMAR LEVEE	834.00 LB	3,545	603	124	427	23	1,181	5,903	7.08	
11_01.02.05_99_032	MISCELLANEOUS - LAMAR LEVEE	250.00 LB	613	104	21	74	4	204	1,020	4.08	
11_01.02.05_99_033	RODNEY HUNT GATE & FRM - LAMAR	64500 LB	268,320	45,614	9,418	32,335	1,778	89,367	446,833	6.93	
11_01.02.05_99_035	RODNEY HUNT HOIST (10) LAMAR	8800.00 LB	36,608	6,223	1,285	4,412	243	12,193	60,963	6.93	
11_01.02.05_99_036	ROD HUNT FLAP GATE (10) LAMAR	20400 LB	84,864	14,427	2,979	10,227	562	28,265	141,324	6.93	
11_01.02.05_99_037	9" WATERSTOPS - LAMAR	1301.00 LF	14,722	2,503	517	1,774	98	4,903	24,516	18.64	
11_01.02.05_99_038	LADDERS (152 VLF) - LAMAR	2012.00 LB	3,526	599	124	425	23	1,174	5,872	2.92	
11_01.02.05_99_039	48" HANDRAIL (493 LF)- LAMAR	2215.00 LB	7,642	1,299	268	921	51	2,545	12,726	5.75	
11_01.02.05_99_040	W-BEAMS - LAMAR	12000 LB	21,000	3,570	737	2,531	139	6,994	34,971	2.91	
TOTAL ASSOCIATED ITEMS				1,082,999	184,110	38,013	130,512	7,178	360,703	1,803,515	
TOTAL Metals				1,303,030	221,515	45,736	157,028	8,637	433,986	2,169,932	
TOTAL Drainage				3,694,358	628,041	129,672	445,207	24,486	1,230,441	6,152,206	
11_01.03 Care & Diversion of Water											
11_01.03.02 Site Work											
11_01.03.02_01 Excavation											
11_01.03.02_01_001	SLURRY TRENCH THROUGH LANDFILL	76600 SF	1,244,566	211,576	43,684	149,983	8,249	414,515	2,072,573	27.06	
11_01.03.02_01_002	PUMP, DIVERT THRU PIPE		373,500	63,495	13,110	45,010	2,476	124,398	621,989		
TOTAL Excavation				1,618,066	275,071	56,794	194,993	10,725	538,912	2,694,562	
TOTAL Site Work				1,618,066	275,071	56,794	194,993	10,725	538,912	2,694,562	
TOTAL Care & Diversion of Water				1,618,066	275,071	56,794	194,993	10,725	538,912	2,694,562	
11_01.04 Permanent Access Roads & Parking											
11_01.04.02 Site Work											
11_01.04.02_04 Road Surfacing											
11_01.04.02_04_001	GRAVEL ROAD - CADILLAC HTS	5530.00 CY	164,401	27,948	5,770	19,812	1,090	54,755	273,776	49.51	
11_01.04.02_04_002	GRAVEL ROAD - LAMAR LEVEE	7592.00 CY	235,297	40,001	8,259	28,356	1,560	78,368	391,840	51.61	
TOTAL Road Surfacing				399,698	67,949	14,029	48,168	2,649	133,123	665,616	
TOTAL Site Work				399,698	67,949	14,029	48,168	2,649	133,123	665,616	
TOTAL Permanent Access Roads & Parking				399,698	67,949	14,029	48,168	2,649	133,123	665,616	
11_01.99 Associated General Items											

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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			QUANTY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT	
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11_01.99.02 Site Work												
11_01.99.02_06 Seeding												
11_01.99.02_06_001	TURFING - LAMAR LEVEE SUMPS	33.00 AC	79,200	13,464	2,780	9,544	525	26,378	131,892	3996.71		
11_01.99.02_06_003	TURFING - LAMAR LEVEE	80.00 AC	192,000	32,640	6,739	23,138	1,273	63,947	319,737	3996.71		
11_01.99.02_06_004	TURFING - CADILLAC HTS	46.00 AC	110,400	18,768	3,875	13,304	732	36,770	183,849	3996.71		
TOTAL Seeding			381,600	64,872	13,394	45,987	2,529	127,096	635,478			
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11_01.99.02_09 Clearing												
11_01.99.02_09_001	Clearing - LAMAR LEVEE	82.00 AC	139,400	23,698	4,893	16,799	924	46,428	232,142	2831.01		
11_01.99.02_09_003	Clearing - CADILLAC HTS	50.00 AC	85,000	14,450	2,984	10,243	563	28,310	141,550	2831.01		
TOTAL Clearing			224,400	38,148	7,876	27,042	1,487	74,739	373,693			
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11_01.99.02_10 Excavation and Embankment:												
11_01.99.02_10_001	EXCVTN,HAUL-LAMAR SUMPS (SLUICE	4900.00 CY	9,860	1,676	346	1,188	65	3,284	16,419	3.35		
11_01.99.02_10_002	FILL-LAMAR LEVEE SUMPS (SLUICE)	3283.00 CY	2,102	357	74	253	14	700	3,501	1.07		
11_01.99.02_10_006	EXCVTN,HAUL-LAMAR LEVEE SUMPS	549790 CY	1,097,161	186,517	38,510	132,219	7,272	365,420	1,827,099	3.32		
11_01.99.02_10_007	FILL-LAMAR LEVEE SUMPS	174.00 CY	109	19	4	13	1	36	182	1.05		
11_01.99.02_10_EEA	EXC,HAUL CADILLAC HEIGHTS LEVEE	33030 CY	66,195	11,253	2,323	7,977	439	22,047	110,235	3.34		
11_01.99.02_10_EED	FILL CADILLAC HEIGHTS LEVEE	598448 CY	376,543	64,012	13,217	45,377	2,496	125,411	627,057	1.05		
11_01.99.02_10_FFA	EXC,HAUL LAMAR LEVEE	45142 CY	90,984	15,467	3,194	10,964	603	30,303	151,515	3.36		
11_01.99.02_10_FFB	FILL LAMAR LEVEE	997280 CY	646,537	109,911	22,693	77,914	4,285	215,335	1,076,676	1.08		
11_01.99.02_10_GGA	EXC,HAUL NO-HAZ MAT'L-AREA 1	6566.00 CY	262,640	0	0	0	0	52,528	315,168	48.00		
11_01.99.02_10_GGB	EXC,HAUL NO-HAZ MAT'L-AREA 2	17922 CY	716,880	0	0	0	0	143,376	860,256	48.00		
11_01.99.02_10_GGC	EXC,HAUL NO-HAZ MAT'L-AREA 3	7502.00 CY	300,080	0	0	0	0	60,016	360,096	48.00		
11_01.99.02_10_GGD	EXC,HAUL NO-HAZ MAT'L-AREA 5	10000 CY	400,000	0	0	0	0	80,000	480,000	48.00		
11_01.99.02_10_GGE	EXC,HAUL NO-HAZ MAT'L-AREA 5	5000.00 CY	200,000	0	0	0	0	40,000	240,000	48.00		
11_01.99.02_10_GGF	EXC,HAUL NO-HAZ MAT'L-AREA 6	620.00 CY	24,800	0	0	0	0	4,960	29,760	48.00		
11_01.99.02_10_GGG	EXC,HAUL NO-HAZ MAT'L-AREA 9	2963.00 CY	118,520	0	0	0	0	23,704	142,224	48.00		
TOTAL Excavation and Embankment:			4,312,411	389,214	80,361	275,907	15,175	1,167,121	6,240,188			
TOTAL Site Work			4,918,411	492,234	101,632	348,936	19,191	1,368,955	7,249,359			
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11_01.99.13 Special Construction												
11_01.99.13_99 PUMP HOUSE AND PUMPS												
11_01.99.13_99_001	PUMP HOUSE	1.00 EA	31,840	5,413	1,118	3,837	211	10,605	53,023	53023		
11_01.99.13_99_002	6500 GPM PUMP CAPACITY	1.00 EA	70,600	12,002	2,478	8,508	468	23,514	117,570	117570		
TOTAL PUMP HOUSE AND PUMPS			1.00 EA	102,440	17,415	3,596	12,345	679	34,119	170,593	170593	
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	QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL Special Construction			102,440	17,415	3,596	12,345	679	34,119	170,593	
TOTAL Associated General Items			5,020,851	509,648	105,227	361,281	19,870	1,403,074	7,419,952	
TOTAL Levees			10,732,974	1,480,709	305,723	1,049,649	57,731	3,305,550	16,932,335	
TOTAL Levees and Floodwalls			10,732,974	1,480,709	305,723	1,049,649	57,731	3,305,550	16,932,335	
14 Recreation Facilities										
14_00 Recreation Facilities										
14_00.18 Utilities										
14_00.18.16 Electrical										
14_00.18.16_01 ACCESS PT - LOOP 12			29,168	4,959	1,024	3,515	193	13,601	52,459	
14_00.18.16_01A ACCESS PT - ROCHESTER PARK			32,383	5,505	1,137	3,902	215	15,100	58,241	
14_00.18.16_01B ACCESS PT - IH 20			26,048	4,428	914	3,139	173	12,146	46,847	
TOTAL Electrical			87,598	14,892	3,075	10,556	581	40,846	157,548	
TOTAL Utilities			87,598	14,892	3,075	10,556	581	40,846	157,548	
14_00.22 Parking Lots and Service Roads										
14_00.22.02 Site Work										
14_00.22.02_08 Base Course										
14_00.22.02_08_001 SUBGRADE	988.00	SY	52,553	8,934	1,845	6,333	348	21,004	91,018	92.12
14_00.22.02_08_002 6" LIME SUBGRADE	11368	SY	51,378	8,734	1,803	6,192	341	20,534	88,983	7.83
14_00.22.02_08_003 FLEX BASE	2060.00	CY	29,349	4,989	1,030	3,537	195	11,730	50,831	24.68
TOTAL Base Course			133,281	22,658	4,678	16,062	883	53,269	230,831	
14_00.22.02_10 Paving										
14_00.22.02_10_001 CONCRETE	1716.00	CY	23,392	3,977	821	2,819	155	9,349	40,513	23.61
14_00.22.02_10_002 REINFORCING STEEL	126272	LB	47,516	8,078	1,668	5,726	315	18,991	82,294	0.65
TOTAL Paving			70,908	12,054	2,489	8,545	470	28,340	122,806	
14_00.22.02_14 CURB										
14_00.22.02_14_-	2700.00	LF	19,521	3,319	685	2,352	129	7,802	33,809	12.52

		QUANTITY UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL CURB			19,521	3,319	685	2,352	129	7,802	33,809	
14_00.22.02_15 SIDEWALK										
14_00.22.02_15_001	CONCRETE	164.00 CY	11,795	2,005	414	1,421	78	4,714	20,428	124.56
14_00.22.02_15_002	REINFORCING STEEL	12104 LB	4,555	774	160	549	30	1,820	7,888	0.65
TOTAL SIDEWALK			16,350	2,779	574	1,970	108	6,535	28,317	
TOTAL Site Work			240,060	40,810	8,426	28,930	1,591	95,945	415,763	
TOTAL Parking Lots and Service Roads			240,060	40,810	8,426	28,930	1,591	95,945	415,763	
14_00.71 Activity Guides and Controls										
14_00.71.06 Wood and Plastic										
14_00.71.06_02 Kiosks										
14_00.71.06_02_001	CONCRETE	44.10 CY	5,064	861	178	610	34	2,024	8,770	198.86
14_00.71.06_02_002	AGGREGATE BASE	55.80 CY	1,660	282	58	200	11	664	2,875	51.53
14_00.71.06_02_003	SUBGRADE	333.30 SY	285	48	10	34	2	114	494	1.46
14_00.71.06_02_004	5'x 5' PREFAB STRUCTURE	6.00 EA	3,000	510	105	362	20	1,199	5,196	865.95
TOTAL Kiosks			10,009	1,702	351	1,206	66	4,000	17,335	
TOTAL Wood and Plastic			10,009	1,702	351	1,206	66	4,000	17,335	
TOTAL Activity Guides and Controls			10,009	1,702	351	1,206	66	4,000	17,335	
14_00.72 Day Use Areas										
14_00.72.02 Site Work										
14_00.72.02_99A EQUESTRIAN TRAILS										
14_00.72.02_99A_001	CLEAR AND GRUB	8.20 AC	13,940	2,370	489	1,680	92	5,571	24,143	2944.25
TOTAL EQUESTRIAN TRAILS			13,940	2,370	489	1,680	92	5,571	24,143	
14_00.72.02_99B NATURE TRAIL										
14_00.72.02_99B_001	CLEAR AND GRUB	2.40 AC	4,080	694	143	492	27	1,631	7,066	2944.25
TOTAL NATURE TRAIL			4,080	694	143	492	27	1,631	7,066	

Tri-Service Automated Cost Estimating System (TRACES)  
 PROJECT FLDWY3: DALLAS FLYWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 \*\* PROJECT INDIRECT SUMMARY - Level 6 \*\*

		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT		
14_00.72.02_99C HIKE AND BIKE TRAIL													
14_00.72.02_99C_001	TRAIL EXCAVATION	11722	CY	28,036	4,766	984	3,379	186	11,205	48,555	4.14		
14_00.72.02_99C_002	COMPACTION OF SUBGRADE	105600	SY	86,456	14,698	3,035	10,419	573	34,554	149,734	1.42		
14_00.72.02_99C_003	REINFORCING STEEL	728957	LB	335,685	57,066	11,783	40,453	2,225	134,164	581,376	0.80		
14_00.72.02_99C_004	CONCRETE PAVEMENT	11722	CY	1,911,107	324,888	67,080	230,307	12,667	763,815	3,309,864	282.36		
TOTAL HIKE AND BIKE TRAIL				2,361,283	401,418	82,881	284,558	15,651	943,737	4,089,528			
TOTAL Site Work				2,379,303	404,482	83,514	286,730	15,770	950,939	4,120,737			
14_00.72.06 Wood and Plastic													
14_00.72.06_01 PICNIC SHELTER													
14_00.72.06_01_001	11' x 14' STRUCTURE	19.00	EA	58,520	9,948	2,054	7,052	388	23,389	101,351	5334.28		
14_00.72.06_01_002	CONCRETE SLAB	49.40	CY	5,659	962	199	682	38	2,262	9,802	198.41		
14_00.72.06_01_003	REINFORCING STEEL	5396.00	LB	2,485	422	87	299	16	993	4,304	0.80		
14_00.72.06_01_004	PREFAB PICNIC TABLE	34.00	EA	27,200	4,624	955	3,278	180	10,871	47,108	1385.53		
TOTAL PICNIC SHELTER				19.00	EA	93,864	15,957	3,295	11,312	622	37,515	162,564	8556.02
14_00.72.06_02 REST STOP SHELTER													
14_00.72.06_02_001	10' x 10' STRUCTURE	10.00	EA	20,000	3,400	702	2,410	133	7,993	34,638	3463.82		
14_00.72.06_02_002	CONCRETE SLAB	19.20	CY	2,200	374	77	265	15	879	3,809	198.41		
14_00.72.06_02_003	REINFORCING STEEL	2095.00	LB	965	164	34	116	6	386	1,671	0.80		
14_00.72.06_02_004	8' PREFAB BENCH	10.00	EA	3,000	510	105	362	20	1,199	5,196	519.57		
TOTAL REST STOP SHELTER				10.00	EA	26,164	4,448	918	3,153	173	10,457	45,314	4531.43
14_00.72.06_03 PICNIC PAVILLIONS													
14_00.72.06_03_001	CONCRETE	148.00	CY	17,010	2,892	597	2,050	113	6,798	29,459	199.05		
14_00.72.06_03_002	AGGREGATE BASE	200.00	CY	5,951	1,012	209	717	39	2,378	10,306	51.53		
14_00.72.06_03_003	SUBGRADE	1200.00	SY	995	169	35	120	7	397	1,722	1.44		
14_00.72.06_03_004	30'x60' PREFAB STRUCTURE	6.00	EA	69,288	11,779	2,432	8,350	459	27,692	120,001	20000		
TOTAL PICNIC PAVILLIONS				93.243		15,851	3,273	11,237	618	37,267	161,489		
TOTAL Wood and Plastic				213.272		36,256	7,486	25,701	1,414	85,239	369,367		
TOTAL Day Use Areas				2,592.575		440,738	90,999	312,431	17,184	1,036,178	4,490,105		
14_00.99 Associated General Items													
14_00.99.02 Site Work													



Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 \*\* PROJECT INDIRECT SUMMARY - Level 6 \*\*

		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
-----											
14_00.99.02_99A SIGNAGE											
14_00.99.02_99A_ -				10,000	1,700	351	1,205	66	3,997	17,319	
TOTAL SIGNAGE				10,000	1,700	351	1,205	66	3,997	17,319	
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14_00.99.02_99B 150 LF PEDESTRIAN BRIDGES											
14_00.99.02_99B_001	PRESTRESSED"C" BEAMS	600.00	LF	23,070	3,922	810	2,780	153	9,220	39,955	66.59
14_00.99.02_99B_002	CONCRETE CAP	12.67	CY	3,489	593	122	420	23	1,394	6,042	476.86
14_00.99.02_99B_003	CONCRETE - ABUTMENT	37.20	CY	11,382	1,935	399	1,372	75	4,549	19,712	529.89
14_00.99.02_99B_004	CONCRETE - 42" COLUMN	35.60	CY	9,802	1,666	344	1,181	65	3,918	16,976	476.86
14_00.99.02_99B_005	CONCRETE - DECK	55.60	CY	11,636	1,978	408	1,402	77	4,651	20,152	362.45
14_00.99.02_99B_006	REINFORCING STEEL	19698	LB	9,071	1,542	318	1,093	60	3,625	15,710	0.80
14_00.99.02_99B_007	18" DRILLED SHAFT	240.00	LF	7,361	1,251	258	887	49	2,942	12,748	53.12
14_00.99.02_99B_008	42" DRILLED SHAFT	240.00	LF	19,921	3,387	699	2,401	132	7,962	34,501	143.75
14_00.99.02_99B_009	PIPERAIL	5142.00	LB	17,697	3,008	621	2,133	117	7,073	30,649	5.96
TOTAL 150 LF PEDESTRIAN BRIDGES		2.00	EA	113,427	19,283	3,981	13,669	752	45,334	196,446	98223
TOTAL Site Work				123,427	20,983	4,332	14,874	818	49,330	213,765	
TOTAL Associated General Items				123,427	20,983	4,332	14,874	818	49,330	213,765	
TOTAL Recreation Facilities				3,053,670	519,124	107,184	367,998	20,240	1,226,300	5,294,515	
TOTAL Recreation Facilities				3,053,670	519,124	107,184	367,998	20,240	1,226,300	5,294,515	
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18 Cultural Resource Preservation											
18_00 Cultural Resource Preservation				750,000	0	0	0	0	187,500	937,500	
TOTAL Cultural Resource Preservation		1.00		750,000	0	0	0	0	187,500	937,500	937500
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30 Planning, Engineering and Design											
30_11 Project Cooperatn Agreement (PCA)											
30_11.01 Initial Draft PCA Package											
30_11.01.01	Initial Draft PCA			4,000	0	0	0	0	1,000	5,000	
30_11.01.02	Fed/Non-Fed AllocatnOfFunds Tabl			1,600	0	0	0	0	400	2,000	
30_11.01.03	Deviation Report			800	0	0	0	0	200	1,000	
30_11.01.04	Certification of Legal Review			4,000	0	0	0	0	1,000	5,000	
30_11.01.05	MSC Review Comments			1,600	0	0	0	0	400	2,000	
TOTAL Initial Draft PCA Package		1.00		12,000	0	0	0	0	3,000	15,000	15000
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		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_11.02 Final Draft PCA Package											
30_11.02.01	Final Draft PCA			4,000	0	0	0	0	1,000	5,000	
30_11.02.02	Fed/Non-Fed AllocatnOfFunds Tabl			1,600	0	0	0	0	400	2,000	
30_11.02.03	Deviation Report			800	0	0	0	0	200	1,000	
30_11.02.04	Certification of Legal Review			1,600	0	0	0	0	400	2,000	
30_11.02.05	SponsrFinac Plan&Stmt ofFinacCap			1,600	0	0	0	0	400	2,000	
30_11.02.06	Project Fact Sht/Project Data Sht			2,400	0	0	0	0	600	3,000	
30_11.02.07	Computation of Cost Sharing			1,600	0	0	0	0	400	2,000	
30_11.02.08	Final Draft 3rd Party Sub-Agreem			1,600	0	0	0	0	400	2,000	
30_11.02.09	MSC Review Comments			800	0	0	0	0	200	1,000	
	TOTAL Final Draft PCA Package	1.00		16,000	0	0	0	0	4,000	20,000	20000
30_11.03 Min.of HQUSACE PCA ReviewComMeet											
				2,400	0	0	0	0	600	3,000	
30_11.04 Executed PCA											
30_11.04.01	MSC Approved PCA	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.04.02	HQUSACE Approved PCA	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.04.03	ASA(CW) Approved PCA	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.04.04	OMB Approved PCA	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.04.05	Local Sponsor Executive PCA	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.04.06	ASA(CW) Executed PCA	1.00		1,600	0	0	0	0	400	2,000	2000.00
	TOTAL Executed PCA	1.00		9,600	0	0	0	0	2,400	12,000	12000
30_11.05 Escrow Agreement											
30_11.05.01	HQUSACE Approved Escrow Agreeemnt	1.00		4,000	0	0	0	0	1,000	5,000	5000.00
30_11.05.02	Executed Escrow Agreement	1.00		4,000	0	0	0	0	1,000	5,000	5000.00
	TOTAL Escrow Agreement	1.00		8,000	0	0	0	0	2,000	10,000	10000
30_11.06 Initial Draft PCA Amendment Pkg.											
30_11.06.01	Initial Draft PCA Amendment	1.00		3,200	0	0	0	0	800	4,000	4000.00
30_11.06.02	Amended Fed/Non-Fed Allocatn of	1.00		800	0	0	0	0	200	1,000	1000.00
30_11.06.03	Amended Deviation Report	1.00		800	0	0	0	0	200	1,000	1000.00
30_11.06.04	Amended Certificatn of Legl Revw	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.06.05	Initial Draft Amendment MSC	1.00		1,600	0	0	0	0	400	2,000	2000.00
	TOTAL Initial Draft PCA Amendment Pkg.	1.00		8,000	0	0	0	0	2,000	10,000	10000
30_11.07 Final Draft PCA Ammendment Pkg.											
30_11.07.01	Final Draft PCA Amendment	1.00		1,600	0	0	0	0	400	2,000	2000.00
30_11.07.02	Amended Fed/Non-Fed Allocatn of	1.00		800	0	0	0	0	200	1,000	1000.00

Tri-Service Automated Cost Estimating System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 \*\* PROJECT INDIRECT SUMMARY - Level 6 \*\*

	QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_11.07.03	Amended Deviation Report	1.00	800	0	0	0	0	200	1,000	1000.00
30_11.07.04	Amended Certificatn of Legl Revw	1.00	800	0	0	0	0	200	1,000	1000.00
30_11.07.05	Ammended Sponsr's Financing Plan	1.00	800	0	0	0	0	200	1,000	1000.00
30_11.07.06	Amended Project Fact Sheet/Proj.	1.00	800	0	0	0	0	200	1,000	1000.00
30_11.07.07	Computatn of Amended Cost Sharing	1.00	800	0	0	0	0	200	1,000	1000.00
30_11.07.08	Amended Final Draft 3rd Party	1.00	800	0	0	0	0	200	1,000	1000.00
30_11.07.09	Final Draft Amendmt MSC Revw Com	1.00	800	0	0	0	0	200	1,000	1000.00
	TOTAL Final Draft PCA Ammdment Pkg.	1.00	8,000	0	0	0	0	2,000	10,000	10000
30_11.08	Minutes of HQUSACE PCA Amendmnt	1.00	2,400	0	0	0	0	600	3,000	3000.00
30_11.09	Executed PCA Amendment									
30_11.09.01	MSC Approved PCA Amendment	1.00	1,600	0	0	0	0	400	2,000	2000.00
30_11.09.02	HQUSACE Approved PCA Amendment	1.00	1,600	0	0	0	0	400	2,000	2000.00
30_11.09.03	ASA(CW) Approved PCA Amendment	1.00	1,600	0	0	0	0	400	2,000	2000.00
30_11.09.04	OMB Approved PCA Amendment	1.00	1,600	0	0	0	0	400	2,000	2000.00
30_11.09.05	Local Sponsr Exe. PCA Amendment	1.00	1,600	0	0	0	0	400	2,000	2000.00
30_11.09.06	ASA(CW) Executed PCA Amendment	1.00	1,600	0	0	0	0	400	2,000	2000.00
	TOTAL Executed PCA Amendment	1.00	9,600	0	0	0	0	2,400	12,000	12000
30_11.10	Amendments to Escrow Agreement									
30_11.10.01	HQUSACE Approved Amended Escrow	1.00	2,400	0	0	0	0	600	3,000	3000.00
30_11.10.02	Executed Amended Escrow Agreeemnt	1.00	1,600	0	0	0	0	400	2,000	2000.00
	TOTAL Amendments to Escrow Agreement	1.00	4,000	0	0	0	0	1,000	5,000	5000.00
	TOTAL Project Cooperatn Agreeemnt (PCA)	1.00	80,000	0	0	0	0	20,000	100,000	100000
30_12	Project Management Plan (PMP)									
30_12.02	Revisions to PMP	1.00	16,000	0	0	0	0	4,000	20,000	20000
	TOTAL Project Management Plan (PMP)	1.00	16,000	0	0	0	0	4,000	20,000	20000
30_18	Gnrl Reevaln Rep (GRR) 97/98									
30_18.01	Engineering Analysis/Report									
30_18.01.01	Surveys&Mapp'g Except Real Estat	1.00 ea	22,000	0	0	0	0	5,500	27,500	27500
30_18.01.03	Hydrology and Hydraulic Studies	1.00 ea	102,000	0	0	0	0	25,500	127,500	127500
30_18.01.04	Engineering and Design Analysis	1.00 ea	176,000	0	0	0	0	44,000	220,000	220000
30_18.01.05	Geotechnical Studies Report	1.00 ea	84,000	0	0	0	0	21,000	105,000	105000
	TOTAL Engineering Analysis/Report	1.00 ea	384,000	0	0	0	0	96,000	480,000	480000

		QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_18.02 Socio/Economic Analysis/Report											
30_18.02.01	Economic Analysis/Report	1.00	ea	60,000	0	0	0	0	15,000	75,000	75000
30_18.02.02	Social Studies/Report	1.00	ea	4,000	0	0	0	0	1,000	5,000	5000.00
30_18.02.04	Ability to Pay Report	1.00	ea	4,000	0	0	0	0	1,000	5,000	5000.00
TOTAL Socio/Economic Analysis/Report		1.00	ea	68,000	0	0	0	0	17,000	85,000	85000
30_18.04 Environmental Studies Documents											
30_18.04.02	Biological Assessment	1.00	EA	12,800	0	0	0	0	3,200	16,000	16000
30_18.04.04	Environmntl Impact Statmnt (EIS)	1.00	EA	51,200	0	0	0	0	12,800	64,000	64000
30_18.04.05	Coordinatn Documts w/Other Agenc	1.00	EA	4,400	0	0	0	0	1,100	5,500	5500.00
30_18.04.07	Mitigation Analysis Report	1.00	EA	12,800	0	0	0	0	3,200	16,000	16000
30_18.04.08	Fish & Wildlife Coordinat'n Act	1.00	EA	20,000	0	0	0	0	5,000	25,000	25000
30_18.04.09	Section 404(b)(1) Analysis Reprt	1.00	EA	12,800	0	0	0	0	3,200	16,000	16000
30_18.04.10	401 State Water Quality Certifcn	1.00	EA	8,800	0	0	0	0	2,200	11,000	11000
30_18.04.11	Record of Decision (ROD)	1.00	EA	4,400	0	0	0	0	1,100	5,500	5500.00
30_18.04.12	Section 103 Evaluation	1.00	EA	4,400	0	0	0	0	1,100	5,500	5500.00
30_18.04.13	Statement of Findings (SOF)	1.00	EA	8,400	0	0	0	0	2,100	10,500	10500
TOTAL Environmental Studies Documents		1.00	ea	140,000	0	0	0	0	35,000	175,000	175000
30_18.05 HTRW/RCRA Studies Report											
30_18.05.01	HTRW Assessment Report	1.00	EA	21,200	0	0	0	0	5,300	26,500	26500
30_18.05.02	HTRW Site Inspection Report	1.00	EA	21,200	0	0	0	0	5,300	26,500	26500
30_18.05.03	HTRW Remedial Investigations	1.00	EA	536,800	0	0	0	0	134,200	671,000	671000
TOTAL HTRW/RCRA Studies Report		1.00	EA	579,200	0	0	0	0	144,800	724,000	724000
30_18.06 Culturl Resource Studies Documts											
30_18.06.01	Survey Field Report	1.00	EA	12,800	0	0	0	0	3,200	16,000	16000
30_18.06.02	Data Collectn & Analysis Report	1.00	EA	50,000	0	0	0	0	12,500	62,500	62500
30_18.06.03	National Register Eligibility	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_18.06.06	Mitigation Plan Report	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00
30_18.06.07	Memorandum of Agreement	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00
TOTAL Culturl Resource Studies Documts		1.00	EA	70,800	0	0	0	0	17,700	88,500	88500
30_18.07 Cost Estimates											
30_18.07.01	GRR-Study Cost Estimates	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00
30_18.07.02	PED Cost Estimate	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00
30_18.07.03	Project Cost Estimate	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_18.07.04	OMRR&R Cost Estimate Updates	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 \*\* PROJECT INDIRECT SUMMARY - Level 6 \*\*

		QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_18.07.05	Fully Funded Cost Estimate	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00
30_18.07.06	All Other Cost Estimates	1.00	EA	2,000	0	0	0	0	500	2,500	2500.00
TOTAL Cost Estimates		1.00	EA	22,000	0	0	0	0	5,500	27,500	27500
30_18.08 Public Involvement Document											
30_18.08.01	Notice of Public Meeting	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_18.08.02	Minutes of Public Meeting	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_18.08.03	Public Comments Report	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_18.08.04	Newsletters	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_18.08.05	All Other Public Involvmnt Docs.	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
TOTAL Public Involvement Document		1.00	EA	40,000	0	0	0	0	10,000	50,000	50000
30_18.09	Plan Formulatr & Evaluatr Rprts	1.00	EA	6,000	0	0	0	0	1,500	7,500	7500.00
30_18.10 Draft Report Documentation											
30_18.10.01	Review Conference Documents	1.00	EA	18,000	0	0	0	0	4,500	22,500	22500
30_18.10.02	In-House Review Comments	1.00	EA	32,000	0	0	0	0	8,000	40,000	40000
30_18.10.03	Public Review Comments	1.00	EA	500,000	0	0	0	0	125,000	625,000	625000
30_18.10.04	Project Guidance Memorandum (PGM)	1.00	EA	130,000	0	0	0	0	32,500	162,500	162500
30_18.10.05	All Other GRR Documents	1.00	EA	80,000	0	0	0	0	20,000	100,000	100000
TOTAL Draft Report Documentation		1.00	EA	760,000	0	0	0	0	190,000	950,000	950000
30_18.11 Final Report Documentation											
30_18.11.01	Division Commanders Notice	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_18.11.02	All Other Final Report Documents	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
TOTAL Final Report Documentation		1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_18.13	All Other Studies/Investigations	1.00	EA	104,000	0	0	0	0	26,000	130,000	130000
30_18.15 Management											
30_18.15.01	AE Contract Documents	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_18.15.02	Study Funds Control Documents	1.00	EA	22,000	0	0	0	0	5,500	27,500	27500
30_18.15.03	Trip Reports	1.00	EA	12,800	0	0	0	0	3,200	16,000	16000
30_18.15.04	Coordination Documents	1.00	EA	76,000	0	0	0	0	19,000	95,000	95000
30_18.15.05	Minutes of Technical Review Conf	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_18.15.06	All Other Management Documents	1.00	EA	3,200	0	0	0	0	800	4,000	4000.00
TOTAL Management		1.00	EA	122,000	0	0	0	0	30,500	152,500	152500
30_18.99	PRIOR TO 1996 (INCL PPMG)	1.00		2,251,000	0	0	0	0	0	2,251,000	2251000

	QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL Gnr1 Reevaln Rep (GRR) 97/98	1.00	ea	4,555,000	0	0	0	0	576,000	5,131,000	5131000
30_20 Project Design Memorandum										
30_20.01 Engineering Analysis/Report										
30_20.01.01	1.00	EA	372,000	0	0	0	0	93,000	465,000	465000
30_20.01.03	1.00	EA	24,000	0	0	0	0	6,000	30,000	30000
30_20.01.04	1.00	EA	628,800	0	0	0	0	157,200	786,000	786000
30_20.01.05	1.00	EA	80,800	0	0	0	0	20,200	101,000	101000
TOTAL Engineering Analysis/Report	1.00	EA	1,105,600	0	0	0	0	276,400	1,382,000	1382000
30_20.02 Socio/Economic Analysis/Report										
30_20.02.01	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_20.02.04	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
TOTAL Socio/Economic Analysis/Report	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_20.04 Environmental Studies Documents										
30_20.04.02	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.04.05	1.00	EA	800	0	0	0	0	200	1,000	1000.00
30_20.04.07	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.04.08	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.04.09	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.04.10	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.04.11	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.04.12	1.00	EA	800	0	0	0	0	200	1,000	1000.00
30_20.04.13	1.00	EA	800	0	0	0	0	200	1,000	1000.00
TOTAL Environmental Studies Documents	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_20.05 HTRW/RCRA Studies Report										
30_20.05.01	1.00	EA	20,000	0	0	0	0	4,000	24,000	24000
30_20.05.02	1.00	EA	20,000	0	0	0	0	4,000	24,000	24000
30_20.05.03	1.00	EA	441,620	0	0	0	0	88,324	529,944	529944
TOTAL HTRW/RCRA Studies Report	1.00	EA	481,620	0	0	0	0	96,324	577,944	577944
30_20.06 Cultural Resource Studies Documents										
30_20.06.01	1.00	EA	48,000	0	0	0	0	12,000	60,000	60000
30_20.06.02	1.00	EA	440,000	0	0	0	0	110,000	550,000	550000

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
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		QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_20.06.03	National Register Eligibility	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_20.06.04	No Effects Determination	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.06.05	No Adverse Effects Determination	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.06.06	Mitigation Plan Report	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_20.06.07	Memorandum of Agreement	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_20.06.08	One Percent Waiver	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
TOTAL Cultural Resource Studies Documnts		1.00	EA	512,800	0	0	0	0	128,200	641,000	641000
30_20.07 Cost Estimates											
30_20.07.01	PDM-Study Cost Estimates	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.07.02	PED Cost Estimate	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.07.03	Project Cost Estimate	1.00	EA	14,400	0	0	0	0	3,600	18,000	18000
30_20.07.04	OMRR&R Cost Estimate Updates	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.07.06	All Other Cost Estimates	1.00	EA	800	0	0	0	0	200	1,000	1000.00
TOTAL Cost Estimates		1.00	EA	20,000	0	0	0	0	5,000	25,000	25000
30_20.08 Final Report Documentation											
30_20.08.01	Minutes of Review Conference	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_20.08.02	In-House Review Comments	1.00	EA	32,000	0	0	0	0	8,000	40,000	40000
30_20.08.03	Public Review Comments	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_20.08.04	All Other Report Documents	1.00	EA	10,400	0	0	0	0	2,600	13,000	13000
TOTAL Final Report Documentation		1.00	EA	52,000	0	0	0	0	13,000	65,000	65000
30_20.09	All Other Studies/Invest (re/rec)	1.00	EA	52,000	0	0	0	0	13,000	65,000	65000
30_20.11 Management											
30_20.11.01	AE Contract Documents	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_20.11.02	Coordination Documents	1.00	EA	24,000	0	0	0	0	6,000	30,000	30000
30_20.11.03	Minutes of Technical Review Conf	1.00	EA	2,400	0	0	0	0	600	3,000	3000.00
30_20.11.04	All Other Management Documents	1.00	EA	9,200	0	0	0	0	2,300	11,500	11500
TOTAL Management		1.00	EA	39,600	0	0	0	0	9,900	49,500	49500
TOTAL Project Design Memorandum		1.00		2,287,620	0	0	0	0	547,824	2,835,444	2835444
30_23 Constructn Contracts(s) Documnts											
30_23.01 Plans and Specifications (P&S)											
30_23.01.01	Field Investigation Report	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_23.01.02	Plans and Specifications	1.00	EA	386,400	0	0	0	0	96,600	483,000	483000
30_23.01.03	Permits for Construction	1.00	EA	16,000	0	0	0	0	4,000	20,000	20000

		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_23.01.04	BCO Review Certification	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
	TOTAL Plans and Specifications (P&S)	1.00	EA	418,400	0	0	0	0	104,600	523,000	523000
30_23.04 Environmental Studies Documents											
30_23.04.01	Coordinatn Documts w/Other Agenc	1.00	EA	800	0	0	0	0	200	1,000	1000.00
30_23.04.03	Mitigation Analysis Report	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.04.04	Fish & Wildlife Coordinat'n Act	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.04.05	401 State Water Quality Certificn	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.04.06	Section 404(b)(1) Analysis Reprt	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.04.07	Record of Decision (ROD)	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.04.09	Planning RCRA Permits	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.04.10	NPDES Permit	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.04.11	Air Emissions Permits	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
	TOTAL Environmental Studies Documents	1.00	EA	28,800	0	0	0	0	7,200	36,000	36000
30_23.05 HTRW Studies/Report											
30_23.05.02	USACE HTRW Study/Report	1.00	EA	819,950	0	0	0	0	163,990	983,940	983940
	TOTAL HTRW Studies/Report	1.00	EA	819,950	0	0	0	0	163,990	983,940	983940
30_23.06 Cultural Resource Studies Documts											
30_23.06.01	Site Investigation Surveys	1.00	EA	480,000	0	0	0	0	120,000	600,000	600000
30_23.06.02	National Register Eligibility	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.06.03	No effects Determination	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.06.04	No Adverse Effects Determination	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.06.05	Mitigation Plan Report	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_23.06.06	Memorandum of Agreement	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.06.07	One Percent Waiver	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
	TOTAL Cultural Resource Studies Documts	1.00	EA	512,800	0	0	0	0	128,200	641,000	641000
30_23.07 Cost Estimates											
30_23.07.01	Contract Cost Estimates	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.07.02	PED Cost Estimate	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.07.03	Project Cost Estimate	1.00	EA	14,400	0	0	0	0	3,600	18,000	18000
30_23.07.04	OMRR&R Cost Estimate Updates	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_23.07.06	All Other Cost Estimates	1.00	EA	800	0	0	0	0	200	1,000	1000.00
	TOTAL Cost Estimates	1.00	EA	20,000	0	0	0	0	5,000	25,000	25000
30_23.08	Other Studies/Investigations	1.00	EA	40,000	0	0	0	0	10,000	50,000	50000



	QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_23.09 Contract Award Documents										
30_23.09.01	Contract Negotiatn/Award Documnt	1.00 EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.09.02	CBD Announcement	1.00 EA	3,200	0	0	0	0	800	4,000	4000.00
30_23.09.03	Advertised/RFP Contract	1.00 EA	3,200	0	0	0	0	800	4,000	4000.00
30_23.09.04	Davis Bacon Wage Rates	1.00 EA	3,200	0	0	0	0	800	4,000	4000.00
30_23.09.05	Abstract of Bids/Record of Negot	1.00 EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.09.06	Reasonable Contract Cost Estimnt	1.00 EA	9,600	0	0	0	0	2,400	12,000	12000
30_23.09.07	Awarded Contract	1.00 EA	8,000	0	0	0	0	2,000	10,000	10000
30_23.09.08	Notice to Proceed	1.00 EA	4,800	0	0	0	0	1,200	6,000	6000.00
	TOTAL Contract Award Documents	1.00 EA	48,000	0	0	0	0	12,000	60,000	60000
30_23.10	Eng & Design During Const Docs	1.00 EA	400,000	0	0	0	0	100,000	500,000	500000
30_23.14 Management Documents										
30_23.14.01	AE Contract Documents	1.00 EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_23.14.02	Amendments to Plans & Specificatn	1.00 EA	24,000	0	0	0	0	6,000	30,000	30000
30_23.14.03	Coordination Documents	1.00 EA	64,000	0	0	0	0	16,000	80,000	80000
30_23.14.04	All Other Management Documents	1.00 EA	8,000	0	0	0	0	2,000	10,000	10000
	TOTAL Management Documents	1.00 EA	100,000	0	0	0	0	25,000	125,000	125000
30_23.15	Local Sponsor Project Coordinat'n	1.00 EA	16,000	0	0	0	0	4,000	20,000	20000
	TOTAL Constructn Contracts(s) Documnts	1.00 EA	2,403,950	0	0	0	0	559,990	2,963,940	2963940
30_24 Value Engineering Analysis Docmnt										
30_24.01	Value Engineer'n Screen'n/Studie	1.00 EA	40,000	0	0	0	0	10,000	50,000	50000
30_24.02	Value Engineer'n Related Redesgn	1.00 EA	28,000	0	0	0	0	7,000	35,000	35000
	TOTAL Value Engineering Analysis Docmnt	11.00 EA	68,000	0	0	0	0	17,000	85,000	7727.27
30_25 Project or Functional Element										
30_25.01 Physical Closeout Documents										
30_25.01.01	Minutes of Final Inspection	1.00 EA	2,400	0	0	0	0	600	3,000	3000.00
30_25.01.02	Project Dedication Ceremony	1.00 EA	8,000	0	0	0	0	2,000	10,000	10000
	TOTAL Physical Closeout Documents	1.00 EA	10,400	0	0	0	0	2,600	13,000	13000
30_25.02 Project Fiscal Closeout Documnts										
30_25.02.01	Local Sponsor Audit	1.00 EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_25.02.02	USACE Audit	1.00 EA	8,000	0	0	0	0	2,000	10,000	10000

		QUANTITY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
30_25.02.03	Final Accounting Report	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
	TOTAL Project Fiscal Closeout Documnts	1.00	EA	20,000	0	0	0	0	5,000	25,000	25000
30_25.03	Final Project or Funct'nl Elemnt										
30_25.03.01	Cash Paymt to Balnce Cost Shar'n	1.00	EA	1,600	0	0	0	0	400	2,000	2000.00
30_25.03.02	OMRR&R Manual	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_25.03.03	Written Notice of Completion and	1.00	EA	2,400	0	0	0	0	600	3,000	3000.00
	TOTAL Final Project or Funct'nl Elemnt	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
	TOTAL Project or Functional Element	1.00	EA	42,400	0	0	0	0	10,600	53,000	53000
30_26	Programs & Project Managmt Dcmnt										
30_26.01	Project Coordination Documents	1.00	EA	100,000	0	0	0	0	25,000	125,000	125000
30_26.02	Funds Control Documents	1.00	EA	36,000	0	0	0	0	9,000	45,000	45000
30_26.03	Trip Records	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_26.04	Upward Reporting Documents	1.00	EA	16,000	0	0	0	0	4,000	20,000	20000
30_26.05	Budgetary Documents	1.00	EA	28,000	0	0	0	0	7,000	35,000	35000
30_26.06	Project Authorization Documents	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_26.07	Annual Notification Letter to	1.00	EA	4,000	0	0	0	0	1,000	5,000	5000.00
30_26.08	Fact Sheets	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_26.09	Corrspndnce (Congress'nl, State)	1.00	EA	16,000	0	0	0	0	4,000	20,000	20000
30_26.10	Schedule and Cost Changes(SACCR)	1.00	EA	12,000	0	0	0	0	3,000	15,000	15000
30_26.11	Project Work Directives	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_26.12	Project Closeout Coordinatn Docs	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_26.13	Qtrtly Cost Reprts to Local Spon	1.00	EA	8,000	0	0	0	0	2,000	10,000	10000
30_26.99	GRR (FY97 & FY98)	1.00	EA	125,600	0	0	0	0	31,400	157,000	157000
	TOTAL Programs & Project Managmt Dcmnt	1.00	EA	389,600	0	0	0	0	97,400	487,000	487000
	TOTAL Planning, Engineering and Design	1.00		9,842,570	0	0	0	0	1,832,814	11,675,384	11675384
31	Construction Management										
31_23	Construction Contracts										
31_23.11	Supervision and Administration										
31_23.11.01	Prjt Office Supervn and Adminstrn			4,266,000	0	0	0	0	1,066,500	5,332,500	
31_23.11.03	District Office S&A Documents			1,100,800	0	0	0	0	275,200	1,376,000	
	TOTAL Supervision and Administration			5,366,800	0	0	0	0	1,341,700	6,708,500	
	TOTAL Construction Contracts			5,366,800	0	0	0	0	1,341,700	6,708,500	

Sat 16 Jan 1999  
Eff. Date 04/02/98

Tri-Service Automated Cost Engineering System (TRACES)  
PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
WITH CONTINGENCIES  
\*\* PROJECT INDIRECT SUMMARY - Level 6 \*\*

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SUMMARY PAGE 30

	QUANTY	UOM	DIRECT	FIELD OH	HOME OFC	PROFIT	BOND	OTHER	TOTAL COST	UNIT
TOTAL Construction Management	1.00	EA	5,366,800	0	0	0	0	1,341,700	6,708,500	6708500
TOTAL DALLAS FLOODWAY EXTENSION LPP	1.00	EA	75,200,896	3,913,058	807,931	2,773,898	152,564	19547152	102,395,500	*****

Sat 16 Jan 1999  
Eff. Date 04/02/96  
ERROR REPORT

Tri-Service Automated Cost En ing System (TRACES)  
PROJECT FLDWY3: DALLAS FLEODWAY EXTENSION LPP  
WITH CONTINGENCIES

16:14:58

ERROR PAGE 1

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No errors detected...

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

Sat 16 Jan 1999  
 Eff. Date 04/02/98  
 DETAILED ESTIMATE

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 01. Lands and Damages

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DETAIL PAGE 1

01_AA. CHAIN OF WETLANDS	QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
01. Lands and Damages									
01_AA. CHAIN OF WETLANDS									
01_AA.23. Constructn Contract(s) Documnts									
01_AA.23.03. Real Estate Analysis Documents									
01_AA.23.03_ 01. Real Estate Planning Documents									
01_AA.23.03_ 01_001. PLANNING BY LOCAL SPONSOR									
USR RE <				0.00	0.00	0.00	2000.00	2000.00	
	1.00	LS		0	0	0	2,000	2,000	2000.00
01_AA.23.03_ 01_002. REVIEW BY LOCAL SPONSOR									
USR RE <				0.00	0.00	0.00	500.00	500.00	
	1.00	LS		0	0	0	500	500	500.00
01_AA.23.03_ 02. Real Estate Acquisition Documnts									
TOTAL ACQUISITION BY LOCAL SPONSOR				0	0	0	63,000	63,000	
TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	5,400	5,400	
01_AA.23.03_ 03. Real Estate Condemnatn Documents									
TOTAL CONDEMNATIONS BY LOCAL SPONSOR				0	0	0	72,000	72,000	
TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	1,800	1,800	
01_AA.23.03_ 05. Real Estate Appraisal Documents									
TOTAL APPRAISALS BY LOCAL SPONSOR				0	0	0	20,000	20,000	
TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	3,000	3,000	
01_AA.23.03_ 15. Real Estate Payment Documents									
Land Payments									
PL 91-646 Payments									
Damage Payments									
Other Payments									
01_AA.23.03_ 15_001. PAYMENTS BY LOCAL SPONSOR (LAND)									
USR R2 <				9000000	643200.00	0.00	0.00	9643200.00	
	1.00	LS		9000000	643,200	0	0	9,643,200	9643200
TOTAL PAYMENTS-LOCAL SPONSOR (DAMAGES)				0	0	0	964,320	964,320	

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 01. Lands and Damages

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DETAIL PAGE 2

01_AA. CHAIN OF WETLANDS	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	5,000	5,000	
TOTAL RealEstate LERRD Crediting Docs				0	0	0	1,000	1,000	
TOTAL Constructn Contract(s) Documnts	1.00	EA		9000000	643,200	0	1,138,020	10,781,220	10781220
TOTAL CHAIN OF WETLANDS				9000000	643,200	0	1,138,020	10,781,220	

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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DETAIL PAGE 3

01_BB. CADILLAC HEIGHTS SPF LEVEE		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
01_BB. CADILLAC HEIGHTS SPF LEVEE										
01_BB.23. Constructn Contract(s) Documnts										
01_BB.23.03. Real Estate Analysis Documents										
01_BB.23.03_ 01. Real Estate Planning Documents										
					0	0	0	4,000	4,000	
					0	0	0	1,000	1,000	
01_BB.23.03_ 02. Real Estate Acquisition Documnts										
					0	0	0	70,000	70,000	
					0	0	0	6,000	6,000	
01_BB.23.03_ 03. Real Estate Condemnatn Documents										
					0	0	0	24,000	24,000	
					0	0	0	600	600	
01_BB.23.03_ 05. Real Estate Appraisal Documents										
					0	0	0	22,000	22,000	
					0	0	0	3,200	3,200	
01_BB.23.03_ 06. Real Estate PL 91-646 Asst. Docs										
					0	0	0	10,000	10,000	
					0	0	0	1,000	1,000	
01_BB.23.03_ 15. Real Estate Payment Documents										
Land Payments										
PL 91-646 Payments										
Damage Payments										
Other Payments										
01_BB.23.03_ 15_001. PAYMENTS BY LOCAL SPONSOR (LAND)										
						2000000	59870.00	0.00	0.00	2059870.00
					1.00 LS	2000000	59,870	0	0	2,059,870 2059870
						0	0	0	205,987	205,987

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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 01. Lands and Damages

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DETAIL PAGE 4

01_BB. CADILLAC HEIGHTS SPF LEVEE		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
01_BB.23.03_15_003. PAYMENTS-LOCAL SPONSOR (PL91-646)										
USR R2 < >										
TOTAL REVIEW OF LOCAL SPONSOR		1.00	LS		2000000	415,830.00	0.00	0.00	2415830.00	
TOTAL RealEstate LERRD Crediting Docs					2000000	415,830	0	0	2,415,830	2415830
					0	0	0	3,000	3,000	
TOTAL Constructn Contract(s) Documnts		1.00	EA		4000000	475,700	0	351,787	4,827,487	4827487
TOTAL CADILLAC HEIGHTS SPF LEVEE					4000000	475,700	0	351,787	4,827,487	



01_CC. LAMAR STREET LEVEE		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
01_CC. LAMAR STREET LEVEE										
01_CC.23. Constructn Contract(s) Documnts										
01_CC.23.03. Real Estate Analysis Documents										
01_CC.23.03_ 01. Real Estate Planning Documents										
	TOTAL PLANNING BY LOCAL SPONSOR				0	0	0	2,000	2,000	
	TOTAL REVIEW BY LOCAL SPONSOR				0	0	0	500	500	
01_CC.23.03_ 02. Real Estate Acquisition Documnts										
	TOTAL ACQUISITION BY LOCAL SPONSOR				0	0	0	147,000	147,000	
	TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	12,600	12,600	
01_CC.23.03_ 03. Real Estate Condemnatn Documents										
	TOTAL CONDEMNATIONS BY LOCAL SPONSOR				0	0	0	108,000	108,000	
	TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	2,600	2,600	
01_CC.23.03_ 05. Real Estate Appraisal Documents										
	TOTAL APPRAISALS BY LOCAL SPONSOR				0	0	0	46,000	46,000	
	TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	6,800	6,800	
01_CC.23.03_ 06. Real Estate PL 91-646 Asst. Docs										
	TOTAL PL 91-646 ASST BY LOCAL SPONSOR				0	0	0	5,000	5,000	
	TOTAL REVIEW OF LOCAL SPONSOR				0	0	0	500	500	
01_CC.23.03_ 15. Real Estate Payment Documents										
	Land Payments									
	PL 91-646 Payments									
	Damage Payments									
	Other Payments									
01_CC.23.03_ 15_001. PAYMENTS BY LOCAL SPONSOR (LAND)										
	USR R2 <									
					3000000	165230.00	0.00	0.00	3165230.00	
	TOTAL PAYMENTS-LOCAL SPONSOR (DAMAGES)	1.00	LS		3000000	165,230	0	0	3,165,230	3165230
					0	0	0	316,523	316,523	
	TOTAL PAYMENTS-LOCAL SPONSOR (PL91-646				0	0	0	800,000	800,000	

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 01. Lands and Damages

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DETAIL PAGE 6

01_CC. LAMAR STREET LEVEE		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL REVIEW OF LOCAL SPONSOR					0	0	0	4,000	4,000	
TOTAL RealEstate LERRD Crediting Docs					0	0	0	2,000	2,000	
01_CC.23.03_18. Real Estate All Other Documents										
TOTAL Constructn Contract(s) Documnts		1.00	EA		3000000	165,230	0	1,453,523	4,618,753	4618753
TOTAL LAMAR STREET LEVEE					3000000	165,230	0	1,453,523	4,618,753	
TOTAL Lands and Damages		1.00	EA		16000000	1,284,130	0	2,943,330	20,227,460	20227460

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02. Relocations										
02_03. Cemetery, Utilities, & Structure										
02_03.18. Utilities										
02_03.18.02. Site Work										
02_03.18.02_01. Trench Excavation										
02_03.18.02_01_001. CADILLAC (STA 94+00) 15" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					296.00	917	1,912	0	2,829	9.56
02_03.18.02_01_002. CADILLAC (STA 102+00) 8" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					158.00	490	1,021	0	1,510	9.56
02_03.18.02_01_003. CADILLAC (STA 112+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					210.00	651	1,356	0	2,007	9.56
02_03.18.02_01_004. CADILLAC (STA 98+00) 8" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 02. Relocations

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)		79.00	CY	CODET	3.10 245	6.46 510	0.00 0	0.00 0	9.56 755	9.56
02_03.18.02_01_005. CADILLAC (STA 34+00) 15" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)		300.00	CY	CODET	3.10 930	6.46 1,938	0.00 0	0.00 0	9.56 2,868	9.56
02_03.18.02_01_006. CADILLAC (STA 81+00) 12" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)		356.00	CY	CODET	3.10 1,103	6.46 2,299	0.00 0	0.00 0	9.56 3,403	9.56
02_03.18.02_01_007. CADILLAC (STA 43+00) 12" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)		213.00	CY	CODET	3.10 660	6.46 1,376	0.00 0	0.00 0	9.56 2,036	9.56
02_03.18.02_01_008. CADILLAC (STA 26+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)		185.00	CY	CODET	3.10 573	6.46 1,195	0.00 0	0.00 0	9.56 1,768	9.56

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLEETWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 02. Relocations

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DETAIL PAGE 9

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_01_009. CADILLAC (STA 66+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil				3.10	6.46	0.00	0.00	9.56	
	192 CY/Hr (147M3)	798.00	CY	CODET	2,473	5,154	0	0	7,628	9.56
02_03.18.02_01_010. CADILLAC (STA 75+80) 12" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil				3.10	6.46	0.00	0.00	9.56	
	192 CY/Hr (147M3)	168.00	CY	CODET	521	1,085	0	0	1,606	9.56
02_03.18.02_01_011. CADILLAC (STA 66+00) 24" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil				3.10	6.46	0.00	0.00	9.56	
	192 CY/Hr (147M3)	445.00	CY	CODET	1,379	2,874	0	0	4,253	9.56
02_03.18.02_01_014. CADILLAC (STA 112+00) 24" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil				3.10	6.46	0.00	0.00	9.56	
	192 CY/Hr (147M3)	222.00	CY	CODET	688	1,434	0	0	2,122	9.56
02_03.18.02_01_015. CADILLAC (STA 111+00) 72" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 02. Relocations

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DETAIL PAGE 10

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW	ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02221 1600 By Hydraulic Excav. - 2 Cy														
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)						3.10	6.46	0.00	0.00	9.56				
						533.00	CY	CODET	1,652	3,443	0	0	5,095	9.56
02_03.18.02_01_019. CADILLAC (STA 10+00) 54" SD														
02000 0000 Site Work														
02200 0000 Earthwork														
02221 0000 Trenching, Backfilling, And Compaction														
02221 1000 Trenching And Continuous Footing Excavation														
02221 1600 By Hydraulic Excav. - 2 Cy														
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)						3.10	6.46	0.00	0.00	9.56				
						5778.00	CY	CODET	17,908	37,321	0	0	55,228	9.56
02_03.18.02_01_020. CADILLAC (STA 62+00) 8" WATER														
02000 0000 Site Work														
02200 0000 Earthwork														
02221 0000 Trenching, Backfilling, And Compaction														
02221 1000 Trenching And Continuous Footing Excavation														
02221 1600 By Hydraulic Excav. - 2 Cy														
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)						3.10	6.46	0.00	0.00	9.56				
						296.00	CY	CODET	917	1,912	0	0	2,829	9.56
02_03.18.02_01_021. CADILLAC (STA 43+50) 6" WATER														
02000 0000 Site Work														
02200 0000 Earthwork														
02221 0000 Trenching, Backfilling, And Compaction														
02221 1000 Trenching And Continuous Footing Excavation														
02221 1600 By Hydraulic Excav. - 2 Cy														
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)						3.10	6.46	0.00	0.00	9.56				
						326.00	CY	CODET	1,010	2,106	0	0	3,116	9.56
02_03.18.02_01_023. CADILLAC (STA 26+00) 8" WATER														
02000 0000 Site Work														
02200 0000 Earthwork														
02221 0000 Trenching, Backfilling, And Compaction														
02221 1000 Trenching And Continuous Footing Excavation														
02221 1600 By Hydraulic Excav. - 2 Cy														
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)						3.10	6.46	0.00	0.00	9.56				
						296.00	CY	CODET	917	1,912	0	0	2,829	9.56

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Tri-Service Automated Cost Estimating System (TRACES)  
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 WITH CONTINGENCIES  
 02. Relocations

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DETAIL PAGE 11

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_01_024. LAMAR (STA 27+00-34+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					672.00	2,083	4,340	0	6,423	9.56
FOR PIPE REMOVAL										
02_03.18.02_01_025. LAMAR (STA 70+00) 12" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					179.00	555	1,156	0	1,711	9.56
02_03.18.02_01_026. LAMAR (STA 90+00) 24" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					262.00	812	1,692	0	2,504	9.56
02_03.18.02_01_027. LAMAR (STA 106+00) 15" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil					3.10	6.46	0.00	0.00	9.56	
192 CY/Hr (147M3)					148.00	459	956	0	1,415	9.56
02_03.18.02_01_028. LAMAR (STA 117+00) 48" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 02. Relocations

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02221 1000 Trenching And Continuous Footing Excavation													
02221 1600 By Hydraulic Excav. - 2 Cy													
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil													
		192	CY/Hr	(147M3)	9533.00	CY	CODET	3.10	6.46	0.00	0.00	9.56	
					29,546		61,575	0	0	91,120	9.56		
02_03.18.02_01_029. LAMAR (STA 25+00) 54" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 1000 Trenching And Continuous Footing Excavation													
02221 1600 By Hydraulic Excav. - 2 Cy													
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil													
		289	CY/Hr	(147M3)	289.00	CY	CODET	3.10	6.46	0.00	0.00	9.56	
					896		1,867	0	0	2,762	9.56		
02_03.18.02_01_030. LAMAR (STA 47+00) 48" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 1000 Trenching And Continuous Footing Excavation													
02221 1600 By Hydraulic Excav. - 2 Cy													
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil													
		311	CY/Hr	(147M3)	311.00	CY	CODET	3.10	6.46	0.00	0.00	9.56	
					964		2,009	0	0	2,973	9.56		
02_03.18.02_01_031. LAMAR (STA 77+50) 24" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 1000 Trenching And Continuous Footing Excavation													
02221 1600 By Hydraulic Excav. - 2 Cy													
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil													
		333	CY/Hr	(147M3)	333.00	CY	CODET	3.10	6.46	0.00	0.00	9.56	
					1,032		2,151	0	0	3,183	9.56		
02_03.18.02_01_032. LAMAR (STA 77+50) 30" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 1000 Trenching And Continuous Footing Excavation													
02221 1600 By Hydraulic Excav. - 2 Cy													
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil													
		150	CY/Hr	(147M3)	150.00	CY	CODET	3.10	6.46	0.00	0.00	9.56	
					465		969	0	0	1,434	9.56		



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02_03. Cemetery, Utilities, & Structure		QUANTY	UCM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_01_033. LAMAR (STA 77+50) 42" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 >	Trench, 2 CY Hyd Excav, Med Soil			3.10	6.46	0.00	0.00	9.56	
		192 CY/Hr (147M3)	1359.00	CY CODET	4,212	8,778	0	0	12,990	9.56
02_03.18.02_01_034. LAMAR (STA 77+50) 60" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 >	Trench, 2 CY Hyd Excav, Med Soil			3.10	6.46	0.00	0.00	9.56	
		192 CY/Hr (147M3)	4252.00	CY CODET	13,178	27,464	0	0	40,642	9.56
02_03.18.02_01_035. LAMAR (STA 119+00) 66" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 >	Trench, 2 CY Hyd Excav, Med Soil			3.10	6.46	0.00	0.00	9.56	
		192 CY/Hr (147M3)	3378.00	CY CODET	10,470	21,819	0	0	32,289	9.56
02_03.18.02_01_036. LAMAR (STA 27+00) 12" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
	L MIL A4 <02221 1602 >	Trench, 2 CY Hyd Excav, Med Soil			3.10	6.46	0.00	0.00	9.56	
		192 CY/Hr (147M3)	133.00	CY CODET	412	859	0	0	1,271	9.56
02_03.18.02_01_037. LAMAR (STA 24+60) 8'x8' BOX CULV										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)					3.10	6.46	0.00	0.00	9.56	
		3044.00	CY	CODET	9,434	19,662	0	0	29,096	9.56
02_03.18.02_ 01_038. LAMAR (STA 134+00) 7'x7' BX CULV										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A4 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)					3.10	6.46	0.00	0.00	9.56	
		9133.00	CY	CODET	28,306	59,991	0	0	87,297	9.56
02_03.18.02_ 03. Pipe Bedding										
02_03.18.02_ 03_001. CADILLAC (STA 94+00) 15" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		35.00	CY	CODLB	232	269	243	0	743	21.24
02_03.18.02_ 03_002. CADILLAC (STA 102+00) 8" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		15.20	CY	CODLB	101	117	106	0	323	21.24
02_03.18.02_ 03_003. CADILLAC (STA 112+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		22.00	CY	CODLB	146	169	153	0	467	21.24

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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02_03.18.02_03_005. CADILLAC (STA 34+00) 15" SS													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					35.00	CY	CODLB	232	269	243	0	743	21.24
02_03.18.02_03_006. CADILLAC (STA 81+00) 12" SS													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					34.00	CY	CODLB	225	261	236	0	722	21.24
02_03.18.02_03_007. CADILLAC (STA 43+00) 12" SS													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					23.00	CY	CODLB	152	176	160	0	489	21.24
02_03.18.02_03_008. CADILLAC (STA 26+00) 10" SS													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					19.00	CY	CODLB	126	146	132	0	404	21.24
02_03.18.02_03_011. CADILLAC (STA 112+00) 24" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					49.00	CY	CODLB	324	376	341	0	1,041	21.24

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_03_012. CADILLAC (STA 111+00) 72" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
	72.00	CY	CODLB	476	553	500	0	1,529	21.24	
02_03.18.02_03_016. CADILLAC (STA 10+00) 54" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
	361.00	CY	CODLB	2,389	2,770	2,509	0	7,668	21.24	
02_03.18.02_03_017. CADILLAC (STA 62+00) 8" WATER										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
	37.00	CY	CODLB	245	284	257	0	786	21.24	
02_03.18.02_03_018. CADILLAC (STA 43+50) 6" WATER										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
	41.00	CY	CODLB	271	315	285	0	871	21.24	
02_03.18.02_03_019. CADILLAC (STA 26+00) 8" WATER										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
	37.00	CY	CODLB	245	284	257	0	786	21.24	

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_ 03_020. LAMAR (STA 27+00-31+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		69.00	CY	CODLB	457	529	480	0	1,466	21.24
02_03.18.02_ 03_021. LAMAR (STA 70+00) 12" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		19.00	CY	CODLB	126	146	132	0	404	21.24
02_03.18.02_ 03_022. LAMAR (STA 90+00) 24" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		36.00	CY	CODLB	238	276	250	0	765	21.24
02_03.18.02_ 03_023. LAMAR (STA 106+00) 15" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		6.00	CY	CODLB	40	46	42	0	127	21.24
02_03.18.02_ 03_024. LAMAR (STA 117+00) 48" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		13.00	CY	CODLB	86	100	90	0	276	21.24

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02_03.18.02_03_025. LAMAR (STA 25+00) 54" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					55.00	CY	CODLB	364	422	382	0	1,168	21.24
02_03.18.02_03_026. LAMAR (STA 47+00) 48" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					24.00	CY	CODLB	159	184	167	0	510	21.24
02_03.18.02_03_027. LAMAR (STA 77+50) 24" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					74.00	CY	CODLB	490	568	514	0	1,572	21.24
02_03.18.02_03_028. LAMAR (STA 77+50) 30" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					30.00	CY	CODLB	199	230	209	0	637	21.24
02_03.18.02_03_029. LAMAR (STA 77+50) 60" SD													
02000 0000 Site Work													
02200 0000 Earthwork													
02221 0000 Trenching, Backfilling, And Compaction													
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction													
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24				
					354.00	CY	CODLB	2,343	2,716	2,460	0	7,519	21.24

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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_03_032. LAMAR LEVEE (STA 119+00) 66" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		167.00	CY	CODLB	1,105	1,282	1,161	0	3,547	21.24
02_03.18.02_03_033. LAMAR (STA 27+00) 12" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		14.50	CY	CODLB	96	111	101	0	308	21.24
02_03.18.02_03_034. LAMAR (STA 77+50) 48" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		266.00	CY	CODLB	1,760	2,041	1,849	0	5,650	21.24
02_03.18.02_03_035. CADILLAC (STA 66+00) 10" SS										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		82.00	CY	CODLB	543	629	570	0	1,742	21.24
02_03.18.02_03_036. CADILLAC (STA 66+00) 24" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 8000 Backfill Trenches-Sand Bedding W/O Compaction										
B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader Without Compaction					6.62	7.67	6.95	0.00	21.24	
		98.00	CY	CODLB	649	752	661	0	2,082	21.24

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 02\_03. Cemetery, Utilities, & Structure QUANTITY UOM CREW ID LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT  
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02\_03.18.02\_03\_037. CADILLAC (STA 75+80) 12" SS

02000 0000 Site Work  
 02200 0000 Earthwork  
 02221 0000 Trenching, Backfilling, And Compaction  
 02221 8000 Backfill Trenches-Sand Bedding W/O Compaction

B MIL A2 <02221 8001 > Sand Bedding w/Sm FEnd Loader  
 Without Compaction 17.00 CY CODLB 6.62 7.67 6.95 0.00 21.24  
 112 130 118 0 361 21.24

02\_03.18.02\_06. Manholes

02\_03.18.02\_06\_001. CADILLAC (STA 94+00)

02000 0000 Site Work  
 02550 0000 Site Utilities  
 02560 0000 Waste Water Collection  
 02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.  
 02560 5100 Cast In Place, 8 In (21cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
 8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 1.00 EA CODEJ 1200.94 367.94 980.00 0.00 2548.88  
 1,201 368 980 0 2,549 2548.88

02\_03.18.02\_06\_002. CADILLAC (STA 102+00)

02000 0000 Site Work  
 02550 0000 Site Utilities  
 02560 0000 Waste Water Collection  
 02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.  
 02560 5100 Cast In Place, 8 In (21cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
 8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 1.00 EA CODEJ 1597.17 489.34 1305.00 0.00 3391.51  
 1,597 489 1,305 0 3,392 3391.51

02\_03.18.02\_06\_003. CADILLAC (STA 112+00)

02000 0000 Site Work  
 02550 0000 Site Utilities  
 02560 0000 Waste Water Collection  
 02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.  
 02560 5100 Cast In Place, 8 In (21cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
 8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 3.00 EA CODEJ 1597.17 489.34 1305.00 0.00 3391.51  
 4,792 1,468 3,915 0 10,175 3391.51

02\_03.18.02\_06\_005. CADILLAC (STA 34+00)

02000 0000 Site Work  
 02550 0000 Site Utilities  
 02560 0000 Waste Water Collection



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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.													
02560 5100 Cast In Place, 8 In (21Cm) Thick													
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1597.17	489.34	1305.00	0.00	3391.51				
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					1.00	EA	CODEJ	1,597	489	1,305	0	3,392	3391.51
02_03.18.02_06_006. CADILLAC (STA 81+00)													
02000 0000 Site Work													
02550 0000 Site Utilities													
02560 0000 Waste Water Collection													
02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.													
02560 5100 Cast In Place, 8 In (21Cm) Thick													
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1597.17	489.34	1305.00	0.00	3391.51				
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					2.00	EA	CODEJ	3,194	979	2,610	0	6,783	3391.51
02_03.18.02_06_007. CADILLAC (STA 43+00)													
02000 0000 Site Work													
02550 0000 Site Utilities													
02560 0000 Waste Water Collection													
02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.													
02560 5100 Cast In Place, 8 In (21Cm) Thick													
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1204.02	368.88	980.00	0.00	2552.91				
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					1.00	EA	CODEJ	1,204	369	980	0	2,553	2552.91
02_03.18.02_06_008. CADILLAC (STA 26+00)													
02000 0000 Site Work													
02550 0000 Site Utilities													
02560 0000 Waste Water Collection													
02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.													
02560 5100 Cast In Place, 8 In (21Cm) Thick													
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1597.17	489.34	1305.00	0.00	3391.51				
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					1.00	EA	CODEJ	1,597	489	1,305	0	3,392	3391.51
02_03.18.02_06_009. CADILLAC (STA 66+00)													
02000 0000 Site Work													
02550 0000 Site Utilities													
02560 0000 Waste Water Collection													
02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.													
02560 5100 Cast In Place, 8 In (21Cm) Thick													
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1597.17	489.34	1305.00	0.00	3391.51				
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					6.00	EA	CODEJ	9,583	2,936	7,830	0	20,349	3391.51

Sat 16 Jan 1999  
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DETAILED ESTIMATE

Tri-Service Automated Cost Engineering System (TRACES)  
PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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02\_03. Cemetery, Utilities, & Structure QUANTITY UOM CREW ID LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT  
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02\_03.18.02\_06\_010. CADILLAC (STA 75+80)

02000 0000 Site Work

02550 0000 Site Utilities

02560 0000 Waste Water Collection

02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.

02560 5100 Cast In Place, 8 In (21Cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 2.00 EA CODEJ 1597.17 489.34 1305.00 0.00 3391.51  
3,194 979 2,610 0 6,783 3391.51

02\_03.18.02\_06\_020. LAMAR (STA 27+00-31+00)

02000 0000 Site Work

02550 0000 Site Utilities

02560 0000 Waste Water Collection

02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.

02560 5100 Cast In Place, 8 In (21Cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 1.00 EA CODEJ 1597.17 489.34 1305.00 0.00 3391.51  
1,597 489 1,305 0 3,392 3391.51

02\_03.18.02\_06\_021. LAMAR (STA 70+00)

02000 0000 Site Work

02550 0000 Site Utilities

02560 0000 Waste Water Collection

02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.

02560 5100 Cast In Place, 8 In (21Cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 1.00 EA CODEJ 1597.17 489.34 1305.00 0.00 3391.51  
1,597 489 1,305 0 3,392 3391.51

02\_03.18.02\_06\_022. LAMAR (STA 90+00)

02000 0000 Site Work

02550 0000 Site Utilities

02560 0000 Waste Water Collection

02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.

02560 5100 Cast In Place, 8 In (21Cm) Thick

B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole  
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp 1.00 EA CODEJ 1597.17 489.34 1305.00 0.00 3391.51  
1,597 489 1,305 0 3,392 3391.51

02\_03.18.02\_06\_023. LAMAR (STA 106+00)

02000 0000 Site Work

02550 0000 Site Utilities

02560 0000 Waste Water Collection

02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.

LABOR ID: DFWTEX EQUIP ID: FEDC95

Currency in DOLLARS

CREW ID: FEDC95 UPB ID: FEDC95

Sat 16 Jan 1999  
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Tri-Service Automated Cost Estimating System (TRACES)  
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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT		
02560 5100 Cast In Place, 8 In (21cm) Thick												
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1597.17	489.34	1305.00	0.00	3391.51			
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					1,597	489	1,305	0	3,392	3391.51		
02_03.18.02_06_033. LAMAR (STA 27+00)												
02000 0000 Site Work												
02550 0000 Site Utilities												
02560 0000 Waste Water Collection												
02560 5000 Manholes, Concrete, 4 Ft (1.2M) Dia.												
02560 5100 Cast In Place, 8 In (21cm) Thick												
B MIL A2 <02560 5103 > 4'Dia x 8'Deep CIP Manhole					1597.17	489.34	1305.00	0.00	3391.51			
8"(20cm)Tk, (1.2M)Dia x (2.4M)Dp					1,597	489	1,305	0	3,392	3391.51		
02_03.18.02_98. ROAD R/R CADILLAC (SARGENT RD)												
02_03.18.02_98_001. ROAD GRADING												
02000 0000 Site Work												
02600 0000 Paving And Surfacing												
02611 0000 Crushed Stone Paving												
02611 1000 Prepare And Roll Subbase												
MIL A2 <02611 1002 > GRADE ROAD					0.44	0.41	0.34	0.00	1.19			
					1111.00 SY	XSGRA	493	458	373	0	1,324	1.19
02_03.18.02_98_002. LIME STAB SUBGRADE												
02000 0000 Site Work												
02600 0000 Paving And Surfacing												
02610 0000 Paving												
02610 1000 Lime Stabilized Subgrade Based On Existing Soil												
MIL A2 <02610 1001 > 6"Tk, Lime Stabilized Subgrade					0.59	0.53	0.81	0.00	1.94			
(15cm) Thick, 25#(11kg)/SY					489.00 SY	COFCJ	290	260	398	0	947	1.94
02600 0000 Paving And Surfacing												
02611 0000 Crushed Stone Paving												
02611 1000 Prepare And Roll Subbase												
MIL A2 <02611 1002 > SUBGRADE PREP					0.44	0.41	0.34	0.00	1.19			
					489.00 SY	XSGRA	217	201	164	0	583	1.19
02_03.18.02_98_003. BASE COURSE												
02000 0000 Site Work												
02600 0000 Paving And Surfacing												
02611 0000 Crushed Stone Paving												

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02611 2000 Roadway Base Courses										
02611 2000 Basic Cost Items										
MIL A2	<02611 2001 > BASE COURSE	99.00	CY	XSABA	3.39 336	6.71 665	4.14 410	0.00 0	14.25 1,410	14.25
02_03.18.02_ 98_004. 2" HMAC (XASPA)										
MIL A2	< > ASPH FINISHER, 10'W/SCREED,PNEUM	37.45	HR	A30BG003	0.00 0	51.77 1,939	0.00 0	0.00 0	51.77 1,939	51.77
MIL A2	< > STR SWEEPER, 7'W/SPRINKER	37.45	HR	B15MB002	0.00 0	1.56 59	0.00 0	0.00 0	1.56 59	1.56
MIL A2	< > Small Tools	74.89	HR	XMIXX020	0.00 0	1.45 109	0.00 0	0.00 0	1.45 109	1.45
MIL A2	< > ROLLR,STATIC,S/P,13T,84"W,11TIRE	37.45	HR	R30CA001	0.00 0	14.71 551	0.00 0	0.00 0	14.71 551	14.71
MIL A2	< > ROLLER,STATIC,3WHL,S/P, 12T,84"W	74.89	HR	R30IG008	0.00 0	13.23 991	0.00 0	0.00 0	13.23 991	13.23
MIL A2	< > FLATBED, 8'x 16.0' (ADD TRK)	37.45	HR	T40XX016	0.00 0	0.63 23	0.00 0	0.00 0	0.63 23	0.63
MIL A2	< > TRK,HWY, 24,500 GVW, 4X2, 2 AXLE	37.45	HR	T50FO011	0.00 0	13.37 501	0.00 0	0.00 0	13.37 501	13.37
MIL A2	< > TRK,HWY, 24,500 GVW, 4X2, 2 AXLE	37.45	HR	T50FO011	0.00 0	13.37 501	0.00 0	0.00 0	13.37 501	13.37
MIL A2	< > Outside Laborers, (Semi-Skilled)	262.13	HR	X-LABORER	11.81 3,096	0.00 0	0.00 0	0.00 0	11.81 3,096	11.81
MIL A2	< > Outside Equip. Operators, Medium	112.34	HR	X-EQOPRMED	16.06 1,804	0.00 0	0.00 0	0.00 0	16.06 1,804	16.06
MIL A2	< > Outside Equip. Operators, Medium	37.45	HR	X-EQOPRMED	16.56 620	0.00 0	0.00 0	0.00 0	16.56 620	16.56
MIL A2	< > Outside Truck Drivers, Heavy	37.45	HR	X-TRKDVRHV	11.68 437	0.00 0	0.00 0	0.00 0	11.68 437	11.68
USR A2	< > HMAC	44.00	TON		0.00 0	0.00 0	25.00 1,100	0.00 0	25.00 1,100	25.00

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.02_99. ROAD REMOV & REPLACE										
02_03.18.02_99_001. FILL										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1004 >	Exc & Fill, D-8K Dozer w/U-Blade			0.72	2.56	0.00	0.00	3.30	
		300 HP, Move 150' and Stockpile	29028	CY	CODTK	20,981	74,927	0	95,909	3.30
02_03.18.02_99_002. LIME SUBGRADE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02610 0000 Paving										
02610 1000 Lime Stabilized Subgrade Based On Existing Soil										
	B MIL A2 <02610 1001 >	6"Tk, Lime Stabilized Subgrade			0.67	0.60	0.80	0.00	2.07	
		(15cm) Thick, 25#(11Kg)/SY	3305.00	SY	COFCJ	2,204	1,981	2,644	6,829	2.07
02_03.18.02_99_003. BASE COURSE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02610 0000 Paving										
02610 1000 Lime Stabilized Subgrade Based On Existing Soil										
02611 2000 Basic Cost Items										
	B MIL A2 <02611 2001 >	Graded Crushed Agg Rdwy Base Crs			2.50	4.95	22.30	0.00	29.75	
			745.00	CY	XSABA	1,864	3,689	16,614	22,167	29.75
02_03.18.02_99_004. 8" CONCRETE PAVEMENT										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02614 0000 Portland Cement Concrete Paving										
02614 1000 Concrete Paving										
02614 1100 Material Cost Included 4500 Psi Concrete At										
	B MIL A2 <02614 1102 >	8"(20cm) Concrete Pavement			69.21	23.10	125.25	0.00	217.56	
		4,500 PSI Concrete at Spreader	685.00	CY	COKCF	47,406	15,825	85,796	149,027	217.56
02_03.18.02_99_005. REMOVE CONC PAVMNT										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 1000 Miscellaneous Removals										

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02112 1200 Concrete Pavement										
L MIL A2 <02112 1203 > Demo 7" to 24" Thk Conc Pavement										
(17.8cm) to (61cm), Reinforced										
	685.00	CY	CODEF		11.43	5.57	0.00	0.00	17.00	
					7,827	3,816	0	0	11,643	17.00
02_03.18.15. Mechanical										
02_03.18.15_ 01. Pipe and Fittings										
02_03.18.15_ 01_001. CADILLAC (STA 94+00) 15" SS										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02452 0000 Reinforced Concrete Pipe										
02452 1000 Reinforced Conc. Pipe Class 3 Without Gaskets										
02452 1000 Reinforced Class III Concrete Pipe										
USR A2 <02452 1002 > 15"(38cm) Dia Cl III Conc Pipe										
Reinforced without Gaskets										
	300.00	LF	XTBCB		2.97	2.73	12.35	0.00	18.05	
					891	820	3,705	0	5,416	18.05
02_03.18.15_ 01_002. CADILLAC (STA 102+00) 8" SS										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
USR A2 <02464 1003 > 8"(21cm) ABS Plastic Drain Pipe										
Truss Type										
	200.00	LF	XTBCA		1.95	1.44	3.40	0.00	6.79	
					389	288	680	0	1,357	6.79
02_03.18.15_ 01_003. CADILLAC (STA 112+00) 10" SS										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
USR A2 <02464 1004 > 10"(25cm) ABS Plastic Drain Pipe										
Truss Type										
	250.00	LF	XTBCA		2.88	2.14	5.05	0.00	10.07	
					721	534	1,263	0	2,517	10.07
02_03.18.15_ 01_005. CADILLAC (STA 34+00) 15" SS										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
B MIL A2 <02464 1006 > 15"(38cm) ABS Plastic Drain Pipe										
Truss Type										
	300.00	LF	XXPLB		6.71	2.34	9.00	0.00	18.05	
					2,013	701	2,700	0	5,414	18.05

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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02_03.18.15_ 01_006. CADILLAC (STA 81+00) 12" SS													
02000 0000 Site Work													
02450 0000 Utility Pipelines													
02464 0000 Plastic Pipe													
02464 1000 Drainage Pipe													
B MIL A2 <02464 1005 > 12"(31cm) ABS Plastic Drain Pipe					5.19	1.81	7.00	0.00	14.00				
Truss Type					450.00	LF	XXPLB	2,335	813	3,150	0	6,298	14.00
02_03.18.15_ 01_007. CADILLAC (STA 43+00) 12" SS													
02000 0000 Site Work													
02450 0000 Utility Pipelines													
02464 0000 Plastic Pipe													
02464 1000 Drainage Pipe													
B MIL A2 <02464 1005 > 12"(31cm) ABS Plastic Drain Pipe					5.19	1.81	7.00	0.00	14.00				
Truss Type					240.00	LF	XXPLB	1,246	434	1,680	0	3,360	14.00
02_03.18.15_ 01_008. CADILLAC (STA 26+00) 10" SS													
02000 0000 Site Work													
02450 0000 Utility Pipelines													
02464 0000 Plastic Pipe													
02464 1000 Drainage Pipe													
B USR A2 <02464 1004 > 10"(25cm) ABS Plastic Drain Pipe					2.88	2.13	5.05	0.00	10.06				
Truss Type					220.00	LF	XTBCA	634	469	1,111	0	2,214	10.06
02_03.18.15_ 01_011. CADILLAC (STA 112+00) 24" SD													
02000 0000 Site Work													
02450 0000 Utility Pipelines													
02464 0000 Plastic Pipe													
02464 1000 Drainage Pipe													
02452 1000 Reinforced Class III Concrete Pipe													
USR A2 <02452 1004 > 24"(61cm) Dia Cl III Conc Pipe					4.77	4.39	19.70	0.00	28.85				
Reinforced without Gaskets					1000.00	LF	XTBCB	4,768	4,387	19,700	0	28,855	28.85
02_03.18.15_ 01_012. CADILLAC (STA 111+00) 72" SD													
02000 0000 Site Work													
02450 0000 Utility Pipelines													
02464 0000 Plastic Pipe													
02464 1000 Drainage Pipe													
02452 1000 Reinforced Class III Concrete Pipe													
USR A2 <02452 1011 > 72"(183cm) Dia Cl III Conc Pipe					56.49	51.98	141.75	0.00	250.21				
Reinforced without Gaskets					200.00	LF	XTBCB	11,297	10,396	28,350	0	50,043	250.21

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_01_016. CADILLAC (STA 10+00) 54" SD										
02000 0000 Site Work										
02200 0000 Earthwork										
02224 0000 Horizontal Boring - Casing Only										
02224 1000 Roadwork										
	B MIL A2 <02224 1003 >	54" Dia Horiz Boring, Roadwork			15.72	24.36	134.90	0.00	174.99	
		3/8" (122cm) Casing	200.00	LF CLADR	3,145	4,873	26,980	0	34,997	174.99
	B MIL A2 <02452 1009 >	54"(137cm) Dia Cl III Conc Pipe			44.72	15.71	80.20	0.00	140.63	
		Reinforced without Gaskets	3200.00	LF UOERC	143,095	50,286	256,640	0	450,021	140.63
02_03.18.15_01_017. CADILLAC (STA 62+00) 8" WATER										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8001 >	Demo Pipe to 12" Dia			3.72	1.62	0.00	0.00	5.34	
		Water/Sewer Pipe	200.00	LF XXPLA	744	324	0	0	1,067	5.34
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 2000 Pressure Pipe										
02464 2100 Pvc, Class 200 Sdr=21										
02464 2100 Basic Cost Items										
	B MIL A2 <02464 2107 >	8" Dia SDR 21 PVC Pressure Pipe			1.23	0.25	7.55	0.00	9.03	
		(20cm) Dia, Class 200	200.00	LF XPLUD	247	50	1,510	0	1,806	9.03
02_03.18.15_01_018. CADILLAC (STA 43+50) 6" WATER										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8001 >	Demo Pipe to 12" Dia			2.78	1.21	0.00	0.00	3.99	
		Water/Sewer Pipe	220.00	LF XXPLA	612	266	0	0	878	3.99
	M MIL A2 <02464 2106 >	6" Dia SDR 21 PVC Pressure Pipe			0.96	0.04	4.80	0.00	5.79	
		(15cm) Dia, Class 200	220.00	LF XPLUC	211	8	1,056	0	1,275	5.79
02_03.18.15_01_019. CADILLAC (STA 26+00) 8" WATER										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										



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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8001 >				3.72	1.62	0.00	0.00	5.34	
	Demo Pipe to 12" Dia				744	324	0	0	1,068	5.34
	Water/Sewer Pipe	200.00	LF	XXPLA						
	B MIL A2 <02464 2107 >				1.00	0.20	7.55	0.00	8.75	
	8" Dia SDR 21 PVC Pressure Pipe				201	40	1,510	0	1,751	8.75
	(20cm) Dia, Class 200	200.00	LF	XPLUD						
02_03.18.15_ 01_020. LAMAR (STA 27+00-31+00) 10" SS										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8001 >				3.48	1.51	0.00	0.00	4.99	
	Demo to 12" Dia				2,784	1,211	0	0	3,995	4.99
	Water/Sewer Pipe	800.00	LF	XXPLA						
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
	B MIL A2 <02464 1004 >				1.48	0.51	10.10	0.00	12.09	
	10"(25cm) ABS Plastic Drain Pipe				1,182	411	8,080	0	9,673	12.09
	Truss Type	800.00	LF	XXPLB						
02_03.18.15_ 01_021. LAMAR (STA 70+00) 12" SS										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8001 >				5.02	2.18	0.00	0.00	7.20	
	Demo Pipe to 12" Dia				1,004	437	0	0	1,441	7.20
	Water/Sewer Pipe	200.00	LF	XXPLA						
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
	B MIL A2 <02464 1005 >				2.12	0.74	14.35	0.00	17.20	
	12"(31cm) ABS Plastic Drain Pipe				423	147	2,870	0	3,441	17.20
	Truss Type	200.00	LF	XXPLB						
02_03.18.15_ 01_022. LAMAR (STA 90+00) 24" SS										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										

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L CIV A2 <02112 8003 > Demo Pipe 21" to 24" Dia Sewer/Water Pipe		220.00	LF	XXPLA	10.45 2,299	4.55 1,000	0.00 0	0.00 0	15.00 3,299	15.00
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
B MIL A2 <02464 1006 > 24"(61cm) ABS Plastic Drain Pipe Truss Type		220.00	LF	XXPLB	4.58 1,007	1.59 350	30.60 6,732	0.00 0	36.77 8,089	36.77
02_03.18.15_ 01_023. LAMAR (STA 106+00) 15" SS										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
L CIV A2 <02112 8002 > Demo Pipe 15" to 18" Dia Sewer/Water Pipe		150.00	LF	XXPLA	6.97 1,046	3.03 455	0.00 0	0.00 0	10.00 1,500	10.00
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
B MIL A2 <02464 1006 > 15"(38cm) ABS Plastic Drain Pipe Truss Type		150.00	LF	XXPLB	3.19 479	1.11 167	21.55 3,233	0.00 0	25.85 3,878	25.85
02_03.18.15_ 01_024. LAMAR (STA 117+00) 48" SS										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
L CIV A2 <02112 8004 > Demo Pipe 27" to 48" Dia Sewer/Water Pipe		300.00	LF	XXPLA	22.27 6,680	9.69 2,906	0.00 0	0.00 0	31.95 9,586	31.95
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
B MIL A2 <02464 1006 > 48"(122cm) ABS Plastic Drain Pip Truss Type		300.00	LF	XXPLB	9.51 2,853	3.31 993	64.00 19,200	0.00 0	76.82 23,046	76.82

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_ 01_025. LAMAR (STA 25+00) 54" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
USR A2 <02112 0001 > Demo 54" Conc Pipe					28.50	10.02	0.00	0.00	38.51	
150.00	LF	UOEHC	4,275	1,502	0	0	5,777	38.51		
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02452 0000 Reinforced Concrete Pipe										
02452 1000 Reinforced Conc. Pipe Class 3 Without Gaskets										
02452 1000 Reinforced Class III Concrete Pipe										
B MIL A2 <02452 1009 > 54"(137cm) Dia Cl III Conc Pipe Reinforced without Gaskets					37.60	13.21	77.00	0.00	127.81	
150.00	LF	UOEHC	5,640	1,982	11,550	0	19,172	127.81		
02_03.18.15_ 01_026. LAMAR (STA 47+00) 48" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
USR A2 <02112 0001 > Demo 48" Conc Pipe					24.88	8.74	0.00	0.00	33.62	
200.00	LF	UOEHC	4,976	1,749	0	0	6,725	33.62		
B MIL A2 <02452 1008 > 48"(122cm) Dia Cl III Conc Pipe Reinforced without Gaskets					36.90	12.97	67.35	0.00	117.21	
200.00	LF	UOEHC	7,379	2,593	13,470	0	23,442	117.21		
02_03.18.15_ 01_027. LAMAR (STA 77+50) 24" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02452 1000 Reinforced Conc. Pipe Class 3 Without Gaskets										
02452 1000 Reinforced Class III Concrete Pipe										
USR A2 <02452 1004 > 24"(61cm) Dia Cl III Conc Pipe Reinforced without Gaskets					4.75	4.37	19.75	0.00	28.87	
450.00	LF	XTBCB	2,136	1,966	8,888	0	12,990	28.87		
02_03.18.15_ 01_028. LAMAR (STA 77+50) 30" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02452 1000 Reinforced Conc. Pipe Class 3 Without Gaskets										
02452 1000 Reinforced Class III Concrete Pipe										
B MIL A2 <02452 1005 > 30"(76cm) Dia Cl III Conc Pipe Reinforced without Gaskets					10.19	3.58	27.60	0.00	41.38	
150.00	LF	UOEHC	1,529	537	4,140	0	6,206	41.38		

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_01_029. LAMAR (STA 77+50) 60" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02452 1000 Reinforced Conc. Pipe Class 3 Without Gaskets										
02452 1000 Reinforced Class III Concrete Pipe										
	B MIL A2 <02452 1009 >	60"	(152cm)	Dia C1 III Conc Pipe	57.24	20.11	101.00	0.00	178.35	
				Reinforced without Gaskets	2050.00	LF	UOEHC	117,341	41,235	207,050
								0	365,626	178.35
02_03.18.15_01_032. LAMAR LEVEE (STA 119+00) 66" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8004 >			Demo Conc Pipe > 36"	39.27	17.09	0.00	0.00	56.36	
				Sewer/Water Pipe, No Excavation	1200.00	LF	XXPLA	47,124	20,503	0
								0	67,628	56.36
	B MIL A2 <02452 1011 >	66"	(168cm)	Dia C1 III Conc Pipe	61.29	21.54	112.80	0.00	195.63	
				Reinforced without Gaskets	1200.00	LF	UOEHC	73,552	25,848	135,360
								0	234,760	195.63
02_03.18.15_01_033. LAMAR (STA 27+00) 12" SD										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
02112 8000 Sewer & Water Pipe Removal No Excavation, W/										
	L CIV A2 <02112 8001 >			Demo Pipe to 12" Dia	5.00	2.18	0.00	0.00	7.18	
				Water/Sewer Pipe	150.00	LF	XXPLA	750	326	0
								0	1,076	7.18
	B MIL A2 <02452 1001 >	12"	(31cm)	Dia C1 III Conc Pipe	2.38	0.41	14.35	0.00	17.14	
				Reinforced without Gaskets	150.00	LF	CODEK	357	62	2,153
								0	2,572	17.14
02_03.18.15_01_035. CADILLAC (STA 66+00) 10" SS										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
	B USR A2 <02464 1004 >	10"	(25cm)	ABS Plastic Drain Pipe	2.88	2.13	5.05	0.00	10.06	
				Truss Type	950.00	LF	XTBCA	2,736	2,027	4,798
								0	9,560	10.06

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_ 01_036. CADILLAC (STA 66+00) 24" SD										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
02452 1000 Reinforced Class III Concrete Pipe										
USR A2 <02452 1004 > 24"(61cm) Dia Cl III Conc Pipe Reinforced without Gaskets					4.75	4.37	19.75	0.00	28.87	
450.00	LF	XTBCB	2,136	1,966	8,888	0	12,990	28.87		
02_03.18.15_ 01_037. CADILLAC (STA 75+80) 12" SS										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
B MIL A2 <02464 1005 > 12"(31cm) ABS Plastic Drain Pipe Truss Type					5.19	1.81	7.00	0.00	14.00	
200.00	LF	XXPLB	1,038	361	1,400	0	2,800	14.00		
02_03.18.15_ 01_038. LAMAR (STA 77+50) 42" SD										
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
02452 1000 Reinforced Class III Concrete Pipe										
USR A2 <02452 1007 > 42"(106cm) Dia Cl III Conc Pipe Reinforced without Gaskets					17.99	16.55	56.30	0.00	90.84	
950.00	LF	XTBCB	17,090	15,726	53,485	0	86,300	90.84		
02_03.18.15_ 03. Valves/Gates (incl Conc Risers)										
02_03.18.15_ 03_001. CAD (STA 94) 15" GATE VALVE										
02000 0000 Site Work										
02550 0000 Site Utilities										
02555 0000 Water Distribution Lines										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2 <02555 3007 > 15"(38cm) Cast Iron Gate Valve Includes Box					302.27	105.20	615.00	0.00	1222.46	
1.00	EA	XXPLB	302	105	615	0	1,222	1222.46		
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 2000 Beams, Columns And Walls										
03210 2000 Basic Cost Items										

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		3100.00	LB	SIWRC	0.20 620	0.00 8	0.25 775	0.00 0	0.45 1,403	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(VALVE TOWER)		15.50	CY	SIWRC	241.26 3,739	3.05 47	128.15 1,986	0.00 0	372.46 5,773	372.46
02_03.18.15_ 03_002. CAD (STA 102) 8" GATE VALVE										
02000 0000 Site Work										
02550 0000 Site Utilities										
02555 0000 Water Distribution Lines										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2 <02555 3003 > 8"(21cm) Cast Iron Gate Valve Includes Box		1.00	EA	XXPLA	132.52 133	57.66 58	380.00 380	0.00 0	570.17 570	570.17
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		2000.00	LB	SIWRC	0.20 400	0.00 5	0.25 500	0.00 0	0.45 905	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE VALVE RISER)		12.60	CY	SIWRC	241.26 3,040	3.05 38	128.15 1,615	0.00 0	372.46 4,693	372.46
02_03.18.15_ 03_003. CAD (STA 112) 10" GATE VALVE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2 <02555 3004 > 10"(25cm) Cast Iron Gate Valve Includes Box		1.00	EA	XXPLB	255.97 256	89.08 89	690.00 690	0.00 0	1035.05 1,035	1035.05
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		2055.00	LB	SIWRC	0.20 411	0.00 5	0.25 514	0.00 0	0.45 930	0.45
USR A2 <03311 0001 > CONCRETE(GATE VALVE RISER)		13.70	CY	SIWRC	241.03 3,302	3.05 42	128.15 1,756	0.00 0	372.23 5,100	372.23

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_03_005. CAD (STA 34) 15" GATE VALVE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2	<02555 3007 >	15"(38cm)	Cast Iron Gate Valve		373.49	129.98	1000.00	0.00	1503.47	
	Includes Box			1.00 EA XXPLB	373	130	1,000	0	1,503	1503.47
L MIL A2	<03210 2001 >	Gr 50	Resteel,Bm,Clmn,Wall,#3-#6		0.20	0.00	0.25	0.00	0.45	
				3100.00 LB SIWRC	620	8	775	0	1,403	0.45
USR A2	<03311 0001 >	CONCRETE(GATE VALVE RISER)			241.03	3.05	128.15	0.00	372.23	
				15.50 CY SIWRC	3,736	47	1,986	0	5,770	372.23
02_03.18.15_03_006. CAD (STA 81) 12" GATE VALVE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2	<02555 3005 >	12"(31cm)	Cast Iron Gate Valve		300.00	104.41	800.00	0.00	1204.41	
	Includes Box			1.00 EA XXPLB	300	104	800	0	1,204	1204.41
L MIL A2	<03210 2001 >	Gr 50	Resteel,Bm,Clmn,Wall,#3-#6		0.21	0.00	0.25	0.00	0.46	
				2820.00 LB SIWRC	586	7	705	0	1,299	0.46
USR A2	<03311 0001 >	CONCRETE(GATE VALVE RISER)			241.03	3.05	128.15	0.00	372.23	
				14.10 CY SIWRC	3,399	43	1,607	0	5,248	372.23
02_03.18.15_03_007. CAD (STA 43) 12" GATE VALVE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2	<02555 3005 >	12"(31cm)	Cast Iron Gate Valve		300.00	104.41	800.00	0.00	1204.41	
	Includes Box			1.00 EA XXPLB	300	104	800	0	1,204	1204.41
L MIL A2	<03210 2001 >	Gr 50	Resteel,Bm,Clmn,Wall,#3-#6		0.21	0.00	0.25	0.00	0.46	
				3520.00 LB SIWRC	732	9	880	0	1,621	0.46
USR A2	<03311 0001 >	CONCRETE(GATE VALVE RISER)			241.03	3.05	128.15	0.00	372.23	
				17.60 CY SIWRC	4,242	54	2,255	0	6,551	372.23

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_ 03_008. CAD (STA 26) 10" GATE VALVE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02555 3000 Cast Iron Gate Valves With Boxes										
	B MIL A2 <02555 3004 >	1.00	EA	XXPLB	256.04	89.11	690.00	0.00	1035.15	
	Includes Box				256	89	690	0	1,035	1035.15
	L MIL A2 <03210 2001 >	3320.00	LB	SIWRC	0.21	0.00	0.25	0.00	0.46	
	Gr 50 Resteel,Bm,Clnn,Wall,#3-#6				690	9	830	0	1,529	0.46
	USR A2 <03311 0001 >	16.60	CY	SIWRC	241.03	3.05	128.15	0.00	372.23	
	CONCRETE(GATE VALVE RISER)				4,001	51	2,127	0	6,179	372.23
02_03.18.15_ 03_011. CAD (STA 112) 24"x24" FLAP GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0001 >	1.00	EA		835.00	0.00	1675.00	0.00	2510.00	
	24"x24" FLAP GATE				835	0	1,675	0	2,510	2510.00
	USR A2 <02520 0002 >	1.00	EA		1675.00	0.00	3350.00	0.00	5025.00	
	24"x24" SLUICE GATE AND HOIST				1,675	0	3,350	0	5,025	5025.00
	L MIL A2 <03210 2001 >	3060.00	LB	SIWRC	0.20	0.00	0.25	0.00	0.45	
	Gr 50 Resteel,Bm,Clnn,Wall,#3-#6				612	8	765	0	1,385	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
	USR A2 <03311 0001 >	13.70	CY	SIWRC	241.03	3.05	128.15	0.00	372.23	
	CONCRETE(GATE TOWER)				3,302	42	1,756	0	5,100	372.23
02_03.18.15_ 03_012. CAD (STA 111) 72" FLAP GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0001 >	1.00	EA		2515.00	0.00	5025.00	0.00	7540.00	
	72" FLAP GATE				2,515	0	5,025	0	7,540	7540.00
	USR A2 <02520 0002 >	1.00	EA		5025.00	0.00	10050.00	0.00	15075.00	
	72" SLUICE GATE AND HOIST				5,025	0	10,050	0	15,075	15075



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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		4800.00	LB	SIWRC	0.20 960	0.00 12	0.25 1,200	0.00 0	0.45 2,172	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE TOWER)		24.00	CY	SIWRC	241.03 5,785	3.05 73	128.15 3,076	0.00 0	372.23 8,934	372.23
02_03.18.15_ 03_017. CAD (STA 62) 8" AIR RELEASE VALV										
15000 0000 Mechanical										
15050 0000 Basic Materials And Methods										
15102 0000 Flap And Flush Valves										
15102 1000 Cast Iron Body - Flanged										
B CIV A2 <15102 1003 > 8" CI, Flange Flap & Flush Valve		1.00	EA	MPLUJ	188.00 188	4.61 5	380.00 380	0.00 0	572.61 573	572.61
02_03.18.15_ 03_018. CAD (STA 43+50) 6" COMBO AIR REL										
15000 0000 Mechanical										
15050 0000 Basic Materials And Methods										
15102 0000 Flap And Flush Valves										
15102 1000 Cast Iron Body - Flanged										
B CIV A2 <15102 1002 > 6" CI, Flange Flap & Flush Valve		1.00	EA	MPLUJ	126.66 127	3.10 3	258.00 258	0.00 0	387.76 388	387.76
02_03.18.15_ 03_019. CAD (STA 26) 8" COMBO AIR RELEAS										
15000 0000 Mechanical										
15050 0000 Basic Materials And Methods										
15102 0000 Flap And Flush Valves										
15102 1000 Cast Iron Body - Flanged										
B CIV A2 <15102 1003 > 8" CI, Flange Flap & Flush Valve		1.00	EA	MPLUJ	187.88 188	4.61 5	380.00 380	0.00 0	572.48 572	572.48
COMBO AIR RELEASE VALVE										
02_03.18.15_ 03_021. LAMAR (STA 70) 12" SLUICE GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
USR A2 <02520 0002 > 12" SLUICE GATE VALVE		1.00	EA	SIWRC	409.40 409	5.18 5	800.00 800	0.00 0	1214.58 1,215	1214.58

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		3540.00	LB	SIWRC	0.20 708	0.00 9	0.25 885	0.00 0	0.45 1,602	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		17.70	CY	SIWRC	250.48 4,434	3.17 56	128.15 2,268	0.00 0	381.80 6,758	381.80
02_03.18.15_ 03_022. LAMAR (STA 90) 24" SLUICE GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
USR A2 <02520 0002 > 24" SLUICE GATE VALVE		1.00	EA	SIWRC	2159.29 2,159	27.31 27	4210.00 4,210	0.00 0	6396.60 6,397	6396.60
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		3540.00	LB	SIWRC	0.20 708	0.00 9	0.25 885	0.00 0	0.45 1,602	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		17.70	CY	SIWRC	250.48 4,434	3.17 56	128.15 2,268	0.00 0	381.80 6,758	381.80
02_03.18.15_ 03_023. LAMAR (STA 106) 15" SLUICE GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
USR A2 <02520 0002 > 15" SLUICE GATE VALVE		1.00	EA	SIWRC	513.51 514	6.50 6	1000.00 1,000	0.00 0	1520.00 1,520	1520.00
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clmn,Wall,#3-#6		3440.00	LB	SIWRC	0.20 688	0.00 9	0.25 860	0.00 0	0.45 1,557	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		17.20	CY	SIWRC	250.48 4,308	3.17 54	128.15 2,204	0.00 0	381.80 6,567	381.80

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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_03_024. LAMAR (STA 117 48" SLUICE GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0002 > 48" SLUICE GATE VALVE	1.00	EA	SIWRC	3433.94 3,434	43.44 43	6700.00 6,700	0.00 0	10177.37 10,177	10177
	L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6	10600	LB	SIWRC	0.20 2,120	0.00 27	0.25 2,650	0.00 0	0.45 4,797	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
	USR A2 <03311 0001 > CONCRETE(GATE RISER)	53.00	CY	SIWRC	241.03 12,775	3.05 162	128.15 6,792	0.00 0	372.23 19,728	372.23
02_03.18.15_03_025. LAMAR (STA 25) 54" SLUICE/FLAP										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0002 > 54" SLUICE GATE VALVE & FLAP GAT	1.00	EA	SIWRC	5607.94 5,608	70.94 71	11300.00 11,300	0.00 0	16978.88 16,979	16979
	L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6	2340.00	LB	SIWRC	0.21 486	0.00 6	0.25 585	0.00 0	0.46 1,078	0.46
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
	USR A2 <03311 0001 > CONCRETE(GATE RISER)	11.70	CY	SIWRC	241.03 2,820	3.05 36	128.15 1,499	0.00 0	372.23 4,355	372.23
02_03.18.15_03_026. LAMAR (STA 47) 48" SLUICE/FLAP										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0002 > 48" SLUICE GATE VALVE	1.00	EA	SIWRC	3302.98 3,303	41.78 42	6700.00 6,700	0.00 0	10044.76 10,045	10045
	USR A2 <02520 0003 > 48" FLAP GATE	1.00	EA	SIWRC	1630.76 1,631	20.63 21	3350.00 3,350	0.00 0	5001.39 5,001	5001.39

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMENT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6		2340.00	LB	SIWRC	0.21 486	0.00 6	0.25 565	0.00 0	0.46 1,078	0.46
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		11.70	CY	SIWRC	250.48 2,931	3.17 37	128.15 1,499	0.00 0	381.80 4,467	381.80
02_03.18.15_ 03_029. LAMAR (STA 77+50) 60" SLUICE/FLP										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
USR A2 <02520 0002 > 60" SLUICE GATE VALVE & FLAP GAT		1.00	EA	SIWRC	6186.54 6,187	78.25 78	12555.00 12,555	0.00 0	18819.79 18,820	18820
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6		7400.00	LB	SIWRC	0.21 1,538	0.00 19	0.25 1,850	0.00 0	0.46 3,408	0.46
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		37.00	CY	SIWRC	241.03 8,918	3.05 113	128.15 4,742	0.00 0	372.23 13,773	372.23
02_03.18.15_ 03_030. LAMAR (STA 24+60) 8' SLUICE GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
USR A2 <02520 0002 > 8'x7' SLUICE GATE		1.00	EA	SIWRC	1435.55 1,436	18.16 18	4370.00 4,370	0.00 0	5823.71 5,824	5823.71
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6		11900	LB	SIWRC	0.20 2,380	0.00 30	0.25 2,975	0.00 0	0.45 5,385	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		59.40	CY	SIWRC	241.03 14,317	3.05 181	128.15 7,612	0.00 0	372.23 22,111	372.23

02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.15_03_031. LAMAR (STA 134) 7'x7' Box CULV										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0002 >	1.00	EA	SIWRC	1,351	17	4,300	0	5,668	5668.05
	7'x7' SLUICE GATE									
	L MIL A2 <03210 2001 >	11900	LB	SIWRC	2,380	30	2,975	0	5,385	0.45
	Gr 50 Resteel,Bm,Clmn,Wall,#3-#6									
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
	USR A2 <03311 0001 >	59.40	CY	SIWRC	14,317	181	7,612	0	22,111	372.23
	CONCRETE(GATE RISER)									
02_03.18.15_03_032. LAMAR LEVEE (STA 119) 66" SLUICE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0002 >	1.00	EA		4,610	0	9,210	0	13,820	13820
	66" SLUICE GATE VALVE									
	USR A2 <02520 0003 >	1.00	EA		2,305	0	9,605	0	11,910	11910
	66" FLAP VALVE									
	L MIL A2 <03210 2001 >	9240.00	LB	SIWRC	1,848	23	2,310	0	4,181	0.45
	Gr 50 Resteel,Bm,Clmn,Wall,#3-#6									
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
	USR A2 <03311 0001 >	46.20	CY	SIWRC	11,136	141	5,921	0	17,197	372.23
	CONCRETE(GATE RISER)									
02_03.18.15_03_033. LAMAR (STA 27) 12" SLUICE GATE										
02000 0000 Site Work										
02500 0000 Site Drainage										
02520 0000 Storm Drains										
	USR A2 <02520 0002 >	1.00	EA	SIWRC	412	5	800	0	1,217	1216.77
	12" SLUICE GATE VALVE & FLAP GAT									

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6		2340.00	LB	SIWRC	0.21 486	0.00 6	0.25 585	0.00 0	0.46 1,078	0.46
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE RISER)		11.70	CY	SIWRC	241.03 2,820	3.05 36	128.15 1,499	0.00 0	372.23 4,355	372.23
02_03.18.15_ 03_034. CAD (STA 66+00) 10" GATE VALVE										
02000 0000 Site Work										
02550 0000 Site Utilities										
02555 0000 Water Distribution Lines										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2 <02555 3004 > 10"(25cm) Cast Iron Gate Valve Includes Box		1.00	EA	XXPLB	255.97 256	89.08 89	690.00 690	0.00 0	1035.05 1,035	1035.05
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6		2055.00	LB	SIWRC	0.20 411	0.00 5	0.25 514	0.00 0	0.45 930	0.45
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE(GATE VALVE RISER)		13.70	CY	SIWRC	241.03 3,302	3.05 42	128.15 1,756	0.00 0	372.23 5,100	372.23
02_03.18.15_ 03_035. CAD (STA 75+80) 12" GATE VALVE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02555 3000 Cast Iron Gate Valves With Boxes										
B MIL A2 <02555 3005 > 12"(31cm) Cast Iron Gate Valve Includes Box		1.00	EA	XXPLB	300.00 300	104.41 104	800.00 800	0.00 0	1204.41 1,204	1204.41
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6		2820.00	LB	SIWRC	0.21 586	0.00 7	0.25 705	0.00 0	0.46 1,299	0.46
USR A2 <03311 0001 > CONCRETE(GATE VALVE RISER)		14.10	CY	SIWRC	241.03 3,399	3.05 43	128.15 1,807	0.00 0	372.23 5,248	372.23

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.16. Electrical										
02_03.18.16_99A. ELECTRICAL TOWER - 138 KV										
03000 0000 Concrete										
USR A2 <16000 0001 > ELECTRICAL TOWER					0.00	0.00	0.00	30000.00	30000.00	
		1.00	LS		0	0	0	30,000	30,000	30000
02_03.18.16_99B. FIBER OPTICS - CADILLAC HTS										
16000 0000 Electrical										
16700 0000 Communications										
16795 0000 Fiber Optics Cable And Accessories For Data										
16795 1000 Fiber Optic Cable 62.5 Microns										
16795 1000 Basic Cost Items										
B MIL EL <16795 1003 > Fib Optic Outdoor Aerial/Duct Ca ASSUME Direct Burial					0.57	0.00	1.50	0.00	2.07	
		100.00	LF	EELEB	57	0	150	0	207	2.07
02_03.18.16_99C. FIBER OPTICS - LAMAR LEVEE										
16000 0000 Electrical										
16700 0000 Communications										
16795 0000 Fiber Optics Cable And Accessories For Data										
16795 1000 Fiber Optic Cable 62.5 Microns										
16795 1000 Basic Cost Items										
B MIL EL <16795 1003 > Fib Optic Outdoor Aerial/Duct Ca ASSUME Direct Burial					0.57	0.00	1.50	0.00	2.07	
		100.00	LF	EELEB	57	0	150	0	207	2.07
02_03.18.16_99D. CAD (STA 97+50) 8" SS DEMO PIPE										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
02221 1000 Trenching And Continuous Footing Excavation										
02221 1600 By Hydraulic Excav. - 2 Cy										
L MIL A2 <02221 1602 > Trench, 2 CY Hyd Excav, Med Soil 192 CY/Hr (147M3)					3.10	6.46	0.00	0.00	9.56	
		70.00	CY	CODET	217	452	0	0	669	9.56
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02464 0000 Plastic Pipe										
02464 1000 Drainage Pipe										
USR A2 <02464 1003 > 8"(21cm) DEMO SS Truss Type					1.95	1.44	0.00	0.00	3.39	
		100.00	LF	NTBCA	195	144	0	0	339	3.39

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.18.16_99E. CAD (STA 44+00) WOOD POWER POLE										
16400 0000 Service And Distribution										
16413 0000 Pole Line Construction										
16413 1000 Wood Pole, Class 3, Yellow Pine Penta-Treated										
16413 1000 Basic Cost Items										
16413 1000 Basic Cost Items										
	MIL EL <16413 1003 >				183.16	38.28	810.33	0.00	1031.77	
					366	77	1,621	0	2,064	1031.77
		2.00	EA	EELEJ						
16413 0000 Pole Line Construction										
16413 2000 Wood Crossarm, Complete With All Hardware And										
16413 2100 Single Arm Construction										
	MIL EL <16413 2101 >				37.09	7.75	93.75	0.00	138.60	
					74	16	188	0	277	138.60
		2.00	EA	EELEJ						
16413 0000 Pole Line Construction										
16413 3000 Guying										
16413 3100 Down Guy										
	MIL EL <16413 3101 >				146.77	30.68	50.00	0.00	227.45	
					294	61	100	0	455	227.45
		2.00	EA	EELEJ						
02_03.18.16_99F. CAD (STA 45+00) WOOD POWER POLE										
16400 0000 Service And Distribution										
16413 0000 Pole Line Construction										
16413 3000 Guying										
16413 3100 Down Guy										
16413 1000 Basic Cost Items										
	MIL EL <16413 1003 >				183.16	38.28	810.33	0.00	1031.77	
					183	38	810	0	1,032	1031.77
		1.00	EA	EELEJ						
16413 0000 Pole Line Construction										
16413 2000 Wood Crossarm, Complete With All Hardware And										
16413 2100 Single Arm Construction										
	MIL EL <16413 2101 >				37.09	7.75	93.75	0.00	138.60	
					37	8	94	0	139	138.60
		1.00	EA	EELEJ						
16413 0000 Pole Line Construction										
16413 3000 Guying										
16413 3100 Down Guy										
	MIL EL <16413 3101 >				146.77	30.68	50.00	0.00	227.45	
					147	31	50	0	227	227.45
		1.00	EA	EELEJ						



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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02_03.18.16_99G. CAD (STA 47+70) WOOD POWER POLE													
16400 0000 Service And Distribution													
16413 0000 Pole Line Construction													
16413 3000 Guying													
16413 3100 Down Guy													
16413 1000 Basic Cost Items													
MIL EL <16413 1003 > Wood Pole, Cl 3,Pine,Treated,35' (10.7M),Machine Dig & Set					1.00	EA	EELEJ	183.16 183	38.28 38	810.33 810	0.00 0	1031.77 1,032	1031.77
16413 0000 Pole Line Construction													
16413 2000 Wood Crossarm, Complete With All Hardware And													
16413 2100 Single Arm Construction													
MIL EL <16413 2101 > 3-1/2"x 4-1/2"x 5'7",Single Arm Wood Crossarm,w/Hardware &Braces					1.00	EA	EELEJ	37.09 37	7.75 8	93.75 94	0.00 0	138.60 139	138.60
16413 0000 Pole Line Construction													
16413 3000 Guying													
16413 3100 Down Guy													
MIL EL <16413 3101 > Down Guy for 25'To 40' Pole					1.00	EA	EELEJ	146.77 147	30.68 31	50.00 50	0.00 0	227.45 227	227.45
02_03.18.16_99H. CAD (STA 66) REOCATE 4-WIRE ELE													
USR A2 < > REMOVE 4-WIRE AERIAL					600.00	LF		1.51 906	0.34 204	0.00 0	0.00 0	1.85 1,110	1.85
16000 0000 Electrical													
16050 0000 Basic Materials And Methods													
16120 0000 Wire And Cable													
16120 3000 15 Kv Cable													
16120 3340 15KV Non-Shielded Single Conductor													
L AF A2 <16120 3342 > Copper, 3/0 15KV Non-Shielded					0.60	MLF	EELEJ	6648.87 3,989	1389.60 834	4000.00 2,400	0.00 0	12038.47 7,223	12038
02_03.18.16_99I. CAD (STA 61+50) WOOD POWER POLE													
16050 0000 Basic Materials And Methods													
16120 0000 Wire And Cable													
16120 3000 15 Kv Cable													
16120 3340 15KV Non-Shielded Single Conductor													
16413 1000 Basic Cost Items													
MIL EL <16413 1003 > Wood Pole, Cl 3,Pine,Treated,35' (10.7M),Machine Dig & Set					2.00	EA	EELEJ	183.16 366	38.28 77	810.33 1,621	0.00 0	1031.77 2,064	1031.77

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
-----										
16000	0000	Electrical								
16400	0000	Service And Distribution								
16413	0000	Pole Line Construction								
16413	2000	Wood Crossarm, Complete With All Hardware And								
16413	2100	Single Arm Construction								
		MIL EL <16413 2101 >			37.09	7.75	93.75	0.00	138.60	
		3-1/2"x 4-1/2"x 5'7", Single Arm								
		Wood Crossarm,w/Hardware &Braces	2.00	EA	EELEJ	74	16	188	0	277 138.60
16413	0000	Pole Line Construction								
16413	3000	Guying								
16413	3100	Down Guy								
		MIL EL <16413 3101 >			146.77	30.68	50.00	0.00	227.45	
		Down Guy for 25'To 40' Pole								
			2.00	EA	EELEJ	294	61	100	0	455 227.45
		TOTAL Utilities				953,340	623,411	1,195,079	30,000	2,801,829
-----										
02_03.47. Structures										
02_03.47.03. Concrete										
02_03.47.03_01. Concrete										
02_03.47.03_01_009. CADILLAC (STA 120+00) HEADWALL										
-----										
02000 0000 Site Work										
02260	0000	Slope Protection								
02261	0000	Rip Rap								
02261	1000	Random - Filter Stone Dumped From Trucks -								
		B MIL A2 <02261 1002 >			7.98	6.64	27.60	0.00	42.22	
		24" Rip Rap	38.50	CY	COETF	307	256	1,063	0	1,625 42.22
		L MIL A2 <02261 1002 >			6.28	5.23	23.02	0.00	34.53	
		BEDDING	14.60	CY	COETF	92	76	336	0	504 34.53
03000	0000	Concrete								
03300	0000	Cast-In-Place Concrete								
03311	0000	Normal Weight Structural Concrete								
		USR A2 <03311 0001 >			367.86	4.65	124.75	0.00	497.27	
		CONCRETE HEADWALL	10.70	CY	SIWRC	3,936	50	1,335	0	5,321 497.27
		02_03.47.03_01_010. CADILLAC (STA 120+00) C & G								
-----										
02000 0000 Site Work										
02600	0000	Paving And Surfacing								
02620	0000	Curbs And Gutters								
02620	2000	Curb And Gutter Combined								

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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
B MIL A2 <02620 2001 > 6" x 24" Conc Gutter w/6" Curb Formwork, Rebar, and Finishing		1000.00	LF	KCBGA	4.43 4,432	0.57 571	2.80 2,800	0.00 0	7.80 7,803	7.80
02_03.47.03_01_011. CADILLAC (STA 112+00) HEADWALL										
02000 0000 Site Work										
02260 0000 Slope Protection										
02261 0000 Rip Rap										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > 24" Rip Rap		25.90	CY	COETF	8.00 207	6.65 172	27.60 715	0.00 0	42.25 1,094	42.25
B MIL A2 <02261 1002 > BEDDING		9.80	CY	COETF	6.28 62	5.23 51	23.05 226	0.00 0	34.56 339	34.56
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE HEADWALL		3.70	CY	SIWRC	367.86 1,361	4.65 17	124.75 462	0.00 0	497.27 1,840	497.27
02_03.47.03_01_012. CADILLAC (STA 111+00) HEADWALL										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE HEADWALL		21.90	CY	SIWRC	367.86 8,056	4.65 102	124.75 2,732	0.00 0	497.27 10,890	497.27
02_03.47.03_01_013. CADILLAC (STA 111+00) C & G										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02620 0000 Curbs And Gutters										
02620 2000 Curb And Gutter Combined										
B MIL A2 <02620 2001 > 6" x 24" Conc Gutter w/6" Curb Formwork, Rebar, and Finishing		1400.00	LF	KCBGA	4.43 6,202	0.57 799	2.80 3,920	0.00 0	7.80 10,921	7.80
02_03.47.03_01_014. CADILLAC (STA 91+00) HEADWALL										
02000 0000 Site Work										
02260 0000 Slope Protection										
02261 0000 Rip Rap										
02261 1000 Random - Filter Stone Dumped From Trucks -										

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
B MIL A2 <02261 1002 > 24" Rip Rap		38.50	CY	COETF	7.98 307	6.64 256	27.60 1,063	0.00 0	42.22 1,625	42.22
B MIL A2 <02261 1002 > BEDDING		14.60	CY	COETF	6.30 92	5.24 77	23.05 337	0.00 0	34.59 505	34.59
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE HEADWALL		10.70	CY	SIWRC	354.00 3,788	4.48 48	124.75 1,335	0.00 0	483.23 5,171	483.23
02_03.47.03_01_015. CADILLAC (STA 91+00) C & G										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02620 0000 Curbs And Gutters										
02620 2000 Curb And Gutter Combined										
B MIL A2 <02620 2001 > 6" x 24" Conc Gutter w/6" Curb Formwork, Rebar, and Finishing		1000.00	LF	XCBGA	4.43 4,430	0.57 571	2.80 2,800	0.00 0	7.80 7,801	7.80
02_03.47.03_01_016. CADILLAC (STA 10+00) HEADWALL										
02000 0000 Site Work										
02260 0000 Slope Protection										
02261 0000 Rip Rap										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > 24" Rip Rap		47.20	CY	COETF	7.98 377	6.64 313	27.60 1,303	0.00 0	42.22 1,993	42.22
B MIL A2 <02261 1002 > BEDDING		17.90	CY	COETF	6.30 113	5.24 94	23.05 413	0.00 0	34.59 619	34.59
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE HEADWALL		14.10	CY	SIWRC	354.00 4,991	4.48 63	124.75 1,759	0.00 0	483.23 6,813	483.23
02_03.47.03_01_026. LAMAR (STA 47+00) HEADWALL										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02261 1000 Random - Filter Stone Dumped From Trucks -										

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02_03. Cemetery, Utilities, & Structure		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
B MIL A2 <02261 1002 > 24" Rip Rap		43.50	CY	COETF	7.98 347	6.64 289	27.60 1,201	0.00 0	42.22 1,836	42.22
B MIL A2 <02261 1002 > BEDDING		16.50	CY	COETF	6.30 104	5.24 86	23.05 380	0.00 0	34.59 571	34.59
USR A2 <03311 0001 > CONCRETE HEADWALL		11.60	CY	SIWRC	354.00 4,106	4.48 52	124.75 1,447	0.00 0	483.23 5,605	483.23
02_03.47.03_01_029. LAMAR (STA 77+50) HEADWALL										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > 24" Rip Rap		50.90	CY	COETF	7.98 406	6.64 338	27.60 1,405	0.00 0	42.22 2,149	42.22
B MIL A2 <02261 1002 > BEDDING		19.30	CY	COETF	6.30 122	5.24 101	23.05 445	0.00 0	34.59 668	34.59
USR A2 <03311 0001 > CONCRETE HEADWALL		16.50	CY	SIWRC	354.00 5,841	4.48 74	124.75 2,058	0.00 0	483.23 7,973	483.23
02_03.47.03_01_030. LAMAR 24+60 - 8'Box Culv W/Demo										
02000 0000 Site Work										
02110 0000 Demolition										
02112 0000 Selective Demolition										
USR A2 <02112 0001 > REMOVE CONCRETE BOX CULVERT		201.00	CY	COETF	18.60 3,739	15.47 3,110	0.00 0	0.00 0	34.07 6,849	34.07
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > 8'x8' BOX CULVERT		274.00	CY	SIWRC	157.99 43,288	2.00 548	85.79 23,506	0.00 0	245.77 67,342	245.77
02_03.47.03_01_031. LAMAR (STA 134) 7'BX CULV/RipRap										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > 24" Rip Rap		54.90	CY	COETF	8.00 439	6.65 365	27.60 1,515	0.00 0	42.25 2,320	42.25

LABOR ID: DFWIER EQUIP ID: FEDC95

Currency in DOLLARS

CREW ID: FEDC95 USB ID: FEDC95

02_03. Cemetery, Utilities, & Structure	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
B MIL A2 <02261 1002 > BEDDING	20.90	CY	COETF	6.30 132	5.24 110	23.05 482	0.00 0	34.59 723	34.59
USR A2 <03311 0001 > 7'x7' BOX CULVERT 600LF W/3'FILL	378.00	CY	SIWRC	157.99 59,719	2.00 755	85.79 32,429	0.00 0	245.77 92,903	245.77
USR A2 <03311 0001 > WINGWALLS W/29' FILL	19.50	CY	SIWRC	166.70 3,251	2.11 41	85.79 1,673	0.00 0	254.60 4,965	254.60
USR A2 <03311 0001 > 7'x7' BOX CULVERT 300LF W/29' FILL	231.00	CY	SIWRC	157.99 36,495	2.00 462	77.56 17,916	0.00 0	237.54 54,873	237.54

02\_03.47.03\_ 01\_032. LAMAR LEVEE (STA 119+00) HDWALL

03000 0000 Concrete

03300 0000 Cast-In-Place Concrete

03311 0000 Normal Weight Structural Concrete

02261 1000 Random - Filter Stone Dumped From Trucks -

B MIL A2 <02261 1002 > 24" Rip Rap	54.00	CY	COETF	7.98 431	6.64 358	27.60 1,490	0.00 0	42.22 2,280	42.22
B MIL A2 <02261 1002 > BEDDING	21.00	CY	COETF	6.30 132	5.24 110	23.05 484	0.00 0	34.59 726	34.59
USR A2 <03311 0001 > CONCRETE HEADWALL	19.20	CY	SIWRC	354.00 6,797	4.48 86	124.75 2,395	0.00 0	483.23 9,278	483.23

02\_03.47.03\_ 02. Reinforcing Steel

02\_03.47.03\_ 02\_030. LAMAR (STA 24+60) 8'x8' BOX CULV

03000 0000 Concrete

03200 0000 Concrete Reinforcement

03210 0000 Reinforcing Steel

03210 2000 Beams, Columns And Walls

03210 2000 Basic Cost Items

L MIL A2 <03210 2001 > Gr 50 Resteel, Bm, Clmn, Wall, #3-#6	58944	LB	SIWRC	0.21 12,254	0.00 153	0.25 14,736	0.00 0	0.46 27,144	0.46
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02\_03.47.03\_ 02\_031. LAMAR (STA 134+00) 7'x7' BX CULV

03000 0000 Concrete

03200 0000 Concrete Reinforcement

03210 0000 Reinforcing Steel

03210 2000 Beams, Columns And Walls

03210 2000 Basic Cost Items

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <03210 2001 >	Gr 50 Resteel,Bm,Clmn,Wall,#3-#6 FOR 600' LENGTH	67100	LB	SIWRC	13,950	174	16,775	0	30,900	0.46
L MIL A2 <03210 2001 >	Gr 50 Resteel,Bm,Clmn,Wall,#3-#6 FOR WINGWALLS	1950.00	LB	SIWRC	405	5	488	0	898	0.46
L MIL A2 <03210 2001 >	Gr 50 Resteel,Bm,Clmn,Wall,#3-#6 FOR 300' LENGTH	58860	LB	SIWRC	12,237	153	14,715	0	27,105	0.46
02_03.47.03_99A. Service Bridge										
02_03.47.03_99A_001. CADILLAC (STA 94+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 >	SERVICE BRIDGE	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15
02_03.47.03_99A_002. CADILLAC (STA 102+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 >	SERVICE BRIDGE	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15
02_03.47.03_99A_003. CADILLAC (STA 112+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 >	SERVICE BRIDGE	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15
02_03.47.03_99A_005. CADILLAC (STA 34+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 >	SERVICE BRIDGE	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.47.03_99A_006. CADILLAC (STA 81+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_007. CADILLAC (STA 43+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_008. CADILLAC (STA 26+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_009. CADILLAC (STA 66+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_011. CADILLAC (STA 112+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_012. CADILLAC (STA 111+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										



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02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
USR A2 <03311 0002 > SERVICE BRIDGE		110.00	SF	SIWRC	57.17 6,289	0.72 80	29.25 3,218	0.00 0	87.15 9,586	87.15
02_03.47.03_99A_013. CADILLAC (STA 111+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE		110.00	SF	SIWRC	57.17 6,289	0.72 80	29.25 3,218	0.00 0	87.15 9,586	87.15
02_03.47.03_99A_015. CADILLAC (STA 75+80)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE		110.00	SF	SIWRC	57.17 6,289	0.72 80	29.25 3,218	0.00 0	87.15 9,586	87.15
02_03.47.03_99A_021. LAMAR (STA 70+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE		110.00	SF	SIWRC	57.17 6,289	0.72 80	29.25 3,218	0.00 0	87.15 9,586	87.15
02_03.47.03_99A_022. LAMAR (STA 90+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE		110.00	SF	SIWRC	57.17 6,289	0.72 80	29.25 3,218	0.00 0	87.15 9,586	87.15
02_03.47.03_99A_023. LAMAR (STA 106+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE		110.00	SF	SIWRC	57.17 6,289	0.72 80	29.25 3,218	0.00 0	87.15 9,586	87.15

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
02_03.47.03_99A_024. LAMAR (STA 117+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_025. LAMAR (STA 25+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_026. LAMAR (STA 47+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_029. LAMAR (STA 77+50)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_030. LAMAR (STA 24+60)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
	110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15	
02_03.47.03_99A_031. LAMAR (STA 134+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										

02_03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	LABOR	EQUIPMT	MATERIAL	OTHER	TOTAL COST	UNIT
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
		110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15
02_03.47.03_99A_032. LAMAR LEVEE (STA 119+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
		110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15
02_03.47.03_99A_033. LAMAR (STA 27+00)										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0002 > SERVICE BRIDGE					57.17	0.72	29.25	0.00	87.15	
		110.00	SF	SIWRC	6,289	80	3,218	0	9,586	87.15
TOTAL Structures					387,598	12,716	232,139	0	632,453	
TOTAL Cemetery, Utilities, & Structure					1340937	636,126	1,427,218	30,000	3,434,281	
TOTAL Relocations					1340937	636,126	1,427,218	30,000	3,434,281	

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06_03. Wildlife Facilities & Sanctuary		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT	
06. Fish and Wildlife Facilities											
06_03. Wildlife Facilities & Sanctuary											
06_03.71. Fences											
06_03.71.02. Site Work											
06_03.71.02_01. Barbed Wire Fence											
06_03.71.02_01_001. Barbed Wire Fence											
02000 0000 Site Work											
02700 0000 Site Improvements											
02712 0000 Wire And Misc Metal Fences											
02712 4000 Barbed Wire Fences											
02712 4300 Barbed Wire Fence (Based On Post At 10 Ft Ctrs.,											
B MIL A2 <02712 4301 > Barbed Wire, Std 3 Strand Fence					0.70	0.24	1.06	0.00	2.00		
					22,100	7,682	33,581	0	63,363	2.00	
TOTAL Fences					22,100	7,682	33,581	0	63,363		
06_03.72. Signs											
06_03.72.02. Site Work											
06_03.72.02_01. Signs											
TOTAL Signs					0	0	0	10,000	10,000		
TOTAL Signs					0	0	0	10,000	10,000		
06_03.73. Habitat and Feeding Facilities											
06_03.73.02. Site Work											
06_03.73.02_01. Trees											
TOTAL SELECTIVE THINNING (IMP)					463.00	AC	0	0	0	37,040	37,040 80.00
TOTAL MAST TREES (IMP)					1175.00	EA	0	0	0	35,250	35,250 30.00
TOTAL TREE PLANTING W/SITE PREP (IMP)					1175.00	EA	0	0	0	35,250	35,250 30.00
TOTAL SHEAR,RAKE, PILE & BED (IMP)					50.00	AC	0	0	0	8,000	8,000 160.00
TOTAL 300 TREES/150 SEEDLINGS PER ACRE					233.00	AC	0	0	0	69,900	69,900 300.00

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06_03. Wildlife Facilities & Sanctuary		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
06_03.73.02_ 02. Shrubs										
	TOTAL SHREDDING/DISKING (CONV)	233.00	AC		0	0	0	9,320	9,320	40.00
06_03.73.06. Wood and Plastic										
06_03.73.06_ 01. Wood Feeders										
	TOTAL PASSERINE NEST BOXES (IMP)	270.00	EA		0	0	0	8,100	8,100	30.00
	TOTAL PASSERINE NEST BOXES (IMP)	233.00	EA		0	0	0	6,990	6,990	30.00
	TOTAL Habitat and Feeding Facilities				0	0	0	209,850	209,850	
	TOTAL Wildlife Facilities & Sanctuary				22,100	7,682	33,581	219,850	283,213	
	TOTAL Fish and Wildlife Facilities				22,100	7,682	33,581	219,850	283,213	

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 09. Channels and Canals

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09_01. Channels		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
09. Channels and Canals										
09_01. Channels										
09_01.99. Associated General Items										
09_01.99.02. Site Work										
09_01.99.02_03. Pipe Drains:										
09_01.99.02_03_001. OTLT STR - DNSTRM WTLNDS-EXC										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1004 >	Exc & Fill, D-8K Dozer w/U-Blade			0.38	1.37	0.00	0.00	1.75	
		300 HP; EXCAVATION	12160	CY	CODTK	4,663	16,652	0	21,315	1.75
	L MIL A2 <02226 1004 >	Exc & Fill, D-8K Dozer w/U-Blade			0.55	1.96	0.00	0.00	2.51	
		300 HP; FILL	11580	CY	CODTK	6,356	22,699	0	29,055	2.51
02000 0000 Site Work										
02450 0000 Utility Pipelines										
02452 0000 Reinforced Concrete Pipe										
02452 1000 Reinforced Conc. Pipe Class 3 Without Gaskets										
02452 1000 Reinforced Class III Concrete Pipe										
	B MIL A2 <02452 1006 >	36"(91cm) Dia Cl III Conc Pipe			7.00	2.46	33.15	0.00	42.61	
		Reinforced without Gaskets	2120.00	LF	UOEHK	14,833	5,212	70,278	90,323	42.61
09_01.99.02_03_002. SD BOXES - DNSTREAM WETLANDS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
	USR A2 <03311 0001 >	STORM DRAIN BOXES (CONC, STEEL,			542.00	0.00	308.00	0.00	850.00	
		COVER)	8.00	CY		4,336	0	2,464	6,800	850.00
09_01.99.02_03_003. 18" RIPRAP - DNSTREAM WETLANDS										
02000 0000 Site Work										
02260 0000 Slope Protection										
02261 0000 Rip Rap										
02261 1000 Random - Filter Stone Dumped From Trucks -										
	B MIL A2 <02261 1002 >	Rip Rap, 10# to 100# Pieces			7.94	6.61	27.60	0.00	42.15	
		Random, Dumped from Truck	950.00	SY	COETF	7,546	6,277	26,320	40,042	42.15

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09_01. Channels		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
09_01.99.02_03_004. FILTER FABRIC - DNSTREAM WETLAND										
02000 0000 Site Work										
02500 0000 Site Drainage										
02512 0000 Underslab Drainage										
B MIL A2 <02512 2001 > Plastic Filter Fabric					0.82	0.52	1.35	0.00	2.69	
Underground Drain Lines					782	490	1,283	0	2,555	2.69
09_01.99.02_03_005. 18" RIPRAP - INLET UPPER WETLAND										
02000 0000 Site Work										
02500 0000 Site Drainage										
02512 0000 Underslab Drainage										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > Rip Rap, 10# to 100# Pieces					7.94	6.61	27.60	0.00	42.15	
Random, Dumped from Truck					4,003	3,330	13,910	0	21,244	42.15
09_01.99.02_03_006. 18" RIPRAP - OUTLET UPPER WETLAND										
02000 0000 Site Work										
02500 0000 Site Drainage										
02512 0000 Underslab Drainage										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > Rip Rap, 10# to 100# Pieces					7.94	6.61	27.60	0.00	42.15	
Random, Dumped from Truck					3,312	2,755	11,509	0	17,577	42.15
09_01.99.02_03_007. 18" RIPRAP - OUTFALL CEDER CREEK										
02000 0000 Site Work										
02500 0000 Site Drainage										
02512 0000 Underslab Drainage										
02261 1000 Random - Filter Stone Dumped From Trucks -										
B MIL A2 <02261 1002 > Rip Rap, 10# to 100# Pieces					7.94	6.61	27.60	0.00	42.15	
Random, Dumped from Truck					2,311	1,923	8,032	0	12,266	42.15
09_01.99.02_03_008. 36" RCP UPPER WETLANDS										
02000 0000 Site Work										
02500 0000 Site Drainage										
02512 0000 Underslab Drainage										
02261 1000 Random - Filter Stone Dumped From Trucks -										
02452 1000 Reinforced Class III Concrete Pipe										
B MIL A2 <02452 1006 > 36"(91cm) Dia Cl III Conc Pipe					24.54	8.62	33.15	0.00	66.32	
Reinforced without Gaskets					46,137	16,213	62,322	0	124,672	66.32

09_01. Channels		QUANTITY	UOM	CREW ID	LABOR	EQUIPMENT	MATERIAL	OTHER	TOTAL COST	UNIT
09_01.99.02_06. Seeding										
09_01.99.02_06_002. TURFING - UPPER WETLANDS										
02000 0000 Site Work										
02800 0000 Landscaping										
02810 0000 Seeding										
USR A2 <02810 0001 > TURFING					1735.00	0.00	665.00	0.00	2400.00	
33.00	AC				57,255	0	21,945	0	79,200	2400.00
09_01.99.02_06_005. TURFING - DOWNSTREAM WETLANDS										
02000 0000 Site Work										
02800 0000 Landscaping										
USR A2 <02800 0001 > TURFING					1735.00	0.00	665.00	0.00	2400.00	
69.00	AC				119,715	0	45,885	0	165,600	2400.00
09_01.99.02_10. Excavation and Embankment:										
09_01.99.02_10_CCC. EXC,HAUL,WASTE (FLD CTRL) LOWER'										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper					0.98	3.54	0.00	0.00	4.51	
					195,061	705,643	0	0	900,704	4.51
35 BCY, 4.5 Cycles Per Hour					199571	CY	CODSK			
09_01.99.02_10_CCD. EXC,HAUL,WASTE (ENV REST) LOWER'										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper					0.98	3.54	0.00	0.00	4.51	
					307,182	1,111,249	0	0	1,418,431	4.51
35 BCY, 4.5 Cycles Per Hour					314285	CY	CODSK			
09_01.99.02_10_CCF. EXC,HAUL,WASTE (FLD CTRL) IH-45										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										



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09_01. Channels		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper 35 BCY, 4.5 Cycles Per Hour		217852	CY	CODSK	212,929	770,281	0	0	983,210	4.51
09_01.99.02_ 10_CCH. EXC,HAUL (FLD CTRL) LOWER SWALE*										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper 35 BCY, 4.5 Cycles Per Hour		533762	CY	CODSK	244,943	886,045	0	0	1,130,988	2.12
09_01.99.02_ 10_DDD. EXC,HAUL (FLD CTRL) UPPER SWALE*										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper 35 BCY, 4.5 Cycles Per Hour		518491	CY	CODSK	228,032	824,815	0	0	1,052,848	2.03
09_01.99.02_ 10_DDE. EXC,HAUL (FLD CTRL) IH-45										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper 35 BCY, 4.5 Cycles Per Hour		69365	CY	CODSK	30,507	110,346	0	0	140,853	2.03
09_01.99.02_ 10_DDL. EXC,HAUL,WASTE(ENV REST) UPPER *										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
L MIL A2 <02226 2513 > Excav w/Push Loaded SP Scraper 35 BCY, 4.5 Cycles Per Hour		222211	CY	CODSK	216,967	784,894	0	0	1,001,861	4.51

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09\_01. Channels

		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
-----										
09_01.99.02_10_EED. FILL (FLD CTRL) LOWER										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1005 > Exc & Fill, D-9H Dozer w/U-Blade				0.15	0.48	0.00	0.00	0.63	
	410 HP, Move 150' and Stockpile	85930	CY	CODTN	12,700	41,367	0	0	54,067	0.63
09_01.99.02_10_EEE. FILL (FLD CTRL) IH-45										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1005 > Exc & Fill, D-9H Dozer w/U-Blade				0.15	0.48	0.00	0.00	0.63	
	410 HP, Move 150' and Stockpile	60317	CY	CODTN	8,915	29,037	0	0	37,951	0.63
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 7	10667	CY		0	0	0	426,680	426,680	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 10	18485	CY		0	0	0	739,400	739,400	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 11	18150	CY		0	0	0	726,000	726,000	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 12	6357.00	CY		0	0	0	254,280	254,280	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 13	282168	CY		0	0	0	7,054,200	7,054,200	25.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 15	92315	CY		0	0	0	3,692,600	3,692,600	40.00
	TOTAL REM/TRANS LEAD LEACHATE-AREA 13	5400000	GAL		0	0	0	1,080,000	1,080,000	0.20
09_01.99.03. Concrete										
09_01.99.03_01. Concrete										
09_01.99.03_01_001. INLET STR - DOWNSTREAM WETLANDS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
	USR A2 <03300 0001 > CONCRETE				332.50	0.00	92.50	0.00	425.00	
		112.00	CY		37,240	0	10,360	0	47,600	425.00

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09_01. Channels		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
09_01.99.03_01_002. OTLET STR - DOWNSTREAM WETLANDS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
USR A2 <03300 0001 > CONCRETE										
		7.00	CY		332.50 2,328	0.00 0	92.50 618	0.00 0	425.00 2,975	425.00
09_01.99.03_01_003. INLET STR - UPPER CHAIN WETLANDS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
USR A2 <03300 0001 > CONCRETE										
		224.00	CY		332.50 74,480	0.00 0	92.50 20,720	0.00 0	425.00 95,200	425.00
09_01.99.03_01_004. OUTLT STR - UPPER CHAIN WETLANDS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
USR A2 <03300 0001 > CONCRETE										
		10.00	CY		332.50 3,325	0.00 0	92.50 925	0.00 0	425.00 4,250	425.00
09_01.99.03_02. Reinforcing Steel										
09_01.99.03_02_001. INLET STR - DOWNSTREAM WETLANDS										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
L MIL A2 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6										
		11200	LB	SIWRC	0.21 2,328	0.00 29	0.25 2,800	0.00 0	0.46 5,158	0.46
09_01.99.03_02_002. OTLET STR - DOWNSTREAM WETLANDS										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
L MIL A2 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6										
		616.00	LB	SIWRC	0.21 128	0.00 2	0.25 154	0.00 0	0.46 294	0.46

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09_01. Channels		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT		
09_01.99.03_02_003. INLET STR - UPPER CHAIN WETLANDS												
03000 0000 Concrete												
03200 0000 Concrete Reinforcement												
03210 0000 Reinforcing Steel												
03210 1000 Footings And Slabs												
L MIL A2 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6					0.21	0.00	0.25	0.00	0.46			
					22400 LB	SIWRC	4,657	58	5,600	0	10,315	0.46
09_01.99.03_02_004. OUTLET STR - UPPER CHAIN WETLANDS												
03000 0000 Concrete												
03200 0000 Concrete Reinforcement												
03210 0000 Reinforcing Steel												
03210 1000 Footings And Slabs												
L MIL A2 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6					0.21	0.00	0.25	0.00	0.46			
					924.00 LB	SIWRC	192	2	231	0	426	0.46
09_01.99.05. Metals												
09_01.99.05_99. ASSOCIATED GENERAL ITEMS												
09_01.99.05_99_001. TRASHRACK -DOWNSTREAM WETLAND												
05000 0000 Metals												
05500 0000 Metal Fabrication												
USR A2 <05500 0001 > TRASHRACK					0.00	0.00	0.00	2085.00	2085.00			
					4.00 EA		0	0	0	8,340	8,340	2085.00
09_01.99.05_99_002. MANHOLE COVER-DOWNSTREAM WETLAND												
02000 0000 Site Work												
02500 0000 Site Drainage												
02520 0000 Storm Drains												
USR A2 <02520 0001 > MANHOLE COVERS					0.00	0.00	0.00	1165.00	1165.00			
					4.00 EA		0	0	0	4,660	4,660	1165.00
09_01.99.05_99_003. TRASHRACK -UPPER CHAIN WETLAND												
05000 0000 Metals												
05500 0000 Metal Fabrication												
USR A2 <05500 0001 > TRASHRACK					0.00	0.00	0.00	2085.00	2085.00			
					8.00 EA		0	0	0	16,680	16,680	2085.00

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 09\_01. Channels QUANTY UOM CREW ID LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT  
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09\_01.99.05\_99\_004. MANHOLE COVR-UPPER CHAIN WETLAND

05000 0000 Metals  
 05500 0000 Metal Fabrication  
 02520 0000 Storm Drains

USR A2 <02520 0001 > MANHOLE COVERS

8.00 EA	0.00	0.00	0.00	1165.00	1165.00	
	0	0	0	9,320	9,320	1165.00

TOTAL Associated General Items

-----  
 1853164 5,339,319 305,285 14012160 21,509,928

TOTAL Channels

-----  
 1853164 5,339,319 305,285 14012160 21,509,928

TOTAL Channels and Canals

-----  
 1853164 5,339,319 305,285 14012160 21,509,928

11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11. Levees and Floodwalls										
11_01. Levees										
11_01.02. Drainage										
11_01.02.03. Concrete										
11_01.02.03_ 01. Concrete										
11_01.02.03_ 01_005. SLUICE STR - CADILLAC HTS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE					230.95	0.00	81.26	0.00	312.21	
					2791.00 CY	644,581	0	226,797	871,378	312.21
11_01.02.03_ 01_006. FLOODGATES - CADILLAC HTS										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
03311 1000 Concrete Placement										
USR A2 <03311 1001 > FLOODGATE CONCRETE					45.86	0.00	55.61	0.00	101.47	
					1931.00 CY	88,556	0	107,383	195,939	101.47
11_01.02.03_ 01_007. FLOODGATES - LAMAR LEVEE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
03311 1000 Concrete Placement										
USR A2 <03311 1001 > FLOODGATE CONCRETE					45.86	0.00	55.61	0.00	101.47	
					812.00 CY	37,238	0	45,155	82,394	101.47
11_01.02.03_ 01_008. SLUICE STR - LAMAR LEVEE										
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
USR A2 <03311 0001 > CONCRETE					230.95	0.00	81.26	0.00	312.21	
					2339.00 CY	540,192	0	190,967	730,259	312.21

11_01. Levees		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.02.03_02. Reinforcing Steel										
11_01.02.03_02_005. SLUICE STR - CADILLAC HTS										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
L MIL A2 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6					0.21	0.00	0.25	0.00	0.46	
384242	LB	SIWRC	79,884	999	96,061	0	176,943	0.46		
11_01.02.03_02_006. FLOODGATES - CADILLAC HTS										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 2000 Beams, Columns And Walls										
03210 2000 Basic Cost Items										
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6					0.21	0.00	0.25	0.00	0.46	
272921	LB	SIWRC	56,740	710	68,230	0	125,680	0.46		
11_01.02.03_02_007. FLOODGATES - LAMAR LEVEE										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 2000 Beams, Columns And Walls										
03210 2000 Basic Cost Items										
L MIL A2 <03210 2001 > Gr 50 Resteel,Bm,Clnn,Wall,#3-#6					0.21	0.00	0.25	0.00	0.46	
113680	LB	SIWRC	23,634	296	28,420	0	52,350	0.46		
11_01.02.03_02_008. SLUICE STR - LAMAR LEVEE										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
L MIL A2 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6					0.21	0.00	0.25	0.00	0.46	
339600	LB	SIWRC	70,603	883	84,900	0	156,386	0.46		

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11_01. Levees		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.02.05. Metals										
11_01.02.05_ 01. Gates										
11_01.02.05_ 01_001. FABRICATED GATES - CADILLAC HTS										
05000 0000 Metals										
05500 0000 Metal Fabrication										
05650 0000 Marine Fabrications										
USR A2 <05650 0001 > FABRICATED GATES					0.48	0.00	3.01	0.00	3.49	
		42277	LB		20,293	0	127,254	0	147,547	3.49
11_01.02.05_ 01_002. FABRICATED GATES - LAMAR LEVEE										
05000 0000 Metals										
05500 0000 Metal Fabrication										
05650 0000 Marine Fabrications										
USR A2 <05650 0001 > FABRICATED GATES					0.48	0.00	3.01	0.00	3.49	
		18360	LB		8,813	0	55,264	0	64,076	3.49
11_01.02.05_ 04. Handrailing										
11_01.02.05_ 04_016. HAND RAILING - CADILLAC HTS										
05000 0000 Metals										
05500 0000 Metal Fabrication										
05521 0000 Pipe And Tube Railing										
USR A2 <05521 0001 > HANDRAIL					1.17	0.00	2.28	0.00	3.45	
		1491.00	LB		1,744	0	3,399	0	5,144	3.45
11_01.02.05_ 04_017. HAND RAILING - LAMAR LEVEE										
05000 0000 Metals										
05500 0000 Metal Fabrication										
05521 0000 Pipe And Tube Railing										
USR A2 <05521 0001 > HANDRAIL					1.17	0.00	2.28	0.00	3.45	
		946.00	LB		1,107	0	2,157	0	3,264	3.45
11_01.02.05_ 99. ASSOCIATED ITEMS										
11_01.02.05_ 99_005. RODNEY HUNT GATE & FRM - CAD HTS										
05000 0000 Metals										
05500 0000 Metal Fabrication										
USR A2 <05500 0001 > GATE & FRAME W/80' SEATED HEAD					0.57	0.00	3.59	0.00	4.16	
		84000	LB		47,880	0	301,560	0	349,440	4.16



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11_01. Levees		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.02.05_ 99_006. RODNEY HUNT HOIST (12) CAD HTS										
05000 0000 Metals 05500 0000 Metal Fabrication										
USR A2 <05500 0001 > HOIST					0.57	0.00	3.59	0.00	4.16	
					9600.00	LB	5,472	0	34,464	39,936 4.16
11_01.02.05_ 99_007. ROD HUNT FLAP GATE (12) CAD HTS										
05000 0000 Metals 05500 0000 Metal Fabrication										
USR A2 <05500 0001 > FLAP GATE AND FRAME					0.57	0.00	3.59	0.00	4.16	
					24000	LB	13,680	0	86,160	99,840 4.16
11_01.02.05_ 99_008. 9" WATERSTOPS - CAD HTS										
03000 0000 Concrete 03250 0000 Concrete Accessories 03253 0000 Waterstops 03253 2000 Rubber										
B MIL A2 <03253 2003 > Wtrstop,Rub Ctr Bulb,3/8"T x 6"W					5.58	0.08	5.65	0.00	11.32	
					1904.00	LF	ACARA	10,629	159	10,758 21,545 11.32
11_01.02.05_ 99_009. LADDERS (94 VLF) - CADILLAC HTS										
05000 0000 Metals 05500 0000 Metal Fabrication 05521 0000 Pipe And Tube Railing 05521 3000 Ladder - Vertical										
B MIL A2 <05521 3001 > 15"(51cm)Wide Vert Steel Ladder Primed					0.23	0.01	1.51	0.00	1.75	
					940.00	LB	SIWSC	216	12	1,419 1,647 1.75
11_01.02.05_ 99_010. 48" HANDRAIL (448 LF)- CAD HTS										
05000 0000 Metals 05500 0000 Metal Fabrication 05521 0000 Pipe And Tube Railing										
USR A2 <05521 0001 > 48" PIPE HANDRAIL					1.17	0.00	2.28	0.00	3.45	
					2464.00	LB		2,883	0	5,618 8,501 3.45
11_01.02.05_ 99_011. W-BEAMS - CADILLAC HTS										
05000 0000 Metals 05100 0000 Structural Metal Framing 05100 0000 Structural Steel										

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11_01. Levees		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
USR A2 <05120 0001 > W-BEAMS		9600.00	LB		0.78 7,488	0.00 0	0.97 9,312	0.00 0	1.75 16,800	1.75
11_01.02.05_99_012. RUBBER J-SEAL - CADILLAC HEIGHTS										
05000 0000 Metals										
USR A2 <05000 0001 > RUBBER J-SEAL		302.00	LF		4.25 1,284	0.00 0	4.25 1,284	0.00 0	8.50 2,567	8.50
11_01.02.05_99_013. NEOPRENE GASKETS - CADILLAC HTS										
05000 0000 Metals										
USR A2 <05000 0001 > NEOPRENE GASKETS		302.00	LF		0.00 0	0.00 0	2.00 604	0.00 0	2.00 604	2.00
11_01.02.05_99_014. SCREW JACK SUPP - CADILLAC HTS										
05000 0000 Metals										
05100 0000 Structural Metal Framing										
05120 0000 Structural Steel										
USR A2 <05120 0001 > SCREW JACK SUPPORTS		5.00	EA		78.00 390	0.00 0	97.00 485	0.00 0	175.00 875	175.00
11_01.02.05_99_015. LOAD BINDERS - CADILLAC HTS										
05000 0000 Metals										
USR A2 <05000 0001 > LOAD BINDERS		10.00	EA		25.00 250	0.00 0	50.00 500	0.00 0	75.00 750	75.00
11_01.02.05_99_016. ASPHALT @ GATES - CADILLAC HTS										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02612 0000 Bituminous Concrete Paving										
02612 1400 Surface Courses										
B MIL A2 <02612 1401 > ASPHALT		0.60	CY	XASPA	44.86 27	35.18 21	160.00 96	0.00 0	240.04 144	240.04
11_01.02.05_99_018. FLOODGATE HINGES - CADILLAC HTS										
02000 0000 Site Work										
USR A2 <05000 0001 > HINGES		15900	LB		0.50 7,950	0.00 0	3.00 47,700	0.00 0	3.50 55,650	3.50

11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.02.05_ 99_019. TURNBUCKLES - CADILLAC HTS										
USR A2 <05000 002 > TURNBUCKLES					25.00	0.00	50.00	0.00	75.00	
		13.00	EA		325	0	650	0	975	75.00
11_01.02.05_ 99_020. PORTABLE WINCHES - CADILLAC HTS										
02000 0000 Site Work	USR A2 <14000 0001 > PORTABLE WINCHES				160.00	0.00	955.00	0.00	1115.00	
		4.00	EA		640	0	3,820	0	4,460	1115.00
11_01.02.05_ 99_021. STAINLESS STEEL - CADILLAC HTS										
02000 0000 Site Work	USR A2 <05000 0001 > STAINLESS STEEL				0.50	0.00	3.75	0.00	4.25	
		1600.00	LB		800	0	6,000	0	6,800	4.25
11_01.02.05_ 99_022. MISCELLANEOUS - CADILLAC HTS										
02000 0000 Site Work	USR A2 <05000 0001 > MISCELLANEOUS ITEMS				0.17	0.00	2.28	0.00	2.45	
		250.00	LB		43	0	570	0	613	2.45
11_01.02.05_ 99_023. RUBBER J-SEAL - LAMARR LEVEE										
02000 0000 Site Work	USR A2 <05000 0001 > RUBBER J-SEAL				4.25	0.00	4.25	0.00	8.50	
		90.50	LF		385	0	385	0	769	8.50
11_01.02.05_ 99_024. NEOPRENE GASKETS - LAMAR LEVEE										
02000 0000 Site Work	USR A2 <05000 0001 > NEOPRENE GASKETS				0.00	0.00	2.00	0.00	2.00	
		90.50	LF		0	0	181	0	181	2.00
11_01.02.05_ 99_025. SCREW JACK SUPP - LAMAR LEVEES										
05000 0000 Metals	USR A2 <05120 0001 > SCREW JACK SUPPORTS				78.00	0.00	97.00	0.00	175.00	
05100 0000 Structural Metal Framing		2.00	LB		156	0	194	0	350	175.00
05120 0000 Structural Steel										

11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.02.05_99_026. LOAD BINDERS - LAMAR LEVEE										
05000 0000 Metals										
	USR A2 <05000 0001 >	LOAD BINDERS			25.00	0.00	50.00	0.00	75.00	
			4.00 EA		100	0	200	0	300	75.00
11_01.02.05_99_027. ASPHALT @ GATES - LAMAR LEVEE										
05000 0000 Metals										
	05100 0000	Structural Metal Framing								
	05120 0000	Structural Steel								
	02612 1400	Surface Courses								
	B MIL A2 <02612 1401 >	ASPHALT			44.86	35.18	160.00	0.00	240.04	
		3774#/CY (2242Kg/M3),Ctrl Plant	0.40 CY	XASPA	18	14	64	0	96	240.04
11_01.02.05_99_028. FLOODGATE HINGES - LAMAR LEVEE										
05000 0000 Metals										
	USR A2 <05000 0001 >	HINGES			0.50	0.00	3.00	0.00	3.50	
			7632.00 LB		3,816	0	22,896	0	26,712	3.50
11_01.02.05_99_029. TURNBUCKLES - LAMAR LEVEE										
	USR A2 <05000 002 >	TURNBUCKLES			25.00	0.00	50.00	0.00	75.00	
			5.00 EA		125	0	250	0	375	75.00
11_01.02.05_99_030. PORTABLE WINCHES - LAMAR LEVEE										
05000 0000 Metals										
	USR A2 <14000 0001 >	PORTABLE WINCHES			160.00	0.00	955.00	0.00	1115.00	
			2.00 EA		320	0	1,910	0	2,230	1115.00
11_01.02.05_99_031. STAINLESS STEEL -LAMAR LEVEE										
05000 0000 Metals										
	USR A2 <05000 0001 >	STAINLESS STEEL			0.50	0.00	3.75	0.00	4.25	
			834.00 LB		417	0	3,128	0	3,545	4.25
11_01.02.05_99_032. MISCELLANEOUS - LAMAR LEVEE										
05000 0000 Metals										
	USR A2 <05000 0001 >	MISCELLANEOUS ITEMS			0.17	0.00	2.28	0.00	2.45	
			250.00 LB		43	0	570	0	613	2.45

11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.02.05_ 99_033. RODNEY HUNT GATE & FRM - LAMAR										
05000 0000 Metals										
05500 0000 Metal Fabrication										
	USR A2 <05500 0001 > GATE & FRAME W/80' SEATED HEAD	64500	LB		0.57 36,765	0.00 0	3.59 231,555	0.00 0	4.16 268,320	4.16
11_01.02.05_ 99_035. RODNEY HUNT HOIST (10) LAMAR										
05000 0000 Metals										
05500 0000 Metal Fabrication										
	USR A2 <05500 0001 > HOIST	8800.00	LB		0.57 5,016	0.00 0	3.59 31,592	0.00 0	4.16 36,608	4.16
11_01.02.05_ 99_036. ROD HUNT FLAP GATE (10) LAMAR										
05000 0000 Metals										
05500 0000 Metal Fabrication										
	USR A2 <05500 0001 > FLAP GATE AND FRAME	20400	LB		0.57 11,628	0.00 0	3.59 73,236	0.00 0	4.16 84,864	4.16
11_01.02.05_ 99_037. 9" WATERSTOPS - LAMAR										
03000 0000 Concrete										
03250 0000 Concrete Accessories										
03253 0000 Waterstops										
03253 2000 Rubber										
	B MIL A2 <03253 2003 > Wtrstop,Rub Ctr Bulb,3/8" T x 6"W	1301.00	LF	ACARA	5.58 7,263	0.08 109	5.65 7,351	0.00 0	11.32 14,722	11.32
11_01.02.05_ 99_038. LADDERS (152 VLF) - LAMAR										
05000 0000 Metals										
05500 0000 Metal Fabrication										
05521 0000 Pipe And Tube Railing										
05521 3000 Ladder - Vertical										
	B MIL A2 <05521 3001 > 15"(51cm)Wide Vert Steel Ladder Primed	2012.00	LB	SINSC	0.23 463	0.01 26	1.51 3,038	0.00 0	1.75 3,526	1.75
11_01.02.05_ 99_039. 48" HANDRAIL (493 LF)- LAMAR										
05000 0000 Metals										
05500 0000 Metal Fabrication										
05521 0000 Pipe And Tube Railing										

11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
USR A2 <05521 0001 > 48" PIPE HANDRAIL		2215.00	LB		1.17 2,592	0.00 0	2.28 5,050	0.00 0	3.45 7,642	3.45
11_01.02.05_99_040. W-BEAMS - LAMAR										
05000 0000 Metals										
05100 0000 Structural Metal Framing										
05120 0000 Structural Steel										
USR A2 <05120 0001 > W-BEAMS		12000	LB		0.78 9,360	0.00 0	0.97 11,640	0.00 0	1.75 21,000	1.75
TOTAL Drainage					1751806	3,227	1,939,325	0	3,694,358	
11_01.03. Care & Diversion of Water										
11_01.03.02. Site Work										
11_01.03.02_01. Excavation										
11_01.03.02_01_001. SLURRY TRENCH THROUGH LANDFILL										
02000 0000 Site Work										
02200 0000 Earthwork										
02221 0000 Trenching, Backfilling, And Compaction										
USR A2 <02221 0001 > BENTONITE SLURRY		76600	SF		0.09 6,894	0.00 0	0.50 38,300	0.00 0	0.59 45,194	0.59
02200 0000 Earthwork										
02225 0000 Bulk Excavation										
02225 1000 Site Excavation										
02225 1400 Excavation By Drag Line Includes Casting Or										
02225 1410 1-1/2 Cy Bucket										
L MIL A2 <02225 1414 > Bulk Site Excavation, Unclass		76600	SF	UOEHE	0.55 42,130	0.04 64,160	0.00 0	0.00 0	1.39 106,290	1.39
03000 0000 Concrete										
03300 0000 Cast-In-Place Concrete										
USR A2 <03300 0001 > CONCRETE		76600	SF		9.34 715,444	0.00 0	4.93 377,638	0.00 0	14.27 1,093,082	14.27
TOTAL PUMP, DIVERT THRU PIPE					46,700	77,800	249,000	0	373,500	
TOTAL Care & Diversion of Water					911,168	141,960	664,938	0	1,618,066	

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11_01. Levees		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.04. Permanent Access Roads & Parking										
11_01.04.02. Site Work										
11_01.04.02_04. Road Surfacing										
11_01.04.02_04_001. GRAVEL ROAD - CADILLAC HTS										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02619 0000 Gravel Surfacing										
B MIL A2 <02619 1001 > Gravel Surfacing, Delivered					3.87	3.56	22.30	0.00	29.73	
	5530.00	CY	COFGA		21,398	19,684	123,319	0	164,401	29.73
11_01.04.02_04_002. GRAVEL ROAD - LAMAR LEVEE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02611 0000 Crushed Stone Paving										
02611 1000 Prepare And Roll Subbase										
B MIL A2 <02611 1002 > Subgrade Prep					0.43	0.40	0.00	0.00	0.84	
	11474	SY	XSGRA		4,978	4,617	0	0	9,596	0.84
02600 0000 Paving And Surfacing										
02619 0000 Gravel Surfacing										
B MIL A2 <02619 1001 > Gravel Surfacing, Delivered					3.87	3.56	22.30	0.00	29.73	
	7592.00	CY	COFGA		29,376	27,024	169,302	0	225,702	29.73
TOTAL Permanent Access Roads & Parking					55,753	51,325	292,621	0	399,698	
11_01.99. Associated General Items										
11_01.99.02. Site Work										
11_01.99.02_06. Seeding										
11_01.99.02_06_001. TURFING - LAMAR LEVEE SUMPS										
02000 0000 Site Work										
02800 0000 Landscaping										
02810 0000 Seeding										
USR A2 <02810 0001 > TURFING					1735.00	0.00	665.00	0.00	2400.00	
	33.00	AC			57,255	0	21,945	0	79,200	2400.00

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11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
-----										
11_01.99.02_06_003. TURFING - LAMAR LEVEE										
02000 0000 Site Work										
02800 0000 Landscaping										
02810 0000 Seeding										
USR A2 <02810 0001 > TURFING					1735.00	0.00	665.00	0.00	2400.00	
			80.00 AC		138,800	0	53,200	0	192,000	2400.00
11_01.99.02_06_004. TURFING - CADILLAC HTS										
02000 0000 Site Work										
02800 0000 Landscaping										
02810 0000 Seeding										
USR A2 <02810 0001 > TURFING					1735.00	0.00	665.00	0.00	2400.00	
			46.00 AC		79,810	0	30,590	0	110,400	2400.00
11_01.99.02_09. Clearing										
11_01.99.02_09_001. Clearing - LAMAR LEVEE										
02000 0000 Site Work										
02100 0000 Site Preparation										
02102 0000 Clearing And Grubbing										
USR A2 <02102 0001 > CLEARING					0.00	0.00	0.00	1700.00	1700.00	
			82.00 AC		0	0	0	139,400	139,400	1700.00
11_01.99.02_09_003. Clearing - CADILLAC HTS										
02000 0000 Site Work										
02100 0000 Site Preparation										
02102 0000 Clearing And Grubbing										
USR A2 <02102 0001 > CLEARING					0.00	0.00	0.00	1700.00	1700.00	
			50.00 AC		0	0	0	85,000	85,000	1700.00
11_01.99.02_10. Excavation and Embankment:										
11_01.99.02_10_001. EXCVTN,HAUL-LAMAR SUMPS (SLUICE										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
L MIL A2 <02226 1004 > Exc & Fill, D-8K Dozer w/U-Blade					0.44	1.57	0.00	0.00	2.01	
			300 HP, Move 150' and Stockpile	4900.00 CY	2,157	7,703	0	0	9,860	2.01



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11_01. Levees		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.99.02_10_002. FILL-LAMAR LEVEE SUMPS (SLUICE)										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1004 >	Exc & Fill, D-8K Dozer w/U-Blade			0.14	0.50	0.00	0.00	0.64	
		300 HP, Move 150' and Stockpile	3283.00	CY	460	1,642	0	0	2,102	0.64
11_01.99.02_10_006. EXCVTN,HAUL-LAMAR LEVEE SUMPS										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1004 >	Exc & Fill, D-8K Dozer w/U-Blade			0.44	1.56	0.00	0.00	2.00	
		300 HP, Move 150' and Stockpile	549790	CY	240,038	857,123	0	0	1,097,161	2.00
11_01.99.02_10_007. FILL-LAMAR LEVEE SUMPS										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1004 >	Exc & Fill, D-8K Dozer w/U-Blade			0.14	0.49	0.00	0.00	0.63	
		300 HP, Move 150' and Stockpile	174.00	CY	24	85	0	0	109	0.63
11_01.99.02_10_EEA. EXC,HAUL CADILLAC HEIGHTS LEVEE										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 2000 Excavation By Push Loaded ScrapEr Choose										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
	L MIL A2 <02226 2513 >	Excav w/Push Loaded SP Scraper			0.43	1.57	0.00	0.00	2.00	
		35 BCY, 4.5 Cycles Per Hour	33030	CY	14,335	51,860	0	0	66,195	2.00
11_01.99.02_10_EED. FILL CADILLAC HEIGHTS LEVEE										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1005 >	Exc & Fill, D-9H Dozer w/U-Blade			0.15	0.48	0.00	0.00	0.63	
		410 HP, Move 150' and Stockpile	598448	CY	88,451	288,093	0	0	376,543	0.63

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11_01. Levees		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
11_01.99.02_10_FFA. EXC,HAUL LAMAR LEVEE										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
02226 2500 Sp Scraper Cap. 35 Bcy (26.6Bm3)										
	L MIL A2 <02226 2513 >	Excav w/Push Loaded SP Scraper			0.44	1.58	0.00	0.00	2.02	
		35 BCY, 4.5 Cycles Per Hour	45142 CY	CODSK	19,704	71,279	0	0	90,984	2.02
11_01.99.02_10_FFB. FILL LAMAR LEVEE										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A2 <02226 1005 >	Exc & Fill, D-9H Dozer w/U-Blade			0.15	0.50	0.00	0.00	0.65	
		410 HP, Move 150' and Stockpile	997280 CY	CODTN	151,886	494,651	0	0	646,537	0.65
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 1		6566.00 CY		0	0	0	262,640	262,640	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 2		17922 CY		0	0	0	716,860	716,880	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 3		7502.00 CY		0	0	0	300,080	300,080	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 5		10000 CY		0	0	0	400,000	400,000	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 5		5000.00 CY		0	0	0	200,000	200,000	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 6		620.00 CY		0	0	0	24,800	24,800	40.00
	TOTAL EXC,HAUL NO-HAZ MAT'L-AREA 9		2963.00 CY		0	0	0	118,520	118,520	40.00
11_01.99.13. Special Construction										
11_01.99.13_99. PUMP HOUSE AND PUMPS										
	TOTAL PUMP HOUSE		1.00 EA		0	0	0	31,840	31,840	31840
	TOTAL 6500 GPM PUMP CAPACITY		1.00 EA		0	0	0	70,600	70,600	70600
	TOTAL Associated General Items				792,920	1,772,436	105,735	2,349,760	5,020,851	
	TOTAL Levees				3411647	1,968,948	3,002,619	2,349,760	10,732,974	
	TOTAL Levees and Floodwalls				3411647	1,968,948	3,002,619	2,349,760	10,732,974	

14_00. Recreation Facilities		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
14. Recreation Facilities										
14_00. Recreation Facilities										
14_00.18. Utilities										
14_00.18.16. Electrical										
14_00.18.16_01. ACCESS PT - LOOP 12										
16000 0000 Electrical										
16050 0000 Basic Materials And Methods										
16111 0000 Conduits										
16111 3000 Conduit Installed By Direct Burial - In										
16111 3100 Pvc Conduit - Glued Couplings Schedule 40										
	L MIL EL <16111 3107 >	1"PVC Sch 40 Conduit w/Cplg			0.78	0.00	0.40	0.00	1.18	
		Direct Burial, Glued Coupling	5280.00	LF	EELEC	4,128	0	2,112	0	6,240 1.18
16050 0000 Basic Materials And Methods										
16120 0000 Wire And Cable										
16120 1000 600 Volt Branch Wire										
16120 1700 600 Volt Feeder Wire, Single Str Copper										
	M MIL EL <16120 1704 >	No 8-Type THWN			209.40	1.11	130.00	0.00	340.51	
		600V Cu,Sgl Strd,Pl in Cnd	5.30	MLF	EELEF	1,110	6	689	0	1,805 340.51
	M MIL EL <16120 1705 >	No 6-Type THWN			252.31	1.34	180.00	0.00	433.65	
		600V Cu,Sgl Strd,Pl in Cnd	15.92	MLF	EELEF	4,017	21	2,866	0	6,904 433.65
16000 0000 Electrical										
16400 0000 Service And Distribution										
16411 0000 Underground Service										
16411 4000 Electrical Handholes - Sizes Shown Are Inside										
	MIL EL <16411 4001 >	24"x 24"x 30",Elect Handholes			789.00	355.75	112.00	0.00	1256.75	
			8.00	EA	ALABN	6,312	2,846	896	0	10,054 1256.75
16400 0000 Service And Distribution										
16430 0000 Metering										
16430 1000 Revenue Metering										
16430 1100 Meter Socket (Base)										
	B CIV EL <16430 1118 >	1Ph,3W, Meter			42.84	0.20	115.00	0.00	158.05	
		Including Socket Cover & Device	1.00	EA	EELEB	43	0	115	0	158 158.05
16000 0000 Electrical										
16500 0000 Lighting										
16510 0000 Lighting Fixtures Per Ce Std Dwg 40-06-04 Feb										
16510 4000 Exterior-High Intensity Discharge Fixtures										
16510 4000 Enclosed Heavy Duty Integrally Ballasted										

Sat 16 Jan 1999  
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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 14. Recreation Facilities

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14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
B MIL EL <16510 4021 > 150W HPS Pole-Mtd Fixture		4.00	EA	EELEK	52.81 211	8.01 32	165.00 660	0.00 0	225.82 903	225.82
16500 0000 Lighting										
16570 0000 Poles And Standards										
16570 2000 Roadway Poles - Steel Round, Tapered, Galvanize-										
16570 2100 Single Member Arms										
16570 2110 One Arm Per Pole										
L MIL EL <16570 2114 > Rd Tpr Stl Rdwy Pole,1-6'Arm,35'		2.00	EA	EELEJ	265.95 532	55.58 111	1230.37 2,461	0.00 0	1551.91 3,104	1551.91
Incl Foundation & Grounding										
14_00.18.16_01A. ACCESS PT - ROCHESTER PARK										
16000 0000 Electrical										
16050 0000 Basic Materials And Methods										
16111 0000 Conduits										
16111 3000 Conduit Installed By Direct Burial - In										
16111 3100 Pvc Conduit - Glued Couplings Schedule 40										
L MIL EL <16111 3107 > 1"PVC Sch 40 Conduit w/Cplg		8000.00	LF	EELEC	0.78 6,255	0.00 0	0.40 3,200	0.00 0	1.18 9,455	1.18
Direct Burial, Glued Coupling										
16050 0000 Basic Materials And Methods										
16120 0000 Wire And Cable										
16120 1000 600 Volt Branch Wire										
16120 1700 600 Volt Feeder Wire, Single Str Copper										
M MIL EL <16120 1704 > No 8-Type THWN		5.30	MLF	EELEF	209.40 1,110	1.11 6	130.00 689	0.00 0	340.51 1,805	340.51
600V Cu,Sgl Strd,Pl in Cnd										
M MIL EL <16120 1705 > No 6-Type THWN		15.92	MLF	EELEF	252.31 4,017	1.34 21	180.00 2,866	0.00 0	433.65 6,904	433.65
600V Cu,Sgl Strd,Pl in Cnd										
16000 0000 Electrical										
16400 0000 Service And Distribution										
16411 0000 Underground Service										
16411 4000 Electrical Handholes - Sizes Shown Are Inside										
MIL EL <16411 4001 > 24"x 24"x 30",Elect Handholes		8.00	EA	ALABN	789.00 6,312	355.75 2,846	112.00 896	0.00 0	1256.75 10,054	1256.75
16400 0000 Service And Distribution										
16430 0000 Metering										
16430 1000 Revenue Metering										
16430 1100 Meter Socket (Base)										
B CIV EL <16430 1118 > 1PR,3W, Meter		1.00	EA	EELEB	42.84 43	0.00 0	115.00 115	0.00 0	158.05 158	158.05
Including Socket Cover & Device										

14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
16000 0000 Electrical										
16500 0000 Lighting										
16510 0000 Lighting Fixtures Per Ce Std Dwg 40-06-04 Feb										
16510 4000 Exterior-High Intensity Discharge Fixtures										
16510 4020 Enclosed Heavy Duty Integrally Ballasted										
	B MIL EL <16510 4021 >	150W HPS Pole-Mtd Fixture	4.00	EA	EELEK	52.81 211	8.01 32	165.00 660	0.00 0	225.82 903 225.82
	L MIL EL <16570 2114 >	Rd Tpr Stl Rdwy Pole,1-6'Arm,35' Incl Foundation & Grounding	2.00	EA	EELEJ	265.95 532	55.58 111	1230.37 2,461	0.00 0	1551.91 3,104 1551.91
14_00.18.16_01B. ACCESS PT - IH 20										
16000 0000 Electrical										
16050 0000 Basic Materials And Methods										
16111 0000 Conduits										
16111 3000 Conduit Installed By Direct Burial - In										
16111 3100 Pvc Conduit - Glued Couplings Schedule 40										
	L MIL EL <16111 3107 >	1"PVC Sch 40 Conduit w/Cplg Direct Burial, Glued Coupling	2640.00	LF	EELEC	0.78 2,064	0.00 0	0.40 1,056	0.00 0	1.18 3,120 1.18
16050 0000 Basic Materials And Methods										
16120 0000 Wire And Cable										
16120 1000 600 Volt Branch Wire										
16120 1700 600 Volt Feeder Wire, Single Str Copper										
	M MIL EL <16120 1704 >	No 8-Type THWN 600V Cu,Sgl Strd,Pl in Cnd	5.30	MLF	EELEF	209.40 1,110	1.11 6	130.00 689	0.00 0	340.51 1,805 340.51
	M MIL EL <16120 1705 >	No 6-Type THWN 600V Cu,Sgl Strd,Pl in Cnd	15.92	MLF	EELEF	252.31 4,017	1.34 21	180.00 2,866	0.00 0	433.65 6,904 433.65
16000 0000 Electrical										
16400 0000 Service And Distribution										
16411 0000 Underground Service										
16411 4000 Electrical Handholes - Sizes Shown Are Inside										
	MIL EL <16411 4001 >	24"x 24"x 30",Elect Handholes	8.00	EA	ALABN	789.00 6,312	355.75 2,846	112.00 896	0.00 0	1256.75 10,054 1256.75
16400 0000 Service And Distribution										
16430 0000 Metering										
16430 1000 Revenue Metering										
16430 1100 Meter Socket (Base)										
	B CIV EL <16430 1118 >	1Ph,3W, Meter Including Socket Cover & Device	1.00	EA	EELEB	42.84 43	0.00 0	115.00 115	0.00 0	158.05 158 158.05

14\_00. Recreation Facilities

16000 0000 Electrical

16500 0000 Lighting

16510 0000 Lighting Fixtures Per Ce Std Dwg 40-06-04 Feb

16510 4000 Exterior-High Intensity Discharge Fixtures

16510 4020 Enclosed Heavy Duty Integrally Ballasted

B MIL EL <16510 4021 > 150W HPS Pole-Mtd Fixture

4.00 EA EELEK 52.81 8.01 165.00 0.00 225.82

211 32 660 0 903 225.82

L MIL EL <16570 2114 > Rd Tpr Stl Rdwy Pole,1-6'Arm,35'

Incl Foundation & Grounding

2.00 EA EELEJ 265.95 55.58 1230.37 0.00 1551.91

532 111 2,461 0 3,104 1551.91

TOTAL Utilities

49,122 9,050 29,427 0 87,598

14\_00.22. Parking Lots and Service Roads

14\_00.22.02. Site Work

14\_00.22.02\_08. Base Course

14\_00.22.02\_08\_001. SUBGRADE

02000 0000 Site Work

02600 0000 Paving And Surfacing

02610 0000 Paving

02610 1000 Lime Stabilized Subgrade Based On Existing Soil

MIL A3 <02610 1001 > 6"Th, Lime Stabilized Subgrade  
 (15cm) Thick, 25#(11Kg)/SY

11368 SY COFCJ 0.59 0.53 0.81 0.00 1.94  
 6,732 6,052 9,242 0 22,027 1.94

02600 0000 Paving And Surfacing

02611 0000 Crushed Stone Paving

02611 1000 Prepare And Roll Subbase

MIL A3 <02611 1002 > SUBGRADE PREP

988.00 SY XSGRA 0.44 0.41 0.34 0.00 1.19  
 439 407 332 0 1,177 1.19

02611 0000 Crushed Stone Paving

02611 2000 Roadway Base Courses

02611 2000 Basic Cost Items

MIL A3 <02611 2001 > FLEX BASE

2060.00 CY XSABA 3.39 6.71 4.14 0.00 14.25  
 6,989 13,832 8,528 0 29,349 14.25

14\_00.22.02\_08\_002. 6" LIME SUBGRADE

02000 0000 Site Work

02600 0000 Paving And Surfacing

02610 0000 Paving

02610 1000 Lime Stabilized Subgrade Based On Existing Soil

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Tri-Service Automated Cost Estimating System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 14. Recreation Facilities

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14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
MIL A3 <02610 1001 > 6"Tk, Lime Stabilized Subgrade (15cm) Thick, 25#(11Kg)/SY		11368	SY	COFCJ	0.59 6,732	0.53 6,052	0.81 9,244	0.00 0	1.94 22,029	1.94
MIL A3 <02611 2001 > FLEX BASE		2060.00	CY	XSABA	3.39 6,989	6.71 13,832	4.14 8,528	0.00 0	14.25 29,349	14.25
14_00.22.02_08_003. FLEX BASE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02610 0000 Paving										
02610 1000 Lime Stabilized Subgrade Based On Existing Soil										
02611 2000 Basic Cost Items										
MIL A3 <02611 2001 > FLEX BASE		2060.00	CY	XSABA	3.39 6,989	6.71 13,832	4.14 8,528	0.00 0	14.25 29,349	14.25
14_00.22.02_10. Paving										
14_00.22.02_10_001. CONCRETE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02614 0000 Portland Cement Concrete Paving										
02614 1000 Concrete Paving										
02614 1100 Material Cost Included 4500 Psi Concrete At										
MIL A3 <02614 1101 > 6"(15cm) Concrete Pavement 4,500 PSI Concrete at Spreader		1716.00	CY	CONCF	0.86 1,477	0.29 493	12.48 21,423	0.00 0	13.63 23,392	13.63
14_00.22.02_10_002. REINFORCING STEEL										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
MIL A3 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6		126272	LB	SIWRC	0.12 15,746	0.00 202	0.25 31,568	0.00 0	0.38 47,516	0.38
14_00.22.02_14. CURB										
14_00.22.02_14_ -.										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02620 0000 Curbs And Gutters										
02620 1000 Curbs										
02620 1100 Concrete - Cast In Place										

Sat 16 Jan 1999  
 Eff. Date 04/02/98  
 DETAILED ESTIMATE

Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
 WITH CONTINGENCIES  
 14. Recreation Facilities

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14_00. Recreation Facilities		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
AF A3 <02620 1103 > Concrete Curb, 2'		2700.00	LF	N/A	0.00	0.00	7.23	0.00	7.23	
					0	0	19,521	0	19,521	7.23
14_00.22.02_ 15. SIDEWALK										
14_00.22.02_ 15_001. CONCRETE										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
MIL A3 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6		5964.00	LB	SIWRC	0.12	0.00	0.25	0.00	0.38	
					744	10	1,491	0	2,244	0.38
03300 0000 Cast-In-Place Concrete										
03311 0000 Normal Weight Structural Concrete										
03311 1000 Concrete Placement										
03311 1100 Place 3000 Psi Concrete FoundaTion By Method										
03311 1160 Slab On Grade										
MIL A3 <03311 1164 > Pour Slab on Gr,>= 6", Dir Chute		164.00	CY	ALABE	4.00	0.24	54.00	0.00	58.24	
>= (15 cm) Place 3000 PSI Conc					656	39	8,856	0	9,551	58.24
14_00.22.02_ 15_002. REINFORCING STEEL										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
MIL A3 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6		12104	LB	SIWRC	0.12	0.00	0.25	0.00	0.38	
					1,509	19	3,026	0	4,555	0.38
TOTAL Parking Lots and Service Roads					55,000	54,772	130,288	0	240,060	
14_00.71. Activity Guides and Controls										
14_00.71.06. Wood and Plastic										
14_00.71.06_ 02. Kiosks										
14_00.71.06_ 02_001. CONCRETE										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
03311 1100 Place 3000 Psi Concrete FoundaTion By Method										
03311 1160 Slab On Grade										



14_00. Recreation Facilities		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute					55.22	3.30	56.30	0.00	114.82	
>= (15 cm) Place 3000 PSI Conc		44.10	CY	ALABE	2,435	146	2,463	0	5,064	114.82
14_00.71.06_ 02_002. AGGREGATE BASE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02611 0000 Crushed Stone Paving										
02611 2000 Roadway Base Courses										
02611 2000 Basic Cost Items										
B MIL A3 <02611 2001 > Graded Crushed Agg Rdwy Base Crs					2.50	4.95	22.30	0.00	29.75	
		55.80	CY	XSABA	140	276	1,244	0	1,660	29.75
14_00.71.06_ 02_003. SUBGRADE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02611 0000 Crushed Stone Paving										
02611 1000 Prepare And Roll Subbase										
M A3 <02611 1002 > SUBGRADE PREP					0.44	0.41	0.00	0.00	0.86	
Prepare and Roll Subbase		333.30	SY	XSGRA	148	137	0	0	285	0.86
14_00.71.06_ 02_004. 5'x 5' PREFAB STRUCTURE										
02000 0000 Site Work										
USR A3 <13000 0001 > 5' x 5' PREFAB STRUCTURE					240.00	0.00	260.00	0.00	500.00	
		6.00	EA		1,440	0	1,560	0	3,000	500.00
TOTAL Activity Guides and Controls					4,163	559	5,287	0	10,009	
14_00.72. Day Use Areas										
14_00.72.02. Site Work										
14_00.72.02_99A. EQUESTRIAN TRAILS										
14_00.72.02_99A_001. CLEAR AND GRUB										
02000 0000 Site Work										
02100 0000 Site Preparation										
02102 0000 Clearing And Grubbing										
02102 1700 Site Clearing, Clear Trees w/335hp Dozer										
USR A3 <02102 1702 > Site Clearing					0.00	0.00	0.00	1700.00	1700.00	
12" Dia w/335 HP Dozer		8.20	AC		0	0	0	13,940	13,940	1700.00

14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
14_00.72.02_99B. NATURE TRAIL										
14_00.72.02_99B_001. CLEAR AND GRUB										
02000 0000 Site Work										
02100 0000 Site Preparation										
02102 0000 Clearing And Grubbing										
02102 1700 Site Clearing, Clear Trees w/335hp Dozer										
	USR A3	<02102 1702 >	Site Clearing		0.00	0.00	0.00	1700.00	1700.00	
			12" Dia w/335 HP Dozer	2.40 AC	0	0	0	4,080	4,080	1700.00
14_00.72.02_99C. HIKE AND BIKE TRAIL										
14_00.72.02_99C_001. TRAIL EXCAVATION										
02000 0000 Site Work										
02200 0000 Earthwork										
02226 0000 Site Excavation And Fill										
02226 1000 Excavation By Dozer Moved 150 Ft (45M) And										
	L MIL A3	<02226 1005 >	Exc & Fill, D-9H Dozer w/U-Blade		0.56	1.83	0.00	0.00	2.39	
			410 HP, Move 150' and Stockpile	11722 CY CODTN	6,584	21,451	0	0	28,036	2.39
14_00.72.02_99C_002. COMPACTION OF SUBGRADE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02611 0000 Crushed Stone Paving										
02611 1000 Prepare And Roll Subbase										
	B MIL DJ	<02611 1002 >	Subgrade Preparation		0.42	0.39	0.00	0.01	0.82	
			Prepare and Roll Subbase	105600 SY XSGRA	44,418	41,192	0	846	86,456	0.82
14_00.72.02_99C_003. REINFORCING STEEL										
03000 0000 Concrete										
03200 0000 Concrete Reinforcement										
03210 0000 Reinforcing Steel										
03210 1000 Footings And Slabs										
	B MIL A3	<03210 1001 >	Gr 50 Resteel,Ftgs & Slabs,#3-#6		0.21	0.00	0.25	0.00	0.46	
				728957 LB SIWRC	151,550	1,895	182,239	0	335,685	0.46
14_00.72.02_99C_004. CONCRETE PAVEMENT										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02614 0000 Portland Cement Concrete Paving										
02614 1000 Concrete Paving										

14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT			
02614 1100 Material Cost Included 4500 Psi Concrete At													
B MIL A3 <02614 1101 > 6"(15cm) Concrete Pavement					75.19	25.10	62.75	0.00	163.04				
4,500 PSI Concrete at Spreader					11722	CY	COKCF	881,347	294,205	735,556	0	1,911,107	163.04
14_00.72.06. Wood and Plastic													
14_00.72.06_01. PICNIC SHELTER													
14_00.72.06_01_001. 11' x 14' STRUCTURE													
02000 0000 Site Work													
USR A3 <13000 0001 > 11' x 14' PICNIC SHELTER					1470.00	0.00	1610.00	0.00	3080.00				
					19.00	EA		27,930	0	30,590	0	58,520	3080.00
14_00.72.06_01_002. CONCRETE SLAB													
02600 0000 Paving And Surfacing													
02614 0000 Portland Cement Concrete Paving													
02614 1000 Concrete Paving													
02614 1100 Material Cost Included 4500 Psi Concrete At													
03311 1160 Slab On Grade													
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute					54.97	3.29	56.30	0.00	114.56				
>= (15 cm) Place 3000 PSI Conc					49.40	CY	ALABE	2,716	163	2,781	0	5,659	114.56
14_00.72.06_01_003. REINFORCING STEEL													
03000 0000 Concrete													
03200 0000 Concrete Reinforcement													
03210 0000 Reinforcing Steel													
03210 1000 Footings And Slabs													
L MIL A3 <03210 1001 > Gr 50 Resteel, Ftgs & Slabs, #3-#6					0.21	0.00	0.25	0.00	0.46				
					5396.00	LB	SIWRC	1,122	14	1,349	0	2,485	0.46
14_00.72.06_01_004. PREFAB PICNIC TABLE													
02000 0000 Site Work													
02700 0000 Site Improvements													
02731 0000 Recreational Facilities													
USR A3 <02731 0001 > PREFAB PICNIC TABLE					200.00	0.00	600.00	0.00	800.00				
					34.00	EA		6,800	0	20,400	0	27,200	800.00

14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
14_00.72.06_02. REST STOP SHELTER										
14_00.72.06_02_001. 10' x 10' STRUCTURE										
02000 0000 Site Work										
USR A3 <13000 0001 > 10' x 10' REST STOP SHELTER					955.00	0.00	1045.00	0.00	2000.00	
					10.00 EA	9,550	0	10,450	0	20,000 2000.00
14_00.72.06_02_002. CONCRETE SLAB										
02700 0000 Site Improvements										
02731 0000 Recreational Facilities										
03210 1000 Footings And Slabs										
02614 1100 Material Cost Included 4500 Psi Concrete At										
03311 1160 Slab On Grade										
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute					54.97	3.29	56.30	0.00	114.56	
>= (15 cm) Place 3000 PSI Conc					19.20 CY ALABE	1,055	63	1,081	0	2,200 114.56
14_00.72.06_02_003. REINFORCING STEEL										
02000 0000 Site Work										
02700 0000 Site Improvements										
02731 0000 Recreational Facilities										
03210 1000 Footings And Slabs										
L MIL A3 <03210 1001 > Gr 50 Resteel, Ftgs & Slabs, #3-#6					0.21	0.00	0.25	0.00	0.46	
					2095.00 LB SIWRC	436	5	524	0	965 0.46
14_00.72.06_02_004. 8' PREFAB BENCH										
02000 0000 Site Work										
02700 0000 Site Improvements										
02731 0000 Recreational Facilities										
USR A3 <02731 0001 > 8' PREFAB BENCH					100.00	0.00	200.00	0.00	300.00	
					10.00 EA	1,000	0	2,000	0	3,000 300.00
14_00.72.06_03. PICNIC PAVILLIONS										
14_00.72.06_03_001. CONCRETE										
02700 0000 Site Improvements										
02731 0000 Recreational Facilities										
03210 1000 Footings And Slabs										
02614 1100 Material Cost Included 4500 Psi Concrete At										
03311 1160 Slab On Grade										
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute					55.32	3.31	56.30	0.00	114.93	
>= (15 cm) Place 3000 PSI Conc					148.00 CY ALABE	8,187	490	8,332	0	17,010 114.93

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 WITH CONTINGENCIES  
 14. Recreation Facilities

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14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
14_00.72.06_03_002. AGGREGATE BASE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02611 0000 Crushed Stone Paving										
02611 2000 Roadway Base Courses										
02611 2000 Basic Cost Items										
	B MIL A3 <02611 2001 >	Graded Crushed Agg Rdwy Base Crs			2.50	4.95	22.30	0.00	29.75	
			200.00	CY XSABA	500	990	4,460	0	5,951	29.75
14_00.72.06_03_003. SUBGRADE										
02000 0000 Site Work										
02600 0000 Paving And Surfacing										
02611 0000 Crushed Stone Paving										
02611 1000 Prepare And Roll Subbase										
	B A3 <02611 1002 >	SUBGRADE PREP			0.43	0.40	0.00	0.00	0.83	
		Prepare and Roll Subbase	1200.00	SY XSGRA	516	479	0	0	995	0.83
14_00.72.06_03_004. 30'x60' PREFAB STRUCTURE										
02000 0000 Site Work										
	USR A3 <13000 0001 >	30' x 60' PREFAB PAVILLION			0.00	0.00	0.00	11548.00	11548.00	
			6.00	EA	0	0	0	69,288	69,288	11548
	TOTAL Day Use Areas				1143711	360,947	999,762	88,154	2,592,575	
14_00.99. Associated General Items										
14_00.99.02. Site Work										
14_00.99.02_99A. SIGNAGE										
14_00.99.02_99A_ --										
02000 0000 Site Work										
02700 0000 Site Improvements										
02722 0000 Signage, Traffic										
	USR A3 <02722 0001 >	SIGNAGE-BASED ON SIGNAGE PER			0.00	0.00	0.00	10000.00	10000.00	
		ACCESS POINT ON GREENBELT	1.00	LS	0	0	0	10,000	10,000	10000

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 14. Recreation Facilities

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14_00. Recreation Facilities		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
-----										
14_00.99.02_99B. 150 LF PEDESTRIAN BRIDGES										
TOTAL PRESTRESSED"C" BEAMS										
		600.00	LF		4,620	0	18,450	0	23,070	38.45
14_00.99.02_99B_002. CONCRETE CAP										
02700 0000 Site Improvements										
02722 0000 Signage, Traffic										
02611 1000 Prepare And Roll Subbase										
02611 2000 Basic Cost Items										
03311 1160 Slab On Grade										
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute										
		12.67	CY	ALABE	155.63	9.31	110.40	0.00	275.34	
					1,972	118	1,399	0	3,489	275.34
14_00.99.02_99B_003. CONCRETE - ABUTMENT										
02700 0000 Site Improvements										
02722 0000 Signage, Traffic										
02611 1000 Prepare And Roll Subbase										
02611 2000 Basic Cost Items										
03311 1160 Slab On Grade										
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute										
		37.20	CY	ALABE	184.52	11.04	110.40	0.00	305.96	
					6,864	411	4,107	0	11,382	305.96
14_00.99.02_99B_004. CONCRETE - 42" COLUMN										
02700 0000 Site Improvements										
02722 0000 Signage, Traffic										
02611 1000 Prepare And Roll Subbase										
02611 2000 Basic Cost Items										
03311 1160 Slab On Grade										
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute										
		35.60	CY	ALABE	155.63	9.31	110.40	0.00	275.34	
					5,540	332	3,930	0	9,802	275.34
14_00.99.02_99B_005. CONCRETE - DECK										
02700 0000 Site Improvements										
02722 0000 Signage, Traffic										
02611 1000 Prepare And Roll Subbase										
02611 2000 Basic Cost Items										
03311 1160 Slab On Grade										
B MIL A3 <03311 1164 > Pour Slab on Gr, >= 6", Dir Chute										
		55.60	CY	ALABE	93.34	5.59	110.35	0.00	209.28	
					5,190	311	6,135	0	11,636	209.28

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 WITH CONTINGENCIES  
 14. Recreation Facilities

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14_00. Recreation Facilities		QUANTITY	UOM	CREW	ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT		
14_00.99.02_99B_006. REINFORCING STEEL													
03000 0000 Concrete													
03200 0000 Concrete Reinforcement													
03210 0000 Reinforcing Steel													
03210 1000 Footings And Slabs													
L MIL A3 <03210 1001 > Gr 50 Resteel,Ftgs & Slabs,#3-#6						0.21	0.00	0.25	0.00	0.46			
						19698 LB	SIWRC	4,095	51	4,925	0	9,071	0.46
14_00.99.02_99B_007. 18" DRILLED SHAFT													
02000 0000 Site Work													
02350 0000 Piles, Caissons, And Cofferdams													
02351 0000 Drilled Caissons													
02351 1000 Caisson In Stable Ground No Casing Or Ground													
02351 1000 Basic Cost Items													
B MIL A3 <02351 1001 > 18"(46cm) Dia Caisson, No Casing Stable Ground, No Ground Water						13.33	11.79	5.55	0.00	30.67			
						240.00 VLF	CLADN	3,199	2,830	1,332	0	7,361	30.67
14_00.99.02_99B_008. 42" DRILLED SHAFT													
02000 0000 Site Work													
02350 0000 Piles, Caissons, And Cofferdams													
02351 0000 Drilled Caissons													
02351 1000 Caisson In Stable Ground No Casing Or Ground													
02351 1000 Basic Cost Items													
B CIV A3 <02351 1005 > 42"(106cm) Dia Caisson No Casing Stable ground, No Ground Water						27.80	24.60	30.60	0.00	83.00			
						240.00 VLF	CLADN	6,673	5,904	7,344	0	19,921	83.00
14_00.99.02_99B_009. PIPERAIL													
05000 0000 Metals													
05500 0000 Metal Fabrication													
05521 0000 Pipe And Tube Railing													
05521 1000 Welded Pipe Railing - 3 Ft(.92M) High													
05521 1000 Basic Cost Items													
B MIL A3 <05521 1003 > 2-1/2"D Welded Pipe Hdrl,2-Rail 3'H (.92M)w/Shop Paint						1.10	0.06	2.28	0.00	3.44			
						5142.00 LB	SIWSC	5,659	314	11,724	0	17,697	3.44
TOTAL Associated General Items						43,812	10,270	59,346	10,000	123,427			
TOTAL Recreation Facilities						1295808	435,598	1,224,110	98,154	3,053,670			
TOTAL Recreation Facilities						1295808	435,598	1,224,110	98,154	3,053,670			

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Tri-Service Automated Cost Engineering System (TRACES)  
 PROJECT FLDWY3: DALLAS FLOODWAY EXTENSION LPP  
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 18. Cultural Resource Preservation

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18_00. Cultural Resource Preservation									
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	QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
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18. Cultural Resource Preservation									
TOTAL Cultural Resource Preservation				0	0	0	750,000	750,000	
TOTAL Cultural Resource Preservation	1.00			0	0	0	750,000	750,000	750000



30_11. Project Cooperatn Agreemnt (PCA)		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30. Planning, Engineering and Design										
30_11. Project Cooperatn Agreemnt (PCA)										
30_11.01. Initial Draft PCA Package										
	TOTAL Initial Draft PCA				0	0	0	4,000	4,000	
	TOTAL Fed/Non-Fed AllocatnOfFunds Tabl				0	0	0	1,600	1,600	
	TOTAL Deviation Report				0	0	0	800	800	
	TOTAL Certification of Legal Review				0	0	0	4,000	4,000	
	TOTAL MSC Review Comments				0	0	0	1,600	1,600	
	TOTAL Initial Draft PCA Package	1.00			0	0	0	12,000	12,000	12000
30_11.02. Final Draft PCA Package										
	TOTAL Final Draft PCA				0	0	0	4,000	4,000	
	TOTAL Fed/Non-Fed AllocatnOfFunds Tabl				0	0	0	1,600	1,600	
	TOTAL Deviation Report				0	0	0	800	800	
	TOTAL Certification of Legal Review				0	0	0	1,600	1,600	
	TOTAL SponsrFinac Plan&Stmnt ofFinacCap				0	0	0	1,600	1,600	
	TOTAL Projct Fact Sht/Projct Data Sht				0	0	0	2,400	2,400	
30_11.02.07. Computation of Cost Sharing 902 Limit, Ability to Pay, Territories Waiver as Applicable										
	TOTAL Computation of Cost Sharing				0	0	0	1,600	1,600	
	TOTAL Final Draft 3rd Party Sub-Agreem				0	0	0	1,600	1,600	
	TOTAL MSC Review Comments				0	0	0	800	800	
	TOTAL Final Draft PCA Package	1.00			0	0	0	16,000	16,000	16000
	TOTAL Min.of HQUSACE PCA ReviewComMeet				0	0	0	2,400	2,400	
30_11.04. Executed PCA										
	TOTAL MSC Approved PCA	1.00			0	0	0	1,600	1,600	1600.00
	TOTAL HQUSACE Approved PCA	1.00			0	0	0	1,600	1,600	1600.00

30_11. Project Cooperatn Agreemnt (PCA)	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL ASA(CW) Approved PCA	1.00			0	0	0	1,600	1,600	1600.00
TOTAL OMB Approved PCA	1.00			0	0	0	1,600	1,600	1600.00
30_11.04.05. Local Sponsor Executive PCA Certificate of Authority, and Lobbying Certificate									
TOTAL Local Sponsor Executive PCA	1.00			0	0	0	1,600	1,600	1600.00
TOTAL ASA(CW) Executed PCA	1.00			0	0	0	1,600	1,600	1600.00
TOTAL Executed PCA	1.00			0	0	0	9,600	9,600	9600.00
30_11.05. Escrow Agreement									
TOTAL HQUSACE Approved Escrow Agreemnt	1.00			0	0	0	4,000	4,000	4000.00
TOTAL Executed Escrow Agreement	1.00			0	0	0	4,000	4,000	4000.00
TOTAL Escrow Agreement	1.00			0	0	0	8,000	8,000	8000.00
30_11.06. Initial Draft PCA Amendment Pkg.									
TOTAL Initial Draft PCA Amendment	1.00			0	0	0	3,200	3,200	3200.00
30_11.06.02. Amended Fed/Non-Fed Allocatn of Funds Table									
TOTAL Amended Fed/Non-Fed Allocatn of	1.00			0	0	0	800	800	800.00
TOTAL Amended Deviation Report	1.00			0	0	0	800	800	800.00
TOTAL Amended Certificatn of Legl Revw	1.00			0	0	0	1,600	1,600	1600.00
30_11.06.05. Initial Draft Amendment MSC Review Comments									
TOTAL Initial Draft Amendment MSC	1.00			0	0	0	1,600	1,600	1600.00
TOTAL Initial Draft PCA Amendment Pkg.	1.00			0	0	0	8,000	8,000	8000.00
30_11.07. Final Draft PCA Ammendment Pkg.									
TOTAL Final Draft PCA Amendment	1.00			0	0	0	1,600	1,600	1600.00
30_11.07.02. Amended Fed/Non-Fed Allocatn of Funds Table									

30_11. Project Cooperatn Agreemnt (PCA)	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL Amended Fed/Non-Fed Allocatn of	1.00			0	0	0	800	800	800.00
TOTAL Amended Deviation Report	1.00			0	0	0	800	800	800.00
TOTAL Amended Certificatn of Legl Revw	1.00			0	0	0	800	800	800.00
30_11.07.05. Ammended Sponsr's Financing Plan & Statement of Finicial Capability									
TOTAL Ammended Sponsr's Financing Plan	1.00			0	0	0	800	800	800.00
30_11.07.06. Amended Project Fact Sheet/Proj. Data Sheet									
TOTAL Amended Project Fact Sheet/Proj.	1.00			0	0	0	800	800	800.00
30_11.07.07. Computatn of Amended Cost Sharing 902 Limit, Ability to Pay, Territories Waiver as Applicable									
TOTAL Computatn of Amended Cost Sharing	1.00			0	0	0	800	800	800.00
30_11.07.08. Amended Final Draft 3rd Party Sub-Agreements									
TOTAL Amended Final Draft 3rd Party	1.00			0	0	0	800	800	800.00
TOTAL Final Draft Amendmt MSC Revw Com	1.00			0	0	0	800	800	800.00
TOTAL Final Draft PCA Ammdment Pkg.	1.00			0	0	0	8,000	8,000	8000.00
30_11.08. Minutes of HQUSACE PCA Amendmnt Review Committee Meetings									
TOTAL Minutes of HQUSACE PCA Amendmnt	1.00			0	0	0	2,400	2,400	2400.00
30_11.09. Executed PCA Amendment									
TOTAL MSC Approved PCA Amendment	1.00			0	0	0	1,600	1,600	1600.00
TOTAL HQUSACE Approved PCA Amendment	1.00			0	0	0	1,600	1,600	1600.00
TOTAL ASA(CW) Approved PCA Amendment	1.00			0	0	0	1,600	1,600	1600.00
TOTAL OMB Approved PCA Amendment	1.00			0	0	0	1,600	1,600	1600.00
30_11.09.05. Local Sponsr Exe. PCA Amendment Certificate of Authority, and Lobbying Certificate									

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Tri-Service Automated Cost Estimating System (TRACES)  
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 WITH CONTINGENCIES  
 30. Planning, Engineering and Design

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30_11. Project Cooperatn Agreemnt (PCA)		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL Local Sponsr Exe. PCA Amendment		1.00			0	0	0	1,600	1,600	1600.00
TOTAL ASA(CW) Executed PCA Amendment		1.00			0	0	0	1,600	1,600	1600.00
TOTAL Executed PCA Amendment		1.00			0	0	0	9,600	9,600	9600.00
30_11.10. Amendments to Escrow Agreement										
30_11.10.01. HQUSACE Approved Amended Escrow Agreement										
TOTAL HQUSACE Approved Amended Escrow		1.00			0	0	0	2,400	2,400	2400.00
TOTAL Executed Amended Escrow Agreement		1.00			0	0	0	1,600	1,600	1600.00
TOTAL Amendments to Escrow Agreement		1.00			0	0	0	4,000	4,000	4000.00
TOTAL Project Cooperatn Agreemnt (PCA)		1.00			0	0	0	80,000	80,000	80000

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Tri-Service Automated Cost Eng. ing System (TRACES)  
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30_12. Project Management Plan (PMP)		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
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30_12. Project Management Plan (PMP)										
	TOTAL Revisions to PMP	1.00			0	0	0	16,000	16,000	16000
	TOTAL Project Management Plan (PMP)	1.00			0	0	0	16,000	16,000	16000

30_18. Gnrl Reevaln Rep (GRR) 97/98		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_18. Gnrl Reevaln Rep (GRR) 97/98 not including PPMD										
30_18.01. Engineering Analysis/Report										
	TOTAL Surveys&Mapp'g Except Real Estat	1.00	ea		0	0	0	22,000	22,000	22000
30_18.01.03. Hydrology and Hydraulic Studies Report										
	TOTAL Hydrology and Hydraulic Studies	1.00	ea		0	0	0	102,000	102,000	102000
30_18.01.04. Engineering and Design Analysis Report with Preliminary Drawings										
	TOTAL Engineering and Design Analysis	1.00	ea		0	0	0	176,000	176,000	176000
	TOTAL Geotechnical Studies Report	1.00	ea		0	0	0	84,000	84,000	84000
	TOTAL Engineering Analysis/Report	1.00	ea		0	0	0	384,000	384,000	384000
30_18.02. Socio/Economic Analysis/Report										
	TOTAL Economic Analysis/Report	1.00	ea		0	0	0	60,000	60,000	60000
	TOTAL Social Studies/Report	1.00	ea		0	0	0	4,000	4,000	4000.00
	TOTAL Ability to Pay Report	1.00	ea		0	0	0	4,000	4,000	4000.00
	TOTAL Socio/Economic Analysis/Report	1.00	ea		0	0	0	68,000	68,000	68000
30_18.04. Environmental Studies Documents (EA, EIS, SEIS)										
	TOTAL Biological Assessment	1.00	EA		0	0	0	12,800	12,800	12800
30_18.04.04. Environmntl Impact Statmnt (EIS) or Supl. Environmental Impact Statement (SEIS)										
	TOTAL Environmntl Impact Statmnt (EIS)	1.00	EA		0	0	0	51,200	51,200	51200
	TOTAL Coordinatn Documts w/Other Agenc	1.00	EA		0	0	0	4,400	4,400	4400.00
	TOTAL Mitigation Analysis Report	1.00	EA		0	0	0	12,800	12,800	12800
30_18.04.08. Fish & Wildlife Coordinat'n Act Report										

30_18. Gnr1 Reevaln Rep (GRR) 97/98		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL Fish & Wildlife Coordnat'n Act		1.00	EA		0	0	0	20,000	20,000	20000
TOTAL Section 404(b)(1) Analysis Reprt		1.00	EA		0	0	0	12,800	12,800	12800
TOTAL 401 State Water Quality Certifcn		1.00	EA		0	0	0	8,800	8,800	8800.00
TOTAL Record of Decision (ROD)		1.00	EA		0	0	0	4,400	4,400	4400.00
TOTAL Section 103 Evaluation		1.00	EA		0	0	0	4,400	4,400	4400.00
TOTAL Statement of Findings (SOF)		1.00	EA		0	0	0	8,400	8,400	8400.00
TOTAL Environmental Studies Documents		1.00	ea		0	0	0	140,000	140,000	140000
30_18.05. HTRW/RCRA Studies Report										
TOTAL HTRW Assessment Report		1.00	EA		0	0	0	21,200	21,200	21200
TOTAL HTRW Site Inspection Report		1.00	EA		0	0	0	21,200	21,200	21200
TOTAL HTRW Remedial Investigations		1.00	EA		0	0	0	536,800	536,800	536800
TOTAL HTRW/RCRA Studies Report		1.00	EA		0	0	0	579,200	579,200	579200
30_18.06. Cultur1 Resource Studies Documts										
TOTAL Survey Field Report		1.00	EA		0	0	0	12,800	12,800	12800
TOTAL Data Collectn & Analysis Report		1.00	EA		0	0	0	50,000	50,000	50000
TOTAL National Register Eligibility		1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL Mitigation Plan Report		1.00	EA		0	0	0	2,000	2,000	2000.00
TOTAL Memorandum of Agreement		1.00	EA		0	0	0	2,000	2,000	2000.00
TOTAL Cultur1 Resource Studies Documts		1.00	EA		0	0	0	70,800	70,800	70800
30_18.07. Cost Estimates										
TOTAL GRR-Study Cost Estimates		1.00	EA		0	0	0	2,000	2,000	2000.00
TOTAL PED Cost Estimate		1.00	EA		0	0	0	2,000	2,000	2000.00
TOTAL Project Cost Estimate		1.00	EA		0	0	0	12,000	12,000	12000
TOTAL OMRR&R Cost Estimate Updates		1.00	EA		0	0	0	2,000	2,000	2000.00
TOTAL Fully Funded Cost Estimate		1.00	EA		0	0	0	2,000	2,000	2000.00

30_18. Gnrl Reevaln Rep (GRR) 97/98	QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL All Other Cost Estimates	1.00	EA		0	0	0	2,000	2,000	2000.00
TOTAL Cost Estimates	1.00	EA		0	0	0	22,000	22,000	22000
30_18.08. Public Involvement Document									
TOTAL Notice of Public Meeting	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Minutes of Public Meeting	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Public Comments Report	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Newsletters	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL All Other Public Involvmnt Docs.	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Public Involvement Document	1.00	EA		0	0	0	40,000	40,000	40000
TOTAL Plan Formulatr & Evaluatr Reprts	1.00	EA		0	0	0	6,000	6,000	6000.00
30_18.10. Draft Report Documentation									
TOTAL Review Conference Documents	1.00	EA		0	0	0	18,000	18,000	18000
TOTAL In-House Review Comments	1.00	EA		0	0	0	32,000	32,000	32000
TOTAL Public Review Comments	1.00	EA		0	0	0	500,000	500,000	500000
TOTAL Project Guidance Memorandum (PGM)	1.00	EA		0	0	0	130,000	130,000	130000
TOTAL All Other GRR Documents	1.00	EA		0	0	0	80,000	80,000	80000
TOTAL Draft Report Documentation	1.00	EA		0	0	0	760,000	760,000	760000
30_18.11. Final Report Documentation									
TOTAL Division Commanders Notice	1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL All Other Final Report Documents	1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL Final Report Documentation	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL All Other Studies/Investigations	1.00	EA		0	0	0	104,000	104,000	104000
30_18.15. Management									
TOTAL AE Contract Documents	1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL Study Funds Control Documents	1.00	EA		0	0	0	22,000	22,000	22000



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30_18. Gnrl Reevaln Rep (GRR) 97/98		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL Trip Reports		1.00	EA		0	0	0	12,800	12,800	12800
TOTAL Coordination Documents		1.00	EA		0	0	0	76,000	76,000	76000
TOTAL Minutes of Technical Review Conf		1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL All Other Management Documents		1.00	EA		0	0	0	3,200	3,200	3200.00
TOTAL Management		1.00	EA		0	0	0	122,000	122,000	122000
30_18.99. PRIOR TO 1996 (INCL PPMD)										
USR	<	>			2000000	251000.00	0.00	0.00	2251000.00	
			1.00	LS	2000000	251,000	0	0	2,251,000	2251000
TOTAL PRIOR TO 1996 (INCL PPMD)		1.00			2000000	251,000	0	0	2,251,000	2251000
TOTAL Gnrl Reevaln Rep (GRR) 97/98		1.00	ea		2000000	251,000	0	2,304,000	4,555,000	4555000

30_20. Project Design Memorandum		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_20. Project Design Memorandum										
30_20.01. Engineering Analysis/Report										
	TOTAL Surveys&Mapp'g Except Real Estat	1.00	EA		0	0	0	372,000	372,000	372000
30_20.01.03. Hydrology and Hydraulic Studies Report										
	TOTAL Hydrology and Hydraulic Studies	1.00	EA		0	0	0	24,000	24,000	24000
30_20.01.04. Engineering and Design Analysis Report with Preliminary Drawings										
	TOTAL Engineering and Design Analysis	1.00	EA		0	0	0	628,800	628,800	628800
	TOTAL Geotechnical Studies Report	1.00	EA		0	0	0	80,800	80,800	80800
	TOTAL Engineering Analysis/Report	1.00	EA		0	0	0	1,105,600	1,105,600	1105600
30_20.02. Socio/Economic Analysis/Report										
	TOTAL Economic Analysis/Report	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL Ability to Pay Report	1.00	EA		0	0	0	4,000	4,000	4000.00
	TOTAL Socio/Economic Analysis/Report	1.00	EA		0	0	0	12,000	12,000	12000
30_20.04. Environmental Studies Documents (EA, EIS, SEIS)										
	TOTAL Biological Assessment	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Coordinatn Documts w/Other Agenc	1.00	EA		0	0	0	800	800	800.00
	TOTAL Mitigation Analysis Report	1.00	EA		0	0	0	1,600	1,600	1600.00
30_20.04.08. Fish & Wildlife Coordnat'n Act Report										
	TOTAL Fish & Wildlife Coordnat'n Act	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Section 404(b)(1) Analysis Reprt	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL 401 State Water Quality Certifcn	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Record of Decision (ROD)	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Section 103 Evaluation	1.00	EA		0	0	0	800	800	800.00

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30_20. Project Design Memorandum	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL Statement of Findings (SOF)	1.00	EA		0	0	0	800	800	800.00
TOTAL Environmental Studies Documents	1.00	EA		0	0	0	12,000	12,000	12000
30_20.05. HTRW/RCRA Studies Report									
TOTAL HTRW Assessment Report	1.00	EA		0	0	0	20,000	20,000	20000
TOTAL HTRW Site Inspection Report	1.00	EA		0	0	0	20,000	20,000	20000
TOTAL HTRW Remedial Investigations	1.00	EA		0	0	0	441,620	441,620	441620
TOTAL HTRW/RCRA Studies Report	1.00	EA		0	0	0	481,620	481,620	481620
30_20.06. Cultural Resource Studies Documts									
TOTAL Survey Field Report	1.00	EA		0	0	0	48,000	48,000	48000
TOTAL Data Collectn & Analysis Report	1.00	EA		0	0	0	440,000	440,000	440000
TOTAL National Register Eligibility	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL No Effects Determination	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL No Adverse Effects Determination	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL Mitigation Plan Report	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Memorandum of Agreement	1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL One Percent Waiver	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL Cultural Resource Studies Documts	1.00	EA		0	0	0	512,800	512,800	512800
30_20.07. Cost Estimates									
TOTAL PDM-Study Cost Estimates	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL PED Cost Estimate	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL Project Cost Estimate	1.00	EA		0	0	0	14,400	14,400	14400
TOTAL OMRR&R Cost Estimate Updates	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL All Other Cost Estimates	1.00	EA		0	0	0	800	800	800.00
TOTAL Cost Estimates	1.00	EA		0	0	0	20,000	20,000	20000

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30_20. Project Design Memorandum		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_20.08. Final Report Documentation										
	TOTAL Minutes of Review Conference	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL In-House Review Comments	1.00	EA		0	0	0	32,000	32,000	32000
	TOTAL Public Review Comments	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL All Other Report Documents	1.00	EA		0	0	0	10,400	10,400	10400
	TOTAL Final Report Documentation	1.00	EA		0	0	0	52,000	52,000	52000
	TOTAL All Other Studies/Invest (re/rec)	1.00	EA		0	0	0	52,000	52,000	52000
30_20.11. Management										
	TOTAL AE Contract Documents	1.00	EA		0	0	0	4,000	4,000	4000.00
	TOTAL Coordination Documents	1.00	EA		0	0	0	24,000	24,000	24000
	TOTAL Minutes of Technical Review Conf	1.00	EA		0	0	0	2,400	2,400	2400.00
	TOTAL All Other Management Documents	1.00	EA		0	0	0	9,200	9,200	9200.00
	TOTAL Management	1.00	EA		0	0	0	39,600	39,600	39600
	TOTAL Project Design Memorandum	1.00			0	0	0	2,287,620	2,287,620	2287620

30_23. Constructn Contracts(s) Documnts		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_23. Constructn Contracts(s) Documnts										
30_23.01. Plans and Specifications (P&S)										
	TOTAL Field Investigation Report	1.00	EA		0	0	0	12,000	12,000	12000
	TOTAL Plans and Specifications	1.00	EA		0	0	0	386,400	386,400	386400
	TOTAL Permits for Construction	1.00	EA		0	0	0	16,000	16,000	16000
	TOTAL BCO Review Certification	1.00	EA		0	0	0	4,000	4,000	4000.00
	TOTAL Plans and Specifications (P&S)	1.00	EA		0	0	0	418,400	418,400	418400
30_23.04. Environmental Studies Documents										
	TOTAL Coordinatn Documnts w/Other Agenc	1.00	EA		0	0	0	800	800	800.00
	TOTAL Mitigation Analysis Report	1.00	EA		0	0	0	1,600	1,600	1600.00
30_23.04.04. Fish & Wildlife Coordnat'n Act Report										
	TOTAL Fish & Wildlife Coordnat'n Act	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL 401 State Water Quality Certifcn	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Section 404(b)(1) Analysis Reprt	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Record of Decision (ROD)	1.00	EA		0	0	0	1,600	1,600	1600.00
	TOTAL Planning RCRA Permits	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL NPDES Permit	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL Air Emissions Permits	1.00	EA		0	0	0	4,000	4,000	4000.00
	TOTAL Environmental Studies Documents	1.00	EA		0	0	0	28,800	28,800	28800
30_23.05. HTRW Studies/Report										
	TOTAL USACE HTRW Study/Report	1.00	EA		0	0	0	819,950	819,950	819950
	TOTAL HTRW Studies/Report	1.00	EA		0	0	0	819,950	819,950	819950

30_23. Constructn Contracts(s) Documnts		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_23.06. Culturl Resource Studies Documts										
TOTAL	Site Investigation Surveys	1.00	EA		0	0	0	480,000	480,000	480000
TOTAL	National Register Eligibility	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL	No effects Determination	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL	No Adverse Effects Determination	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL	Mitigation Plan Report	1.00	EA		0	0	0	12,000	12,000	12000
TOTAL	Memorandum of Agreement	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL	One Percent Waiver	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL	Culturl Resource Studies Documts	1.00	EA		0	0	0	512,800	512,800	512800
30_23.07. Cost Estimates										
TOTAL	Contract Cost Estimates	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL	PED Cost Estimate	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL	Project Cost Estimate	1.00	EA		0	0	0	14,400	14,400	14400
TOTAL	OMRR&R Cost Estimate Updates	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL	All Other Cost Estimates	1.00	EA		0	0	0	800	800	800.00
TOTAL	Cost Estimates	1.00	EA		0	0	0	20,000	20,000	20000
TOTAL	Other Studies/Investigations	1.00	EA		0	0	0	40,000	40,000	40000
30_23.09. Contract Award Documents										
TOTAL	Contract Negotiatn/Award Documnt	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL	CBD Announcement	1.00	EA		0	0	0	3,200	3,200	3200.00
TOTAL	Advertised/RFP Contract	1.00	EA		0	0	0	3,200	3,200	3200.00
TOTAL	Davis Bacon Wage Rates	1.00	EA		0	0	0	3,200	3,200	3200.00
TOTAL	Abstract of Bids/Record of Negot	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL	Reasonable Contract Cost Estim	1.00	EA		0	0	0	9,600	9,600	9600.00
TOTAL	Awarded Contract	1.00	EA		0	0	0	8,000	8,000	8000.00

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30_23. Constructn Contracts(s) Documnts	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
TOTAL Notice to Proceed	1.00	EA		0	0	0	4,800	4,800	4800.00
TOTAL Contract Award Documents	1.00	EA		0	0	0	48,000	48,000	48000
TOTAL Eng & Design During Const Docs	1.00	EA		0	0	0	400,000	400,000	400000
30_23.14. Management Documents									
TOTAL AE Contract Documents	1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL Amendments to Plans & Specficatn	1.00	EA		0	0	0	24,000	24,000	24000
TOTAL Coordination Documents	1.00	EA		0	0	0	64,000	64,000	64000
TOTAL All Other Management Documents	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Management Documents	1.00	EA		0	0	0	100,000	100,000	100000
30_23.15. Local Sponsor Project Coordinat'n Team Participation Documents									
TOTAL Local Sponsor Project Coordinat'n	1.00	EA		0	0	0	16,000	16,000	16000
TOTAL Constructn Contracts(s) Documnts	1.00	EA		0	0	0	2,403,950	2,403,950	2403950

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30_24. Value Engineering Analysis Docmnt		QUANTITY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_24. Value Engineering Analysis Docmnt										
	TOTAL Value Engineer'n Screen'n/Studie	1.00	EA		0	0	0	40,000	40,000	40000
	TOTAL Value Engineer'n Related Redesgn	1.00	EA		0	0	0	26,000	26,000	26000
	TOTAL Value Engineering Analysis Docmnt	11.00	EA		0	0	0	68,000	68,000	6181.82



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30_25. Project or Functional Element	QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
-----									
30_25. Project or Functional Element									
Closeout and Local Sponsor									
Assumption of OMRR&R									
-----									
30_25.01. Physical Closeout Documents									
TOTAL Minutes of Final Inspection	1.00	EA		0	0	0	2,400	2,400	2400.00
TOTAL Project Dedication Ceremony	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Physical Closeout Documents	1.00	EA		0	0	0	10,400	10,400	10400
-----									
30_25.02. Project Fiscal Closeout Documnts									
TOTAL Local Sponsor Audit	1.00	EA		0	0	0	4,000	4,000	4000.00
TOTAL USACE Audit	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Final Accounting Report	1.00	EA		0	0	0	8,000	8,000	8000.00
TOTAL Project Fiscal Closeout Documnts	1.00	EA		0	0	0	20,000	20,000	20000
-----									
30_25.03. Final Project or Funct'nl Elemnt									
Closeout and Local Sponsor									
Assumption of OMRR&R									
-----									
30_25.03.01. Cash Paymt to Balnce Cost Shar'n									
Per Final Accounting									
TOTAL Cash Paymt to Balnce Cost Shar'n	1.00	EA		0	0	0	1,600	1,600	1600.00
TOTAL OMRR&R Manual	1.00	EA		0	0	0	8,000	8,000	8000.00
-----									
30_25.03.03. Written Notice of Completion and									
Local Sponsor Assumption of OMRR&R									
TOTAL Written Notice of Completion and	1.00	EA		0	0	0	2,400	2,400	2400.00
TOTAL Final Project or Funct'nl Elemnt	1.00	EA		0	0	0	12,000	12,000	12000
TOTAL Project or Functional Element	1.00	EA		0	0	0	42,400	42,400	42400
-----									

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30_26. Programs & Project Managmt Dcmnt		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT
30_26. Programs & Project Managmt Dcmnt										
	TOTAL Project Coordination Documents	1.00	EA		0	0	0	100,000	100,000	100000
	TOTAL Funds Control Documents	1.00	EA		0	0	0	36,000	36,000	36000
	TOTAL Trip Records	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL Upward Reporting Documents	1.00	EA		0	0	0	16,000	16,000	16000
	TOTAL Budgetary Documents	1.00	EA		0	0	0	28,000	28,000	28000
	TOTAL Project Authorization Documents	1.00	EA		0	0	0	8,000	8,000	8000.00
30_26.07. Annual Notification Letter to Local Sponsor for Cost Sharing Funding Requirements										
	TOTAL Annual Notification Letter to	1.00	EA		0	0	0	4,000	4,000	4000.00
	TOTAL Fact Sheets	1.00	EA		0	0	0	12,000	12,000	12000
	TOTAL Corrspndnce (Congress'nl, State)	1.00	EA		0	0	0	16,000	16,000	16000
	TOTAL Schedule and Cost Changes(SACCR)	1.00	EA		0	0	0	12,000	12,000	12000
	TOTAL Project Work Directives	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL Project Closeout Coordinatn Docs	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL Qrtrly Cost Reprts to Local Spon	1.00	EA		0	0	0	8,000	8,000	8000.00
	TOTAL GRR (FY97 & FY98)	1.00	EA		0	0	0	125,600	125,600	125600
	TOTAL Programs & Project Managmt Dcmnt	1.00	EA		0	0	0	389,600	389,600	389600
	TOTAL Planning, Engineering and Design	1.00			2000000	251,000	0	7,591,570	9,842,570	9842570

31_23. Construction Contracts		QUANTY	UOM	CREW ID	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT		
31. Construction Management												
31_23. Construction Contracts												
31_23.11. Supervision and Administration												
31_23.11.01. Prjt Office Supervn and Adminstrn												
Project Office Operations Documents												
All Other Project Office Documentation												
USR R2 <	>	PERSONNEL			4000000	95040.00	0.00	0.00	4095040.00			
			1.00	LS	4000000	95,040	0	0	4,095,040	4095040		
USR R2 <	>	OFFICE TRAILER			0.00	0.00	0.00	36560.00	36560.00			
			1.00	LS	0	0	0	36,560	36,560	36560		
USR R2 <	>	VEHICLES			0.00	0.00	0.00	100800.00	100800.00			
			1.00	LS	0	0	0	100,800	100,800	100800		
USR R2 <	>	TESTING (CONTRACTING OUT TO LABS			0.00	0.00	0.00	33600.00	33600.00			
			1.00	LS	0	0	0	33,600	33,600	33600		
31_23.11.03. District Office S&A Documents												
Technical Management S&A												
All Other District Office S&A												
USR R2 <	>				1000000	100800.00	0.00	0.00	1100800.00			
			1.00	LS	1000000	100,800	0	0	1,100,800	1100800		
TOTAL Supervision and Administration					5000000	195,840	0	170,960	5,366,800			
TOTAL Construction Contracts					5000000	195,840	0	170,960	5,366,800			
TOTAL Construction Management					1.00	EA	5000000	195,840	0	170,960	5,366,800	5366800
TOTAL DALLAS FLOODWAY EXTENSION LPP					1.00	EA	30923656	10118644	5,992,812	28165784	75,200,896	75200896