COST ESTIMATE
DETAILED PROJECT REPORT
FLOOD CONTROL CHANNEL IMPROVEMENTS
PECAN CREEK, GAINESVILLE, TX.

PROJECT COST SUMMARY

ACCOUNT	ACCOUNT	ESTIMATED COST	PERCENT CONTINGENCY	CONTINGENCY	TOTAL COST
02	RELOCATIONS	$172,930.00	25.00%	$43,230.00	$216,160.00
08	ROADS, RAILROADS & BRIDGES	$1,741,330.00	25.00%	$435,330.00	$2,176,660.00
09	CHANNEL IMPROVMENTS	$2,024,130.00	25.00%	$506,030.00	$2,530,160.00
	Demolition of Structures	$32,980.00	25.02%	$8,250.00	$41,230.00
	Environmental Mitigation	$62,100.00	25.00%	$15,525.00	$77,625.00
	TOTAL CONSTRUCTION COST	**$4,033,470.00**		**$1,008,365.00**	**$5,041,835.00**
01	LANDS AND DAMAGES	$1,507,094.00	17.44%	$262,839.00	$1,769,933.00
30	PLANNING, ENGINEERING AND DESIGN	$1,008,367.00			$1,008,367.00
31	SUPERVISION AND ADMINISTRATION	$504,184.00			$504,184.00
	TOTAL PROJECT COSTS	**$7,053,115.00**		**$1,271,204.00**	**$8,324,319.00**

Pecan Creek Gainesville, Texas
Detail Project Report and
Integreted Environmental
Assessment Recommended plan
7/26/2005

Designed By: CESWF-EC-D
Estimated By: CESWF-EC-AC J. Sear

Prepared By: D. L. Hopkins

Preparation Date: 07/26/05
Effective Date of Pricing: 07/26/05

Sales Tax: 0.00%

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1. EXISTING CONDITIONS
Pecan Creek begins in the northern portion of Cooke County and extends downstrean throught the center of the City of Gainesville and draining into the Elm Fork Trinity River. Flooding problem occure along Pecan Creek within the city limits due to capacity of the creek has been exceeded causing flooding on the overbanks. The channel was lined with rip lining between Main Street and Bradway Street. Downstream of Garnett Street the channel improvements the channel cannot contain the 100 year flood flows. The reminder of the creek through the city is a natural lined channel.

2. DESCRIPTION OF STRUCTURES
The channel improvements shall consist of grass line cross section with 1 Vertical on 3 Horizontal side slopes and a channel bottom with of 30 feet. Rock rip rap shall be placed at the upstream end of the project as a transition between existing condidtions and the improved channel.

3. DESIGN DATA CRITERIA AND ASSUMPTIONS
The recommended plan for the Pecan Creek channel improvement project consists of 1.34 miles of grass lined trapezoidal channel with a 30-foot bottom width and 1 vertical on 3 horizontal side slopes. The channel improvements begin 200 feet upstream of Moss Street at Station 10+00 and ends 1060 feet upstream of Belcher Street at Station 88+59. New bridges will be required at five street crossings (Main, Broadway, California,Scott, and Becher Streets). The channel is aligned in such a manner as to minimize the effect on residential and commerical property, environmental damage, and utility relocations. A minimum amount (725CY) of compacted fill from the channel excavation shall be utilized to shape the channel in certain areas with the natural meanders to remain open in order to carry low flows and preserve the environmental quality within the creek banks. The surface drainage shall be overbank to collect runoff and discharge flows at natural low lying areas along the creek banks. The recommended plan calls for the clearing of approximately 18 acres. For detailed layout design of plan and profile, see plates C101 to C106.

RELOCATIONS
The channel improvements will require the construction of five new bridges. See Appendix C.4 Structural Engineering for description bridge details.

UTILITIES
Approximately 720 feet of water lines, 1490 feet of sewer lines, 900 feet od gas lines, telephone lines, and electric line will be affected by the channel improvementd.

WASTE DISPOSAL SITES
The city of Gainesville has tentatively identified two disposal sites in the vicinity of the Pecan Creek channel improvement project. Approximately 725 cubic yards of overburden channel excavation will be used for compacted fill. Allother excavation, including stripping, will be wasted. Anticipated disposal volume is 118,030 cubic yards of overburden material and 6250 cubic yards of rock material. No problem is anticipated in acquiring disposal areas.

OPERATION AND MAINTENANCE

The major items of operation and maintenance of the completed project include the periodic clean out of the channel and repair of damage to the side slopes and bottom of the channel.

01:23. Constructn Contract(s) Documnts	QUANTY UOM CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
01. Lands and Damages								
01:23. Constructn Contract(s) Documnts								
01:23.03. Real Estate Analysis Documents								
TOTAL Real Estate Planning Documents		0	10,000	0	0	0	10,000	
01:23.03.02. Real Estate Acquisition Documnts								
TOTAL Acquisition by Local Sponsor		0	424,000	0	0	0	424,000	
TOTAL Review of Local Sponsor		0	26,500	0	0	0	26,500	
01:23.03.03. Real Estate Condemnatn Documnts								
TOTAL Condemnations by Local Sponsor		0	36,000	0	0	0	36,000	
TOTAL Review of Local Sponsor		0	1,500	0	0	0	1,500	
01:23.03.05. Real Estate Appraisal Documents								
TOTAL Appraisals by Local sponsor		0	95,400	0	0	0	95,400	
TOTAL Review by Local sponsor		0	26,500	0	0	0	26,500	
01:23.03.06. Real Estate PL 91-646 Asst. Docs								
TOTAL PL91-646 Asst. by Local Admin		0	9,000	0	0	0	9,000	
TOTAL Review by Local Sponsor		0	1,000	0	0	0	1,000	
01:23.03.15. Real Estate Payment Documents								
Land Payments								
PL 91-646 Payments								
Damage Payments								
Other Payments								
TOTAL Payment by Local Sponsor(Land)		0	769,694	0	0	0	769,694	
TOTAL Pymnt by Local Sponsor(PL91-646)		0	87,500	0	0	0	87,500	
TOTAL Review by Local Sponsor		0	10,000	0	0	0	10,000	
TOTAL RealEstate LERRD Crediting Docs		0	10,000	0	0	0	10,000	
TOTAL Real Estate Analysis Documents		0	1507094	0	0	0	1,507,094	
TOTAL Constructn Contract(s) Documnts	1.00 EA	0	1507094	0	0	0	1,507,094	1507094
TOTAL Lands and Damages		0	1507094	0	0	0	1,507,094	

02:03. Cemetery, Utilities, & Structure		QUANTY	UOM	CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
02. Relocations											
02:03. Cemetery, Utilities, & Structure											
02:03.18. Utilities (Incl Labor &Material)											
02:03.18.01. WATER											
	TOTAL Rem Old install New 6' Waterline	360.00	LF		0	0	0	7,992	0	7,992	22.20
	TOTAL 8' Waterline	200.00	LF		0	0	0	6,940	0	6,940	34.70
	TOTAL 12' Waterline	160.00	LF		0	0	0	10,560	0	10,560	66.00
02:03.18.03. GAS											
	TOTAL 2" Gasline	300.00	LF		0	0	0	1,560	0	1,560	5.20
	TOTAL 3" Gasline	380.00	LF		0	0	0	4,028	0	4,028	10.60
	TOTAL 4" Gasline	150.00	LF		0	0	0	2,325	0	2,325	15.50
	TOTAL 6" Gasline	70.00	LF		0	0	0	2,072	0	2,072	29.60
02:03.18.04. SEWER											
	TOTAL 6" Sanitary Sewer	200.00	LF		0	0	0	1,480	0	1,480	7.40
	TOTAL 8" Sanitary Sewer	200.00	LF		0	0	0	4,310	0	4,310	21.55
	TOTAL 15" Sanitary Sewer	1090.00	LF		0	0	0	52,157	0	52,157	47.85
02:03.18.16. Electrical											
	TOTAL Telephone	1000.00	LF		0	0	0	8,200	0	8,200	8.20
	TOTAL Electrical	1000.00	LF		0	0	0	60,000	0	60,000	60.00
	TOTAL Utilities (Incl Labor &Material)				0	0	0	161,624	0	161,624	
	TOTAL Cemetery, Utilities, & Structure				0	0	0	161,624	0	161,624	
	TOTAL Relocations				0	0	0	161,624	0	161,624	

08:01. Roads	QUANTY	UOM	CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
08. Roads, Railroads, and Bridges										
08:01. Roads										
08:01.06. Bridges, Abutments and Piers										
08:01.06.07. Belcher Street Bridge										
TOTAL Remove Old Struct. Labor &Equip.	272.00	CY		0	0	0	36,024	0	36,024	132.44
08:01.06.07.02. New Struct. Labor,Matl.& Equip.										
TOTAL P'st Beam Type C	575.00	CY		0	0	0	39,020	0	39,020	67.86
TOTAL Conc. Slab	100.00	CY		0	0	0	40,606	0	40,606	406.06
TOTAL End DIAF	7.00	CY		0	0	0	2,842	0	2,842	406.06
TOTAL Int DIAF	4.00	CY		0	0	0	1,624	0	1,624	406.06
TOTAL Abut Conc.	49.00	CY		0	0	0	27,595	0	27,595	563.16
TOTAL Bent Conc.	39.40	CY		0	0	0	19,969	0	19,969	506.84
TOTAL Stl. Rail	230.00	LF		0	0	0	15,493	0	15,493	67.36
TOTAL 2'-6" Drilled Shaft	260.00	LF		0	0	0	33,574	0	33,574	129.13
08:01.06.08. Scott Street Bridge										
TOTAL Remove Old Struct. Labor &Equip.	282.00	CY		0	0	0	25,140	0	25,140	89.15
08:01.06.08.02. New Struct. Labor,Matl.& Equip.										
TOTAL P' st. Beam Type C	575.00	CY		0	0	0	39,020	0	39,020	67.86
TOTAL Conc. Slab	108.00	CY		0	0	0	43,854	0	43,854	406.06
TOTAL End DIAF	7.20	CY		0	0	0	2,924	0	2,924	406.06
TOTAL Int DIAF	4.20	CY		0	0	0	1,705	0	1,705	406.06
TOTAL Abut Conc.	49.00	CY		0	0	0	27,595	0	27,595	563.16
TOTAL Bent Conc.	40.60	CY		0	0	0	20,577	0	20,577	506.83
TOTAL Stl. Rail	230.00	LF		0	0	0	15,493	0	15,493	67.36
TOTAL 2'-6" Drilled Shaft	268.00	LF		0	0	0	34,607	0	34,607	129.13

08:01. Roads	QUANTY	UOM	CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
08:01.06.09. Broadway Street Bridge										
TOTAL Remove Old Struct. Labor &Equip.	339.00	CY		0	0	0	0	44,399	44,399	130.97
08:01.06.09.02. New Struct. Labor,Matl.& Equip.										
TOTAL P'st Beam Type C	720.00	CY		0	0	0	48,859	0	48,859	67.86
TOTAL Conc. Slab	131.00	CY		0	0	0	53,194	0	53,194	406.06
TOTAL End DIAF	8.40	CY		0	0	0	3,411	0	3,411	406.06
TOTAL Int DIAF	5.00	CY		0	0	0	2,030	0	2,030	406.06
TOTAL Abut Conc.	53.40	CY		0	0	0	30,073	0	30,073	563.16
TOTAL Bent Conc.	50.00	CY		0	0	0	25,342	0	25,342	506.84
TOTAL Stl. Rail	240.00	LF		0	0	0	16,166	0	16,166	67.36
TOTAL 2'-6" Drilled Shaft	289.00	LF		0	0	0	37,319	0	37,319	129.13
08:01.06.10. California Street Bridge										
TOTAL Remove Old Struct. Labor &Equip.	382.00	CY		0	0	0	0	47,146	47,146	123.42
08:01.06.10.02. New Struct. Labor,Matl.& Equip.										
TOTAL P'st Beam Type C	780.00	CY		0	0	0	52,931	0	52,931	67.86
TOTAL Conc. Slab	145.00	CY		0	0	0	58,879	0	58,879	406.06
TOTAL End DIAF	8.50	CY		0	0	0	3,452	0	3,452	406.06
TOTAL Int DIAF	5.00	CY		0	0	0	2,030	0	2,030	406.06
TOTAL Abut Conc.	53.40	CY		0	0	0	30,073	0	30,073	563.16
TOTAL Bent Conc.	53.00	CY		0	0	0	26,863	0	26,863	506.84
TOTAL Conc. Rail	18.00	CY		0	0	0	10,964	0	10,964	609.10
TOTAL 2'-6" Drilled Shaft	304.00	LF		0	0	0	39,256	0	39,256	129.13
08:01.06.11. Main Street Bridge										
TOTAL Remove Old Struct. Labor &Equip.	302.00	CY		0	0	0	0	39,940	39,940	132.25

08:01. Roads	QUANTY	UOM	CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
08:01.06.11.02. New Struct. Labor,Matl.& Equip.										
TOTAL P'st Beam Type C	625.00	CY		0	0	0	42,413	0	42,413	67.86
TOTAL Conc. Slab	121.00	CY		0	0	0	49,133	0	49,133	406.06
TOTAL End DIAF	7.50	CY		0	0	0	3,045	0	3,045	406.06
TOTAL Int DIAF	4.20	CY		0	0	0	1,705	0	1,705	406.06
TOTAL Abut Conc.	49.00	CY		0	0	0	27,595	0	27,595	563.16
TOTAL Bent Conc.	41.60	CY		0	0	0	21,085	0	21,085	506.84
TOTAL Stl. Rail	250.00	LF		0	0	0	16,840	0	16,840	67.36
TOTAL 2'-6" Drilled Shaft	277.00	LF		0	0	0	35,769	0	35,769	129.13
08:01.06.12. Garnett Street Bridge										
TOTAL Remove Old Struct. Labor &Equip.	351.00	CY		0	0	0	0	46,630	46,630	132.85
08:01.06.12.02. New Struct. Labor,Matl.& Equip.										
TOTAL P'st Beam Type C	775.00	CY		0	0	0	52,592	0	52,592	67.86
TOTAL Conc. Slab	146.00	CY		0	0	0	59,285	0	59,285	406.06
TOTAL End DIAF	7.50	CY		0	0	0	3,045	0	3,045	406.06
TOTAL Int DIAF	4.20	CY		0	0	0	1,705	0	1,705	406.06
TOTAL Abut Conc.	49.00	CY		0	0	0	27,595	0	27,595	563.16
TOTAL Bent Conc.	46.00	CY		0	0	0	23,315	0	23,315	506.84
TOTAL Stl. Rail	310.00	LF		0	0	0	20,882	0	20,882	67.36
TOTAL 2'-6" Drilled Shaft	309.00	LF		0	0	0	39,901	0	39,901	129.13
TOTAL Care of Water				0	0	0	157,247	0	157,247	
TOTAL Bridges, Abutments and Piers				0	0	0	1451653	178,115	1,629,768	
TOTAL Roads				0	0	0	1451653	178,115	1,629,768	
TOTAL Roads, Railroads, and Bridges				0	0	0	1451653	178,115	1,629,768	

09:01. Channels		QUANTY	UOM	CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
09. Channels and Canals											
09:01. Channels											
09:01.02. Channel Improvments											
09:01.02.02. Site Work											
	TOTAL Unclassified Excavation	118030	CY		0	0	0	1336100	0	1,336,100	11.32
	TOTAL Rock Excavation	6250.00	CY		0	0	0	86,563	0	86,563	13.85
	TOTAL 24" Rock Rip Rap	645.00	CY		0	0	0	58,050	0	58,050	90.00
	TOTAL 6" Bedding Material	165.00	CY		0	0	0	13,200	0	13,200	80.00
	TOTAL Backfill on Side Slopes	725.00	CY		0	0	0	3,661	0	3,661	5.05
	TOTAL Clearing and Grubbing	27.26	AC		0	0	0	126,486	0	126,486	4640.00
	TOTAL Care of Water	7060.00	LF		0	0	0	106,606	0	106,606	15.10
	TOTAL Remove Concrete Pilot Channel	1425.00	CY		0	0	0	43,463	0	43,463	30.50
	TOTAL Topsoil on Side Slopes	6730.00	CY		0	0	0	35,804	0	35,804	5.32
	TOTAL Turfing	27.26	AC		0	0	0	81,780	0	81,780	3000.00
	TOTAL Channel Improvments				0	0	0	1891712	0	1,891,712	
09:01.03. Demolition of Strucrures											
	TOTAL House(733 Gassett)	1050.00	SF		0	5,061	0	0	0	5,061	4.82
	TOTAL House(718 Main)	2460.00	SF		0	11,857	0	0	0	11,857	4.82
	TOTAL House(700 Pecan)	1350.00	SF		0	6,507	0	0	0	6,507	4.82
	TOTAL Shed (on Schopmeyer)	595.00	SF		0	2,868	0	0	0	2,868	4.82
	TOTAL Shed (on Schopmeyer)	940.00	SF		0	4,531	0	0	0	4,531	4.82
	TOTAL Demolition of Strucrures				0	30,824	0	0	0	30,824	
	TOTAL Channels				0	30,824	0	1891712	0	1,922,536	

09:07. Environmental Mitigation	QUANTY UOM CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
09:07. Environmental Mitigation								
USR AB < > Env. Mitigation Cost		0.00	0.00	0.00	3750.00	0.00	3750.00	
	20.70 AC	0	0	0	77,625	0	77,625	3750.00
TOTAL Environmental Mitigation		0	0	0	77,625	0	77,625	
TOTAL Channels and Canals		0	30,824	0	1969337	0	2,000,161	

	QUANTY	UOM	CREW ID	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
TOTAL Planning, Engineering and Design	1.00	EA		0	0	0	0	1008370	1,008,370	1008370
TOTAL Construction Management	1.00	EA		0	0	0	0	504,185	504,185	504185.00
TOTAL Pecan Creek Gainesville, Texas	1.00	EA		0	1537918	0	3582614	1690670	6,811,202	6811202

	QUANTITY	UOM	CONTRACT	ESCALATN	CONTINGN	SIOH	TOTAL COST	UNIT COST
01 Lands and Damages			1,507,090	0	262,840	0	1,769,930	
02 Relocations			161,620	11,310	43,230	0	216,170	
08 Roads, Railroads, and Bridges			1,629,770	111,560	435,330	0	2,176,660	
09 Channels and Canals			2,000,160	134,580	514,280	0	2,649,020	
30 Planning, Engineering and Design	1.00	EA	1,008,370	0	0	0	1,008,370	1008370
31 Construction Management	1.00	EA	504,190	0	0	0	504,190	504185.00
TOTAL Pecan Creek Gainesville, Texas	1.00	EA	6,811,200	257,450	1,255,680	0	8,324,340	8324339

	QUANTITY UOM	CONTRACT	ESCALATN	CONTINGN	SIOH	TOTAL COST	UNIT COST
01 Lands and Damages							
01:23 Constructn Contract(s) Documnts	1.00 EA	1,507,090	0	262,840	0	1,769,930	1769933
TOTAL Lands and Damages		1,507,090	0	262,840	0	1,769,930	
02 Relocations							
02:03 Cemetery, Utilities, & Structure		161,620	11,310	43,230	0	216,170	
TOTAL Relocations		161,620	11,310	43,230	0	216,170	
08 Roads, Railroads, and Bridges							
08:01 Roads		1,629,770	111,560	435,330	0	2,176,660	
TOTAL Roads, Railroads, and Bridges		1,629,770	111,560	435,330	0	2,176,660	
09 Channels and Canals							
09:01 Channels		1,922,540	134,580	514,280	0	2,571,390	
09:07 Environmental Mitigation		77,630	0	0	0	77,630	
TOTAL Channels and Canals		2,000,160	134,580	514,280	0	2,649,020	
30 Planning, Engineering and Design	1.00 EA	1,008,370	0	0	0	1,008,370	1008370
31 Construction Management	1.00 EA	504,190	0	0	0	504,190	504185.00
TOTAL Pecan Creek Gainesville, Texas	1.00 EA	6,811,200	257,450	1,255,680	0	8,324,340	8324339

	QUANTITY UOM	CONTRACT	ESCALATN	CONTINGN	SIOH	TOTAL COST	UNIT COST
01 Lands and Damages							
01:23 Constructn Contract(s) Documnts							
01:23.03 Real Estate Analysis Documents		1,507,090	0	262,840	0	1,769,930	
TOTAL Constructn Contract(s) Documnts	1.00 EA	1,507,090	0	262,840	0	1,769,930	1769933
TOTAL Lands and Damages		1,507,090	0	262,840	0	1,769,930	
02 Relocations							
02:03 Cemetery, Utilities, & Structure							
02:03.18 Utilities (Incl Labor &Material)		161,620	11,310	43,230	0	216,170	
TOTAL Cemetery, Utilities, & Structure		161,620	11,310	43,230	0	216,170	
TOTAL Relocations		161,620	11,310	43,230	0	216,170	
08 Roads, Railroads, and Bridges							
08:01 Roads							
08:01.06 Bridges, Abutments and Piers		1,629,770	111,560	435,330	0	2,176,660	
TOTAL Roads		1,629,770	111,560	435,330	0	2,176,660	
TOTAL Roads, Railroads, and Bridges		1,629,770	111,560	435,330	0	2,176,660	
09 Channels and Canals							
09:01 Channels							
09:01.02 Channel Improvments		1,891,710	132,420	506,030	0	2,530,160	
09:01.03 Demolition of Strucrures		30,820	2,160	8,250	0	41,230	
TOTAL Channels		1,922,540	134,580	514,280	0	2,571,390	
09:07 Environmental Mitigation		77,630	0	0	0	77,630	
TOTAL Channels and Canals		2,000,160	134,580	514,280	0	2,649,020	
30 Planning, Engineering and Design	1.00 EA	1,008,370	0	0	0	1,008,370	1008370
31 Construction Management	1.00 EA	504,190	0	0	0	504,190	504185.00
TOTAL Pecan Creek Gainesville, Texas	1.00 EA	6,811,200	257,450	1,255,680	0	8,324,340	8324339

No errors detected...

* * * END OF ERROR REPORT * * *

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