Project:	Sanitary S	DIMOT :	and Water line		*
Date:	1/13/2005		and water line		
Prep. by		 			
		Wor or	d water service to west of river, sou	th of Main Ctrool	<u> </u>
CUSIS IU	provide se	werar	d water service to west or river, sou	III OI Walli Street	
Canitan	Causen I :6	4 64-4	and the same and the same		
Samitary		Stati	on/Force Main to the Site		
140-00 810-	Approx.	11-4	llo	12-2 0-2	T-1-1 04
Item No.	Quantity	Unit		Unit Cost	Total Cost
1	1650		4" Force Main	\$14.00	\$23,100.00
2	1	LS	River Crossing	\$15,000.00	\$15,000.00
3	3	Ea.	Air Release Assemblies	\$4,500.00	\$13,500.00
4	1	LS	Lift Station/Generator	\$120,000.00	\$120,000.00
5	1	L.S.	Site Clearing & Restoration	\$15,000.00	\$15,000.00
					· · · · · · · · · · · · · · · · · · ·
			Construction Estimate		\$186,600.00
		1	25% Project Costs		\$46,650.00
		 	15% Contingencies		\$27,990.00
		 	TO A CONTAINED TO TO		Ψ21,000.00
		ļ	Estimates	Drainat Tatalı	£264 240 00
		 -	Estillated	Project Total:	\$261,240.00
	- · · · · · · · · · · · · · · · · · · ·	 			
0"	O	<u> </u>			
Sanitary		prove	ments (internal laterals)	!	
	Approx.	<u> </u>			
Item No.	Quantity	Unit		Unit Cost	Total Cost
1	3800	LF	12" Sanitary Sewer	\$45.00	\$171,000.00
2	9800	L.F.	8" Sanitary Sewer	\$24.00	\$235,200.00
3	46	Ea.	Manholes	\$2,400.00	\$110,400.00
4	57	Ea.	Service Connections	\$500.00	\$28,500.00
5	400	LF	Road Crossings	\$30.00	\$12,000.00
6	450	LF	Drive Crossings	\$25.00	\$11,250.00
7	1	L.S.	Site Clearing & Restoration	\$25,000.00	\$25,000.00
'		L.O.	Oite Oleaning & Nestoration	Ψ23,000.00	φ23,000.00
		ļ	0		AE00 050 00
		1	Construction Estimate		\$593,350.00
. —			0.507 5		
			25% Project Costs		\$148,337.50
			25% Project Costs 15% Contingencies		
			15% Contingencies		\$148,337.50 \$89,002.50
			15% Contingencies	Project Total:	\$148,337.50
			15% Contingencies	Project Total:	\$148,337.50 \$89,002.50
			15% Contingencies Estimated	Project Total:	\$148,337.50 \$89,002.50 \$830,690.00
			15% Contingencies	Project Total:	\$148,337.50 \$89,002.50
Water Li	ne Improv	ement	15% Contingencies Estimated TOTAL SEWER ESTIMATE	Project Total:	\$148,337.50 \$89,002.50 \$830,690.00
Water Li	ne Improv	ement	15% Contingencies Estimated TOTAL SEWER ESTIMATE	Project Total:	\$148,337.50 \$89,002.50 \$830,690.00
	Approx.		15% Contingencies Estimated TOTAL SEWER ESTIMATE ES		\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00
Item No.	Approx. Quantity	Unit	15% Contingencies Estimated TOTAL SEWER ESTIMATE s Item	Unit Cost	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost
Item No.	Approx. Quantity 5600	Unit	15% Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line	Unit Cost \$26.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00
Item No.	Approx. Quantity 5600	Unit L.F. LS	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing	Unit Cost \$26.00 \$20,000.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00
Item No. 1 2 3	Approx. Quantity 5600 1 8100	Unit L.F. LS L.F.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line	Unit Cost \$26.00 \$20,000.00 \$18.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00
Item No. 1 2 3 4	Approx. Quantity 5600 1 8100 3200	Unit L.F. LS L.F. L.F.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$44,800.00
Item No. 1 2 3 4 5	Approx. Quantity 5600 1 8100 3200 9	Unit L.F. LS L.F. L.F. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$44,800.00 \$10,800.00
Item No. 1 2 3 4 5 6	Approx. Quantity 5600 1 8100 3200 9 14	Unit L.F. LS L.F. L.F. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$10,800.00 \$12,600.00
Item No. 1 2 3 4 5 6 7	Approx. Quantity 5600 1 8100 3200 9 14 2	Unit L.F. LS L.F. L.F. Ea. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 4" Valves 4" Valves	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$10,800.00 \$12,600.00 \$1,500.00
Item No. 1 2 3 4 5 6 7 8	Approx. Quantity 5600 1 8100 3200 9 14 2 4	Unit L.F. LS L.F. Ea. Ea. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$10,800.00 \$12,600.00 \$1,500.00 \$5,600.00
Item No. 1 2 3 4 5 6 7 8 9	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22	Unit L.F. LS L.F. Ea. Ea. Ea. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 4" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$10,800.00 \$12,600.00 \$1,500.00
Item No. 1 2 3 4 5 6 7 8 9 10	Approx. Quantity 5600 1 8100 3200 9 14 2 4	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 Total Cost \$145,600.00 \$20,000.00 \$145,800.00 \$10,800.00 \$12,600.00 \$1,500.00 \$5,600.00
Item No. 1 2 3 4 5 6 7 8 9	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22	Unit L.F. LS L.F. Ea. Ea. Ea. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 4" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$5,600.00 \$44,000.00 \$34,200.00
Item No. 1 2 3 4 5 6 7 8 9 10	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea.	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$5,600.00 \$44,000.00 \$34,200.00 \$11,550.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea.	Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$15,600.00 \$44,000.00 \$34,200.00 \$11,550.00 \$9,900.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	15% Contingencies Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$5,600.00 \$44,000.00 \$34,200.00 \$11,550.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$1,500.00 \$5,600.00 \$44,000.00 \$34,200.00 \$11,550.00 \$9,900.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Isw Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$1,500.00 \$44,000.00 \$34,200.00 \$11,550.00 \$9,900.00 \$30,000.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Isw Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate 25% Project Costs	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$12,600.00 \$12,600.00 \$11,550.00 \$34,200.00 \$11,550.00 \$34,200.00 \$34,200.00 \$11,550.00 \$30,000.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Isw Contingencies Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves 4" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$1,500.00 \$44,000.00 \$34,200.00 \$11,550.00 \$9,900.00 \$30,000.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate 25% Project Costs 15% Contingencies	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00 \$30,000.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$12,600.00 \$12,600.00 \$1,500.00 \$44,000.00 \$34,200.00 \$11,550.00 \$34,200.00 \$11,550.00 \$34,200.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00 \$11,550.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate 25% Project Costs 15% Contingencies	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$12,600.00 \$12,600.00 \$11,550.00 \$34,200.00 \$11,550.00 \$34,200.00 \$34,200.00 \$11,550.00 \$30,000.00
Item No. 1 2 3 4 5 6 7 8 9 10 11	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Estimated TOTAL SEWER ESTIMATE Item 12" Water line 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate 25% Project Costs 15% Contingencies Estimated	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00 \$30,000.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$10,800.00 \$12,600.00 \$12,600.00 \$15,600.00 \$44,000.00 \$34,200.00 \$11,550.00 \$9,900.00 \$516,350.00 \$129,087.50 \$77,452.50
Item No. 1 2 3 4 5 6 7 8 9 10 11 12	Approx. Quantity 5600 1 8100 3200 9 14 2 4 22 57 385 450	Unit L.F. LS L.F. Ea. Ea. Ea. Ea. Ea. Ea. LF	Estimated TOTAL SEWER ESTIMATE Is Item 12" Water line 12" River Crossing 8" Water line 4" Water line 12" Valves 8" Valves 8" Valves Flushing Hydrant Assemblies Fire Hydrant Assembly Services Road Crossings Drive Crossings Site Clearing & Restoration Construction Estimate 25% Project Costs 15% Contingencies	Unit Cost \$26.00 \$20,000.00 \$18.00 \$14.00 \$1,200.00 \$900.00 \$750.00 \$1,400.00 \$2,000.00 \$30.00 \$22.00 \$30,000.00	\$148,337.50 \$89,002.50 \$830,690.00 \$1,091,930.00 \$1,091,930.00 \$145,600.00 \$145,800.00 \$145,800.00 \$10,800.00 \$12,600.00 \$1,500.00 \$44,000.00 \$34,200.00 \$11,550.00 \$9,900.00 \$30,000.00

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Sheet2

Costs				
Lift Station/Force Mai	n	\$261,240.00		
Sanitary Sewer		\$830,690.00	·	
Water Line		\$722,890.00		
Total All Improvements		\$1,814,820.00	}	
#lots	57	<u> </u>		
5% int over 15 yrs	0.0963			
Approximate cost/lot	\$31,838.95			
Total Cost/lot/year	\$3,066.09			
Total Cost/lot/month	\$255.51			
Assume 57 lots pays				rs remainder.
Assume City pays for	oversizing of \		s from 8" to 12"	
		57 lots	City	
Lift Station/Force Mai	n	\$87,080.00	\$174,160.00	_
Sanitary Sewer		\$830,690.00	\$0.00	
Water line		\$656,390.00	\$66,500.00	
Total All Improvements		\$1,574,160.00	\$240,660.00	
#lots	57			
5% int over 15 yrs 0.0963			·	
Approximate cost/lot	\$27,616.84			
Total Cost/lot/year	\$2,659.50			
Total Cost/lot/month	\$221.63			