

ROSS VALLEY SANITARY DISTRICT
FY20/21 Gravity Sewer Rehabilitation Project
Bid Tabulation
June 3rd, 2021

Item No.	Item Description	Unit	Estimated Quantity	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost
						Bay Pacific		Glosage		KJ Woods		Cratus Inc.		EPS inc		Team Ghilotti Inc.		Ranger Pipelines	
1	Mobilization and Demobilization	LS	1	\$213,000	\$213,000	\$100,000	\$100,000	\$190,000	\$190,000	\$150,000	\$150,000	\$150,000	\$150,000	\$250,000	\$250,000	\$225,000	\$225,000	\$200,000	\$200,000
2	Traffic Control	LS	1	\$128,000	\$128,000	\$100,000	\$100,000	\$49,000	\$49,000	\$76,960	\$76,960	\$100,000	\$100,000	\$75,000	\$75,000	\$435,270	\$435,270	\$200,000	\$200,000
3	Overexcavation and Special Pipe Foundation (Revocable if not used)	CY	10	\$620	\$6,200	\$100	\$1,000	\$500	\$5,000	\$100	\$1,000	\$100	\$1,000	\$10,000	\$10,000	\$277	\$2,770	\$25	\$250
4	Rock Excavation (Revocable if not used)	CY	15	\$1,100	\$16,500	\$100	\$1,500	\$100	\$1,500	\$800	\$12,000	\$300	\$4,500	\$1,500	\$22,500	\$444	\$6,660	\$50	\$750
5	Trench Sheeting, Shoring and Bracing	LS	1	\$111,000	\$111,000	\$100,000	\$100,000	\$48,000	\$48,000	\$150,000	\$150,000	\$110,000	\$110,000	\$80,000	\$80,000	\$112,000	\$112,000	\$200,000	\$200,000
6	AC Surface Upheaval Repair (Revocable if not used)	SF	2,000	\$15	\$30,000	\$15	\$30,000	\$5	\$10,000	\$8	\$16,000	\$7	\$14,000	\$20	\$40,000	\$18	\$36,000	\$1	\$2,000
7	PCC Pavement/Slab Excavation (Revocable if not used)	CY	100	\$310	\$31,000	\$20	\$2,000	\$120	\$12,000	\$100	\$10,000	\$50	\$5,000	\$250	\$25,000	\$877	\$87,700	\$200	\$20,000
8	Sag Repair for HDPE SS	LF	200	\$230	\$46,000	\$250	\$50,000	\$250	\$50,000	\$200	\$40,000	\$250	\$50,000	\$340	\$68,000	\$327	\$65,400	\$50	\$10,000
9	HMA Surface Restoration Including 2" Mill per Detail 2/D-02	TON	370	\$235	\$86,950	\$150	\$55,500	\$250	\$92,500	\$250	\$92,500	\$300	\$111,000	\$326	\$120,620	\$255	\$94,350	\$250	\$92,500
10	Bid Allowance for Districts Use	LS	1	\$200,000	\$200,000	\$400,000	\$400,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Subtotal: Misc					\$868,650		\$840,000	\$658,000	\$658,000	\$748,460	\$745,500	\$891,120	\$1,265,150	\$925,500					
11. Sanitary Sewer Improvements: PP-01. Madera Ave																			
11a	Abandon Existing 6" SS by Filling Pipe	LF	90	\$18	\$1,620	\$6	\$540	\$10	\$882	\$10	\$900	\$20	\$1,800	\$15	\$1,350	\$30	\$2,718	\$3	\$270
11b	Construct 8" SS by Open Trench	LF	90	\$470	\$42,300	\$250	\$22,500	\$310	\$27,900	\$350	\$31,500	\$20	\$1,800	\$310	\$27,900	\$282	\$25,335	\$350	\$31,500
11c	Remove and Replace or Construct New Property Line SSCO	EA	5	\$1,000	\$5,000	\$1,000	\$5,000	\$1,500	\$7,500	\$800	\$4,000	\$750	\$3,750	\$800	\$4,000	\$1,130	\$5,650	\$1,000	\$5,000
11d	Construct New SSMH	EA	1	\$8,100	\$8,100	\$4,500	\$4,500	\$9,000	\$9,000	\$6,000	\$6,000	\$11,000	\$11,000	\$18,000	\$18,000	\$5,200	\$5,200	\$6,000	\$6,000
11e	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 10'-15')	EA	4	\$3,000	\$12,000	\$2,000	\$8,000	\$2,000	\$8,000	\$1,000	\$4,000	\$2,500	\$10,000	\$4,900	\$19,600	\$3,827	\$15,308	\$2,500	\$10,000
11f	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	1	\$3,100	\$3,100	\$2,500	\$2,500	\$2,000	\$2,000	\$1,500	\$1,500	\$3,000	\$3,000	\$5,000	\$5,000	\$3,875	\$3,875	\$3,200	\$3,200
11g	Rehabilitate Existing SSMH	EA	1	\$2,800	\$2,800	\$3,500	\$3,500	\$2,800	\$2,800	\$2,500	\$2,500	\$4,500	\$4,500	\$5,800	\$5,800	\$2,700	\$2,700	\$2,500	\$2,500
11h	Remove and Replace Existing 6" SS with 8" SS by Open Trench	LF	140	\$465	\$65,100	\$280	\$39,200	\$310	\$43,400	\$350	\$49,000	\$300	\$42,000	\$315	\$44,100	\$266	\$37,240	\$350	\$49,000
11i	Remove and Replace Existing SSCO/SSLH with New SSMH	EA	1	\$9,300	\$9,300	\$4,500	\$4,500	\$9,000	\$9,000	\$6,500	\$6,500	\$11,500	\$11,500	\$18,500	\$18,500	\$7,111	\$7,111	\$6,500	\$6,500
11j	Remove Ex Mini-SSMH	EA	1	\$1,700	\$1,700	\$500	\$500	\$900	\$900	\$500	\$500	\$2,000	\$2,000	\$3,800	\$3,800	\$3,277	\$3,277	\$500	\$500
Subtotal: Madera Ave					\$151,020		\$90,740	\$111,382	\$106,400	\$91,350	\$148,050	\$108,414	\$114,470						
12. Sanitary Sewer Improvements: PP-02. S Grove Hill Ave Easement																			
12a	Abandon Existing 5" SS by Filling Pipe	LF	60	\$17	\$1,020	\$5	\$300	\$10	\$588	\$9	\$540	\$20	\$1,200	\$15	\$900	\$40	\$2,400	\$3	\$180
12b	Construct 8" SS by Open Trench	LF	70	\$470	\$32,900	\$250	\$17,500	\$315	\$22,050	\$350	\$24,500	\$350	\$24,500	\$310	\$21,700	\$267	\$18,690	\$350	\$24,500
12c	Remove and Replace or Construct New Property Line SSCO	EA	4	\$1,000	\$4,000	\$1,000	\$4,000	\$1,500	\$6,000	\$800	\$3,200	\$750	\$3,000	\$800	\$3,200	\$1,336	\$5,344	\$1,000	\$4,000
12d	Construct New SSMH	EA	1	\$8,100	\$8,100	\$4,500	\$4,500	\$8,000	\$8,000	\$7,000	\$7,000	\$11,000	\$11,000	\$18,000	\$18,000	\$6,900	\$6,900	\$6,000	\$6,000
12e	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	2	\$630	\$1,260	\$100	\$200	\$1,800	\$3,600	\$500	\$1,000	\$2,500	\$5,000	\$800	\$1,600	\$1,435	\$2,870	\$1,000	\$2,000
12f	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 5'-10')	EA	2	\$2,900	\$5,800	\$1,500	\$3,000	\$1,000	\$2,000	\$1,000	\$2,000	\$2,500	\$5,000	\$4,800	\$9,600	\$4,670	\$9,340	\$2,500	\$5,000
12g	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 10'-15')	EA	1	\$3,000	\$3,000	\$2,000	\$2,000	\$1,500	\$1,500	\$2,000	\$2,000	\$3,000	\$3,000	\$4,900	\$4,900	\$5,000	\$5,000	\$3,200	\$3,200
12h	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	1	\$3,100	\$3,100	\$2,500	\$2,500	\$2,000	\$2,000	\$2,500	\$2,500	\$3,500	\$3,500	\$5,000	\$5,000	\$5,100	\$5,100	\$4,200	\$4,200
12i	Pipe Burst Existing 6" with 8" SS	LF	105	\$210	\$22,050	\$225	\$23,625	\$235	\$24,675	\$190	\$19,950	\$225	\$23,625	\$240	\$25,200	\$188	\$19,740	\$300	\$31,500
12j	Rehabilitate Existing SSMH	EA	1	\$2,800	\$2,800	\$3,500	\$3,500	\$2,800	\$2,800	\$2,500	\$2,500	\$4,500	\$4,500	\$5,800	\$5,800	\$3,740	\$3,740	\$2,500	\$2,500
12k	Remove and Replace Existing Mini-SSMH with New SSMH	EA	1	\$7,300	\$7,300	\$4,500	\$4,500	\$5,500	\$5,500	\$3,000	\$3,000	\$11,500	\$11,500	\$18,250	\$18,250	\$10,177	\$10,177	\$6,500	\$6,500
12l	Remove Existing SSMH	EA	1	\$2,100	\$2,100	\$1,000	\$1,000	\$1,000	\$1,000	\$500	\$500	\$3,000	\$3,000	\$4,800	\$4,800	\$3,277	\$3,277	\$500	\$500
Subtotal: S Grove Hill Ave Easement					\$93,430		\$66,625	\$79,713	\$68,690	\$98,825	\$118,950	\$92,578	\$90,080						
13. Sanitary Sewer Improvements: PP-03 to PP-04. Millbrae Ave																			
13a	Abandon Existing 5" SS by Filling Pipe	LF	155	\$17	\$2,635	\$5	\$775	\$10	\$1,519	\$9	\$1,395	\$20	\$3,100	\$10	\$1,550	\$22	\$3,410	\$3	\$465
13b	Construct 8" SS by Open Trench	LF	155	\$470	\$72,850	\$250	\$38,750	\$310	\$48,050	\$350	\$54,250	\$20	\$3,100	\$310	\$48,050	\$288	\$44,640	\$350	\$54,250
13c	Remove and Replace or Construct New Property Line SSCO	EA	5	\$1,000	\$5,000	\$1,000	\$5,000	\$1,500	\$7,500	\$800	\$4,000	\$750	\$3,750	\$800	\$4,000	\$1,399	\$6,995	\$1,000	\$5,000
13d	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 5'-10')	EA	1	\$2,900	\$2,900	\$2,000	\$2,000	\$1,000	\$1,000	\$1,500	\$1,500	\$2,500	\$2,500	\$4,800	\$4,800	\$4,550	\$4,550	\$2,500	\$2,500
13e	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 10'-15')	EA	3	\$3,000	\$9,000	\$2,500	\$7,500	\$1,500	\$4,500	\$1,700	\$5,100	\$3,000	\$9,000	\$4,900	\$14,700	\$4,927	\$14,781	\$3,200	\$9,600
13f	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	1	\$3,100	\$3,100	\$2,700	\$2,700	\$2,000	\$2,000	\$2,000	\$2,000	\$3,500	\$3,500	\$5,000	\$5,100	\$5,100	\$4,200	\$4,200	
13g	Remove and Replace Existing 6" SS with 8" SS by Open Trench	LF	320	\$465	\$148,800	\$280	\$89,600	\$300	\$96,000	\$350	\$112,000	\$350	\$122,000	\$315	\$100,800	\$235	\$75,200	\$350	\$112,000
13h	Remove and Replace Existing Mini-SSMH with New SSMH	EA	1	\$7,300	\$7,300	\$4,500	\$4,500	\$8,200	\$8,200	\$6,000	\$6,000	\$11,500	\$11,500	\$18,250	\$18,250	\$12,820	\$12,820	\$6,500	\$6,500
13i	Remove and Replace Existing SSCO/SSLH with New SSMH	EA	1	\$9,300	\$9,300	\$4,500	\$4,500	\$8,500	\$8,500	\$6,000	\$6,000	\$11,500	\$11,500	\$18,500	\$18,500	\$9,900	\$9,900	\$6,500	\$6,500
13j	Remove Existing SSCO	EA	1	\$760	\$760	\$400	\$400	\$500	\$500	\$200	\$200	\$1,000	\$1,000	\$350	\$350	\$3,111	\$3,111	\$100	\$100
Subtotal: Millbrae Ave					\$261,645		\$155,725	\$177,769	\$192,445	\$160,950	\$216,000	\$180,507	\$201,115						
14. Sanitary Sewer Improvements: PP-05 to PP-08. Sequoia Dr																			
14a	Abandon Existing 5" SS by Filling Pipe	LF	60	\$17	\$1,020	\$5	\$300	\$10	\$588	\$9	\$540	\$20	\$1,200	\$10	\$600	\$40	\$2,400	\$3	\$180
14b	Construct 8" SS by Open Trench	LF	670	\$470	\$314,900	\$250	\$167,500	\$320	\$214,400	\$350	\$234,500	\$350	\$234,500	\$310	\$207,700	\$278	\$186,260	\$450	\$301,500
14c	Remove and Replace or Construct New Property Line SSCO	EA	7	\$1,000	\$7,000	\$1,000	\$7,000	\$1,500	\$10,500	\$800	\$5,600	\$750	\$5,250	\$800	\$5,600	\$1,355	\$9,485	\$1,000	\$7,000
14d	Construct New SSMH	EA	5	\$8,100	\$40,500	\$4,500	\$22,500	\$9,000	\$45,000	\$6,000	\$30,000	\$11,000	\$55,000	\$18,000	\$90,000	\$6,900	\$34,500	\$6,000	\$30,000
14e	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	5	\$630	\$3,150	\$100	\$500	\$1,800	\$9,000	\$500	\$2,500	\$2,500	\$12,500	\$800	\$4,000	\$1,669	\$8,345	\$1,000	\$5,000
14f	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 0'-5')	EA	3	\$3,000	\$9,000	\$1,000	\$3,000	\$500	\$1,500	\$1,500	\$4,500	\$2,000	\$6,000	\$4,700	\$14,100	\$4,400	\$13,200	\$2,500	\$7,500
14g	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 5'-10')	EA	2	\$2,900	\$5,800	\$2,000	\$4,000	\$1,000	\$2,000	\$2,000	\$4,000	\$2,500	\$5,000	\$4,800	\$9,600	\$4,587	\$9,174	\$3,200	\$6,400
14h	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 10'-15')	EA	1	\$3,000	\$3,000	\$2,500	\$2,500	\$1,500	\$1,500	\$2,500	\$2,500	\$3,000	\$3,000	\$4,900	\$4,900	\$4,99			

Item No.	Item Description	Unit	Estimated Quantity	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost
15f	Remove Existing SSCO	EA	2	\$760	\$1,520	\$400	\$800	\$800	\$1,600	\$100	\$200	\$1,000	\$2,000	\$350	\$700	\$3,111	\$6,222	\$100	\$200
Subtotal: Sequoia Dr Easement					\$60,000		\$45,430		\$59,194		\$38,795		\$75,600		\$68,075		\$68,172		\$57,365
16. Sanitary Sewer Improvements: PP-10. Alto Ave Easement																			
16a	Remove and Replace or Construct New Property Line SSCO	EA	7	\$1,000	\$7,000	\$1,000	\$7,000	\$1,650	\$11,550	\$800	\$5,600	\$750	\$5,250	\$800	\$5,600	\$1,346	\$9,422	\$1,000	\$7,000
16b	Construct PCC Top Block at SSMH	EA	2	\$1,600	\$3,200	\$500	\$1,000	\$3,800	\$7,600	\$800	\$1,600	\$2,000	\$4,000	\$2,500	\$5,000	\$8,550	\$17,100	\$1,500	\$3,000
16c	Construct New Type 'C' Retaining Wall	EA	1	\$2,750	\$2,750	\$5,000	\$5,000	\$3,200	\$3,200	\$1,000	\$1,000	\$5,000	\$5,000	\$10,000	\$10,000	\$17,100	\$17,100	\$5,000	\$5,000
16d	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	7	\$630	\$4,410	\$100	\$700	\$1,650	\$11,550	\$500	\$3,500	\$2,500	\$17,500	\$800	\$5,600	\$1,666	\$11,662	\$1,000	\$7,000
16e	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 0'-5')	EA	1	\$3,000	\$3,000	\$1,000	\$1,000	\$500	\$500	\$1,700	\$1,700	\$2,000	\$2,000	\$4,700	\$4,700	\$4,490	\$4,490	\$2,500	\$2,500
16f	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 10'-15')	EA	3	\$3,000	\$9,000	\$2,000	\$6,000	\$2,000	\$6,000	\$2,000	\$6,000	\$2,500	\$7,500	\$4,900	\$14,700	\$4,677	\$14,031	\$3,200	\$9,600
16g	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	3	\$3,100	\$9,300	\$2,500	\$7,500	\$2,000	\$6,000	\$2,500	\$7,500	\$3,000	\$9,000	\$5,000	\$15,000	\$4,877	\$14,631	\$4,200	\$12,600
16h	Pipe Burst Existing 4" with 6" SS	LF	360	\$200	\$72,000	\$180	\$64,800	\$240	\$86,400	\$230	\$82,800	\$225	\$81,000	\$210	\$75,600	\$222	\$79,920	\$300	\$108,000
16i	Remove and Replace Existing SSCO/SSLH with New HDPE SSMH	EA	1	\$10,300	\$10,300	\$4,500	\$4,500	\$7,500	\$7,500	\$5,000	\$5,000	\$11,500	\$11,500	\$18,500	\$18,500	\$11,257	\$11,257	\$6,500	\$6,500
16j	Remove and Replace Existing SSMH	EA	1	\$8,700	\$8,700	\$4,500	\$4,500	\$1,200	\$1,200	\$6,000	\$6,000	\$12,000	\$12,000	\$18,000	\$18,000	\$5,927	\$5,927	\$6,500	\$6,500
Subtotal: Alto Ave Easement					\$129,660		\$102,000		\$141,500		\$120,700		\$154,750		\$172,700		\$185,540		\$167,700
17. Sanitary Sewer Improvements: PP-11 to PP-12. Roger Ave and West Gate Way																			
17a	Abandon Existing 5" SS by Filling Pipe	LF	360	\$17	\$6,120	\$5	\$1,800	\$10	\$3,528	\$9	\$3,240	\$20	\$7,200	\$10	\$3,600	\$16	\$5,760	\$3	\$1,080
17b	Abandon Existing 6" SS by Filling Pipe	LF	50	\$18	\$900	\$6	\$300	\$10	\$490	\$10	\$500	\$20	\$1,000	\$15	\$750	\$46	\$2,300	\$3	\$150
17c	Construct 8" SS by Open Trench	LF	400	\$520	\$208,000	\$250	\$100,000	\$390	\$156,000	\$350	\$140,000	\$350	\$140,000	\$310	\$124,000	\$330	\$132,000	\$600	\$240,000
17d	Remove and Replace or Construct New Property Line SSCO	EA	10	\$1,000	\$10,000	\$1,000	\$10,000	\$1,650	\$16,500	\$800	\$8,000	\$750	\$7,500	\$800	\$8,000	\$1,335	\$13,350	\$100	\$1,000
17e	Construct New SSMH	EA	2	\$10,000	\$20,000	\$4,500	\$9,000	\$8,750	\$17,500	\$6,000	\$12,000	\$11,000	\$22,000	\$18,000	\$36,000	\$6,897	\$13,794	\$6,000	\$12,000
17f	Construct New Drop Manhole	EA	1	\$15,000	\$15,000	\$5,000	\$5,000	\$15,500	\$15,500	\$7,500	\$7,500	\$15,000	\$15,000	\$18,100	\$18,100	\$14,200	\$14,200	\$7,000	\$7,000
17g	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	5	\$630	\$3,150	\$100	\$500	\$1,800	\$9,000	\$500	\$2,500	\$2,500	\$12,500	\$800	\$4,000	\$1,667	\$8,335	\$1,000	\$5,000
17h	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 5'-10')	EA	3	\$2,900	\$8,700	\$1,500	\$4,500	\$1,000	\$3,000	\$1,700	\$5,100	\$2,500	\$7,500	\$4,700	\$14,100	\$4,400	\$13,200	\$3,200	\$9,600
17i	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	5	\$3,100	\$15,500	\$2,700	\$13,500	\$1,500	\$7,500	\$2,000	\$10,000	\$3,000	\$15,000	\$5,000	\$25,000	\$4,567	\$22,835	\$4,200	\$21,000
17j	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 20'-25')	EA	2	\$3,500	\$7,000	\$3,000	\$6,000	\$2,000	\$4,000	\$3,000	\$6,000	\$3,500	\$7,000	\$5,100	\$10,200	\$4,777	\$9,554	\$5,200	\$10,400
17k	Pipe Burst Existing 6" with 8" SS	LF	305	\$210	\$64,050	\$240	\$73,200	\$215	\$65,575	\$230	\$70,150	\$225	\$68,625	\$240	\$73,200	\$210	\$64,050	\$300	\$91,500
17l	Rehabilitate Existing SSMH	EA	1	\$2,800	\$2,800	\$3,500	\$3,500	\$2,800	\$2,800	\$2,500	\$2,500	\$4,500	\$4,500	\$5,800	\$5,800	\$3,777	\$3,777	\$4,500	\$2,500
17m	Remove and Relocate Existing SSMH	EA	1	\$8,700	\$8,700	\$4,500	\$4,500	\$11,000	\$11,000	\$6,000	\$6,000	\$12,000	\$12,000	\$9,500	\$9,500	\$12,820	\$12,820	\$6,000	\$6,000
17n	Remove Ex Mini-SSMH	EA	1	\$1,700	\$1,700	\$500	\$500	\$1,000	\$1,000	\$500	\$500	\$2,000	\$2,000	\$3,800	\$3,800	\$5,929	\$5,929	\$500	\$500
Subtotal: Roger Ave and West Gate Way					\$371,620		\$232,300		\$313,393		\$273,990		\$321,825		\$336,050		\$321,904		\$407,730
18. Sanitary Sewer Improvements: PP-13. West Gate Way Easement																			
18a	Abandon Existing 5" SS by Filling Pipe	LF	60	\$17	\$1,020	\$5	\$300	\$10	\$588	\$9	\$540	\$20	\$1,200	\$10	\$600	\$60	\$3,600	\$3	\$180
18b	Construct New Drop Manhole	EA	1	\$15,000	\$15,000	\$5,000	\$5,000	\$16,000	\$16,000	\$6,500	\$6,500	\$15,000	\$15,000	\$18,100	\$18,100	\$12,827	\$12,827	\$7,000	\$7,000
18c	Construct 8" SS by Open Trench	LF	25	\$470	\$11,750	\$250	\$6,250	\$325	\$8,125	\$350	\$8,750	\$500	\$12,500	\$250	\$6,250	\$260	\$6,500	\$350	\$8,750
18d	Construct PCC Top Block at SSMH	EA	2	\$1,600	\$3,200	\$500	\$1,000	\$3,800	\$7,600	\$800	\$1,600	\$2,000	\$4,000	\$2,500	\$5,000	\$8,555	\$17,110	\$1,500	\$3,000
18e	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	3	\$630	\$1,890	\$100	\$300	\$1,700	\$5,100	\$500	\$1,500	\$2,500	\$7,500	\$800	\$2,400	\$1,667	\$5,001	\$1,000	\$3,000
18f	Pipe Burst Existing 6" with 6" SS	LF	175	\$200	\$35,000	\$220	\$38,500	\$190	\$33,250	\$230	\$40,250	\$205	\$35,875	\$180	\$31,500	\$206	\$36,050	\$300	\$52,500
18g	Remove and Replace Existing SSCO/SSLH with New HDPE SSMH	EA	2	\$10,300	\$20,600	\$4,500	\$9,000	\$10,000	\$20,000	\$4,000	\$8,000	\$11,500	\$23,000	\$18,500	\$37,000	\$11,327	\$22,654	\$6,500	\$13,000
18h	Remove and Replace Existing Mini-SSMH with New SSMH	EA	1	\$7,300	\$7,300	\$4,500	\$4,500	\$9,800	\$9,800	\$5,000	\$5,000	\$11,500	\$11,500	\$18,250	\$18,250	\$11,337	\$11,337	\$6,500	\$6,500
Subtotal: West Gate Way Easement					\$95,760		\$64,850		\$100,463		\$72,140		\$110,575		\$119,100		\$115,079		\$93,930
19. Sanitary Sewer Improvements: PP-14 to PP-15. Skyland Way																			
19a	Abandon Existing 4" SS by Filling Pipe	LF	340	\$16	\$5,440	\$4	\$1,360	\$10	\$3,332	\$8	\$2,720	\$20	\$6,800	\$10	\$3,400	\$16	\$5,440	\$3	\$1,020
19b	Construct 8" SS by Open Trench	LF	345	\$470	\$162,150	\$250	\$86,250	\$320	\$110,400	\$350	\$120,750	\$350	\$120,750	\$310	\$106,950	\$330	\$113,850	\$350	\$120,750
19c	Remove and Replace or Construct New Property Line SSCO	EA	2	\$1,000	\$2,000	\$1,000	\$2,000	\$1,800	\$3,600	\$800	\$1,600	\$750	\$1,500	\$800	\$1,600	\$1,387	\$2,774	\$1,000	\$2,000
19d	Construct New SSMH	EA	1	\$8,100	\$8,100	\$4,500	\$4,500	\$9,000	\$9,000	\$7,000	\$7,000	\$11,000	\$11,000	\$18,000	\$18,000	\$6,899	\$6,899	\$6,000	\$6,000
19e	Rehabilitate Existing SSMH	EA	2	\$2,800	\$5,600	\$3,500	\$7,000	\$2,800	\$5,600	\$2,500	\$5,000	\$4,500	\$9,000	\$5,800	\$11,600	\$3,737	\$7,474	\$2,500	\$5,000
19f	Pipe Burst Existing 4" with 6" SS	LF	240	\$200	\$48,000	\$180	\$43,200	\$210	\$50,400	\$230	\$55,200	\$205	\$49,200	\$210	\$50,400	\$207	\$49,680	\$300	\$72,000
19g	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	2	\$3,100	\$6,200	\$2,500	\$5,000	\$1,500	\$3,000	\$2,000	\$4,000	\$3,000	\$6,000	\$5,000	\$10,000	\$5,100	\$10,200	\$4,200	\$8,400
19h	Remove Existing SSMH	EA	1	\$2,100	\$2,100	\$1,000	\$1,000	\$1,000	\$1,000	\$500	\$500	\$3,000	\$3,000	\$4,800	\$4,800	\$3,277	\$3,277	\$500	\$500
Subtotal: Skyland Way					\$239,590		\$150,310		\$186,332		\$196,770		\$207,250		\$206,750		\$199,594		\$215,670
20. Sanitary Sewer Improvements: PP-16. El Portal Easement																			
20a	Construct New SSMH	EA	1	\$8,100	\$8,100	\$4,500	\$4,500	\$10,000	\$10,000	\$6,000	\$6,000	\$11,000	\$11,000	\$2,800	\$2,800	\$6,899	\$6,899	\$6,000	\$6,000
20b	Construct PCC Top Block at SSMH	EA	3	\$1,600	\$4,800	\$500	\$1,500	\$2,800	\$8,400	\$800	\$2,400	\$2,000	\$6,000	\$2,500	\$7,500	\$8,550	\$25,650	\$1,500	\$4,500
20c	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	4	\$630	\$2,520	\$100	\$400	\$1,800	\$7,200	\$500	\$2,000	\$2,000	\$8,000	\$800	\$3,200	\$1,658	\$6,632	\$1,000	\$4,000
20d	Pipe Burst Existing 4" with 6" SS	LF	270	\$200	\$54,000	\$180	\$48,600	\$210	\$56,700	\$230	\$62,100	\$205	\$55,350	\$210	\$56,700	\$202	\$54,540	\$300	\$81,000
20e	Remove and Replace Existing SSCO/SSLH with New HDPE SSMH	EA	2	\$10,300	\$20,600	\$4,500	\$9,000	\$10,200	\$20,400	\$5,000	\$10,000	\$11,500	\$23,000	\$18,500	\$37,000	\$9,860	\$19,720	\$6,500	\$13,000
20f	Remove Existing SSCO	EA	1	\$760	\$760	\$400	\$400	\$800	\$800	\$100	\$100	\$1,000	\$1,000	\$350	\$350	\$3,111	\$3,111	\$100	\$100
Subtotal: El Portal Easement					\$90,780		\$64,400		\$103,500		\$82,600		\$104,350		\$107,550		\$116,552		\$108,600
21. Sanitary Sewer Improvements: PP-17 to PP-22. S Eliseo Dr/Corte Real																			
21a	Abandon Existing 8" SS by Filling Pipe	LF	265	\$19	\$5,035	\$8	\$2,120	\$10	\$2,597	\$10	\$2,650	\$20	\$5,300	\$18	\$4,770	\$17	\$4,505	\$3	\$795
21b	Abandon Existing 10" SS by Filling Pipe	LF	435	\$20	\$8,700	\$10	\$4,350	\$10	\$4,263	\$12	\$5,220	\$20	\$8,700	\$20	\$8,700	\$15	\$6,525	\$3	\$1,305
21c	Construct 10" SS by Open Trench	LF	785	\$490	\$384,650	\$260	\$204,100	\$473	\$371,305										

Item No.	Item Description	Unit	Estimated Quantity	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost	Unit Cost	Item Cost		
22h	Remove Existing Tree	EA	1	\$3,000	\$3,000	\$500	\$500	\$1,800	\$1,800	\$1,500	\$1,500	\$3,000	\$3,000	\$10,000	\$10,000	\$1,377	\$1,377	\$1,500	\$1,500		
Subtotal: Rancheria Rd					\$313,820		\$310,450		\$288,050		\$273,200		\$341,500		\$394,000		\$331,524		\$414,600		
23. Sanitary Sewer Improvements: PP-26. Rancheria Rd Easement																					
23a	Remove and Replace or Construct New Property Line SSCO	EA	2	\$1,000	\$2,000	\$1,000	\$2,000	\$1,500	\$3,000	\$800	\$1,600	\$750	\$1,500	\$800	\$1,600	\$1,370	\$2,740	\$1,000	\$2,000		
23b	Construct New SSMH	EA	1	\$8,100	\$8,100	\$4,500	\$4,500	\$8,000	\$8,000	\$6,000	\$6,000	\$11,000	\$11,000	\$18,000	\$18,000	\$6,899	\$6,899	\$6,000	\$6,000		
23c	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	2	\$630	\$1,260	\$100	\$200	\$1,800	\$3,600	\$500	\$1,000	\$2,500	\$5,000	\$800	\$1,600	\$1,669	\$3,338	\$1,000	\$2,000		
23d	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 5'-10')	EA	2	\$2,900	\$5,800	\$2,000	\$4,000	\$1,000	\$2,000	\$1,500	\$3,000	\$2,000	\$4,000	\$4,800	\$9,600	\$4,500	\$9,000	\$3,200	\$6,400		
23e	Pipe Burst Existing 6" with 8" SS	LF	370	\$210	\$77,700	\$225	\$83,250	\$215	\$79,550	\$190	\$70,300	\$225	\$83,250	\$240	\$88,800	\$126	\$46,620	\$300	\$111,000		
23f	Rehabilitate Existing SSMH	EA	1	\$2,800	\$2,800	\$3,500	\$3,500	\$2,000	\$2,000	\$2,500	\$2,500	\$4,000	\$4,000	\$5,800	\$5,800	\$3,739	\$3,739	\$2,500	\$2,500		
23g	Remove and Replace Existing SSCO/SSLH with New HDPE SSMH	EA	1	\$10,300	\$10,300	\$4,500	\$4,500	\$10,000	\$10,000	\$6,000	\$6,000	\$12,000	\$12,000	\$18,500	\$18,500	\$11,257	\$11,257	\$6,500	\$6,500		
23h	Remove and Replace Wood Fence In-Kind	LF	15	\$110	\$1,650	\$100	\$1,500	\$50	\$750	\$200	\$3,000	\$500	\$7,500	\$20	\$300	\$190	\$2,850	\$200	\$3,000		
Subtotal: Rancheria Rd Easement					\$109,610		\$103,450		\$108,900		\$93,400		\$128,250		\$144,200		\$86,443		\$139,400		
24. Sanitary Sewer Improvements: PP-27 to PP-29. Laurel Way																					
24a	Abandon Existing 6" SS by Filling Pipe	LF	410	\$18	\$7,380	\$6	\$2,460	\$10	\$4,018	\$10	\$4,100	\$20	\$8,200	\$15	\$6,150	\$15	\$6,150	\$3	\$1,230		
24b	Construct 8" SS by Open Trench	LF	410	\$470	\$192,700	\$250	\$102,500	\$280	\$114,800	\$350	\$143,500	\$350	\$143,500	\$310	\$127,100	\$331	\$135,710	\$3	\$1,230		
24c	Remove and Replace or Construct New Property Line SSCO	EA	2	\$1,000	\$2,000	\$1,000	\$2,000	\$1,800	\$3,600	\$800	\$1,600	\$750	\$1,500	\$800	\$1,600	\$1,370	\$2,740	\$1,000	\$2,000		
24d	Construct New SSMH	EA	3	\$8,100	\$24,300	\$4,500	\$13,500	\$8,000	\$24,000	\$7,000	\$21,000	\$11,000	\$33,000	\$18,000	\$54,000	\$6,899	\$20,697	\$6,000	\$18,000		
24e	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	4	\$630	\$2,520	\$100	\$400	\$1,500	\$6,000	\$500	\$2,000	\$2,500	\$10,000	\$800	\$3,200	\$1,669	\$6,676	\$1,000	\$4,000		
24f	Pipe Burst Existing 6" with 8" SS	LF	480	\$210	\$100,800	\$225	\$108,000	\$218	\$104,640	\$230	\$110,400	\$225	\$108,000	\$240	\$115,200	\$211	\$101,280	\$300	\$144,000		
24g	Rehabilitate Existing SSMH	EA	2	\$2,800	\$5,600	\$3,500	\$7,000	\$2,000	\$4,000	\$2,500	\$5,000	\$4,500	\$9,000	\$5,800	\$11,600	\$3,737	\$7,474	\$2,500	\$5,000		
24h	Pipe Burst, Remove and Replace, or Construct New Sewer Lateral with New 4" SS (Length 15'-20')	EA	2	\$3,100	\$6,200	\$2,500	\$5,000	\$1,500	\$3,000	\$2,000	\$4,000	\$3,000	\$6,000	\$5,000	\$10,000	\$4,800	\$9,600	\$4,200	\$8,400		
24i	Remove Existing SSMH	EA	1	\$2,100	\$2,100	\$1,000	\$1,000	\$1,000	\$1,000	\$500	\$500	\$3,000	\$3,000	\$4,800	\$4,800	\$3,277	\$3,277	\$500	\$500		
Subtotal: Laurel Way					\$343,600		\$241,860		\$265,058		\$292,100		\$322,200		\$333,650		\$293,604		\$184,360		
25. Sanitary Sewer Improvements: PP-30. Evergreen Dr Easement																					
25a	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	2	\$630	\$1,260	\$100	\$200	\$1,800	\$3,600	\$500	\$1,000	\$200	\$400	\$800	\$1,600	\$1,725	\$3,450	\$1,000	\$2,000		
25b	Pipe Burst Existing 6" with 8" SS	LF	435	\$210	\$91,350	\$225	\$97,875	\$208	\$90,480	\$190	\$82,650	\$225	\$97,875	\$240	\$104,400	\$210	\$91,350	\$300	\$130,500		
25c	Rehabilitate Existing SSMH	EA	3	\$2,800	\$8,400	\$3,500	\$10,500	\$2,000	\$6,000	\$2,500	\$7,500	\$4,000	\$12,000	\$5,800	\$17,400	\$3,737	\$11,211	\$2,500	\$7,500		
Subtotal: Evergreen Dr Easement					\$101,010		\$108,575		\$100,080		\$91,150		\$110,275		\$123,400		\$106,011		\$140,000		
26. Sanitary Sewer Improvements: PP-31. Fern Way Easement																					
26a	Construct PCC Top Block at SSMH	EA	1	\$1,600	\$1,600	\$500	\$500	\$3,800	\$3,800	\$800	\$800	\$2,000	\$2,000	\$2,500	\$2,500	\$8,550	\$8,550	\$1,500	\$1,500		
26b	Disconnect/Reconnect Sewer Lateral To Main for Pipe Bursting	EA	4	\$630	\$2,520	\$100	\$400	\$1,800	\$7,200	\$500	\$2,000	\$2,500	\$10,000	\$800	\$3,200	\$1,669	\$6,676	\$1,000	\$4,000		
26c	Pipe Burst Existing 6" with 8" SS	LF	255	\$210	\$53,550	\$225	\$57,375	\$210	\$53,550	\$190	\$48,450	\$225	\$57,375	\$240	\$61,200	\$211	\$53,805	\$300	\$76,500		
26d	Rehabilitate Existing SSMH	EA	1	\$2,800	\$2,800	\$3,500	\$3,500	\$2,000	\$2,000	\$2,500	\$2,500	\$4,500	\$4,500	\$5,800	\$5,800	\$3,739	\$3,739	\$2,500	\$2,500		
26e	Remove and Replace Existing SSCO/SSLH with New HDPE SSMH	EA	1	\$10,300	\$10,300	\$4,500	\$4,500	\$9,500	\$9,500	\$5,000	\$5,000	\$11,500	\$11,500	\$18,500	\$18,500	\$11,250	\$11,250	\$6,500	\$6,500		
Subtotal: Fern Way Easement					\$70,770		\$66,275		\$76,050		\$58,750		\$85,375		\$91,200		\$84,020		\$91,000		
27. Sanitary Sewer Improvements: SS-01. CIPP and Spot Repairs																					
27a	Rehabilitate Existing 6" Sanitary Sewer Mainline by CIPP Method	LF	720	\$60	\$43,200	\$165	\$118,800	\$45	\$32,400	\$45	\$32,400	\$50	\$36,000	\$75	\$54,000	\$49	\$35,280	\$50	\$36,000		
27b	Rehabilitate Existing SSMH	EA	4	\$2,800	\$11,200	\$3,500	\$14,000	\$2,000	\$8,000	\$2,500	\$10,000	\$4,500	\$18,000	\$5,800	\$23,200	\$3,737	\$14,948	\$2,500	\$10,000		
27c	Robotically Reinstall Sewer Lateral For CIPP	EA	4	\$1,400	\$5,600	\$100	\$400	\$300	\$1,200	\$500	\$2,000	\$200	\$800	\$125	\$500	\$325	\$1,300	\$2,000	\$8,000		
27d	Remove and Replace Existing SSCO/SSLH with New SSMH	EA	2	\$9,300	\$18,600	\$5,000	\$10,000	\$8,500	\$17,000	\$7,000	\$14,000	\$11,500	\$23,000	\$18,500	\$37,000	\$9,877	\$19,754	\$6,500	\$13,000		
27e	Replace Existing Lateral Connection to Sewer Main with New PVC or VCP Wye	EA	1	\$1,500	\$1,500	\$1,500	\$1,500	\$2,000	\$2,000	\$1,400	\$1,400	\$3,000	\$3,000	\$3,400	\$3,400	\$6,599	\$6,599	\$5,000	\$5,000		
Subtotal: CIPP and Spot Repair					\$80,100		\$144,700		\$60,600		\$59,800		\$80,800		\$118,100		\$77,881		\$72,000		
Total:					\$5,123,145		\$3,876,810		\$3,876,810		\$4,370,172		\$4,448,000		\$4,676,325		\$5,082,565		\$5,097,141		\$5,268,700
10% Contingency:					\$512,315																
Base Bid Total:					\$5,635,460																