

Engineers Estimate of Construction Costs  
Kent Subdivision No. 2

19 March 2022

	Quantity	Units	Amount	Total	
<b>ROADWAY IMPROVEMENTS</b>					
1.	Mobilization, insurance & bonds (3% of bid).	1	ls	\$10,000.00	\$10,000.00
2.	Install 30" standard curb & gutter.	1312	lf	\$29.25	\$38,376.00
3.	Install 4' wide x 4" thick concrete sidewalk.	1163	lf	\$20.00	\$23,260.00
4.	Install 4' wide x 6" thick concrete sidewalk.	150	lf	\$24.00	\$3,600.00
5.	Install handicap ramp with pad.	2	ea	\$1,800.00	\$3,600.00
6.	Install stop sign with street sign attached.	1	ea	\$425.00	\$425.00
7.	Saw cut asphalt (along 3500 West - approximately 375 lf.)	1	ls	\$3,375.00	\$3,375.00
8.	Install 3" thick bituminous asphalt.	400	ton	\$84.00	\$33,600.00
9.	Install 9" thick untreated roadbase.	1100	ton	\$23.00	\$25,300.00
10.	Install survey monuments.	3	ea	\$625.00	\$1,875.00
<b>SANITARY SEWER IMPROVEMENTS</b>					
1.	Install 8" pvc sanitary sewer pipe.	134	lf	\$45.00	\$6,030.00
2.	Install 4' diameter sanitary sewer manhole.	1	ea	\$2,950.00	\$2,950.00
3.	Install 5' dia. sanitary sewer manhole on existing pipeline.	1	ea	\$3,450.00	\$3,450.00
4.	Connect to existing sanitary sewer manhole.	1	ls	\$8,125.00	\$8,125.00
5.	Install 4" pvc sanitary sewer lateral piping.	206	lf	\$27.50	\$5,665.00
6.	Install pipe bedding materials (1" crushed gravel).	25	ton	\$19.00	\$475.00
7.	Install trench backfill materials.	226	ton	\$14.00	\$3,164.00
8.	Install concrete collars for manholes.	3	ea.	\$725.00	\$2,175.00
<b>STORM WATER IMPROVEMENTS</b>					
1.	Install storm water catch box (sta 0+78.60).	1	ea	\$2,400.00	\$2,400.00
2.	Install storm water combo-box (sta. 0+31.4 & sta. 0+78.7).	2	ea	\$3,750.00	\$7,500.00
3.	Connect to storm water box (sta.0+31.32/sta.102+37.53).	1	ea	\$3,725.00	\$3,725.00
4.	Install storm water inlet/outlet box (in detention basin).	1	ea	\$9,200.00	\$9,200.00
5.	Install 15" rcp, class III, storm water pipe.	114	lf	\$39.50	\$4,503.00
6.	Remove storm water catch box.	1	ea	\$250.00	\$250.00
7.	Remove storm water pipe.	6	lf	\$300.00	\$1,800.00
8.	Modify storm water box & raise to grade in new sidewalk.	1	ls	\$1,400.00	\$1,400.00
9.	Construct detention basin (approximately 6,950 cf.).	1	ls	\$26,000.00	\$26,000.00
10.	Install pipe bedding materials (1" crushed gravel).	27	ton	\$19.00	\$513.00
11.	Install trench backfill materials.	60	ton	\$14.00	\$840.00

<b>CULINARY WATER IMPROVEMENTS</b>					
1.	Install 8" pvc C-900, dr-18, culinary water pipe.	470	lf	\$41.00	\$19,270.00
2.	Hot tap connection on 3500 West Street (8" diameter).	1	ls	\$4,950.00	\$4,950.00
3.	Install 1" copper water lateral pipe.	152	lf	\$32.00	\$4,864.00
4.	Install meter box.	4	ea	\$350.00	\$1,400.00
5.	Install fire hydrant complete with gate valve & 6" piping.	2	ea	\$6,200.00	\$12,400.00
6.	Install 4" gate valve, complete.	2	ea	\$2,750.00	\$5,500.00
7.	Install 8" gate valve, complete.	1	ea	\$2,950.00	\$2,950.00
8.	Install pipe bedding materials (1" crushed gravel).	136	ton	\$19.00	\$2,584.00
9.	Install trench backfill materials.	288	ton	\$14.00	\$4,032.00
10.	Install concrete collars for valve boxes.	5	ea.	\$610.00	\$3,050.00
<b>SECONDARY WATER IMPROVEMENTS</b>					
1.	Install 6" pvc Class 150 secondary water pipe.	470	lf	\$31.00	\$14,570.00
2.	Install 1-1/2" CTS poly secondary water lateral pipe.	70	lf	\$27.00	\$1,890.00
3.	Install double secondary water service meter.	2	ea	\$1,175.00	\$2,350.00
4.	Hot tap connection on 3500 West Street (6" x 24" hot tap).	1	ls	\$6,400.00	\$6,400.00
5.	Install 6" gate valve.	1	ea	\$2,800.00	\$2,800.00
6.	Install pipe bedding materials (1" crushed gravel).	64	ton	\$19.00	\$1,216.00
7.	Install trench backfill.	132	ton	\$14.00	\$1,848.00
8.	Install concrete collars for valve boxes.	1	ea.	\$610.00	\$610.00
Subtotal - Cost of Improvements					\$326,260.00
Construction & Bonding Contingencies (10%)					\$32,630.00
<b>Total - Cost of Improvements</b>					<b>\$358,890.00</b>