



Attachment

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Opinions of Probable Cost for  
Planning Areas



Preliminary Opinion of Probable Constuction Cost (VE) for West University Place: Planning Area 1



PLANNING AREA 1					
LENGTH (FT)	9785		9	= No of Streets	
			193	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	1	\$ 186,000.00	\$ 186,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	1	\$ 74,500.00	\$ 74,500.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 260,500.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	19,980.56	\$ 13.00	\$ 259,747.22
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	19,980.56	\$ 70.00	\$ 1,398,638.89
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	24,329.44	\$ 12.00	\$ 291,953.33
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	618.00	\$ 165.00	\$ 101,970.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	19,570.00	\$ 8.00	\$ 156,560.00
8	sum of:	S.Y.	6,437.00	\$ 75.00	\$ 482,775.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	9,650.00	\$ 13.00	\$ 125,450.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	124.00	\$ 2,000.00	\$ 248,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 3,065,094.44</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer, all sizes and all depths, complete in place the sum of:	L.F.	6820	\$ 30.00	\$ 204,600.00
12	Remove existing storm sewer inlet/manhole, complete in place the sum of:	EA.	98	\$ 600.00	\$ 58,800.00
13	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	3575	\$ 115.00	\$ 411,125.00
14	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	950	\$ 150.00	\$ 142,500.00
15	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	1420	\$ 180.00	\$ 255,600.00
16	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	585	\$ 215.00	\$ 125,775.00
17	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	250	\$ 250.00	\$ 62,500.00
18	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	700	\$ 270.00	\$ 189,000.00
19	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	250	\$ 350.00	\$ 87,500.00
20	66" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	260	\$ 360.00	\$ 93,600.00
21	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	76	\$ 4,000.00	\$ 304,000.00
22	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	0	\$ 3,500.00	\$ -
23	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	22	\$ 4,500.00	\$ 99,000.00
24	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	5945	\$ 2.00	\$ 11,890.00
25	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	2143	\$ 2.50	\$ 5,357.50
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 2,051,247.50</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 5,376,841.94</b>
<b>15% CONTINGENCY:</b>					<b>\$ 806,526.29</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 6,183,368.24</b>
<b>Design Engineering Services</b>					<b>\$ 494,669.46</b>
<b>Bid Phase Services</b>					<b>\$ 61,833.68</b>
<b>Construction Administration Services</b>					<b>\$ 61,833.68</b>
<b>Surveying Services</b>					<b>\$ 42,300.00</b>
<b>Geotechnical Services</b>					<b>\$ 36,100.00</b>
<b>Urban Forester</b>					<b>\$ 16,600.00</b>
<b>OPCC INCLUDING PROFESSIONAL SERVICES:</b>					<b>\$ 6,896,705.06</b>

Quantity Calculation Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assume every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Construction Cost (VE) for West University Place: Planning Area 2



PLANNING AREA 2					
LENGTH (FT)	9628		11	= No of Streets	
			372	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	1	\$ 203,500.00	\$ 203,500.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	1	\$ 81,500.00	\$ 81,500.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 285,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	29,313.94	\$ 13.00	\$ 381,081.21
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	29,313.94	\$ 70.00	\$ 2,051,975.72
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	34,194.32	\$ 12.00	\$ 410,331.80
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	866.00	\$ 165.00	\$ 142,890.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	21,961.70	\$ 8.00	\$ 175,693.60
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	12,395.00	\$ 75.00	\$ 929,625.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	18,583.33	\$ 13.00	\$ 241,583.33
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	112.00	\$ 2,000.00	\$ 224,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 4,557,180.66</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer, all sizes and all depths, complete in place the sum of:	L.F.	5720	\$ 300.00	\$ 1,716,000.00
12	Remove existing storm sewer inlet/manhole, complete in place the sum of:	EA.	105	\$ 600.00	\$ 63,000.00
13	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	5110	\$ 115.00	\$ 587,650.00
14	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	1545	\$ 150.00	\$ 231,750.00
15	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	1050	\$ 180.00	\$ 189,000.00
16	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 215.00	\$ -
17	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 250.00	\$ -
18	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 270.00	\$ -
19	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 350.00	\$ -
20	66" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 360.00	\$ -
21	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	84	\$ 4,000.00	\$ 336,000.00
22	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	0	\$ 3,500.00	\$ -
23	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	25	\$ 4,500.00	\$ 112,500.00
24	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	7830	\$ 2.00	\$ 15,410.00
25	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	0	\$ 2.50	\$ 272.50
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 1,707,182.50</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 6,549,363.16</b>
<b>15% CONTINGENCY:</b>					<b>\$ 982,404.47</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 7,531,767.64</b>
<b>Design Engineering Services</b>					<b>\$ 602,541.41</b>
<b>Bid Phase Services</b>					<b>\$ 75,317.68</b>
<b>Construction Administration Services</b>					<b>\$ 75,317.68</b>
<b>Surveying Services</b>					<b>\$ 32,800.00</b>
<b>Geotechnical Services</b>					<b>\$ 40,400.00</b>
<b>Urban Forester</b>					<b>\$ 18,900.00</b>
<b>OPCC INCLUDING PROFESSIONAL SERVICES:</b>					<b>\$ 8,377,044.40</b>

Quantity Calculation Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assume every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost (VE) for West University Place: Planning Area 3



PLANNING AREA 3					
LENGTH (FT)	14830		12	= No of Streets	
			281	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	1	\$ 250,000.00	\$ 250,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	1	\$ 102,000.00	\$ 102,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 352,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	29,230.00	\$ 13.00	\$ 379,990.00
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	29,230.00	\$ 70.00	\$ 2,046,100.00
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	35,821.11	\$ 12.00	\$ 429,853.33
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	910.00	\$ 165.00	\$ 150,150.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	29,660.00	\$ 8.00	\$ 237,280.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	9,358.00	\$ 75.00	\$ 701,850.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	14,033.33	\$ 13.00	\$ 182,433.33
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	148.00	\$ 2,000.00	\$ 296,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 4,423,656.67</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer, all sizes and all depths, complete in place the sum of:	L.F.	9895	\$ 30.00	\$ 296,850.00
12	Remove existing storm sewer inlet/manhole, complete in place the sum of:	EA.	130	\$ 600.00	\$ 78,000.00
13	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	5620	\$ 115.00	\$ 646,300.00
14	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	1025	\$ 150.00	\$ 153,750.00
15	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	917	\$ 180.00	\$ 165,060.00
16	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	1007	\$ 215.00	\$ 216,505.00
17	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	260	\$ 250.00	\$ 65,000.00
18	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	1167	\$ 270.00	\$ 315,090.00
19	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 350.00	\$ -
20	66" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	0	\$ 360.00	\$ -
21	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	105	\$ 4,000.00	\$ 420,000.00
22	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	0	\$ 3,500.00	\$ -
23	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	31	\$ 4,500.00	\$ 139,500.00
24	Trench safety for all storm sewers greater than 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	7562	\$ 2.00	\$ 15,124.00
25	Trench safety for all storm sewers greater than 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	2570	\$ 2.50	\$ 6,425.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 2,517,604.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 7,293,260.67</b>
<b>15% CONTINGENCY:</b>					<b>\$ 1,093,989.10</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 8,387,249.77</b>
<b>Design Engineering Services</b>					<b>\$ 670,979.98</b>
<b>Bid Phase Services</b>					<b>\$ 83,872.50</b>
<b>Construction Administration Services</b>					<b>\$ 83,872.50</b>
<b>Surveying Services</b>					<b>\$ 49,600.00</b>
<b>Geotechnical Services</b>					<b>\$ 54,400.00</b>
<b>Urban Forester</b>					<b>\$ 24,900.00</b>
<b>OPCC INCLUDING PROFESSIONAL SERVICES:</b>					<b>\$ 9,354,874.74</b>

Quantity Calculation Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed both sides of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 4



STREET NAME	Planning Area #4				
LENGTH (FT)	4170		1	= 2 if Boulevard Street	
WIDTH (FT)	14		46	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	4	\$ 25,000.00	\$ 100,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	4	\$ 10,000.00	\$ 40,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 140,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	6,487	\$ 13.00	\$ 84,326.67
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	6,487	\$ 70.00	\$ 454,066.67
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	8,340	\$ 12.00	\$ 100,080.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	211	\$ 165.00	\$ 34,815.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	8,340	\$ 8.00	\$ 66,720.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,534	\$ 75.00	\$ 115,050.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	2300	\$ 13.00	\$ 29,900.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	48	\$ 2,000.00	\$ 96,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 980,958.33</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	4,170	\$ 20.00	\$ 83,400.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	44	\$ 370.00	\$ 16,280.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	20	\$ 390.00	\$ 7,800.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	4,170	\$ 180.00	\$ 750,600.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	44	\$ 4,000.00	\$ 176,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	10	\$ 3,470.00	\$ 34,700.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	10	\$ 6,340.00	\$ 63,400.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	4170	\$ 2.00	\$ 8,340.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	64	\$ 2.50	\$ 160.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 1,140,680.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,261,638.33</b>
<b>25% CONTINGENCY:</b>					<b>\$ 565,409.58</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,827,047.92</b>
<b>Design Engineering Services</b>					<b>\$ 282,704.79</b>
<b>Bid Phase Services</b>					<b>\$ 28,270.48</b>
<b>Construction Administration Services</b>					<b>\$ 28,270.48</b>
<b>Surveying Services</b>					<b>\$ 12,600.00</b>
<b>Geotechnical Services</b>					<b>\$ 15,200.00</b>
<b>Urban Forester</b>					<b>\$ 6,900.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):** **\$ 3,200,993.67**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 5



STREET NAME	Planning Area #5				
LENGTH (FT)	5910		1	= 2 if Boulevard Street	
WIDTH (FT)	14		54	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	4	\$ 25,000.00	\$ 100,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	4	\$ 10,000.00	\$ 40,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 140,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	9,193	\$ 13.00	\$ 119,513.33
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	9,193	\$ 70.00	\$ 643,533.33
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	11,820	\$ 12.00	\$ 141,840.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	298	\$ 165.00	\$ 49,170.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	11,820	\$ 8.00	\$ 94,560.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,800	\$ 75.00	\$ 135,000.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	2700	\$ 13.00	\$ 35,100.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	72	\$ 2,000.00	\$ 144,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 1,362,716.67</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	5,910	\$ 20.00	\$ 118,200.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	76	\$ 370.00	\$ 28,120.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	28	\$ 390.00	\$ 10,920.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	5,910	\$ 180.00	\$ 1,063,800.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	76	\$ 4,000.00	\$ 304,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	14	\$ 3,470.00	\$ 48,580.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	14	\$ 6,340.00	\$ 88,760.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	5910	\$ 2.00	\$ 11,820.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	104	\$ 2.50	\$ 260.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 1,674,460.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 3,177,176.67</b>
<b>25% CONTINGENCY:</b>					<b>\$ 794,294.17</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 3,971,470.83</b>
<b>Design Engineering Services</b>					<b>\$ 397,147.08</b>
<b>Bid Phase Services</b>					<b>\$ 39,714.71</b>
<b>Construction Administration Services</b>					<b>\$ 39,714.71</b>
<b>Surveying Services</b>					<b>\$ 18,900.00</b>
<b>Geotechnical Services</b>					<b>\$ 21,500.00</b>
<b>Urban Forester</b>					<b>\$ 9,800.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):**

**\$ 4,498,247.33**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 6



STREET NAME	Planning Area #6				
LENGTH (FT)	3340		1	= 2 if Boulevard Street	
WIDTH (FT)	14		51	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	2	\$ 25,000.00	\$ 50,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	2	\$ 10,000.00	\$ 20,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 70,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	5,196	\$ 13.00	\$ 67,542.22
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	5,196	\$ 70.00	\$ 363,688.89
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	6,680	\$ 12.00	\$ 80,160.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	169	\$ 165.00	\$ 27,885.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	6,680	\$ 8.00	\$ 53,440.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,700	\$ 75.00	\$ 127,500.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	2550	\$ 13.00	\$ 33,150.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	32	\$ 2,000.00	\$ 64,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 817,366.11</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	3,340	\$ 20.00	\$ 66,800.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	40	\$ 370.00	\$ 14,800.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	16	\$ 390.00	\$ 6,240.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	3,340	\$ 180.00	\$ 601,200.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	40	\$ 4,000.00	\$ 160,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	8	\$ 3,470.00	\$ 27,760.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	8	\$ 6,340.00	\$ 50,720.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	3340	\$ 2.00	\$ 6,680.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	56	\$ 2.50	\$ 140.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 934,340.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 1,821,706.11</b>
<b>25% CONTINGENCY:</b>					<b>\$ 455,426.53</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,277,132.64</b>
<b>Design Engineering Services</b>					<b>\$ 227,713.26</b>
<b>Bid Phase Services</b>					<b>\$ 22,771.33</b>
<b>Construction Administration Services</b>					<b>\$ 22,771.33</b>
<b>Surveying Services</b>					<b>\$ 8,400.00</b>
<b>Geotechnical Services</b>					<b>\$ 12,200.00</b>
<b>Urban Forester</b>					<b>\$ 5,600.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):**

**\$ 2,576,588.56**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 7



STREET NAME	Planning Area #7				
LENGTH (FT)	3350		1	= 2 if Boulevard Street	
WIDTH (FT)	14		43	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	5	\$ 25,000.00	\$ 125,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	5	\$ 10,000.00	\$ 50,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 175,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	5,211	\$ 13.00	\$ 67,744.44
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	5,211	\$ 70.00	\$ 364,777.78
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	6,700	\$ 12.00	\$ 80,400.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	169	\$ 165.00	\$ 27,885.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	6,700	\$ 8.00	\$ 53,600.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,434	\$ 75.00	\$ 107,550.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	2150	\$ 13.00	\$ 27,950.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	18	\$ 2,000.00	\$ 36,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 765,907.22</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	3,350	\$ 20.00	\$ 67,000.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	37	\$ 370.00	\$ 13,690.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	19	\$ 390.00	\$ 7,410.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	3,350	\$ 180.00	\$ 603,000.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	37	\$ 4,000.00	\$ 148,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	10	\$ 3,470.00	\$ 34,700.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	9	\$ 6,340.00	\$ 57,060.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	3350	\$ 2.00	\$ 6,700.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	56	\$ 2.50	\$ 140.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 937,700.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 1,878,607.22</b>
<b>25% CONTINGENCY:</b>					<b>\$ 469,651.81</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,348,259.03</b>
<b>Design Engineering Services</b>					<b>\$ 234,825.90</b>
<b>Bid Phase Services</b>					<b>\$ 23,482.59</b>
<b>Construction Administration Services</b>					<b>\$ 23,482.59</b>
<b>Surveying Services</b>					<b>\$ 4,800.00</b>
<b>Geotechnical Services</b>					<b>\$ 12,200.00</b>
<b>Urban Forester</b>					<b>\$ 5,600.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):**

**\$ 2,652,650.11**

Quantity  
Calculation  
Assumptions:

- Removal and replacement of concrete is based on existing paving section
- Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- All inlets are assumed to be Type BB
- At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- Inlets at intersections were generally included in the E-W street
- One standard driveway per lot

Engineering Fee  
Assumptions:

- Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 8



STREET NAME	Planning Area #8				
LENGTH (FT)	2340		1	= 2 if Boulevard Street	
WIDTH (FT)	14		30	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	4	\$ 25,000.00	\$ 100,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	4	\$ 10,000.00	\$ 40,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 140,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	3,640	\$ 13.00	\$ 47,320.00
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	3,640	\$ 70.00	\$ 254,800.00
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	4,680	\$ 12.00	\$ 56,160.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	118	\$ 165.00	\$ 19,470.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	4,680	\$ 8.00	\$ 37,440.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,000	\$ 75.00	\$ 75,000.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	1500	\$ 13.00	\$ 19,500.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	32	\$ 2,000.00	\$ 64,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 573,690.00</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	2,340	\$ 20.00	\$ 46,800.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	28	\$ 370.00	\$ 10,360.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	11	\$ 390.00	\$ 4,290.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	2,340	\$ 180.00	\$ 421,200.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	28	\$ 4,000.00	\$ 112,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	6	\$ 3,470.00	\$ 20,820.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	5	\$ 6,340.00	\$ 31,700.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	2340	\$ 2.00	\$ 4,680.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	39	\$ 2.50	\$ 97.50
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 651,947.50</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 1,365,637.50</b>
<b>25% CONTINGENCY:</b>					<b>\$ 341,409.38</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 1,707,046.88</b>
<b>Design Engineering Services</b>					<b>\$ 170,704.69</b>
<b>Bid Phase Services</b>					<b>\$ 17,070.47</b>
<b>Construction Administration Services</b>					<b>\$ 17,070.47</b>
<b>Surveying Services</b>					<b>\$ 8,400.00</b>
<b>Geotechnical Services</b>					<b>\$ 8,500.00</b>
<b>Urban Forester</b>					<b>\$ 3,900.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):**

**\$ 1,932,692.50**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 9



STREET NAME	Planning Area #9				
LENGTH (FT)	3470		1	= 2 if Boulevard Street	
WIDTH (FT)	14		34	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	4	\$ 25,000.00	\$ 100,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	4	\$ 10,000.00	\$ 40,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 140,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	5,398	\$ 13.00	\$ 70,171.11
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	5,398	\$ 70.00	\$ 377,844.44
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	6,940	\$ 12.00	\$ 83,280.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	175	\$ 165.00	\$ 28,875.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	6,940	\$ 8.00	\$ 55,520.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,134	\$ 75.00	\$ 85,050.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	1700	\$ 13.00	\$ 22,100.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	44	\$ 2,000.00	\$ 88,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 810,840.56</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	3,470	\$ 20.00	\$ 69,400.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	50	\$ 370.00	\$ 18,500.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	20	\$ 390.00	\$ 7,800.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	3,470	\$ 180.00	\$ 624,600.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	50	\$ 4,000.00	\$ 200,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	10	\$ 3,470.00	\$ 34,700.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	10	\$ 6,340.00	\$ 63,400.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	3470	\$ 2.00	\$ 6,940.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	70	\$ 2.50	\$ 175.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 1,025,515.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 1,976,355.56</b>
<b>25% CONTINGENCY:</b>					<b>\$ 494,088.89</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,470,444.44</b>
<b>Design Engineering Services</b>					<b>\$ 247,044.44</b>
<b>Bid Phase Services</b>					<b>\$ 24,704.44</b>
<b>Construction Administration Services</b>					<b>\$ 24,704.44</b>
<b>Surveying Services</b>					<b>\$ 11,500.00</b>
<b>Geotechnical Services</b>					<b>\$ 12,600.00</b>
<b>Urban Forester</b>					<b>\$ 5,800.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):**

**\$ 2,796,797.78**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 10



STREET NAME		Planning Area #10			
LENGTH (FT)	3580		1	= 2 if Boulevard Street	
WIDTH (FT)	14		45	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	4	\$ 25,000.00	\$ 100,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	4	\$ 10,000.00	\$ 40,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 140,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	5,569	\$ 13.00	\$ 72,395.56
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	5,569	\$ 70.00	\$ 389,822.22
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	7,160	\$ 12.00	\$ 85,920.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	181	\$ 165.00	\$ 29,865.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	7,160	\$ 8.00	\$ 57,280.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,500	\$ 75.00	\$ 112,500.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	2250	\$ 13.00	\$ 29,250.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	44	\$ 2,000.00	\$ 88,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 865,032.78</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	3,580	\$ 20.00	\$ 71,600.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	36	\$ 370.00	\$ 13,320.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	12	\$ 390.00	\$ 4,680.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	3,580	\$ 180.00	\$ 644,400.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	36	\$ 4,000.00	\$ 144,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	6	\$ 3,470.00	\$ 20,820.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	6	\$ 6,340.00	\$ 38,040.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	3580	\$ 2.00	\$ 7,160.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	48	\$ 2.50	\$ 120.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 944,140.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 1,949,172.78</b>
<b>25% CONTINGENCY:</b>					<b>\$ 487,293.19</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,436,465.97</b>
<b>Design Engineering Services</b>					<b>\$ 243,646.60</b>
<b>Bid Phase Services</b>					<b>\$ 24,364.66</b>
<b>Construction Administration Services</b>					<b>\$ 24,364.66</b>
<b>Surveying Services</b>					<b>\$ 11,500.00</b>
<b>Geotechnical Services</b>					<b>\$ 13,000.00</b>
<b>Urban Forester</b>					<b>\$ 6,000.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):**

**\$ 2,759,341.89**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 11



STREET NAME		Planning Area #11			
LENGTH (FT)	3980		1	= 2 if Boulevard Street	
WIDTH (FT)	14		54	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	4	\$ 25,000.00	\$ 100,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	4	\$ 10,000.00	\$ 40,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 140,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	6,191	\$ 13.00	\$ 80,484.44
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	6,191	\$ 70.00	\$ 433,377.78
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	7,960	\$ 12.00	\$ 95,520.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	201	\$ 165.00	\$ 33,165.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	7,960	\$ 8.00	\$ 63,680.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	1,800	\$ 75.00	\$ 135,000.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	2700	\$ 13.00	\$ 35,100.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	28	\$ 2,000.00	\$ 56,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 932,327.22</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	3,980	\$ 20.00	\$ 79,600.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	40	\$ 370.00	\$ 14,800.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	16	\$ 390.00	\$ 6,240.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	3,980	\$ 180.00	\$ 716,400.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	40	\$ 4,000.00	\$ 160,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	8	\$ 3,470.00	\$ 27,760.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	8	\$ 6,340.00	\$ 50,720.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	3980	\$ 2.00	\$ 7,960.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	56	\$ 2.50	\$ 140.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 1,063,620.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,135,947.22</b>
<b>25% CONTINGENCY:</b>					<b>\$ 533,986.81</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,669,934.03</b>
<b>Design Engineering Services</b>					<b>\$ 266,993.40</b>
<b>Bid Phase Services</b>					<b>\$ 26,699.34</b>
<b>Construction Administration Services</b>					<b>\$ 26,699.34</b>
<b>Surveying Services</b>					<b>\$ 7,400.00</b>
<b>Geotechnical Services</b>					<b>\$ 14,500.00</b>
<b>Urban Forester</b>					<b>\$ 6,600.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):** **\$ 3,018,826.11**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.

Preliminary Opinion of Probable Constuction Cost for West University Place: Planning Area 12



STREET NAME	Planning Area #12				
LENGTH (FT)	4940		1	= 2 if Boulevard Street	
WIDTH (FT)	14		66	= No. of Driveways	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL AMOUNT
<b>GENERAL ITEMS</b>					
1	Traffic Control and Regulation, including signs, barrels, barricades, and flagmen	L.S.	3	\$ 25,000.00	\$ 75,000.00
2	Temporary Sediment Control including Inlet protection barrier, Stage I and II inlets and existing inlets, including filter fabric fence, gravel bags, repair and replacement, maintenance and removal of sediments, complete in place the sum of:	L.S.	3	\$ 10,000.00	\$ 30,000.00
<b>SUB-TOTAL GENERAL ITEMS:</b>					<b>\$ 105,000.00</b>
<b>PAVING ITEMS</b>					
3	Existing concrete pavement removal, complete in place the sum of:	S.Y.	7,684	\$ 13.00	\$ 99,897.78
4	6" thick reinforced concrete pavement, including reinforcement, joints and grading, complete in place the sum of:	S.Y.	7,684	\$ 70.00	\$ 537,911.11
5	8" lime stabilized subgrade, including grading, mixing, compacting and curing, complete in place the sum of:	S.Y.	9,880	\$ 12.00	\$ 118,560.00
6	Lime for lime stabilized subgrade (7% minimum by dry weight), complete in place the sum of:	TON	249	\$ 165.00	\$ 41,085.00
7	6" concrete curb, including reinforcement and joints, complete in place the sum of:	L.F.	9,880	\$ 8.00	\$ 79,040.00
8	6" concrete driveway, including blockout, reinforcement and joints, complete in place the sum of:	S.Y.	2,200	\$ 75.00	\$ 165,000.00
9	5' concrete sidewalk, complete in place the sum of:	S.F.	3300	\$ 13.00	\$ 42,900.00
10	Concrete curb ramp per ADA requirements, complete in place the sum of:	EA.	36	\$ 2,000.00	\$ 72,000.00
<b>SUB-TOTAL PAVING ITEMS:</b>					<b>\$ 1,156,393.89</b>
<b>DRAINAGE ITEMS</b>					
11	Remove existing storm sewer pipe, all sizes and all depths, complete in place the sum of:	L.F.	4,940	\$ 20.00	\$ 98,800.00
12	Remove existing storm sewer box, all sizes and all depths, complete in place the sum of:	L.F.	-	\$ 40.00	\$ -
13	Remove existing storm sewer inlets, complete in place the sum of:	EA.	45	\$ 370.00	\$ 16,650.00
14	Remove existing storm sewer manhole, complete in place the sum of:	EA.	25	\$ 390.00	\$ 9,750.00
15	24" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 115.00	\$ -
16	30" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 150.00	\$ -
17	36" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	4,940	\$ 180.00	\$ 889,200.00
18	42" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 215.00	\$ -
19	48" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 250.00	\$ -
20	54" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 270.00	\$ -
21	60" RCP, ASTM C76, Class III storm sewer, rubber gasket joints, all depths, cement stabilized sand bedding and backfill, complete in place the sum of:	L.F.	-	\$ 350.00	\$ -
22	Type "BB" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	45	\$ 4,000.00	\$ 180,000.00
23	Type "D" Inlet, all depths, including foundation and backfill, complete in place the sum of:	EA.	-	\$ 3,500.00	\$ -
24	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA.	13	\$ 3,470.00	\$ 45,110.00
25	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA.	12	\$ 6,340.00	\$ 76,080.00
26	Manholes (For 78" Dia. Pipe and Larger) (All Types)	EA.	-	\$ 16,500.00	\$ -
27	Reinforced precast junction box, including excavation, bedding and backfill, connection to existing system, complete in place, the sum of:	EA.	-	\$ 4,500.00	\$ -
28	Trench safety for all storm sewers 5' - 10' deep, including installation, operation and removal, complete in place the sum of:	L.F.	4940	\$ 2.00	\$ 9,880.00
29	Trench safety for all storm sewers 10' - 15' deep, including installation, operation and removal, complete in place the sum of:	L.F.	70	\$ 2.50	\$ 175.00
<b>SUB-TOTAL DRAINAGE ITEMS:</b>					<b>\$ 1,325,645.00</b>
<b>ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 2,587,038.89</b>
<b>25% CONTINGENCY:</b>					<b>\$ 646,759.72</b>
<b>TOTAL ESTIMATED PROBABLE COST OF CONSTRUCTION:</b>					<b>\$ 3,233,798.61</b>
<b>Design Engineering Services</b>					<b>\$ 323,379.86</b>
<b>Bid Phase Services</b>					<b>\$ 32,337.99</b>
<b>Construction Administration Services</b>					<b>\$ 32,337.99</b>
<b>Surveying Services</b>					<b>\$ 9,500.00</b>
<b>Geotechnical Services</b>					<b>\$ 18,000.00</b>
<b>Urban Forester</b>					<b>\$ 8,200.00</b>

**OPCC INCLUDING PROFESSIONAL SERVICES (NO DETENTION):** **\$ 3,657,554.44**

Quantity  
Calculation  
Assumptions:

- <sup>1</sup> Removal and replacement of concrete is based on existing paving section
- <sup>2</sup> Sidewalk is assumed for one side of the street, but limited to 5 linear feet on either side of driveways
- <sup>3</sup> All inlets are assumed to be Type BB
- <sup>4</sup> At intersections, all sidewalks are assumed to have accessible ramps leading to adjacent sidewalk(s)
- <sup>5</sup> Inlets at intersections were generally included in the E-W street
- <sup>6</sup> One standard driveway per lot

Engineering Fee  
Assumptions:

- <sup>1</sup> Surveying services fee is estimated based on \$4.75/LF, extending only 100 feet from intersections in all directions
- <sup>2</sup> Geotechnical services fee is estimated based on \$110/VF. The average depth of borehole is assumed as 15 VF. Boreholes assumed every 500 LF.
- <sup>3</sup> Urban Forester service fee is estimated based on \$1.50/LF.