

**Wells/State Conversion to Two-Way Traffic**

Wells Street from N. Prospect Avenue to N. 10th Street

State Street from N. Van Buren to N. 11th Street

**Wells Street and State Street  
East of N. 6th Street**

Traffic Signals	Labor by City Forces	\$64,847.99
	New Materials	\$66,706.07
	Relocated Materials	\$0.00
	Equipment	\$1,788.86
	Engineering by City Forces	\$13,334.29
	<b>Total for Signals</b>	<b>\$146,677.21</b>
Signs	Labor by City Forces	\$3,475.20
	New Materials	\$352.20
	Refocused Materials	\$0.00
	Engineering by City Forces	\$2,000.00
	<b>Total for Signs</b>	<b>\$5,827.40</b>
Geometric Changes	Construction by Contractor	\$43,500.00
	Engineering by City Forces	\$13,200.00
	<b>Total for Geometric Work</b>	<b>\$56,700.00</b>
Pavement Marking	Labor by City Forces	\$1,753.15
	Materials (all new)	\$461.35
	Engineering by City Forces	\$2,025.00
	Construction by Contractor	\$14,690.00
	<b>Total for Pavement Marking</b>	<b>\$18,929.50</b>
<b>Total for this Segment</b>		<b>\$228,134.11</b>

**Wells Street and State Street  
West of N. 6th Street**

Traffic Signals	Labor by City Forces	\$16,231.11
	New Materials	\$23,311.53
	Relocated Materials	\$0.00
	Equipment	\$441.48
	Engineering by City Forces	\$3,998.41
	<b>Total for Signals</b>	<b>\$43,982.53</b>
Signs	Labor by City Forces	\$1,456.06
	New Materials	\$117.40
	Refocused Materials	\$0.00
	Engineering by City Forces	\$1,500.00
	<b>Total for Signs</b>	<b>\$3,073.46</b>
Geometric Changes	Construction by Contractor	\$0.00
	Engineering by City Forces	\$0.00
	<b>Total for Geometric Work</b>	<b>\$0.00</b>
Pavement Marking	Labor by City Forces	\$1,574.40
	Materials (all new)	\$597.60
	Engineering by City Forces	\$2,025.00
	Construction by Contractor	\$6,510.00
	<b>Total for Pavement Marking</b>	<b>\$10,707.00</b>
<b>Total for this Segment</b>		<b>\$57,762.99</b>

**Wells and State East of 6th = \$228,134.11**  
**Wells and State West of 6th = \$57,762.99**  
**Grand Total = \$285,897.10**

## Traffic Signal Estimate

Cost per unit is the sum of material, labor and equipment per unit  
All material is new unless labeled with the term "relocate"

### Work by City Forces

#### Wells and State - West of 6th

			Material Per Unit	Labor Per Unit	Equipment Per Unit	Cost Per Unit	Total
330 CONTROLLER ACTUATED W/O FOUNDATION	1	EACH	\$9,606.21	\$2,479.16	\$9.53	\$12,094.90	\$12,094.90
512 SIGNAL HOUSING LED	2	EACH	\$585.16	\$356.33	\$9.42	\$950.91	\$1,901.82
312 SIGNAL HOUSING LED	12	EACH	\$376.11	\$197.96	\$4.71	\$578.78	\$6,945.36
38 SIGNAL HOUSING LED	8	EACH	\$327.77	\$118.77	\$4.72	\$451.26	\$3,610.08
17#14 LTP CABLE	125	PER LF	\$0.54	\$1.77	\$0.07	\$2.38	\$297.50
20#14 LTP CABLE	770	PER LF	\$0.64	\$1.77	\$0.07	\$2.48	\$1,909.60
MAST ARM FABRICATED	1	EACH	\$534.35	\$1,234.10	\$4.72	\$1,773.17	\$1,773.17
SIGNAL STANDARD 13'	5	EACH	\$485.80	\$353.17	\$11.77	\$850.74	\$4,253.70
RELOCATE 312 SIGNAL HOUSING	1	EACH	\$0.00	\$197.96	\$14.35	\$212.31	\$212.31
RELOCATE 12" DW-W SIGNAL HOUSING	1	EACH	\$0.00	\$197.96	\$14.35	\$212.31	\$212.31
RELOCATE 38 SIGNAL HOUSING	1	EACH	\$0.00	\$158.37	\$11.48	\$169.85	\$169.85
2.5" PVC CONDUIT (HOLE HOG/BORE)	70	PER LF	\$0.45	\$5.33	\$0.20	\$5.98	\$418.60
SAW CUT, BREAK OUT AND RESTORATION OF CONC.	115	SQ FT	\$0.00	\$30.86	\$0.88	\$31.74	\$3,650.10
INSTALL AT31 POLE WITH LUMINAIRE	1	EACH	\$1,844.37	\$370.31	\$21.19	\$2,235.87	\$2,235.87
REMOVE EXISTING A31 POLE COMPLETE	1	EACH	\$0.00	\$282.91	\$16.04	\$298.95	\$298.95
SUB-TOTAL COST							\$39,984.12
ENGINEERING (10% of CONSTRUCTION COST)							\$3,998.41
<b>TOTAL COST FOR THIS SEGMENT</b>							<b>\$43,982.53</b>

### Work by City Forces

#### Wells and State - East of 6th

			Material Per Unit	Labor Per Unit	Equipment Per Unit	Cost Per Unit	Total
330 CONTROLLER ACTUATED W/O FOUNDATION	3	EACH	\$9,606.21	\$2,479.16	\$9.53	\$12,094.90	\$36,284.70
512 SIGNAL HOUSING LED	9	EACH	\$585.16	\$356.33	\$9.42	\$950.91	\$8,558.19
312 SIGNAL HOUSING LED	29	EACH	\$376.11	\$197.96	\$4.71	\$578.78	\$16,784.62
38 SIGNAL HOUSING LED	31	EACH	\$327.77	\$118.77	\$4.72	\$451.26	\$13,989.06
9" DW-W SIGNAL HOUSING LED	2	EACH	\$283.64	\$197.96	\$7.07	\$488.67	\$977.34
C-38-212-SIGNAL HOUSING	1	EACH	\$536.31	\$237.55	\$7.07	\$780.93	\$780.93
PUSHBUTTON	3	EACH	\$36.47	\$79.18	\$4.71	\$120.36	\$361.08
LEAD IN CABLE (PROBE)	230	PER LF	\$0.08	\$1.77	\$0.07	\$1.92	\$441.60
9#14 LTP CABLE	210	PER LF	\$0.29	\$1.77	\$0.07	\$2.13	\$447.30
17#14 LTP CABLE	660	#N/A	\$0.54	\$1.77	\$0.07	\$2.38	\$1,570.80
20#14 LTP CABLE	1425	PER LF	\$0.64	\$1.77	\$0.07	\$2.48	\$3,534.00
MAST ARM FABRICATED	2	EACH	\$534.35	\$1,234.10	\$4.72	\$1,773.17	\$3,546.34
SIGNAL STANDARD 13'	6	EACH	\$485.80	\$353.17	\$11.77	\$850.74	\$5,104.44
RELOCATE 8" DW-W SIGNAL HOUSING	7	EACH	\$0.00	\$197.96	\$14.35	\$212.31	\$1,486.17
2.5" PVC CONDUIT (TRENCH)	200	PER LF	\$0.45	\$5.74	\$0.21	\$6.40	\$1,280.00
SAW CUT, BREAK OUT AND RESTORATION OF CONC.	1009	SQ FT	\$0.00	\$30.86	\$0.88	\$31.74	\$32,025.66
INSTALL AT31 POLE WITH LUMINAIRE	2	EACH	\$1,844.37	\$370.31	\$21.19	\$2,235.87	\$4,471.74
REMOVE EXISTING A31 POLE COMPLETE	1	EACH	\$0.00	\$282.91	\$16.04	\$298.95	\$298.95
FIBER OPTIC CHANGEABLE MESSAGE SIGN	2	EACH	\$615.00	\$79.18	\$5.82	\$700.00	\$1,400.00
SUB-TOTAL COST							\$133,342.92
ENGINEERING (10% of CONSTRUCTION COST)							\$13,334.29
<b>TOTAL COST FOR THIS SEGMENT</b>							<b>\$146,677.21</b>

#### Total for Traffic Signals

**\$190,659.74**

## Sign Estimate

Cost per unit is the sum of labor and materials per unit

### Work by City Forces

#### Wells and State - West of 6th

	Quantity	Labor Per Unit	Matl Per Unit	Cost Per Unit	Total Cost	
Wells Street from 6th to 10th	Refocus Signs	23	\$16.53	\$0.00	\$16.53	\$380.19
	Remove Signs	23	\$8.27	\$0.00	\$8.27	\$190.21
	New Signs	5	\$33.19	\$11.74	\$44.93	\$224.65
Wells - 6th to 10th					\$795.05	

State Street from 6th to 12th	Refocus Signs	24	\$16.53	\$0.00	\$16.53	\$396.72
	Remove Signs	19	\$8.27	\$0.00	\$8.27	\$157.04
	New Signs	5	\$33.19	\$11.74	\$44.93	\$224.65
State - from 6th to 12th					\$778.41	

Engineering \$1,500.00  
**Total Cost for this Segment \$3,073.46**

### Work by City Forces

#### Wells and State - East of 6th

	Quantity	Labor Per Unit	Matl Per Unit	Cost Per Unit	Total Cost	
Wells Street from Prospect to 6th	Refocus Signs	44	\$16.53	\$0.00	\$16.53	\$727.32
	Remove Signs	72	\$8.27	\$0.00	\$8.27	\$595.08
	New Signs	15	\$33.19	\$11.74	\$44.93	\$673.95
Wells - for Prospect to 6th					\$1,996.35	

State Street from Van Buren to 6th	Refocus Signs	46	\$16.53	\$0.00	\$16.53	\$760.38
	Remove Signs	48	\$8.27	\$0.00	\$8.27	\$396.72
	New Signs	15	\$33.19	\$11.74	\$44.93	\$673.95
State - Van Buren to 6th					\$1,831.05	

Engineering \$2,000.00  
**Total Cost for this Segment \$5,827.40**

**Total Signs Cost \$8,900.86**

## Geometric Changes Estimate

### Construction by Contractor, Engineering by City Forces

#### Wells and State - East of 6th

Removal of Curb Push-outs on W. Wells between N. 4th and N. 6th under Midwest Airlines Center

Quantity	Unit	Item	Cost Per Unit	Subtotal
74	cu yds	Cutting	\$25.00	\$1,850.00
1770	sq ft	Concrete Walk and/or Driveway Removal	\$1.00	\$1,770.00
270	lin ft	Curb and/or Curb and Gutter Removal	\$7.00	\$1,890.00
230	lin ft	Sawing	\$2.00	\$460.00
230	lin ft	Concrete Curb and/or Curb and Gutter	\$28.00	\$6,440.00
155	sq yds	Sealing Pavement Joints and Cracks	\$1.00	\$155.00
462	sq ft	5" Concrete Walk	\$5.00	\$2,310.00
100	sq ft	7" Concrete Driveway	\$6.50	\$650.00
155	sq yds	9" Concrete Pavement	\$45.00	\$6,975.00
30	tons	Gravel Filling	\$25.00	\$750.00
1	lump sum	Erosion Control	\$250.00	\$250.00
1	lump sum	Traffic Control	\$1,500.00	\$1,500.00
1	lump sum	Mobilization	\$2,500.00	\$2,500.00
1	lump sum	Finishing Roadway	\$500.00	\$500.00

Estimated Construction Cost    \$28,000.00  
 Engineering and Contingencies    \$8,500.00  
**Total Cost for this Segment    \$36,500.00**

#### Wells and State - East of 6th

Closing Left Turn Lane at W. Wells and N. Plankinton

Quantity	Unit	Item	Cost Per Unit	Subtotal
50	sq yds	Pavement Removal	\$10.00	\$500.00
380	sq ft	Concrete Walk and/or Driveway Removal	\$1.00	\$380.00
60	lin ft	Curb and/or Curb and Gutter Removal	\$7.00	\$420.00
20	lin ft	Sawing	\$2.00	\$40.00
80	lin ft	Concrete Curb and/or Curb and Gutter	\$28.00	\$2,240.00
850	sq ft	5" Concrete Walk	\$5.00	\$4,250.00
11	sq yds	8" Concrete Base	\$30.00	\$330.00
11	tons	Variable Thickness Asphalt Concrete Pvt	\$100.00	\$1,100.00
2	gallons	Tack Coat	\$2.50	\$5.00
10	sq yds	Sodding	\$25.00	\$250.00
1	cu yds	Top Soil	\$25.00	\$25.00
1	vert ft	Sewer Frame Adjustment	\$350.00	\$350.00
180	sq ft	Concrete Traffic Island Removal	\$2.00	\$360.00
40	tons	Gravel Filling	\$25.00	\$1,000.00
1	lump sum	Erosion Control	\$250.00	\$250.00
1	lump sum	Traffic Control	\$1,000.00	\$1,000.00
1	lump sum	Mobilization	\$2,500.00	\$2,500.00
1	lump sum	Finishing Roadway	\$500.00	\$500.00

Estimated Construction Cost    \$15,500.00  
 Engineering and Contingencies    \$4,700.00  
**Total Cost for this Segment    \$20,200.00**

### Total Geometric Changes Costs

**\$56,700.00**

**Pavement Marking/Traffic Control Estimate**

Cost per unit is the sum of labor, equipment, and materials per unit.

**Work by Contractor: Wells and State - West of 6th**

		Quantity		Labor and Equip Per Unit	Matl Per Unit	Cost Per Unit	Subtotal
Eradication	Wells Street Eradication	1170	lin. ft. Long Line			\$2.00	\$2,340.00
		110	lin. ft. Stoplines			\$2.00	\$220.00
		2	Arrows			\$60.00	\$120.00
		2	"Only"			\$60.00	\$120.00
	State Street Eradication	860	lin. ft. Long Line			\$2.00	\$1,720.00
		65	lin. ft. Stoplines			\$2.00	\$130.00
		2	Arrows			\$60.00	\$120.00
		2	"Only"			\$60.00	\$120.00
Total for Eradication							\$4,890.00
Traffic Control	Traffic Drums with Arrows	18	drums 90 days			\$1.00	\$1,620.00
							\$1,620.00

**Work by City Forces: Wells and State - West of 6th**

		Quantity		Labor and Equip Per Unit	Matl Per Unit	Cost Per Unit	Subtotal
Paint Installation	Wells Street Installation	2180	lin. ft. Long Line	\$0.07	\$0.03	\$0.10	\$218.00
		5	each Stoplines	\$28.00	\$2.00	\$30.00	\$150.00
		3	Arrows	\$28.00	\$2.00	\$30.00	\$90.00
		3	"Only"	\$28.00	\$2.00	\$30.00	\$90.00
	State Street Installation	2940	lin. ft. Long Line	\$0.07	\$0.03	\$0.10	\$294.00
		5	each Stoplines	\$28.00	\$2.00	\$30.00	\$150.00
		3	Arrows	\$28.00	\$2.00	\$30.00	\$90.00
		3	"Only"	\$28.00	\$2.00	\$30.00	\$90.00
Total for Paint Installation							\$1,172.00
Engineering	Engineering	25	hrs	\$25.00	\$0.00	\$25.00	\$625.00
	Field Work - Pre-installation	20	hrs	\$50.00	\$0.00	\$50.00	\$1,000.00
	Field Work - During installation	8	hrs	\$50.00	\$0.00	\$50.00	\$400.00
	Total for Engineering						
Island Removal	Small Island Removal	1	each	\$600.00	\$400.00	\$1,000.00	\$1,000.00

**Subtotal Wells and State - West of 6th**

**\$10,707.00**

**Work by Contractor: Wells and State - East of 6th**

		Quantity		Labor and Equip Per Unit	Matl Per Unit	Cost Per Unit	Subtotal
Eradication	Wells Street Eradication	3500	lin. ft. Long Line			\$2.00	\$7,000.00
		245	lin. ft. Stoplines			\$2.00	\$490.00
		2	Arrows			\$60.00	\$120.00
		2	"Only"			\$60.00	\$120.00
	State Street Eradication	965	lin. ft. Long Line			\$2.00	\$1,930.00
		115	lin. ft. Stoplines			\$2.00	\$230.00
		1	Arrows			\$60.00	\$60.00
		1	"Only"			\$60.00	\$60.00
Total for Eradication							\$10,010.00
Traffic Control	Traffic Drums with Arrows	52	drums 90 days			\$1.00	\$4,680.00
							\$4,680.00

**Work by City Forces: Wells and State - East of 6th**

		Quantity		Labor and Equip Per Unit	Matl Per Unit	Cost Per Unit	Subtotal
Paint Installation	Wells Street Installation	7005	lin. ft. Long Line	\$0.07	\$0.03	\$0.10	\$700.50
		11	each Stoplines	\$28.00	\$2.00	\$30.00	\$330.00
		4	Arrows	\$28.00	\$2.00	\$30.00	\$120.00
		4	"Only"	\$28.00	\$2.00	\$30.00	\$120.00
	State Street Installation	6440	lin. ft. Long Line	\$0.07	\$0.03	\$0.10	\$644.00
		6	each Stoplines	\$28.00	\$2.00	\$30.00	\$180.00
		2	Arrows	\$28.00	\$2.00	\$30.00	\$60.00
		2	"Only"	\$28.00	\$2.00	\$30.00	\$60.00
Total for Paint Installation							\$2,214.50
Engineering	Engineering	25	hrs	\$25.00	\$0.00	\$25.00	\$625.00
	Field Work - Pre-installation	20	hrs	\$50.00	\$0.00	\$50.00	\$1,000.00
	Field Work - During installation	8	hrs	\$50.00	\$0.00	\$50.00	\$400.00
	Total for Engineering						

**Subtotal Wells and State - East of 6th**

**\$18,929.50**

**Total Pavement Marking/Traffic Control Cost**

**\$29,636.50**