

## **APPENDIX 5: Road Improvement Cost Estimates**

**Civil Engineering**  
*Preliminary Opinion of Probable Cost*



**Northport**

**Project #:** LCVM0003

**Based on Plan:** Combined Scenario

**Dated:** 3/17/2014

**Prepared by:** KMG

**3rd Avenue, South Container Yard Entry**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	2,900	SY	\$2.50	\$7,250.00
	Remove Concrete Curb	400	LF	\$3.00	\$1,200.00
	Remove Catch Basin	1	EA	\$500.00	\$500.00
	Relocate Light Pole	1	EA	\$5,000.00	\$5,000.00
	Misc. Demo (trees, shrubs)	1	LS	\$2,500.00	\$2,500.00
	Relocate Mobile Home	1	LS	\$10,000.00	\$10,000.00
<b>Subtotal</b>					<b>\$26,950.00</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	550	CY	\$14.00	\$7,700.00
	Subgrade Prep	2,225	SY	\$1.50	\$3,337.50
	HMA, 4" Thick	2,225	SY	\$19.00	\$42,275.00
	Crushed Surfacing Base Course	500	CY	\$40.00	\$20,000.00
	Standard Curb	370	LF	\$16.00	\$5,920.00
	Utility Adjustments	5	EA	\$250.00	\$1,250.00
	Catch Basin	1	EA	\$1,500.00	\$1,500.00
	Storm Pipe	20	LF	\$32.00	\$640.00
<b>Subtotal</b>					<b>\$82,622.50</b>

Sub-total	\$	109,573
Mobilization (10%)	\$	10,957
Contingency (20%)	\$	24,106
Engineering (25%)	\$	33,420

<b>TOTAL (3rd Avenue, South Container Yard Entry)</b>	<b>\$</b>	<b>178,055</b>
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**Dated:** 3/17/2014

**Prepared by:** KMG

**Construct New Roadway Between 6th & 7th (14th Street)**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	3,250	SY	\$2.50	\$8,125.00
	Remove Concrete Curb	975	LF	\$3.00	\$2,925.00
	Misc. Demo	1	LS	\$1,500.00	\$1,500.00
<b>Subtotal</b>					<b>\$13,050.00</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	460	CY	\$14.00	\$6,440.00
	Subgrade Prep	1,840	SY	\$1.50	\$2,760.00
	HMA, 4" Thick	1,840	SY	\$19.00	\$34,960.00
	Crushed Surfacing Base Course	410	CY	\$40.00	\$16,400.00
	Standard Curb	790	LF	\$16.00	\$12,640.00
	Stormwater Improvements	1	LS	\$10,000.00	\$10,000.00
	Rail Crossing Improvements	1	LS	\$8,000.00	\$8,000.00
<b>Subtotal</b>					<b>\$91,200.00</b>

Sub-total	\$	104,250
Mobilization (10%)	\$	10,425
Contingency (20%)	\$	22,935
Engineering (25%)	\$	31,796

<b>TOTAL (New Roadway Between 6th &amp; 7th (14th Street))</b>	<b>\$</b>	<b>169,406</b>
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**Dated:** 3/17/2014

**Prepared by:** KMG

**Vacate 15th Street between 6th & 7th, close between 3rd & 6th**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	275	SY	\$2.50	\$687.50
	Remove Concrete Curb	400	LF	\$3.00	\$1,200.00
	Relocate Catch Basins	5	EA	\$2,000.00	\$10,000.00
<b>Subtotal</b>					<b>\$12,387.50</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	100	CY	\$14.00	\$1,400.00
	Misc. Asphalt Patch	1	LS	\$5,000.00	\$5,000.00
	Concrete Driveway Approach, 6" thick	27	SY	\$45.00	\$1,215.00
	Crushed Surfacing Base Course	10	CY	\$40.00	\$400.00
	Standard Curb	440	LF	\$16.00	\$7,040.00
<b>Subtotal</b>					<b>\$15,055.00</b>

Sub-total	\$	27,443
Mobilization (10%)	\$	2,744
Contingency (20%)	\$	6,037
Engineering (25%)	\$	8,370

<b>TOTAL (Vacate 15th Street between 6th &amp; 7th, close between 3rd &amp; 6th)</b>	<b>\$</b>	<b>44,594</b>
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**Prepared by:** KMG

**Close 7th Avenue at 18th Street**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	135	SY	\$2.50	\$337.50
	Regrade Area	1	LS	\$3,500.00	\$3,500.00
	Remove Street Sign	1	EA	\$250.00	\$250.00
<b>Subtotal</b>					<b>\$4,587.50</b>

Sub-total	\$	4,588
Mobilization (10%)	\$	459
Contingency (20%)	\$	1,009
Engineering (0%)	\$	-

<b>TOTAL (Close 7th Avenue at 18th Street)</b>	<b>\$</b>	<b>6,056</b>
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**Northport**

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**Prepared by:** KMG

**18th and SR 128 Intersection Modifications**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	1,100	SY	\$2.50	\$2,750.00
	Remove Concrete Driveway	46	SY	\$6.00	\$276.00
	Remove Concrete Curb	220	LF	\$3.00	\$660.00
	Remove Catch Basin	1	EA	\$500.00	\$500.00
	Relocate Light Pole	1	EA	\$5,000.00	\$5,000.00
	Misc. Demo (trees, shrubs, signs)	1	LS	\$1,000.00	\$1,000.00
<b>Subtotal</b>					<b>\$10,686.00</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	300	CY	\$14.00	\$4,200.00
	Subgrade Prep	765	SY	\$1.50	\$1,147.50
	Concrete Driveway Approach, 6" thick	46	SY	\$45.00	\$2,070.00
	HMA, 4" Thick	765	SY	\$19.00	\$14,535.00
	Crushed Surfacing Base Course	370	CY	\$40.00	\$14,800.00
	Standard Curb	200	LF	\$16.00	\$3,200.00
	Utility Adjustments	1	EA	\$250.00	\$250.00
	Catch Basin	1	EA	\$1,500.00	\$1,500.00
	Storm Pipe	40	LF	\$32.00	\$1,280.00
	Landscape Restoration	1	LS	\$7,500.00	\$7,500.00
	Signage and Striping	1	LS	\$3,500.00	\$3,500.00
<b>Subtotal</b>					<b>\$53,982.50</b>

Sub-total	\$	64,669
Mobilization (10%)	\$	6,467
Contingency (20%)	\$	14,227
Engineering (25%)	\$	19,724

<b>TOTAL (18th and SR 128 Intersection Modifications)</b>	<b>\$</b>	<b>105,086</b>
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**Prepared by:** KMG

**20th and SR 128 Intersection Modifications**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	2,000	SY	\$2.50	\$5,000.00
	Remove Concrete Curb	150	LF	\$3.00	\$450.00
	Remove Concrete Driveway	33	SY	\$6.00	\$198.00
	Misc. Demo (trees, shrubs, signs)	1	LS	\$3,500.00	\$3,500.00
<b>Subtotal</b>					<b>\$9,648.00</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	300	CY	\$14.00	\$4,200.00
	Subgrade Prep	1,695	SY	\$1.50	\$2,542.50
	HMA, 4" Thick	1,695	SY	\$19.00	\$32,205.00
	Crushed Surfacing Base Course	375	CY	\$40.00	\$15,000.00
	Standard Curb	650	LF	\$16.00	\$10,400.00
	Catch Basin	1	EA	\$1,500.00	\$1,500.00
	Storm Pipe	40	LF	\$32.00	\$1,280.00
	Signage and Striping	1	LS	\$2,500.00	\$2,500.00
<b>Subtotal</b>					<b>\$69,627.50</b>

Sub-total	\$	79,276
Mobilization (10%)	\$	7,928
Contingency (20%)	\$	17,441
Engineering (25%)	\$	24,179

<b>TOTAL (20th and SR 128 Intersection Modifications)</b>	<b>\$</b>	<b>128,823</b>
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**Prepared by:** KMG

**18th Street Improvements**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	6,500	SY	\$2.50	\$16,250.00
	Remove Concrete Curb	250	LF	\$3.00	\$750.00
	Misc. Demo (trees, shrubs, signs)	1	LS	\$1,000.00	\$1,000.00
<b>Subtotal</b>					<b>\$18,500.00</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	2,150	CY	\$14.00	\$30,100.00
	Traffic Control	1	LS	\$15,000.00	\$15,000.00
	Subgrade Prep	5,910	SY	\$1.50	\$8,865.00
	Concrete Driveway Approach, 6" thick	160	SY	\$45.00	\$7,200.00
	Concrete Sidewalk	1,700	SY	\$35.00	\$59,500.00
	ADA Ramp	10	EA	\$1,000.00	\$10,000.00
	HMA, 4" Thick	5,910	SY	\$19.00	\$112,290.00
	Crushed Surfacing Base Course	1,970	CY	\$40.00	\$78,800.00
	Curb and Gutter	2,560	LF	\$22.00	\$56,320.00
	Utility Adjustments	6	EA	\$250.00	\$1,500.00
	Catch Basin	8	EA	\$1,500.00	\$12,000.00
	Storm Pipe	250	LF	\$32.00	\$8,000.00
	Landscape Restoration	1	LS	\$5,000.00	\$5,000.00
	Signage and Striping	1	LS	\$15,000.00	\$15,000.00
<b>Subtotal</b>					<b>\$419,575.00</b>

Sub-total	\$	438,075
Mobilization (10%)	\$	43,808
Contingency (20%)	\$	96,377
Engineering (25%)	\$	133,613

<b>TOTAL (18th Street Improvements)</b>	<b>\$</b>	<b>711,872</b>
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**Dated:** 3/17/2014

**Prepared by:** KMG

**20th Street Improvements**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	4,400	SY	\$2.50	\$11,000.00
	Remove Concrete Curb	600	LF	\$3.00	\$1,800.00
	Misc. Demo (trees, shrubs, signs)	1	LS	\$2,500.00	\$2,500.00
<b>Subtotal</b>					<b>\$15,800.00</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	2,000	CY	\$14.00	\$28,000.00
	Traffic Control	1	LS	\$15,000.00	\$15,000.00
	Subgrade Prep	6,205	SY	\$1.50	\$9,307.50
	Concrete Driveway Approach, 6" thick	80	SY	\$45.00	\$3,600.00
	Concrete Sidewalk	485	SY	\$35.00	\$16,975.00
	HMA, 4" Thick	5,355	SY	\$19.00	\$101,745.00
	HMA, 2" Thick (10' Multi Use Path)	850	SY	\$12.00	\$10,200.00
	Crushed Surfacing Base Course	1,925	CY	\$40.00	\$77,000.00
	Curb and Gutter	2,120	LF	\$22.00	\$46,640.00
	Catch Basin	4	EA	\$1,500.00	\$6,000.00
	Storm Pipe	150	LF	\$32.00	\$4,800.00
	Landscape Restoration	1	LS	\$2,500.00	\$2,500.00
	Signage and Striping	1	LS	\$5,000.00	\$5,000.00
<b>Subtotal</b>					<b>\$326,767.50</b>

Sub-total	\$	342,568
Mobilization (10%)	\$	34,257
Contingency (20%)	\$	75,365
Engineering (25%)	\$	104,483

<b>TOTAL (20th Street Improvements)</b>	<b>\$</b>	<b>556,672</b>
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**Northport**

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**Dated:** 3/17/2014

**Prepared by:** KMG

**Access Modifications**

Item #	Description	Quantity	Unit	Unit Price	Total
<b>1</b>	<b>Demolition</b>				
	Sawcut	1	LS	\$500.00	\$500.00
	Remove Asphalt Pavement	185	SY	\$2.50	\$462.50
	Remove Concrete Approach	200	SY	\$6.00	\$1,200.00
	Remove Concrete Curb	100	LF	\$3.00	\$300.00
<b>Subtotal</b>					<b>\$2,462.50</b>
<b>2</b>	<b>Site Work</b>				
	Excavation incl. haul	120	CY	\$14.00	\$1,680.00
	Subgrade Prep	650	SY	\$1.50	\$975.00
	HMA, 4" Thick	650	SY	\$19.00	\$12,350.00
	HMA, 2" Thick (10' Multi Use Path)	700	SY	\$12.00	\$8,400.00
	Crushed Surfacing Base Course	250	CY	\$40.00	\$10,000.00
	Concrete Curb	100	LF	\$15.00	\$1,500.00
	Landscape Restoration	1	LS	\$2,500.00	\$2,500.00
<b>Subtotal</b>					<b>\$37,405.00</b>

Sub-total	\$	39,868
Mobilization (10%)	\$	3,987
Contingency (20%)	\$	8,771
Engineering (25%)	\$	12,160

<b>TOTAL (Access Modifications)</b>	<b>\$</b>	<b>64,785</b>
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