OLSSON ASSOCIATES

MEMO

☐	Overnight
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x	Other: Email

TO:	Kent R. Morgan Assistant Planning Director – City of Lincoln
FROM:	John S. Olsson JSO
RE:	TEUP Cost Opinion – V3
DATE:	January 6, 2009
PROJECT #:	008-0645

NOTES:

Kent:

Attached is an updated cost opinion for improvements associated with the TEUP project. Notable revisions made since our last submittal on December 5th are as follows:

- **Transportation** – Added costs for road improvements near 10th and "N" St. as well as improvements along 7th St. and for the USPS. Also added the Ice Center drop-off. Transportation improvements proposed in the core area are shown on the map - pg. 5 of the attachment.
- **Railroad/Environmental** – Added the BNSF costs from their 12/16/08 letter for signal, utilities, communication and misc. Still using HWS estimates for track work since this is still being negotiated and their number appears to be more representative of non-betterment work. This section will need further updating after next weeks conf. call.
- **Stormwater/Floodplain** – Updated quantities for current flood storage areas and removed Oak Lake and the Dog Run area from the project. Excavated material for creation of flood storage will be used as roadway embankment, and the balance will be hauled off for disposal. If the excavated material is deemed to be acceptable for pad site fill, then some cost savings could be realized.
- **Wetlands** – Added wetland plantings around the perimeter of Oak Lake as well as an interpretive trail in the new wetland area west of the "X" yard.
- **Utilities** – Provided a looped water line around the arena and updated fiber relocation costs based on some recent estimates. Also deleted the stormwater force main for Oak Lake supply pipe.
- **Floodplain Restoration/Recreation Fields** – Removed from the TEUP estimate.
- **Contingencies and Soft Costs** – Removed contingency and soft costs from items priced directly by BNSF or UP since their costs are "all-in" numbers.

cc: Mr. Jim Linderholm, HWS
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Executive Cost Summary - TEUP

West Haymarket Redevelopment
Transportation, Environmental and Utilities Planning
Conceptual Level - Opinion of Cost
OA Project No. 008-0645

PART A - CONSTRUCTION

	Confidence *	Cost	Comments
Transportation/Traffic (1)			
Sun Valley Blvd. (incremental as caused by project)	1	$539,500	
Sun Valley Blvd. ROW	3	$75,000	
Sun Valley - Charleston Roadway Connection	1	$3,850,600	
10th and Backbone Road - Double Roundabouts	1	$1,680,200	
North Arena Drive - "R" to 10th St	1	$1,364,900	
South Arena Drive - "R" to "N" St	1	$1,000,200	
R St. and 7th St	1	$1,199,600	
Q St.	1	$578,400	
P St.	1	$440,700	
Ice Center Drop-off	1	$347,000	
M & N Streets	1	$1,349,100	
Canopy Roadway	1	$1,388,700	
South Surface Parking Lots	1	$1,362,200	
10th and N St. Improvements	1	$359,300	
Trunk Storm Sewer for Haymarket West Area	1	$1,240,300	
Haymarket Parking Lot	1	$3,806,400	
Harris Overpass Underdecking (pigeon control)	0	$60,000	
Remote Dynamic Message Signage	1	$2,450,000	
Development of West Haymarket Ped Sites (Fill)	3	$1,931,100	
Subtotal Construction - Transportation/Traffic		$25,941,400	
Railroad (2)			
BNSF Land Acquisition - core		???	
BNSF Land Acquisition - proximate areas		???	
UP Land Acquisition - whye track		???	
UP Land Acquisition - wetland enhancements		???	
Canopy Rehabilitation	1	$177,000	
Construction for BNSF Track Operations	1	$13,554,500	*HWS - currently being negotiate*
Other BNSF Railroad System Costs			
Maintenance Bldgs. & Amtrak Station		$2,500,000	*est. by Architects*
BNSF - signal, utilities, comm. & misc.		$16,314,700	*** BNSF cost*
UP Track Mods. West of Bridge		$1,030,000	*** UPRR cost*
Subtotal Construction - Railroad		$33,576,200	
Environmental			
North Area - "R" St. North [illegible] Tracks	2	$815,000	
South Area - Rail Yard [illegible] St. to "O" St	3	$1,750,000	
South Area - "O" St. South			
JayLynn & North Aller		???	
Primary Aller & BNSF ROW Subarea		???	
West Area - Roundhouse Area	3	$300,000	curtain wall needed - not inc.?
West Area - New Rail Facilities + Amtrak		???	
Subtotal Construction - Environmental		$2,865,000	
Stormwater/Floodplain (4)			
Floodplain Mitigation Site Mass Grading	3	$2,840,400	
Disposal Fee Surplus Material	3	$2,387,400	
TCW Land Acquisition for Flood Storage		???	
Drainage Structures	1	$360,400	
Subtotal Construction - Stormwater/Floodplain		$5,588,200	

Work in Progress

West Haymarket Redevelopment
Transportation, Environmental and Utilities Planning
Conceptual Level - Opinion of Cost
OA Project No. 008-0645

PART A - CONSTRUCTION (cont.)

Wetland Mitigation (5)		
Preparation	2	$15,000
Seeding & Plantings (20 ac. +)	2	$105,000
Interpretive Trail		$18,000
Subtotal Construction - Wetland Mitigation		**$138,000**
Utilities (6)		
Water	1	$616,600
Sanitary Sewer	1	$1,692,400
Festival Area	1	$15,700
LES	2	$385,000
Q West	2	$290,100
Verizon	2	$236,600
Oak Lake Force Main	1	$0
Subtotal Construction - Utilities		**$3,838,600**
Floodplain Restoration to [illegible] Redevelopment (east of 1st/SVB)		
Phase I - North of Oak [illegible] Pfizer)	2	$0
Phase II - West Oak Lake	2	$0
Phase III - South Area	2	$0
Nature Trail - Bike Trail	2	$0
Subtotal Construction - Recreational Enhancements		**$0**

Work in Progress

PART B - INCLUSION OF CONTINGENCIES AND SOFT COSTS

Construction Subtotal	$71,745,400
Construction Contingencies (15%) **	$8,160,105
Total Estimated Construction Cost **	$79,905,505
Estimated Final Engineering Design Costs (10% of Const.) **	$8,258,081
Estimated City Administrative Costs (1% of Const.) **	$625,608
Estimated Construction Engineering Costs (14% of Construction) **	$3,758,513
Total Estimated Right-of-Way & Land Cost	???
Total Opinion of TEUP related Costs - 2008	$95,545,706

Assuming Average Construction Inflation Rate = 8.00%

Project Cost at 2010	$111,444,512
Project Cost at 2011	$120,360,073
Project Cost at 2012	$129,988,879
Project Cost at 2013	$140,387,989
Project Cost at 2014	$151,619,028

** 1= high, 3=low*

*** - Railroad costs shown in Part A are all inclusive. Additional markup for contingencies and softcosts not applicable in Part B.*

Notes

(1) Includes storm sewer associated with conveying roadway drainage
(2) To include rail and assoc. bldgs., ir comm. and storm sewer in rail area
(3) Making the area useable for future use and returning to existing conditions
(4) To include necessary grading to achieve desired flood storage
(5) Does not include flood storage/wetland creation on TCW prop.
(6) Includes all private utilities except those associated with railroad operations

TRANSPORTATION/TRAFFIC

PRELIMINARY PLAN
LEGEND
OLSSON ASSOCIATES

SUMMARY OF WEST HAYMARKET PROBABLE TRANSPORATION COSTS

Opinion of Cost Updated December 22, 2008

Project Component	Construction (W/O Contingency)	Contingency (15%)	Total Estimated Construction Cost	Preliminary Engineering	City Administrative Costs	Construction Engineering	Right-of-Way Costs	Total CIP Cost
Sun Valley Boulevard Improvements	539,472.25	80,920.84	620,393.09	62,039.31	8,203.93	86,855.00	75,000.00	850,491.36
Sun Valley - Charleston Roadway Connection	3,850,588.75	577,595.31	4,428,184.06	442,815.41	44,281.54	619,941.57	0.00	5,535,182.58
10th/Salt Creek Roadway and Arena Drive - Double Roundabouts	1,690,220.00	252,033.00	1,942,253.00	193,225.30	19,322.53	270,515.42	0.00	2,425,316.25
North Arena Drive - 10th to 'R' Street	1,354,900.00	204,735.45	1,559,635.45	156,963.85	15,698.38	219,749.38	0.00	1,952,048.06
South Arena Drive - 'R' to 'N' Streets	1,900,220.00	285,033.00	2,185,253.00	218,525.30	21,852.53	305,935.42	0.00	2,731,566.25
"R" Street and 7th Street	1,199,708.25	179,965.24	1,379,733.49	137,973.35	13,797.33	193,162.69	0.00	1,724,666.86
"Q" Street	576,440.25	86,766.04	663,206.29	66,520.63	6,652.06	93,128.88	0.00	831,507.86
"P" Street	440,685.00	66,102.75	506,787.75	50,678.78	5,067.88	70,950.29	0.00	633,484.69
Ice Center Drop Off	348,994.75	52,049.21	399,043.96	39,904.40	3,990.44	55,866.15	0.00	498,804.95
"M" and N" Street Roadways	1,349,066.00	202,359.90	1,551,425.90	155,142.59	15,514.26	217,199.63	0.00	1,939,282.38
Canopy Road	1,356,682.25	208,002.34	1,564,684.59	156,468.46	15,646.85	223,256.84	0.00	1,993,055.73
South Surface Parking Lots	1,362,211.00	204,331.65	1,566,542.65	156,654.27	15,665.43	219,315.97	0.00	1,958,178.31
10th and N Street Improvements	359,310.50	53,896.58	413,207.08	41,320.71	4,132.07	57,848.99	0.00	516,508.84
Trunk Storm Sewer For Haymarket West Area	1,240,315.00	186,047.25	1,426,362.25	142,636.23	14,263.62	199,690.72	0.00	1,782,952.81
Haymarket Parking Lot	3,806,416.25	570,962.44	4,377,378.69	437,737.87	43,773.79	612,833.02	0.00	5,471,723.36
Dynamic Message Sign	2,450,000.00	367,500.00	2,817,500.00	281,750.00	26,175.00	394,450.00	0.00	3,521,875.00
Development Pad Sites	1,931,500.00	289,685.00	2,220,785.00	222,076.50	22,207.65	310,907.10	0.00	2,775,956.25
Totals	25,786,373.25	3,867,955.99	29,654,329.24	2,965,432.92	296,543.29	4,151,606.09	75,000.00	37,142,911.55

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Sun Valley Boulevard Improvements

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Pavement Removal	Sq. Yd.	1,338.00	5.00	6,690.00
10" P.C. Concrete Pavement	Sq. Yd.	10,326.00	41.00	423,366.00
6" Concrete Driveway	Sq. Ft.	1,177.00	4.25	5,002.25
5" Concrete Bikeway	Sq. Ft.	5,060.00	4.00	20,240.00
4" Concrete Sidewalk	Sq. Ft.	264.00	3.75	990.00
Concrete Median Surfacing	Sq. Ft.	3,771.00	4.00	15,084.00
Pavement Markings and Signing	Lump Sum	1.00	3,100.00	3,100.00
Erosion Control Items/Seeding	Lump Sum	0.00	0.00	0.00
			Roadway, Grading and Miscellaneous Items =	474,472.25

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Traffic Signal Modification	Lump Sum	1.00	65,000.00	65,000.00
			Traffic Signal and ITS =	65,000.00

Subtotal Construction =	539,472
Construction Contingencies (15%) =	80,921
Total Estimated Construction Cost =	620,393
Estimated Final Engineering Design Costs (10% of Construction) =	62,039
Estimated City Administrative Costs (1% of Construction) =	6,204
Estimated Construction Engineering Costs (14% of Construction) =	86,855
Total Estimated Right-of-Way Cost =	75,000
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	850,491

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Sun Valley - Charleston Roadway Connection

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	300,000.00	300,000.00
Construction Staking	Lump Sum	1.00	60,000.00	60,000.00
General Clearing and Grubbing	Lump Sum	1.00	15,000.00	15,000.00
Pavement and Sidewalk Removal	Cu. Yd.	3,622.00	16.00	57,952.00
Miscellaneous Removals	Lump Sum	1.00	5,000.00	5,000.00
Bridge Removal	Lump Sum	1.00	75,000.00	75,000.00
Sawing	Lin. Ft.	2,179.00	4.00	8,716.00
Earthwork Measured as Embankment	Cu. Yd.	15,000.00	10.00	150,000.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
9" P.C. Concrete Pavement	Sq. Yd.	12,456.00	38.50	479,556.00
6" Concrete Driveway	Sq. Ft.	1,479.00	4.25	6,285.75
5" Concrete Bikeway	Sq. Ft.	15,246.00	4.00	60,984.00
4" Concrete Sidewalk	Sq. Ft.	1,544.00	3.75	5,790.00
Temporary Surfacing	Sq. Yd.	1,000.00	50.00	50,000.00
Asphalt Concrete Surface Course	Tons	290.00	75.00	21,750.00
Combined Curb and Gutter	Lin. Ft.	404.00	15.00	6,060.00
Concrete for Retaining Walls	Cu. Yd.	130.00	500.00	65,000.00
ReSteel for Retaining Walls	Lbs	17,500.00	1.25	21,875.00
Pavement Markings and Signing	Lump Sum	1.00	10,900.00	10,900.00
Erosion Control Items/Seeding	Lump Sum	1.00	40,000.00	40,000.00
Roadway Lighting	Lump Sum	1.00	90,000.00	90,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	15,000.00	15,000.00
			Roadway, Grading and Miscellaneous Items =	**1,552,368.75**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
36" RCP Storm Sewer Pipe	Lin. Ft.	800.00	90.00	72,000.00
30" RCP Storm Sewer Pipe	Lin. Ft.	800.00	75.00	60,000.00

24" RCP Storm Sewer Pipe	Lin. Ft.	800.00	60.00	48,000.00
18" RCP Storm Sewer Pipe	Lin. Ft.	1,200.00	45.00	54,000.00
15" RCP Storm Sewer Pipe	Lin. Ft.	1,200.00	38.00	45,600.00
72" Storm Sewer Inlet	Each	24.00	2,500.00	60,000.00
Grate Inlet	Each	4.00	2,000.00	8,000.00
Storm Sewer Manhole	Each	10.00	5,000.00	50,000.00
Concrete for Collars, Plugs & Headwalls	Cu. Yd.	10.00	500.00	5,000.00
Storm Sewer Removals	Lump Sum	1.00	10,000.00	10,000.00
			Storm Sewer Items =	**412,600.00**

Water Main

Item Description	Unit	Quantity	Unit Price	Extension
Relocate Water Main	Lump Sum	0.00	0.00	0.00
			Water Main =	**0.00**

Bridge Items

Item Description	Unit	Quantity	Unit Price	Extension
New Salt Creetk Bridge - 280' Length x 66' Wide	Sq. Ft.	18,480.00	95.00	1,755,600.00
Bridge Approach Slabs/Guard Rail	Lump Sum	1.00	130,000.00	130,000.00
			Bridge Items =	**1,885,600.00**

Subtotal Construction =	**3,850,569**
Construction Contingencies (15%) =	**577,585**
Total Estimated Construction Cost =	**4,428,154**
Estimated Final Engineering Design Costs (10% of Construction) =	**442,815**
Estimated City Administrative Costs (1% of Construction) =	**44,282**
Estimated Construction Engineering Costs (14% of Construction) =	**619,942**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**5,535,193**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

10th/Salt Creek Roadway and Arena Drive - Double Roundabouts

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	125,000.00	125,000.00
Construction Staking	Lump Sum	1.00	30,000.00	30,000.00
General Clearing and Grubbing	Lump Sum	1.00	15,000.00	15,000.00
Pavement and Sidewalk Removal	Cu. Yd.	4,715.00	15.00	70,725.00
Miscellaneous Removals	Lump Sum	1.00	10,000.00	10,000.00
Pavement Sawing	Lin. Ft.	646.00	4.00	2,584.00
Excavation	Cu. Yd.	20,000.00	8.00	160,000.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
Asphalt Surfacing	Tons	765.00	75.00	57,375.00
9" P.C. Concrete Pavement	Sq. Yd.	10,920.00	38.50	420,420.00
9" Colored & Stamped Concrete (Truck Apron)	Sq. Yd.	850.00	60.00	51,000.00
5" Concrete Bikeway	Sq. Ft.	11,704.00	4.00	46,816.00
Concrete Median Surfacing	Sq. Ft.	615.00	4.00	2,460.00
Colored Concrete Median Surfacing	Sq. Ft.	10,965.00	5.00	54,825.00
Standard Monument Box (In Place)	Each	2.00	175.00	350.00
Adjust Valve Box to Grade	Each	4.00	150.00	600.00
Adjust Manhole to Grade	Each	4.00	275.00	1,100.00
Topsoil	Cu. Yd.	502.00	20.00	10,040.00
Temporary Surfacing	Sq. Yd.	800.00	50.00	40,000.00
Concrete for Retaining Walls	Cu. Yd.	65.00	500.00	32,500.00
ReSteel for Retaining Walls	Lbs	8,000.00	1.25	10,000.00
Fencing at BNSF (Remove/Replace)	Lin. Ft.	1,000.00	25.00	25,000.00
Railing at Champions Club	Lin. Ft.	225.00	175.00	39,375.00
Pavement Markings and Signing	Lump Sum	1.00	10,000.00	10,000.00
Erosion Control Items/Seeding	Lump Sum	1.00	30,000.00	30,000.00
Landscaping/Streetscape/Irrigation	Lump Sum	1.00	35,000.00	35,000.00
Roadway Lighting	Lump Sum	1.00	75,000.00	75,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	50,000.00	50,000.00

Roadway, Grading and Miscellaneous Items =	**1,412,670.00**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
30" RCP Storm Sewer Pipe	Lin. Ft.	850.00	75.00	63,750.00
24" RCP Storm Sewer Pipe	Lin. Ft.	300.00	60.00	18,000.00
18" RCP Storm Sewer Pipe	Lin. Ft.	400.00	45.00	18,000.00
15" RCP Storm Sewer Pipe	Lin. Ft.	400.00	38.00	15,200.00
72" Storm Sewer Inlet	Each	14.00	2,500.00	35,000.00
Grate Inlet	Each	2.00	1,800.00	3,600.00
Storm Sewer Manhole	Each	6.00	4,000.00	24,000.00
Concrete for Collars, Plugs & Headwalls	Cu. Yd.	5.00	500.00	2,500.00
Storm Sewer Removals	Lump Sum	1.00	50,000.00	50,000.00
			Storm Sewer Items =	**230,050.00**

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Permanent Traffic Counter	Lump Sum	1.00	7,500.00	7,500.00
			Traffic Signal and ITS =	**7,500.00**

Water Main

Item Description	Unit	Quantity	Unit Price	Extension
Water Main Reconstruction/Loops	Lump Sum	1.00	30,000.00	30,000.00
			Water Main =	**30,000.00**

Subtotal Construction =	**1,680,220**
Construction Contingencies (15%) =	**252,033**
Total Estimated Construction Cost =	**1,932,253**
Estimated Final Engineering Design Costs (10% of Construction) =	**193,225**
Estimated City Administrative Costs (1% of Construction) =	**19,323**
Estimated Construction Engineering Costs (14% of Construction) =	**270,515**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**2,415,316**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

North Arena Drive - 10th to 'R' Street

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	75,000.00	75,000.00
Construction Staking	Lump Sum	1.00	15,000.00	15,000.00
General Clearing and Grubbing	Lump Sum	1.00	7,500.00	7,500.00
Miscellaneous Removals	Lump Sum	1.00	10,000.00	10,000.00
Earthwork Measured as Embankment	Cu. Yd.	20,000.00	10.00	200,000.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
Asphalt Surfacing	Tons	70.00	75.00	5,250.00
9" P.C. Concrete Pavement	Sq. Yd.	12,267.00	38.50	472,279.50
6" Concrete Driveway	Sq. Ft.	5,342.00	4.25	22,703.50
5" Concrete Sidewalk/Bikeway	Sq. Ft.	24,605.00	4.00	98,420.00
Concrete for Retaining Walls	Cu. Yd.	30.00	500.00	15,000.00
ReSteel for Retaining Walls	Lbs	4,000.00	1.25	5,000.00
Fencing at BNSF	Lin. Ft.	2,050.00	25.00	51,250.00
Pavement Markings and Signing	Lump Sum	1.00	9,300.00	9,300.00
Erosion Control Items/Seeding	Lump Sum	1.00	30,000.00	30,000.00
Landscaping/Streetscape/Irrigation	Lump Sum	1.00	30,000.00	30,000.00
Bicycle Parking Facility (Trailhead)	Lump Sum	1.00	10,000.00	10,000.00
Roadway Lighting	Lump Sum	1.00	90,000.00	90,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	10,000.00	10,000.00
			Roadway, Grading and Miscellaneous Items =	**1,164,203.00**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
18" RCP Storm Sewer Pipe	Lin. Ft.	600.00	45.00	27,000.00
15" RCP Storm Sewer Pipe	Lin. Ft.	400.00	38.00	15,200.00
72" Storm Sewer Inlet	Each	14.00	2,500.00	35,000.00
Storm Sewer Manhole	Each	4.00	4,000.00	16,000.00
Concrete for Collars, Plugs & Headwalls	Cu. Yd.	5.00	500.00	2,500.00

Storm Sewer Removals	Lump Sum	1.00	5,000.00	5,000.00
			Storm Sewer Items =	100,700.00

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Dynamic Message / LED Sign	Each	2.00	50,000.00	100,000.00
			Traffic Signal and ITS =	100,000.00

Subtotal Construction =	1,364,903
Construction Contingencies (15%) =	204,735
Total Estimated Construction Cost =	1,569,638
Estimated Final Engineering Design Costs (10% of Construction) =	156,964
Estimated City Administrative Costs (1% of Construction) =	15,696
Estimated Construction Engineering Costs (14% of Construction) =	219,749
Total Estimated Right-of-Way Cost =	0
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	1,962,048

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

South Arena Drive - 'R' to 'N' Streets

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	75,000.00	75,000.00
Construction Staking	Lump Sum	1.00	15,000.00	15,000.00
General Clearing and Grubbing	Lump Sum	1.00	7,500.00	7,500.00
Miscellaneous Removals	Lump Sum	1.00	10,000.00	10,000.00
Earthwork Measured as Embankment	Cu. Yd.	20,000.00	10.00	200,000.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
9" P.C. Concrete Pavement	Sq. Yd.	11,652.00	38.50	448,602.00
Stamped Colored Concrete Sidewalk	Sq. Ft.	46,731.00	10.50	490,675.50
Colored Concrete Median Surfacing	Sq. Ft.	4,030.00	4.75	19,142.50
Standard Monument Box (In Place)	Each	5.00	175.00	875.00
Fencing	Lin. Ft.	1,683.00	25.00	42,075.00
Pavement Markings and Signing	Lump Sum	1.00	9,900.00	9,900.00
Erosion Control Items/Seeding	Lump Sum	1.00	30,000.00	30,000.00
Landscaping/Streetscape/Irrigation	Lump Sum	1.00	20,000.00	20,000.00
Bicycle Parking Facility (Trailhead)	Lump Sum	1.00	10,000.00	10,000.00
Roadway Lighting	Lump Sum	1.00	90,000.00	90,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	10,000.00	10,000.00
	Roadway, Grading and Miscellaneous Items =			**1,486,270.00**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
36" RCP Storm Sewer Pipe	Lin. Ft.	350.00	90.00	31,500.00
30" RCP Storm Sewer Pipe	Lin. Ft.	250.00	75.00	18,750.00
24" RCP Storm Sewer Pipe	Lin. Ft.	0.00	60.00	0.00
18" RCP Storm Sewer Pipe	Lin. Ft.	500.00	45.00	22,500.00
15" RCP Storm Sewer Pipe	Lin. Ft.	400.00	38.00	15,200.00
72" Storm Sewer Inlet	Each	14.00	2,500.00	35,000.00
Storm Sewer Manhole	Each	4.00	4,000.00	16,000.00

Jacking Storm Sewer Pipe	Lin. Ft.	0.00	0.00	0.00
Concrete for Collars, Plugs & Headwalls	Cu. Yd.	20.00	500.00	10,000.00
Storm Sewer Removals	Lump Sum	1.00	5,000.00	5,000.00
			Storm Sewer Items =	**153,950.00**

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Reversible Lane Signals	Lump Sum	4.00	40,000.00	160,000.00
Traffic Signal	Each	1.00	100,000.00	100,000.00
			Traffic Signal and ITS =	**260,000.00**

Subtotal Construction =	**1,900,220**
Construction Contingencies (15%) =	**285,033**
Total Estimated Construction Cost =	**2,185,253**
Estimated Final Engineering Design Costs (10% of Construction) =	**218,525**
Estimated City Administrative Costs (1% of Construction) =	**21,853**
Estimated Construction Engineering Costs (14% of Construction) =	**305,935**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**2,731,566**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

"R" Street and 7th Street

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	5,000.00	5,000.00
Construction Staking	Lump Sum	1.00	3,500.00	3,500.00
General Clearing and Grubbing	Lump Sum	1.00	500.00	500.00
Pavement and Sidewalk Removal	Cu. Yd.	2,778.00	16.00	44,448.00
Pavement Sawing	Lin. Ft.	455.00	4.00	1,820.00
Earthwork Measured as Embankment	Cu. Yd.	5,000.00	10.00	50,000.00
Removal of Unsuitable Material	Cu. Yd.	200.00	15.00	3,000.00
6" Concrete Driveway	Sq. Ft.	799.00	4.25	3,395.75
Stamped Colored 9" P.C. Concrete Pavement	Sq. Yd.	3,665.00	108.00	395,820.00
Stamped Colored Concrete Sidewalk	Sq. Ft.	41,919.00	10.50	440,149.50
5" Concrete Sidewalk	Sq. Ft.	7,164.00	5.00	35,820.00
6" Concrete at Parking Lot Reconstruction	Sq. Yd.	2,839.00	35.00	99,365.00
Temporary Surfacing	Sq. Yd.	250.00	50.00	12,500.00
Pavement Markings and Signing	Lump Sum	1.00	2,100.00	2,100.00
Erosion Control Items/Seeding	Lump Sum	1.00	5,000.00	5,000.00
Roadway Lighting	Lump Sum	1.00	25,000.00	25,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	5,000.00	5,000.00
			Roadway, Grading and Miscellaneous Items =	1,132,418.25

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
30" RCP Storm Sewer Pipe	Lin. Ft.	154.00	75.00	11,550.00
18" RCP Storm Sewer Pipe	Lin. Ft.	100.00	45.00	4,500.00
15" RCP Storm Sewer Pipe	Lin. Ft.	100.00	38.00	3,800.00
Grate/Trench Drain for Inverted Crown Road	Lin. Ft.	140.00	300.00	42,000.00
Grate Inlet	Each	1.00	2,500.00	2,500.00
Storm Sewer Removals	Lump Sum	1.00	3,000.00	3,000.00
			Storm Sewer Items =	67,350.00

Subtotal Construction =	1,199,768
Construction Contingencies (15%) =	179,965
Total Estimated Construction Cost =	1,379,733
Estimated Final Engineering Design Costs (10% of Construction) =	137,973
Estimated City Administrative Costs (1% of Construction) =	13,797
Estimated Construction Engineering Costs (14% of Construction) =	193,163
Total Estimated Right-of-Way Cost =	0
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	1,724,667

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

"Q" Street

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	5,000.00	5,000.00
Construction Staking	Lump Sum	1.00	3,500.00	3,500.00
General Clearing and Grubbing	Lump Sum	1.00	500.00	500.00
Pavement and Sidewalk Removal	Cu. Yd.	954.00	16.00	15,264.00
Pavement Sawing	Lin. Ft.	119.00	4.00	476.00
Earthwork Measured as Embankment	Cu. Yd.	5,000.00	10.00	50,000.00
Removal of Unsuitable Material	Cu. Yd.	200.00	15.00	3,000.00
9" P.C. Concrete Pavement	Sq. Yd.	1,203.00	38.50	46,315.50
8" P.C. Concrete Alley Pavement	Sq. Yd.	1,518.00	38.00	57,684.00
6" Concrete Driveway	Sq. Ft.	1,135.00	4.25	4,823.75
Stamped Colored Concrete Sidewalk	Sq. Ft.	27,480.00	10.50	288,540.00
Concrete Colored Median Surfacing	Sq. Ft.	92.00	4.75	437.00
Temporary Surfacing	Sq. Yd.	250.00	50.00	12,500.00
Pavement Markings and Signing	Lump Sum	1.00	2,100.00	2,100.00
Erosion Control Items/Seeding	Lump Sum	1.00	5,000.00	5,000.00
Roadway Lighting	Lump Sum	1.00	25,000.00	25,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	5,000.00	5,000.00
			Roadway, Grading and Miscellaneous Items =	**525,140.25**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
18" RCP Storm Sewer Pipe	Lin. Ft.	100.00	45.00	4,500.00
15" RCP Storm Sewer Pipe	Lin. Ft.	100.00	38.00	3,800.00
Grate/Trench Drain for Inverted Crown Road	Lin. Ft.	140.00	300.00	42,000.00
Storm Sewer Removals	Lump Sum	1.00	3,000.00	3,000.00
			Storm Sewer Items =	**53,300.00**

Subtotal Construction = 578,440

Construction Contingencies (15%) =	86,766
Total Estimated Construction Cost =	665,206
Estimated Final Engineering Design Costs (10% of Construction) =	66,521
Estimated City Administrative Costs (1% of Construction) =	6,652
Estimated Construction Engineering Costs (14% of Construction) =	93,129
Total Estimated Right-of-Way Cost =	0
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	831,508

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

"P" Street

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	5,000.00	5,000.00
Construction Staking	Lump Sum	1.00	2,000.00	2,000.00
General Clearing and Grubbing	Lump Sum	1.00	500.00	500.00
Earthwork Measured as Embankment	Cu. Yd.	3,000.00	10.00	30,000.00
Removal of Unsuitable Material	Cu. Yd.	200.00	15.00	3,000.00
9" P.C. Concrete Pavement	Sq. Yd.	1,284.00	38.50	49,434.00
Stamped Colored Concrete Sidewalk	Sq. Ft.	25,462.00	10.50	267,351.00
Pavement Markings and Signing	Lump Sum	1.00	2,100.00	2,100.00
Erosion Control Items/Seeding	Lump Sum	1.00	5,000.00	5,000.00
Roadway Lighting	Lump Sum	1.00	25,000.00	25,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	1,000.00	1,000.00
			Roadway, Grading and Miscellaneous Items =	390,385.00

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
18" RCP Storm Sewer Pipe	Lin. Ft.	100.00	45.00	4,500.00
15" RCP Storm Sewer Pipe	Lin. Ft.	100.00	38.00	3,800.00
Grate/Trench Drain for Inverted Crown Road	Lin. Ft.	140.00	300.00	42,000.00
			Storm Sewer Items =	50,300.00

Subtotal Construction =	440,685
Construction Contingencies (15%) =	66,103
Total Estimated Construction Cost =	506,788
Estimated Final Engineering Design Costs (10% of Construction) =	50,679
Estimated City Administrative Costs (1% of Construction) =	5,068
Estimated Construction Engineering Costs (14% of Construction) =	70,950
Total Estimated Right-of-Way Cost =	0
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	633,485

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Ice Center Drop Off

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	5,000.00	5,000.00
Construction Staking	Lump Sum	1.00	2,000.00	2,000.00
General Clearing and Grubbing	Lump Sum	1.00	500.00	500.00
Earthwork Measured as Embankment	Cu. Yd.	4,000.00	10.00	40,000.00
Removal of Unsuitable Material	Cu. Yd.	200.00	15.00	3,000.00
9" P.C. Concrete Pavement	Sq. Yd.	2,190.00	38.50	84,315.00
4" Concrete Sidewalk	Sq. Ft	26,577.00	3.75	99,663.75
Concrete Median Surfacing	Sq. Ft.	5,578.00	4.00	22,316.00
Pavement Markings and Signing	Lump Sum	1.00	2,100.00	2,100.00
Erosion Control Items/Seeding	Lump Sum	1.00	5,000.00	5,000.00
Roadway Lighting	Lump Sum	1.00	25,000.00	25,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	1,000.00	1,000.00
			Roadway, Grading and Miscellaneous Items =	**289,894.75**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
30" RCP Storm Sewer Pipe	Lin. Ft.	506.00	75.00	37,950.00
18" RCP Storm Sewer Pipe	Lin. Ft.	50.00	45.00	2,250.00
15" RCP Storm Sewer Pipe	Lin. Ft.	50.00	38.00	1,900.00
72" Storm Sewer Inlet	Each	6.00	2,500.00	15,000.00
			Storm Sewer Items =	**57,100.00**

Subtotal Construction =	**346,995**
Construction Contingencies (15%) =	**52,049**
Total Estimated Construction Cost =	**399,044**
Estimated Final Engineering Design Costs (10% of Construction) =	**39,904**
Estimated City Administrative Costs (1% of Construction) =	**3,990**
Estimated Construction Engineering Costs (14% of Construction) =	**55,866**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**498,805**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

"M" and N" Street Roadways

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	100,000.00	100,000.00
Construction Staking	Lump Sum	1.00	15,000.00	15,000.00
General Clearing and Grubbing	Lump Sum	1.00	5,000.00	5,000.00
Pavement and Sidewalk Removal	Cu. Yd.	3,630.00	15.00	54,450.00
Miscellaneous Removals	Lump Sum	1.00	5,000.00	5,000.00
Pavement Sawing	Lin. Ft.	441.00	4.00	1,764.00
Earthwork Measured as Embankment	Cu. Yd.	4,000.00	10.00	40,000.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
9" P.C. Concrete Pavement	Sq. Yd.	13,777.00	38.50	530,414.50
6" Concrete Driveway	Sq. Ft.	734.00	4.25	3,119.50
4" Concrete Sidewalk	Sq. Ft.	49,692.00	3.75	186,345.00
Concrete Median Surfacing	Sq. Ft.	387.00	4.00	1,548.00
Standard Monument Box (In Place)	Each	3.00	175.00	525.00
Adjust Valve Box to Grade	Each	8.00	150.00	1,200.00
Adjust Manhole to Grade	Each	10.00	250.00	2,500.00
Temporary Surfacing	Sq. Yd.	600.00	50.00	30,000.00
Pavement Markings and Signing	Lump Sum	1.00	11,000.00	11,000.00
Erosion Control Items/Seeding	Lump Sum	1.00	10,000.00	10,000.00
Roadway Lighting	Lump Sum	1.00	50,000.00	50,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	30,000.00	30,000.00
			Roadway, Grading and Miscellaneous Items =	**1,085,366.00**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
18" RCP Storm Sewer Pipe	Lin. Ft.	400.00	45.00	18,000.00
15" RCP Storm Sewer Pipe	Lin. Ft.	400.00	38.00	15,200.00
72" Storm Sewer Inlet	Each	10.00	2,500.00	25,000.00
Storm Sewer Manhole	Each	4.00	4,000.00	16,000.00

Storm Sewer Taps	Each	10.00	200.00	2,000.00
Storm Sewer Removals	Lump Sum	1.00	15,000.00	15,000.00
			Storm Sewer Items =	**91,200.00**

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Permanent Traffic Counter	Lump Sum	1.00	7,500.00	7,500.00
Dynamic Message / LED Sign	Lump Sum	1.00	50,000.00	65,000.00
Traffic Signal Modification	Lump Sum	2.00	50,000.00	100,000.00
			Traffic Signal and ITS =	**172,500.00**

Water Main

Item Description	Unit	Quantity	Unit Price	Extension
Water Main Relocations	Lump Sum	0.00	0.00	0.00
			Water Main =	**0.00**

Subtotal Construction =	**1,349,066**
Construction Contingencies (15%) =	**202,360**
Total Estimated Construction Cost =	**1,551,426**
Estimated Final Engineering Design Costs (10% of Construction) =	**155,143**
Estimated City Administrative Costs (1% of Construction) =	**15,514**
Estimated Construction Engineering Costs (14% of Construction) =	**217,200**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**1,939,282**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Canopy Road

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	10,000.00	10,000.00
Construction Staking	Lump Sum	1.00	10,000.00	10,000.00
General Clearing and Grubbing	Lump Sum	1.00	1,000.00	1,000.00
Pavement and Sidewalk Removal	Cu. Yd.	739.00	16.00	11,824.00
Miscellaneous Removals	Lump Sum	1.00	5,000.00	5,000.00
Earthwork Measured as Embankment	Cu. Yd.	10,000.00	10.00	100,000.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
9" P.C. Concrete Pavement	Sq. Yd.	6,000.00	38.50	231,000.00
4" Concrete Sidewalk	Sq. Ft.	18,285.00	3.75	68,568.75
Stamped Colored Concrete Sidewalk	Sq. Ft.	58,229.00	10.50	611,404.50
Standard Monument Box (In Place)	Each	3.00	175.00	525.00
Temporary Surfacing	Sq. Yd.	250.00	50.00	12,500.00
Pavement Markings and Signing	Lump Sum	1.00	6,500.00	6,500.00
Erosion Control Items/Seeding	Lump Sum	1.00	15,000.00	15,000.00
Landscaping/Streetscape/Irrigation	Lump Sum	1.00	30,000.00	30,000.00
Roadway Lighting	Lump Sum	1.00	50,000.00	50,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	5,000.00	5,000.00
	Roadway, Grading and Miscellaneous Items =			**1,175,822.25**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
24" RCP Storm Sewer Pipe	Lin. Ft.	786.00	60.00	47,160.00
18" RCP Storm Sewer Pipe	Lin. Ft.	400.00	45.00	18,000.00
15" RCP Storm Sewer Pipe	Lin. Ft.	400.00	38.00	15,200.00
72" Storm Sewer Inlet	Each	10.00	2,500.00	25,000.00
Grate/Trench Drain at Inverted Crown Road	Lin. Ft.	280.00	300.00	84,000.00
Storm Sewer Manhole	Each	4.00	4,000.00	16,000.00
Storm Sewer Taps	Each	1.00	500.00	500.00

Storm Sewer Removals	Lump Sum	1.00	5,000.00	5,000.00
			Storm Sewer Items =	**210,860.00**

Subtotal Construction =	**1,386,682**
Construction Contingencies (15%) =	**208,002**
Total Estimated Construction Cost =	**1,594,685**
Estimated Final Engineering Design Costs (10% of Construction) =	**159,468**
Estimated City Administrative Costs (1% of Construction) =	**15,947**
Estimated Construction Engineering Costs (14% of Construction) =	**223,256**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**1,993,356**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

South Surface Parking Lots

Grading, Pavement & Miscellaneous - Parking Lot Between 'O' and 'N' Streets

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	5,000.00	5,000.00
Construction Staking	Lump Sum	1.00	6,000.00	6,000.00
Earthwork Measured as Embankment	Cu. Yd.	10,000.00	10.00	100,000.00
Asphaltic Concrete Surface Course	Tons	6,200.00	75.00	465,000.00
Combined Curb and Gutter	Lin. Ft.	1,936.00	15.00	29,040.00
Concrete Median Surfacing	Sq. Ft.	1,225.00	4.00	4,900.00
Pavement Markings and Signing	Lump Sum	1.00	2,500.00	2,500.00
Erosion Control Items/Seeding	Lump Sum	1.00	4,000.00	4,000.00
Parking Lot Lighting	Lump Sum	1.00	20,000.00	20,000.00
18" RCP Storm Sewer Pipe	Lin. Ft.	150.00	45.00	6,750.00
15" RCP Storm Sewer Pipe	Lin. Ft.	150.00	38.00	5,700.00
Grate Inlet	Each	6.00	2,000.00	12,000.00
Storm Sewer Manhole	Each	2.00	4,000.00	8,000.00
	Parking Lot Between 'O' and 'N' Streets =			**668,890.00**

Grading, Pavement & Miscellaneous - Parking Lot Between 'N' and 'M' Streets

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	5,000.00	5,000.00
Construction Staking	Lump Sum	1.00	6,000.00	6,000.00
Earthwork Measured as Embankment	Cu. Yd.	10,000.00	10.00	100,000.00
6" Concrete Pavement	Sq. Yd.	1,736.00	36.00	62,496.00
Asphaltic Concrete Surface Course	Tons	5,765.00	75.00	432,375.00
Combined Curb and Gutter	Lin. Ft	1,900.00	15.00	28,500.00
Pavement Markings and Signing	Lump Sum	1.00	2,500.00	2,500.00
Erosion Control Items/Seeding	Lump Sum	1.00	4,000.00	4,000.00
Parking Lot Lighting	Lump Sum	1.00	20,000.00	20,000.00
18" RCP Storm Sewer Pipe	Lin. Ft.	150.00	45.00	6,750.00

15" RCP Storm Sewer Pipe	Lin. Ft.	150.00	38.00	5,700.00
Grate Inlet	Each	6.00	2,000.00	12,000.00
Storm Sewer Manhole	Each	2.00	4,000.00	8,000.00
			Parking Lot Between 'N' and 'M' Streets =	**693,321.00**

Subtotal Construction =	**1,362,211**
Construction Contingencies (15%) =	**204,332**
Total Estimated Construction Cost =	**1,566,543**
Estimated Final Engineering Design Costs (10% of Construction) =	**156,654**
Estimated City Administrative Costs (1% of Construction) =	**15,665**
Estimated Construction Engineering Costs (14% of Construction) =	**219,316**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**1,958,178**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

10th and N Street Improvements

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	10,000.00	10,000.00
Construction Staking	Lump Sum	1.00	3,000.00	3,000.00
General Clearing and Grubbing	Lump Sum	1.00	500.00	500.00
Pavement and Sidewalk Removal	Cu. Yd.	1,000.00	15.00	15,000.00
Miscellaneous Removals	Lump Sum	1.00	500.00	500.00
Pavement Sawing	Lin. Ft.	1,275.00	4.00	5,100.00
Earthwork Measured as Embankment	Cu. Yd.	500.00	10.00	5,000.00
Removal of Unsuitable Material	Cu. Yd.	100.00	15.00	1,500.00
9" P.C. Concrete Pavement	Sq. Yd.	1,407.00	38.50	54,169.50
6" Concrete Driveway	Sq. Ft.	547.00	4.25	2,324.75
4" Concrete Sidewalk	Sq. Ft.	16,831.00	3.75	63,116.25
Pavement Markings and Signing	Lump Sum	1.00	2,000.00	2,000.00
Erosion Control Items/Seeding	Lump Sum	1.00	1,000.00	1,000.00
Roadway Lighting	Lump Sum	1.00	10,000.00	10,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	5,000.00	5,000.00
			Roadway, Grading and Miscellaneous Items =	**178,210.50**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
18" RCP Storm Sewer Pipe	Lin. Ft.	100.00	45.00	4,500.00
72" Storm Sewer Inlet	Each	4.00	2,500.00	10,000.00
Concrete For Collars	Cu. Yd.	4.00	400.00	1,600.00
Storm Sewer Removals	Lump Sum	1.00	15,000.00	15,000.00
			Storm Sewer Items =	**31,100.00**

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Traffic Signal Modification	Lump Sum	3.00	50,000.00	150,000.00

Traffic Signal and ITS =	150,000.00

Water Main

Item Description	Unit	Quantity	Unit Price	Extension
Water Main Relocations	Lump Sum	0.00	0.00	0.00
			Water Main =	0.00

Subtotal Construction =	359,311
Construction Contingencies (15%) =	53,897
Total Estimated Construction Cost =	413,207
Estimated Final Engineering Design Costs (10% of Construction) =	41,321
Estimated City Administrative Costs (1% of Construction) =	4,132
Estimated Construction Engineering Costs (14% of Construction) =	57,849
Total Estimated Right-of-Way Cost =	0
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	516,509

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Trunk Storm Sewer For Haymarket West Area

Storm Sewer Items

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	75,000.00	75,000.00
Construction Staking	Lump Sum	1.00	16,000.00	16,000.00
72" RCP Class V Storm Sewer Pipe	Lin. Ft.	300.00	315.00	94,500.00
72" RCP Class III Storm Sewer Pipe	Lin. Ft.	458.00	250.00	114,500.00
60" Class III Storm Sewer Pipe	Lin. Ft.	1,690.00	200.00	338,000.00
54" Class III Storm Sewer Pipe	Lin. Ft.	1,151.00	165.00	189,915.00
48" Class III Storm Sewer Pipe	Lin. Ft.	662.00	130.00	86,060.00
42" Class III Storm Sewer Pipe	Lin. Ft.	543.00	110.00	59,730.00
36" Class III Storm Sewer Pipe	Lin. Ft.	719.00	90.00	64,710.00
30" Class III Storm Sewer Pipe	Lin. Ft.	392.00	75.00	29,400.00
72" Storm Sewer Manhole	Each	3.00	8,000.00	24,000.00
54' to 60" Storm Sewer Manhole	Each	5.00	7,000.00	35,000.00
42" to 48" Storm Sewer Manhole	Each	3.00	6,000.00	18,000.00
36" Storm Sewer Manhole	Each	1.00	5,500.00	5,500.00
Jacking for 72" Storm Sewer Pipe	Lin. Ft.	300.00	300.00	90,000.00
			Storm Sewer Items =	**1,240,315.00**

Subtotal Construction =	**1,240,315**
Construction Contingencies (15%) =	**186,047**
Total Estimated Construction Cost =	**1,426,362**
Estimated Final Engineering Design Costs (10% of Construction) =	**142,636**
Estimated City Administrative Costs (1% of Construction) =	**14,264**
Estimated Construction Engineering Costs (14% of Construction) =	**199,691**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**1,782,953**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Haymarket Parking Lot

Roadway Grading, Pavement & Miscellaneous

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	350,000.00	250,000.00
Construction Staking	Lump Sum	1.00	65,000.00	65,000.00
General Clearing and Grubbing	Lump Sum	1.00	10,000.00	10,000.00
Pavement and Sidewalk Removal	Cu. Yd.	1,505.00	16.00	24,080.00
Miscellaneous Removals	Lump Sum	1.00	10,000.00	10,000.00
Pavement Sawing	Lin. Ft.	678.00	4.00	2,712.00
Removal of Unsuitable Material	Cu. Yd.	500.00	15.00	7,500.00
9" P.C. Concrete Pavement	Sq. Yd.	10,211.00	38.50	393,123.50
6" Concrete Driveway	Sq. Ft.	6,681.00	4.25	28,394.25
5" Concrete Bikeway	Sq. Ft.	19,419.00	4.00	77,676.00
5" Concrete Sidewalk	Sq. Ft.	54,094.00	4.00	216,376.00
Concrete Median Surfacing	Sq. Ft.	4,270.00	4.00	17,080.00
Combined Curb and Gutter	Lin. Ft.	4,280.00	15.00	64,200.00
Grass Paved Parking Lot Surfacing	Sq. Ft.	330,271.00	4.50	1,486,219.50
Asphalt Surfacing	Tons	9,945.00	75.00	745,875.00
6" Concrete at Parking Lot Reconstruction	Sq. Yd.	1,448.00	35.00	50,680.00
Temporary Surfacing	Sq. Yd.	500.00	50.00	25,000.00
Fencing	Lin. Ft.	2,500.00	25.00	62,500.00
Pavement Markings and Signing	Lump Sum	1.00	6,000.00	6,000.00
Erosion Control Items/Seeding	Lump Sum	1.00	15,000.00	15,000.00
Roadway/Parking Lot Lighting	Lump Sum	1.00	125,000.00	125,000.00
Detour/Traffic Control/Barricades	Lump Sum	1.00	5,000.00	5,000.00
			Roadway, Grading and Miscellaneous Items =	**3,687,416.25**

Storm Sewer

Item Description	Unit	Quantity	Unit Price	Extension
24" RCP Storm Sewer Pipe	Lin. Ft.	500.00	55.00	27,500.00
18" RCP Storm Sewer Pipe	Lin. Ft.	500.00	45.00	22,500.00

15" RCP Storm Sewer Pipe	Lin. Ft	500.00	38.00	19,000.00
Grate Inlet	Each	10.00	2,000.00	20,000.00
Storm Sewer Manhole	Each	5.00	4,000.00	20,000.00
Concrete for Collars, Plugs & Headwalls	Cu. Yd.	10.00	500.00	5,000.00
Storm Sewer Removals	Lump Sum	1.00	5,000.00	5,000.00
			Storm Sewer Items =	**119,000.00**

Subtotal Construction =	**3,806,416**
Construction Contingencies (15%) =	**570,962**
Total Estimated Construction Cost =	**4,377,379**
Estimated Final Engineering Design Costs (10% of Construction) =	**437,738**
Estimated City Administrative Costs (1% of Construction) =	**43,774**
Estimated Construction Engineering Costs (14% of Construction) =	**612,833**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**5,471,723**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Dynamic Message Sign

Traffic Signal and ITS

Item Description	Unit	Quantity	Unit Price	Extension
Dynamic Message Sign	Lump Sum	11.00	200,000.00	2,200,000.00
Sign Communication Network	Lump Sum	1.00	250,000.00	250,000.00
			Traffic Signal and ITS =	**2,450,000.00**

Subtotal Construction =	**2,450,000**
Construction Contingencies (15%) =	**367,500**
Total Estimated Construction Cost =	**2,817,500**
Estimated Final Engineering Design Costs (10% of Construction) =	**281,750**
Estimated City Administrative Costs (1% of Construction) =	**28,175**
Estimated Construction Engineering Costs (14% of Construction) =	**394,450**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**3,521,875**

West Haymarket Transportation Improvements

Opinion of Probable Cost - 2008 Dollars

Development Pad Sites

Grading

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	125,000.00	125,000.00
Construction Staking	Lump Sum	1.00	10,000.00	10,000.00
General Clearing and Grubbing	Lump Sum	1.00	1,000.00	1,000.00
Pavement and Sidewalk Removal	Cu. Yd.	100.00	16.00	1,600.00
Miscellaneous Removals	Lump Sum	1.00	5,000.00	5,000.00
Parcel A				
Earthwork Measured as Embankment	Cu. Yd.	93,750.00	10.00	937,500.00
Parcel B				
Earthwork Measured as Embankment	Cu. Yd.	24,400.00	10.00	244,000.00
Parcel C				
Earthwork Measured as Embankment	Cu. Yd.	21,900.00	10.00	219,000.00
Parcel D				
Earthwork Measured as Embankment	Cu. Yd.	20,950.00	10.00	209,500.00
Ice Center Drop Off				
Earthwork Measured as Embankment	Cu. Yd.	3,000.00	10.00	30,000.00
Parking Lot South of "O" Street				
Earthwork Measured as Embankment	Cu. Yd	14,850.00	10.00	148,500.00
			Development Pad Sites =	**1,931,100.00**

Subtotal Construction =	**1,931,100**
Construction Contingencies (15%) =	**289,665**
Total Estimated Construction Cost =	**2,220,765**
Estimated Final Engineering Design Costs (10% of Construction) =	**222,077**
Estimated City Administrative Costs (1% of Construction) =	**22,208**
Estimated Construction Engineering Costs (14% of Construction) =	**310,907**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**2,776,956**

RAILROAD/ENVIRONMENTAL

West Haymarket Railroad Improvements
Opinion of Probable Cost - 2008 Dollars

Railroad - to include rail, RR comm., and storm sewer in rail area. Public & private utility relocation will be included with "utilities" below.

	Quantity	Units	Unit Price	Total	Source
Land/ROW Cost					
BNSF Land Acquisition					
(1) Land within primary redevelopment area					
(2) Other owned property- north, west, and south					
Union Pacific Land Acquisition					
(1) Land within whye track project area					
(2) Other owned property - wetlands enhancement					
Subtotal - All Land Acquisition & R.O.W. costs					Negotiations: Project & Railroads
Construction For Track Operations					
(1) Construct new track	13,700	Track Ft.	200	$2,740,000	HWS Preliminary Planning & Design
(2) Shift existing track	7,750	TF	50	$387,500	HWS Preliminary Planning & Design
(3) Compensation for yard track	35,000	TF	100	$3,500,000	HWS Preliminary Planning & Design
(4) Install No. 11 turnout (salvaged)	1	EA	150,000	$150,000	HWS Preliminary Planning & Design
(5) Install No. 15 turnout	10	EA	175,000	$1,750,000	HWS Preliminary Planning & Design
(6) Install No. 20 turnout	8	EA	250,000	$2,000,000	HWS Preliminary Planning & Design
(7) Remove track	45,750	TF	80	$3,660,000	HWS Preliminary Planning & Design
(8) Salvage track	45,750	TF	-60	-$3,660,000	HWS Preliminary Planning & Design
(9) Remove No. 9 turnout	33	EA	10,000	$330,000	HWS Preliminary Planning & Design
(10) Remove No. 11 turnout & salvage	5	EA	10,000	$50,000	HWS Preliminary Planning & Design
(11) Excavation	47,000	CY	10	$470,000	HWS Preliminary Planning & Design
(12) Embankment	27,000	CY	10	$270,000	HWS Preliminary Planning & Design
(13) Sub-ballast	43,325	TON	40	$1,733,000	HWS Preliminary Planning & Design
(14) Install culvert (36" RCP) (Class V)	620	LF	150	$93,000	HWS Preliminary Planning & Design
(15) Rehabilitate UP-South bridge	1	LS	81,000	$81,000	Estimate by Olsson Associates
Subtotal - Construction for track operations				$13,554,500	HWS Preliminary Planning & Design
Contingency (15%)				$2,033,175	
Total Estimated Construction				$15,587,675	
Soft Costs - Design, Bid, Const. Service, Legal, Admin. -25%				$3,896,919	Project Guidelines
Subtotal - Construction for track operations				$19,484,594	HWS Preliminary Planning & Design
Other Railroad System Costs					
(1) Replace yard maintenance buildings			$1,000,000		Project Architects
(2) Replace Amtrak building & facilities			$1,500,000		Project Architects
(3) Replace railroad signal systems			$14,376,200		BNSF
(4) Replace railroad communication systems			$632,500		BNSF

	Quantity	Units	Unit Price	Total	Source
(5) Relocate/replace railroad utility systems			$150,000		BNSF
(6) Other miscellaneous costs/Electrical			$1,156,000		BNSF & Others
(7) UPRR Track work near Salt Creek			$1,030,000		UPRR
Subtotal - Other railroad system costs					
Total Railroad Project Costs					
ENVIRONMENTAL					HWS Preliminary Studies - All Areas
Remediation (Making the area useable for the future use and returning surface to existing conditions)					
North Area - "R" Street north to railroad tracks (Arena Site)					Some Confidence - 2
Depot Area Fuel Spill & Arena Footprint Study	1	LS	$15,000	$15,000	
Remediation Plan & Implementation					
(1) Soil removal, disposal, & replacement	10,000	CY	75	$750,000	
(2) Construction dewatering and treatment	1	LS	50,000	$50,000	
Subtotal - Remediation Costs for Arena Area				$815,000	
Contingency (15%)				$122,250	
Total Estimated Construction Cost				$937,250	
Soft Costs - Design, Bid, Const. Serv., Legal & Admin - 25%				$234,313	
Total North Area Remediation Costs				**$1,171,563**	
South Area - Rail Yard from "R" Street to "O" Street					Low Confidence - 3
Geoprobe Assessment of area					
(1) Geoprobes & Laboratory analysis	100	G.P.		$250,000	
(2) Selected soil removal, disposal, replacement	20,000	CY	75	$1,500,000	
Subtotal - Remediation Costs for area				$1,750,000	
Contingency @ 15%				$262,500	
Total Estimated Construction Cost				$2,012,500	
Soft Costs - Design, Bid, Const. Serv., Legal &Admin - 25%				$503,125	
Total Costs - South Portion of North Area				**$2,515,625**	
South Area - "O" Street on South	(Project Studies Underway to Determine Estimates)				
A - JayLynn and North Alter Scrap Sub-area					
(1) Phase II Study on Alter North					
(2) Asbestos Abatement Survey					
(3) Building Demolition					
(4) Scrap metal planning for design & removal					
(5) Soil removal and disposal as special waste					
(6) Confirmation soil sampling					
(7) Cap design, management, and deed restriction					

	Quantity	Units	Unit Price	Total	Source
(8) Groundwater management plan					
(9) Track removal & salvage					
(10) Contingency @ 20%					
Subtotal - Remediation Costs for sub-area					
Soft Costs - Design, Bid, Const. Serv., Legal & Admin - 25%					
Total Costs - North Portion of South Area					
B - Primary Alter Scrap and BNSF R.O.W Sub-area (Project Studies Underway to Detremine Estimates)					
(1) Phase II Study on scrap area					
(2) Asbestos Abatement Survey					
(3) Building Demolition					
(4) Scrap metal planning for design & removal					
(5) Soil removal and disposal as special waste					
(6) Confirmation soil sampling					
(7) Cap design, management, and deed restriction					
(8) Groundwater management plan					
(9)Track removal & salvage					
(10) Contingency @ 20%					
Sub-total - Remediation Costs for Sub-area					
Soft Costs - Design, Bid, Const. Serv., Legal & Admin - 25%					
Total Costs - South Portion of South Area					
West Area - Former Railroad Roundhouse Area					
Treatment of the Roundhouse would include capping and paving - October 20, 2008 guidance					
Project guidance from the Meeting with the City on October 20, 2008 indicated that no grading would be necessary					
* It should be noted that capping the Roundhouse area may also require a curtain wall to prevent migration of contamination					
West Area - New Rail Facilities Area + Amtrak Station (Project Studies Underway to Determine Estimates)					
Incidental Environmental Remediation costs					
Surveys and design as needed					
Contingency @15%					
Sub-total - Remediation Costs for Area					
Soft Costs - Design, Bid, Const. Serv , Legal & Admin - 25%					

STORMWATER/FLOODPLAIN

West Haymarket TEUP - Flood Plain Mitigation & Mass Grading / West Oak Lake & Dog Run Mass Grading

Opinion of Probable Cost - 2008 Dollars

Item Description	Unit	Quantity	Unit Price	Extension	Confidence Factor
Flood Plain Mitigaiton Site Mass Grading					
Surveying	Lump Sum	1	$10,000.00	$10,000.00	3
Mobilization	Lump Sum	1	$50,000.00	$50,000.00	3
General Clearing and Grubbing	Lump Sum	1	$1,082,000.00	$1,082,000.00	3
Excavation (Wetland Parcel 4)	CY	21,429	$10.00	$214,292.96	2
Excavation (Parking Lot Parcel 5)	CY	19,718	$10.00	$197,177.96	2
Excavation (Wetland Parcel 6)	CY	16,471	$10.00	$164,706.67	2
Excavation (Wetland Parcel 7)	CY	24,571	$10.00	$245,707.04	2
Excavation (Wetland Parcel 8)	CY	24,781	$10.00	$247,810.74	2
Excavation (Wetland Parcel 9)	CY	30,235	$10.00	$302,347.04	2
Excavation (Wetland Parcel 10)	CY	13,084	$10.00	$130,835.19	2
Disposal Fee Surplus Material	CY	159,160	$15.00	$2,387,406.94	3
Topsoil	CY	29,112	$5.00	$145,561.20	2
Erosion & Sediment Control	LS	1	$50,000.00	$50,000.00	3
Subtotal				**$5,227,845.74**	
Drainage Structures					
Twin 8' x 8' Concrete Box Culvert	LS	1	$150,392.00	$150,392.00	2
36" RCP Storm Sewer	LF	500	$90.00	$45,000.00	2
42" RCP Storm Sewer	LF	1,500	$110.00	$165,000.00	2
Subtotal				**$360,392.00**	

Subtotal Construction =	**5,588,238**
Construction Contingencies (15%) =	**838,236**
Total Estimated Construction Cost =	**6,426,473**
Estimated Final Engineering Design Costs (10% of Construction) =	**642,647**
Estimated City Administrative Costs (1% of Construction) =	**64,265**
Estimated Construction Engineering Costs (14% of Construction) =	**899,706**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**8,033,092**

Assuming Average Construction Inflation Rate =	8.00%
Projected Cost at 2010 =	9,369,798
Projected Cost at 2011 =	10,119,382
Projected Cost at 2012 =	10,928,933
Projected Cost at 2013 =	11,803,247
Projected Cost at 2014 =	12,747,507

WETLANDS

West Haymarket Wetland Mitigation

Opinion of Probable Cost - 2008 Dollars

Item Description	Unit	Quantity	Unit Price	Extension
Mobilization	Lump Sum	1.00	10,000.00	10,000.00
Miscellaneous Removal	Lump Sum	1.00	5,000.00	5,000.00
Wetland Seeding	per acre	20.00	3,000.00	60,000.00
Perimeter Wetland Plantings - Oak Lake	Lump Sum	1.00	15,000.00	15,000.00
Buffer Seeding	per acre	20.00	1,500.00	30,000.00
Interpretive Trail (crushed limestone - 8 ft. wide)	Linear Feet	3,000.00	6.00	18,000.00
			Wetland Mitigation Items =	**138,000.00**

Subtotal Construction =	**138,000**
Construction Contingencies (15%) =	**20,700**
Total Estimated Construction Cost =	**158,700**
Estimated Final Engineering Design Costs (10% of Construction) =	**15,870**
Estimated City Administrative Costs (1% of Construction) =	**1,587**
Estimated Construction Engineering Costs (14% of Construction) =	**22,218**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**198,375**

Assuming Average Construction Inflation Rate =	8.00%
Projected Cost at 2010 =	231,385
Projected Cost at 2011 =	249,895
Projected Cost at 2012 =	269,887
Projected Cost at 2013 =	291,478
Projected Cost at 2014 =	314,796

* - Please note that this estimate does not include land purchase. Also, this estimate is based on 20 acres of mitigation. Additional acreage may reduce the cost of seed per acre, while less acreage may increase the cost.

UTILITIES

West Haymarket Utility Improvements
Opinion of Probable Cost - 2008 Dollars

South Area, including festival area, two mixed use/parking structures, and DEC facility

CONFIDENCE LEVEL

Water

Item Description	Unit	Quantity	Unit Price	Extension	
8" WATER MAIN ("Q" ST)	Lin. Ft.	900.00	$60.00	$54,000.00	1
8" WATER MAIN ("P" ST)	Lin. Ft.	900.00	$60.00	$54,000.00	1
8" WATER MAIN ("O" ST)	Lin. Ft.	180.00	$60.00	$10,800.00	1
8" WATER MAIN (6TH ST)	Lin. Ft.	1,400.00	$60.00	$84,000.00	1
FIRE HYDRANT	Each	10.00	$4,700.00	$47,000.00	1
VALVES	Each	16.00	$1,600.00	$25,600.00	1
12" WATER MAIN LOOP	Lin. Ft.	2,800.00	$90.00	$252,000.00	1
		Water Main Relocations =		**$527,400.00**	

West Haymarket Utility Improvements

Opinion of Probable Cost - 2008 Dollars

Sanitary Sewer

Item Description	Unit	Quantity	Unit Price	Extension	
12" SANITARY SEWER ("R" ST)	Lin. Ft.	1,200.00	$84.00	$100,800.00	1
8" SANITARY SEWER ("O" ST)	Lin. Ft.	300.00	$56.00	$16,800.00	1
8" SANITARY SEWER ("P" ST)	Lin. Ft.	650.00	$56.00	$36,400.00	1
8" SANITARY SEWER ("Q" ST)	Lin. Ft.	650.00	$56.00	$36,400.00	1
8" SANITARY SEWER (6TH ST)	Lin. Ft.	1,350.00	$56.00	$75,600.00	1
8" SANITARY SEWER (5TH ST)	Lin. Ft.	1,350.00	$56.00	$75,600.00	1
8" SANITARY SEWER (7TH ST, "Q" TO "R")	Lin. Ft.	200.00	$56.00	$11,200.00	1
MANHOLE	Each	16.00	$6,000.00	$96,000.00	1
ABANDON/REMOVE PIPE	Lin. Ft.	4,800.00	$14.00	$67,200.00	1
20" CASING @ RR/"R" ST	Lin. Ft.	200.00	$300.00	$60,000.00	1
		Sanitary Sewer Relocations =		$576,000.00	

West Haymarket Utility Improvements
Opinion of Probable Cost - 2008 Dollars

Festival Area

Item Description	Unit	Quantity	Unit Price	Extension	
8" SANITARY SEWER	Lin. Ft.	100.00	$56.00	$5,600.00	1
SERVICE CONNECTION	Each	1.00	$500.00	$500.00	1
2" WATER SERVICE PIPING	Lin. Ft.	100.00	$30.00	$3,000.00	1
QUICK COUPLERS	Each	6.00	$600.00	$3,600.00	1
BACKFLOW/METER SET	Each	1.00	$3,000.00	$3,000.00	1
			Festival Space =	**$15,700.00**	

LES

Item Description	Unit	Quantity	Unit Price	Extension	
RELOCATION OF BURIED SERVICE (S. OF LINCOLN STA.)	LS	1.00	$75,000.00	$75,000.00	1
			LES Relocations =	**$75,000.00**	

West Haymarket Utility Improvements
Opinion of Probable Cost - 2008 Dollars

North Area

Water

Item Description	Unit	Quantity	Unit Price	Extension	
12" WATER MAIN (CHARLESTON ST/CHANNEL CROSSING)	Lin. Ft.	650.00	$90.00	$58,500.00	1
8" WATER MAIN (LOOP AROUND ARENA)	Lin. Ft.	2,750.00	$60.00	$165,000.00	1
FIRE HYDRANT	Each	6.00	$4,700.00	$28,200.00	1
VALVES	Each	5.00	$2,500.00	$12,500.00	1
		Water Main Relocations =		**$264,200.00**	

Sanitary Sewer

Item Description	Unit	Quantity	Unit Price	Extension	
12" SANITARY SEWER (POST OFFICE/RR CROSSING)	Lin. Ft.	2,250.00	$84.00	$189,000.00	1
8" SANITARY SEWER (POST OFFICE)	Lin. Ft.	750.00	$56.00	$42,000.00	1
8" SANITARY SEWER (ARENA SERVICE)	Lin. Ft.	630.00	$56.00	$35,280.00	1
MANHOLE	Each	10.00	$6,000.00	$60,000.00	1
ABANDON/REMOVE PIPE	Lin. Ft.	2,150.00	$14.00	$30,100.00	1
20" CASING @ RR/PED CROSSING	Lin. Ft.	200.00	$300.00	$60,000.00	1
		Sanitary Sewer Relocations =		**$416,380.00**	

West Haymarket Utility Improvements
Opinion of Probable Cost - 2008 Dollars

Stormwater Pumping

Item Description	Unit	Quantity	Unit Price	Extension	
4" FORCE MAIN	Lin. Ft.	0.00	$30.00	$0.00	1
OUTLET STRUCTURE	Each	0.00	$4,500.00	$0.00	1
PUMP STATION MODIFICATIONS	LS	0.00	$5,000.00	$0.00	1
			Stormwater Pumping Relocations =	$0.00	

LES

Item Description	Unit	Quantity	Unit Price	Extension	
O.H. 34.5/12.5 KV RELOCATIONS	LS	1.00	$300,000.00	$300,000.00	1
			LES Relocations =	$300,000.00	

West Haymarket Utility Improvements

Opinion of Probable Cost - 2008 Dollars

West Area

Sanitary Sewer

62" CASING @ EXISTING TRUNK SEWER	Lin. Ft.	200.00	$2,000.00	$400,000.00	3
82" CASING @ EXISTING TRUNK SEWER	Lin. Ft.	200.00	$2,500.00	$500,000.00	3
			Sanitary Sewer Relocations =	$900,000.00	

LES

Item Description	Unit	Quantity	Unit Price	Extension	
POLE RELOCATIONS (SURFACE PARKING AREA)	Each	2.00	$5,000.00	$10,000.00	1
			LES Relocations =	$10,000.00	

Q-West

Fiber Optic

CABLE	Lin. Ft.	22,000.00	$1.75	$38,500.00	2
PULL BOX	Each	2.00	$800.00	$1,600.00	2
SPLICE	Each	1.00	$25,000.00	$25,000.00	2
INSPECTION/ENGINEEING/SHIPPING	LS	1.00	$225,000.00	$225,000.00	2
			Q-WEST Relocations =	$290,100.00	

West Haymarket Utility Improvements
Opinion of Probable Cost - 2008 Dollars

Verizon

Fiber Optic					
CABLE	Lin. Ft.	20,000.00	$1.75	$35,000.00	2
PULL BOX	Each	2.00	$800.00	$1,600.00	2
SPLICE	Each	1.00	$25,000.00	$25,000.00	2
INSPECTION/ENGINEERING/SHIPPING	LS	1.00	$175,000.00	$175,000.00	2
			VERIZON Relocations =	**$236,600.00**	

10TH & ARENA DRIVE

Water					
12" WATER MAIN (STADIUM DRIVE)	Lin. Ft.	200.00	$90.00	$18,000.00	1
VALVES	Each	1.00	$2,500.00	$2,500.00	1
HYDRANTS	Each	1.00	$4,700.00	$4,700.00	1
			10TH & ARENA DRIVE Relocations =	**$25,200.00**	

Subtotal Construction =	**3,611,492**
Construction Contingencies (15%) =	**541,724**
Total Estimated Construction Cost =	**4,153,216**
Estimated Final Engineering Design Costs (10% of Construction) =	**415,322**
Estimated City Administrative Costs (1% of Construction) =	**41,532**
Estimated Construction Engineering Costs (14% of Construction) =	**581,450**
Total Estimated Right-of-Way Cost =	**0**
Total Opinion of Cost for Capital Improvement Program (2008 Dollars) =	**5,191,520**

West Haymarket Utility Improvements
Opinion of Probable Cost - 2008 Dollars

Assuming Average Construction Inflation Rate =	8.00%
Projected Cost at 2010 =	6,055,389
Projected Cost at 2011 =	6,539,820
Projected Cost at 2012 =	7,063,005
Projected Cost at 2013 =	7,628,046
Projected Cost at 2014 =	8,238,289