Appendix G: Cost Estimates

SEGMENT 1

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

DATE: Dec 15, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

Segment 1 Total					= $	**76,140,297.00**

Road (NB & SB I-75, 12 Mile Road, 12 Mile Road Ramps A,B,C, D, & E, Noise Walls, and S03, B02, S04)

I-75 Miscellaneous Estimate Items

Mobilization, Max.	3676463	LS	$	1.00	$	3,676,463.00
Contractor Staking, Urban	1438927	LS	$	1.00	$	1,438,927.00
Staking Plan Errors and Extras, One Person	758	hr	$	75.00	$	56,850.00
Staking Plan Errors and Extras, Two Person	303	hr	$	100.00	$	30,300.00
Staking Plan Errors and Extras, Three Person	455	hr	$	125.00	$	56,875.00
Maintaining Traffic	1	LS			$	3,680,007.00
ITS	1	LS	$	1,824,839.00	$	1,824,839.00
Freeway Lighting/Interchange Lighting	1	LS	$	350,000.00	$	350,000.00
Permanent Signing and Pavement Marking	1	LS	$	463,811.64	$	463,811.64

Alignment Total: (see breakdown)

I-75 NB SUBTOTAL =	$	20,708,253.72
I-75 SB SUBTOTAL =	$	5,738,561.76
12 MILE ROAD =	$	1,451,654.59
12 MILE RAMP A SUBTOTAL =	$	205,548.57
12 MILE RAMP B SUBTOTAL =	$	344,834.32
12 MILE RAMP C SUBTOTAL =	$	1,158,331.59
12 MILE RAMP D SUBTOTAL =	$	246,917.33
12 MILE RAMP E SUBTOTAL =	$	356,621.37

Carpool Lot Totals:

12 Mile Road Carpool Lot	$	246,000.00

Noise/Retaining Wall Totals:

12 MILE RAMP D STA 403+50 TO STA 409+20	$	1,140,000.00
SB I-75 STA 930+25 TO STA 938+50	$	600,000.00
NB I-75 STA 980+00 TO STA 986+50	$	650,000.00
NB I-75 STA 986+50 TO STA 999+00	$	1,250,000.00

Structure Totals:

Pedestrian Structure (P01 of 63174)	$	2,663,000.00
12 Mile Road (S03-1, 2, and 3)	$	8,489,000.00
Red Run Drain (B02-1, 2, 5, and 6)	$	13,015,000.00
13 Mile Drain	$	500,000.00
13 Mile Road (S04-1, and 2)	$	4,751,000.00

Miscellaneous Totals:

Aesethic Improvements (1%)	$	698,333.81
Unsuitable Soil (0.5%)	$	349,166.90

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URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	53581	Syd	$ 30.00	$ 1,607,430.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	7523	Syd	$ 41.00	$ 308,443.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	18983	Syd	$ 30.00	$ 569,490.00
3077011	Shoulder, Cl II, 13 1/2 inch	1986	Syd	$ 18.00	$ 35,748.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	89556	Syd	$ 8.00	$ 716,448.00
3030020	Geotextile Separator	89556	Syd	$ 1.30	$ 116,422.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	36349	Ft	$ 3.50	$ 127,221.50
4040093	Underdrain Outlet, 6 inch	3030	Ft	$ 5.41	$ 16,392.30
8027001	Valley Gutter, Conc, 13 1/2 inch	12926	Ft	$ 18.00	$ 232,668.00
8020010	Curb and Gutter, Bridge Approach	300	Ft	$ 31.57	$ 9,471.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	12926	Ft	$ 38.71	$ 500,365.46
8040010	Conc Barrier, Split, Type A	60	Ft	$ 120.00	$ 7,200.00
8040015	Glare Screen, Conc	10497	Ft	$ 6.83	$ 71,694.51
8040016	Glare Screen, Conc, Split	60	Ft	$ 45.27	$ 2,716.20
6020200	Joint, Contraction, Cp	34371	Ft	$ 8.97	$ 308,307.87
6020201	Joint, Contraction, C3p	10678	Ft	$ 1.09	$ 11,639.02
6020207	Joint, Expansion, E2	44	Ft	$ 17.87	$ 786.28
6020209	Joint, Expansion, E4	26	Ft	$ 6.18	$ 160.68
8220000	Shoulder Corrugations, Ground or Cut, Conc	20994	Ft	$ 0.90	$ 18,894.60
8070000	Guardrail, Type B	1900	Ft	$ 15.34	$ 29,146.00
2040011	Pavt, Rem	60558	Syd	$ 3.57	$ 216,192.06
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	2710	Ft	$ 1.73	$ 4,688.30
2050010	Embankment, CIP	32945	Cyd	$ 3.53	$ 116,295.85
2050016	Excavation, Earth	48449	Cyd	$ 4.58	$ 221,896.42
8040030	Conc Barrier Backfill, CIP	1200	Cyd	$ 4.00	$ 4,800.00
8160050	Slope Restoration	19854	Syd	$ 2.59	$ 51,421.86
6050100	Conc Quality Assurance	29243	Cyd	$ 3.00	$ 87,729.00
6050101	Conc Quality Initiative	$ 60,021	Dlr	$ 1.00	$ 60,021.00
2030011	Dr Structure, Rem	9	Ea	$ 226.49	$ 2,038.41
2030015	Sewer, Rem, Less than 24 inch	842	Ft	$ 10.59	$ 8,916.78
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	7	Ea	$ 259.00	$ 1,813.00
2030002	Culv, Rem, 24 inch to 48 inch	1	Ea	$ 523.79	$ 523.79
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	3281	Ft	$ 23.66	$ 77,628.46
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	3281	Ft	$ 1.14	$ 3,740.34
4030005	Dr Structure, 48 inch dia	43	Ea	$ 1,064.58	$ 45,776.94
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	8	Ft	$ 100.98	$ 807.84
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	0	Ft	$ 90.00	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	26230	Lb	$ 1.21	$ 31,738.30
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	0	Ft	$ 41.83	$ -
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	23	Ea	$ 212.27	$ 4,882.21
4010835	Culv End Sect, Conc, 24 inch	0	Ea	$ 402.10	$ -
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	Drainage Crossings (refer to *Drainage Study*)				$ 201,575.00
	Storm Sewer Interceptor (refer to Drainage Study)				$ 14,000,000.00
	15% Contingency				$ 874,989.62
	TOTAL OPINION OF PROBABLE COST =				$ 20,708,253.72

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10860 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	53588	Syd	$ 30.00	$ 1,607,640.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	3572	Syd	$ 41.00	$ 146,452.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	20657	Syd	$ 30.00	$ 619,710.00
3077011	Shoulder, Cl II, 13 1/2 inch	2235	Syd	$ 18.00	$ 40,230.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	82527	Syd	$ 8.00	$ 660,216.00
3030020	Geotextile Separator	82527	Syd	$ 1.30	$ 107,285.10
4040043	Underdrain, Pipe, Open-Graded, 6 inch	35608	Ft	$ 3.50	$ 124,628.00
4040093	Underdrain Outlet, 6 inch	2968	Ft	$ 5.41	$ 16,056.88
8027001	Valley Gutter, Conc, 13 1/2 inch	10497	Ft	$ 18.00	$ 188,946.00
8020010	Curb and Gutter, Bridge Approach	100	Ft	$ 31.57	$ 3,157.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	32152	Ft	$ 8.97	$ 288,403.44
6020201	Joint, Contraction, C3p	11620	Ft	$ 1.09	$ 12,665.80
6020207	Joint, Expansion, E2	32	Ft	$ 17.87	$ 571.84
6020209	Joint, Expansion, E4	30	Ft	$ 6.18	$ 185.40
8220000	Shoulder Corrugations, Ground or Cut, Conc	27810	Ft	$ 0.90	$ 25,029.00
8040000	Guardrail, Type B	3360	Ft	$ 15.34	$ 51,542.40
2040011	Pavt, Rem	59432	Syd	$ 3.57	$ 212,172.24
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	10048	Ft	$ 1.73	$ 17,383.04
2050010	Embankment, CIP	52056	Cyd	$ 3.53	$ 183,757.68
2050016	Excavation, Earth	88184	Cyd	$ 4.58	$ 403,882.72
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	22343	Syd	$ 2.59	$ 57,868.37
6050100	Conc Quality Assurance	24811	Cyd	$ 3.00	$ 74,433.00
6050101	Conc Quality Initiative	$ 48,390	Dlr	$ 1.00	$ 48,390.00
2030011	Dr Structure, Rem	12	Ea	$ 226.49	$ 2,717.88
2030015	Sewer, Rem, Less than 24 inch	956	Ft	$ 10.59	$ 10,124.04
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030005	Culv End, Rem, Less than 24 inch	3	Ea	$ 133.32	$ 399.96
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	881	Ft	$ 23.66	$ 20,844.46
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	881	Ft	$ 1.14	$ 1,004.34
4030005	Dr Structure, 48 inch dia	35	Ea	$ 1,064.58	$ 37,260.30
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	2	Ft	$ 100.98	$ 201.96
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	0	Ft	$ 90.00	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	21350	Lb	$ 1.21	$ 25,833.50
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	0	Ft	$ 41.83	$ -
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	5	Ea	$ 212.27	$ 1,061.35
4010835	Culv End Sect, Conc, 24 inch	0	Ea	$ 402.10	$ -
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 748,508.06
	TOTAL OPINION OF PROBABLE COST =				$ 5,738,561.76

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10860 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: 12 MILE ROAD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	12959	Syd	$ 41.00	$ 531,319.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	0	Syd	$ 30.00	$ -
3077011	Shoulder, Cl II, 13 1/2 inch	0	Syd	$ 18.00	$ -
3037011	Open-Graded Dr Cse, 16 inch, Modified	14393	Syd	$ 8.00	$ 115,144.00
3030020	Geotextile Separator	14393	Syd	$ 1.30	$ 18,710.90
4040043	Underdrain, Pipe, Open-Graded, 6 inch	7200	Ft	$ 3.50	$ 25,200.00
4040093	Underdrain Outlet, 6 inch	600	Ft	$ 5.41	$ 3,246.00
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	4831	Ft	$ 15.04	$ 72,658.24
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	28919	Sft	$ 3.60	$ 104,108.40
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	7290	Ft	$ 8.97	$ 65,391.30
6020201	Joint, Contraction, C3p	0	Ft	$ 1.09	$ -
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8040000	Guardrail, Type B	600	Ft	$ 15.34	$ 9,204.00
2040011	Pavt, Rem	15260	Syd	$ 3.57	$ 54,478.20
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	600	Ft	$ 1.73	$ 1,038.00
2050010	Embankment, CIP	11901	Cyd	$ 3.53	$ 42,010.53
2050016	Excavation, Earth	10386	Cyd	$ 4.58	$ 47,567.88
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	10736	Syd	$ 2.59	$ 27,806.24
6050100	Conc Quality Assurance	1011	Cyd	$ 3.00	$ 3,033.00
6050101	Conc Quality Initiative	$ 3,536	Dlr	$ 1.00	$ 3,536.00
2030011	Dr Structure, Rem	14	Ea	$ 226.49	$ 3,170.86
2030015	Sewer, Rem, Less than 24 inch	716	Ft	$ 10.59	$ 7,582.44
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	1	Ea	$ 523.79	$ 523.79
2030005	Culv End, Rem, Less than 24 inch	5	Ea	$ 133.32	$ 666.60
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	1537	Ft	$ 23.66	$ 36,365.42
4020603	Sewer, Cl E, 24 inch, Tr Det B	1031	Ft	$ 46.81	$ 48,261.11
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	2568	Ft	$ 1.14	$ 2,927.52
4030005	Dr Structure, 48 inch dia	17	Ea	$ 1,064.58	$ 18,097.86
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	50	Ft	$ 100.98	$ 5,049.00
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	23	Ft	$ 90.00	$ 2,070.00
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	100	Ft	$ 1.41	$ 141.00
4030033	Dr Structure Lead, Cleaning, 24 inch	100	Ft	$ 1.69	$ 169.00
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	10605	Lb	$ 1.21	$ 12,832.05
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	0	Ft	$ 41.83	$ -
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	0	Ea	$ 212.27	$ -
4010835	Culv End Sect, Conc, 24 inch	0	Ea	$ 402.10	$ -
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 189,346.25
	TOTAL OPINION OF PROBABLE COST =				$ 1,451,654.59

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 ENTRANCE FROM 12 MILE (RAMP A)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1667	Syd	$ 41.00	$ 68,347.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	685	Syd	$ 30.00	$ 20,550.00
3077011	Shoulder, Cl II, 13 1/2 inch	256	Syd	$ 18.00	$ 4,608.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	2417	Syd	$ 8.00	$ 19,336.00
3030020	Geotextile Separator	2417	Syd	$ 1.30	$ 3,142.10
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1149	Ft	$ 3.50	$ 4,021.50
4040093	Underdrain Outlet, 6 inch	96	Ft	$ 5.41	$ 519.36
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	219	Ft	$ 15.04	$ 3,293.76
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	938	Ft	$ 8.97	$ 8,413.86
6020201	Joint, Contraction, C3p	386	Ft	$ 1.09	$ 420.74
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8040000	Guardrail, Type B	320	Ft	$ 15.34	$ 4,908.80
2040011	Pavt, Rem	1627	Syd	$ 3.57	$ 5,808.39
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	320	Ft	$ 1.73	$ 553.60
2050010	Embankment, CIP	1670	Cyd	$ 3.53	$ 5,895.10
2050016	Excavation, Earth	3439	Cyd	$ 4.58	$ 15,750.62
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	2554	Syd	$ 2.59	$ 6,614.86
6050100	Conc Quality Assurance	239	Cyd	$ 3.00	$ 717.00
6050101	Conc Quality Initiative	$ 477	Dlr	$ 1.00	$ 477.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	100	Ft	$ 1.14	$ 114.00
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	0	Ft	$ 90.00	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	100	Ft	$ 41.83	$ 4,183.00
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	0	Ea	$ 212.27	$ -
4010835	Culv End Sect, Conc, 24 inch	2	Ea	$ 402.10	$ 804.20
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 26,810.68
	TOTAL OPINION OF PROBABLE COST =				$ 205,548.57

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 EXIT TO 12 MILE (RAMP B)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2918	Syd	$ 41.00	$ 119,638.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1248	Syd	$ 30.00	$ 37,440.00
3077011	Shoulder, Cl II, 13 1/2 inch	455	Syd	$ 18.00	$ 8,190.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	4194	Syd	$ 8.00	$ 33,552.00
3030020	Geotextile Separator	4194	Syd	$ 1.30	$ 5,452.20
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2045	Ft	$ 3.50	$ 7,157.50
4040093	Underdrain Outlet, 6 inch	171	Ft	$ 5.41	$ 925.11
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	92	Ft	$ 15.04	$ 1,383.68
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1641	Ft	$ 8.97	$ 14,719.77
6020201	Joint, Contraction, C3p	702	Ft	$ 1.09	$ 765.18
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8040000	Guardrail, Type B	560	Ft	$ 15.34	$ 8,590.40
2040011	Pavt, Rem	3959	Syd	$ 3.57	$ 14,133.63
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
hold	Guardrail, Rem	560	Ft	$ 1.73	$ 968.80
2050010	Embankment, CIP	5695	Cyd	$ 3.53	$ 20,103.35
2050016	Excavation, Earth	1682	Cyd	$ 4.58	$ 7,703.56
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	4545	Syd	$ 2.59	$ 11,771.55
6050100	Conc Quality Assurance	408	Cyd	$ 3.00	$ 1,224.00
6050101	Conc Quality Initiative	$ 777	Dlr	$ 1.00	$ 777.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	100	Ft	$ 1.14	$ 114.00
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	0	Ft	$ 90.00	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	100	Ft	$ 41.83	$ 4,183.00
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	0	Ea	$ 212.27	$ -
4010835	Culv End Sect, Conc, 24 inch	2	Ea	$ 402.10	$ 804.20
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 44,978.39
	TOTAL OPINION OF PROBABLE COST =				$ 344,834.32

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: NB I-75 ENTRANCE FROM EB 12 MILE (RAMP C)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	9514	Syd	$ 41.00	$ 390,074.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	3323	Syd	$ 30.00	$ 99,690.00
3077011	Shoulder, Cl II, 13 1/2 inch	659	Syd	$ 18.00	$ 11,862.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	14207	Syd	$ 8.00	$ 113,656.00
3030020	Geotextile Separator	14207	Syd	$ 1.30	$ 18,469.10
4040043	Underdrain, Pipe, Open-Graded, 6 inch	10640	Ft	$ 3.50	$ 37,240.00
4040093	Underdrain Outlet, 6 inch	887	Ft	$ 5.41	$ 4,798.67
8027001	Valley Gutter, Conc, 13 1/2 inch	3001	Ft	$ 18.00	$ 54,018.00
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	120	Ft	$ 15.04	$ 1,804.80
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	5352	Ft	$ 8.97	$ 48,007.44
6020201	Joint, Contraction, C3p	1869	Ft	$ 1.09	$ 2,037.21
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8040000	Guardrail, Type B	320	Ft	$ 15.34	$ 4,908.80
2040011	Pavt, Rem	2242	Syd	$ 3.57	$ 8,003.94
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	740	Ft	$ 1.73	$ 1,280.20
2050010	Embankment, CIP	38239	Cyd	$ 3.53	$ 134,983.67
2050016	Excavation, Earth	4411	Cyd	$ 4.58	$ 20,202.38
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	6589	Syd	$ 2.59	$ 17,065.51
6050100	Conc Quality Assurance	1373	Cyd	$ 3.00	$ 4,119.00
6050101	Conc Quality Initiative	$ 3,111	Dlr	$ 1.00	$ 3,111.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	150	Ft	$ 23.66	$ 3,549.00
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	250	Ft	$ 1.14	$ 285.00
4030005	Dr Structure, 48 inch dia	12	Ea	$ 1,064.58	$ 12,774.96
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	11	Ft	$ 100.98	$ 1,110.78
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	1	Ft	$ 90.00	$ 90.00
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	7320	Lb	$ 1.21	$ 8,857.20
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	100	Ft	$ 41.83	$ 4,183.00
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	0	Ea	$ 212.27	$ -
4010835	Culv End Sect, Conc, 24 inch	2	Ea	$ 402.10	$ 804.20
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 151,086.73
	TOTAL OPINION OF PROBABLE COST =				$ 1,158,331.59

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: NB I-75 ENTRANCE FROM WB 12 MILE (RAMP D)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1464	Syd	$ 41.00	$ 60,024.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	617	Syd	$ 30.00	$ 18,510.00
3077011	Shoulder, Cl II, 13 1/2 inch	95	Syd	$ 18.00	$ 1,710.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	2612	Syd	$ 8.00	$ 20,896.00
3030020	Geotextile Separator	2612	Syd	$ 1.30	$ 3,395.60
4040043	Underdrain, Pipe, Open-Graded, 6 inch	426	Ft	$ 3.50	$ 1,491.00
4040093	Underdrain Outlet, 6 inch	36	Ft	$ 5.41	$ 194.76
8027001	Valley Gutter, Conc, 13 1/2 inch	1142	Ft	$ 18.00	$ 20,556.00
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	76	Ft	$ 15.04	$ 1,143.04
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	824	Ft	$ 8.97	$ 7,391.28
6020201	Joint, Contraction, C3p	347	Ft	$ 1.09	$ 378.23
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8040000	Guardrail, Type B	570	Ft	$ 15.34	$ 8,743.80
2040011	Pavt, Rem	1430	Syd	$ 3.57	$ 5,105.10
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	570	Ft	$ 1.73	$ 986.10
2050010	Embankment, CIP	11044	Cyd	$ 3.53	$ 38,985.32
2050016	Excavation, Earth	289	Cyd	$ 4.58	$ 1,323.62
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	947	Syd	$ 2.59	$ 2,452.73
6050100	Conc Quality Assurance	318	Cyd	$ 3.00	$ 954.00
6050101	Conc Quality Initiative	$ 805	Dlr	$ 1.00	$ 805.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	1	Ea	$ 523.79	$ 523.79
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	111	Ft	$ 23.66	$ 2,626.26
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	211	Ft	$ 1.14	$ 240.54
4030005	Dr Structure, 48 inch dia	6	Ea	$ 1,064.58	$ 6,387.48
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	0	Ft	$ 90.00	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	3660	Lb	$ 1.21	$ 4,428.60
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	100	Ft	$ 41.83	$ 4,183.00
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	1	Ea	$ 212.27	$ 212.27
4010835	Culv End Sect, Conc, 24 inch	2	Ea	$ 402.10	$ 804.20
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 32,206.61
	TOTAL OPINION OF PROBABLE COST =				$ 246,917.33

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

		DATE:	Oct 26, 2009
PROJECT:	I-75 ENGINEERING REPORT	PROJECT NO.	JN 88168
LOCATION:	SB I-75 EXIT TO 12 MILE (RAMP E)	ESTIMATOR:	SK
BASIS FOR ESTIMATE:	[X] BASE [ ] PRELIMINARY [ ] FINAL	CHECKED BY:	LAB
WORK:	TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF GARDENIA AVE TO NORTH OF 13 MILE RD		

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2836	Syd	$ 41.00	$ 116,276.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	905	Syd	$ 30.00	$ 27,150.00
3077011	Shoulder, Cl II, 13 1/2 inch	340	Syd	$ 18.00	$ 6,120.00
3037011	Open-Graded Dr Cse., 16 inch, Modified	3818	Syd	$ 8.00	$ 30,544.00
3030020	Geotextile Separator	3818	Syd	$ 1.30	$ 4,963.40
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1528	Ft	$ 3.50	$ 5,348.00
4040093	Underdrain Outlet, 6 inch	128	Ft	$ 5.41	$ 692.48
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	257	Ft	$ 15.04	$ 3,865.28
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1595	Ft	$ 8.97	$ 14,307.15
6020201	Joint, Contraction, C3p	509	Ft	$ 1.09	$ 554.81
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8040000	Guardrail, Type B	400	Ft	$ 15.34	$ 6,136.00
2040011	Pavt, Rem	6504	Syd	$ 3.57	$ 23,219.28
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	400	Ft	$ 1.73	$ 692.00
2050010	Embankment, CIP	11752	Cyd	$ 3.53	$ 41,484.56
2050016	Excavation, Earth	2903	Cyd	$ 4.58	$ 13,295.74
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	3396	Syd	$ 2.59	$ 8,795.64
6050100	Conc Quality Assurance	313	Cyd	$ 3.00	$ 939.00
6050101	Conc Quality Initiative	$ 621	Dlr	$ 1.00	$ 621.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	100	Ft	$ 1.14	$ 114.00
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030007	Dr Structure, Add Depth of 48 inch dia, more than 15 feet	0	Ft	$ 90.00	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4010120	Culv, Cl E, 12 inch	0	Ft	$ 28.09	$ -
4010123	Culv, Cl E, 24 inch	100	Ft	$ 41.83	$ 4,183.00
4010125	Culv, Cl E, 36 inch	0	Ft	$ 72.49	$ -
4010831	Culv End Sect, Conc, 12 inch	0	Ea	$ 212.27	$ -
4010835	Culv End Sect, Conc, 24 inch	2	Ea	$ 402.10	$ 804.20
4010837	Culv End Sect, Conc, 36 inch	0	Ea	$ 1,088.28	$ -
space		space			
	15% Contingency				$ 46,515.83
	TOTAL OPINION OF PROBABLE COST =				$ 356,621.37

2009

2009 CALL FOR PROJECTS BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,036 SFT STRUCTURE ID: P01 OF 63174
LOCATION: Pedestrian Bridge Crossing I-75 South of 12 Mile Rc DECK DIM: 904' x 14'-5"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL PLATE GIRDER**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)	3,172	SFT	$240.00 /SFT	$761,376.00
Other - Ramp	9,863	SFT	$135.00 /SFT	$1,331,542.80
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation		SFT	$27.00 /SFT	
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other		LSUM	LSUM	
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other-Concrete Sidewalk	1,560.0	SFT	$8.00 /SFT	$12,480.00
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,105,000.00	$316,000.00
MOBILIZATION (10% max)	10.0	%	$2,421,000.00	$242,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,663,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,663,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 15,698 SFT STRUCTURE ID: S03-1 OF 63174
LOCATION: NB I-75 over 12 Mile Road DECK DIM: 213'-2 1/4" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 1: Structure Replacement - 3 Span** STR. TYPE: **STEEL PLATE GIRDER**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	15,698	SFT	$155.00 /SFT	$2,433,175.47
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	10,160	SFT	$27.00 /SFT	$274,320.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities	115,000.0	LSUM	$1.00 LSUM	$115,000.00
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,830,000.00	$425,000.00
MOBILIZATION (10% max)	10.0	%	$3,255,000.00	$326,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,581,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$3,581,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 15,705 SFT STRUCTURE ID: S03-2 OF 63174
LOCATION: SB I-75 over 12 Mile Road DECK DIM: 213'-2 1/4" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 1: Structure Replacement - 3 Span** STR. TYPE: **STEEL PLATE GIRDER**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	15,705	SFT	$155.00 /SFT	$2,434,245.94
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other - Temporary Bridge Widening (213'-2 1/4" x 10'-0") (included in MOT cost estimate)	2,132	SFT	$180.00 /SFT	$383,737.50
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation (213'-2 1/4" x 69'-8 1/2")	14,859.8	SFT	$27.00 /SFT	$401,485.26
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,844,000.00	$427,000.00
MOBILIZATION (10% max)	10.0	%	$3,271,000.00	$327,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,598,000.00	$0.00
(DOES NOT INCLUDE PE & CE) (DOES NOT INCLUDE TEMP. WIDENING)		CONSTRUCTION TOTAL		$3,598,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 6,658 SFT STRUCTURE ID: S03-5 OF 63174
LOCATION: EB 12 Mile Road to NB-I-75 Ramp DECK DIM: 213'-0 1/2" x 31'-3"
PRIMARY REPAIR STRATEGY: **Option 1: Structure Replacement - 3 Span** STR. TYPE: **STEEL PLATE GIRDER**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	6,658	SFT	$155.00 /SFT	$1,031,920.57
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation		SFT	$27.00 /SFT	
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$4,000.00 LSUM	$4,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,036,000.00	$155,000.00
MOBILIZATION (10% max)	10.0	%	$1,191,000.00	$119,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$1,310,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$1,310,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,410 SFT STRUCTURE ID: B02-1 OF 63174
LOCATION: NB I-75 over Red Run Drain DECK DIM: 182'-0" x 73'-8"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)		SFT	$180.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)	13,410	SFT	$180.00 /SFT	$2,413,756.80
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	14,817.0	SFT	$27.00 /SFT	$400,059.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,822,000.00	$423,000.00
MOBILIZATION (10% max)	10.0	%	$3,245,000.00	$325,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,570,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$3,570,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,410 SFT STRUCTURE ID: B02-2 OF 63174
LOCATION: SB I-75 over Red Run Drain DECK DIM: 182'-0" x 73'-8"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)	13,410	SFT	$180.00 /SFT	$2,413,756.80
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other - Temporary Bridge Widening (250'-0" x 8'-6") (included in MOT cost estimate)	2,170.0	SFT	$160.00 /SFT	$390,600.00
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation (250'-0" x 56'-10 1/2")	14,218.8	SFT	$27.00 /SFT	$383,906.25
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,806,000.00	$421,000.00
MOBILIZATION (10% max)	5.0	%	$3,227,000.00	$161,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,388,000.00	$0.00
(DOES NOT INCLUDE PE & CE) (DOES NOT INCLUDE TEMP. WIDENING)			CONSTRUCTION TOTAL	$3,388,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 12,816 SFT STRUCTURE ID: B02-5 OF 63174
LOCATION: NB I-75 On-ramp over Red Run Drain DECK DIM: 182'-0" x 70'-5"
PRIMARY REPAIR STRATEGY: **New Structure** STR. TYPE: **STEEL GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)		SFT	$180.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)	12,816	SFT	$180.00 /SFT	$2,306,959.20
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation		SFT	$27.00 /SFT	
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$4,000.00 LSUM	$4,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,311,000.00	$347,000.00
MOBILIZATION (10% max)	10.0	%	$2,658,000.00	$266,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,924,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$2,924,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 7,569 SFT STRUCTURE ID: B02-6 OF 63174
LOCATION: SB I-75 Off-ramp over Red Run Drain DECK DIM: 202'-10" x 37'-6"
PRIMARY REPAIR STRATEGY: **New Structure** STR. TYPE: **STEEL GIRDERS**

	WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE					
	Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
	Multiple spans, Steel (as above)		SFT	$180.00 /SFT	
	Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
	Single span (or multi span over water), Steel (as above)	7,569	SFT	$180.00 /SFT	$1,362,352.50
	Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
	Other				
NEW SUPERSTRUCTURE					
	Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
	Steel (as above)		SFT	$135.00 /SFT	
	Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
	Other				
WIDENING					
	Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
	Other				
NEW DECK					
	Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
	Other				
DEMOLITION					
	Entire bridge, grade separation		SFT	$27.00 /SFT	
	Entire bridge, over water		SFT	$35.00 /SFT	
	Other				
SUPERSTRUCTURE REPAIR					
	Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
	HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
	HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
	Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
	Removal of HMA Overlay		SFT	$1.00 /SFT	
	Epoxy Overlay		SYD	$32.00 /SYD	
	Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
	Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
	PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
	Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
	High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
	Paint Structural Steel		SFT	$9.00 /SFT	
	Partial Painting		SFT	$18.00 /SFT	
	Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
	Other				
SUBSTRUCTURE REPAIR					
	Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
	Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
	Pier replacement (CAP)		CFT	$68.00 /CFT	
	Abutment repair (measured x 2)		CFT	$300.00 /CFT	
	Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
	Slope Protection repairs		SYD	$65.00 /SYD	
	Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS					
	Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
	Bridge Railing, remove and replace		FT	$225.00 /FT	
	Thrie Beam Railing retrofit		FT	$32.00 /FT	
	Deck Drain Extensions		EA	$600.00 EA	
	Scour Countermeasures		LSUM	LSUM	
	Other-Underbridge Lighting	1.0	LSUM	$4,000.00 LSUM	$4,000.00
ROAD WORK					
	Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
	Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
	Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
	Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
	Guardrail Ending (end section)		EA	$1,800.00 /EA	
	Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
	Utilities		LSUM	LSUM	
	Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S					
	Part Width Construction		LSUM	LSUM	
	Crossovers		EA	$150,000.00 EA	
	Temporary Traffic Signals		set	$18,000.00 /set	
	RR Flagging		LSUM	LSUM	
	Detour		LSUM	LSUM	
	Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)		15.0	%	$1,366,000.00	$205,000.00
MOBILIZATION (10% max)		10.0	%	$1,571,000.00	$157,000.00
INFLATION (assume 4% per year, beginning in 2009)		0.0	%	$1,728,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL		$1,728,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: SFT STRUCTURE ID: B02 OF 63174
LOCATION: SB I-75 Off-ramp over Red Run Drain DECK DIM:
PRIMARY REPAIR STRATEGY: **Retaining Walls** STR. TYPE: **REINFORCED CONCRETE**

	WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE					
	Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
	Multiple spans, Steel (as above)		SFT	$180.00 /SFT	
	Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
	Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
	Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
	Other				
NEW SUPERSTRUCTURE					
	Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
	Steel (as above)		SFT	$135.00 /SFT	
	Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
	Other				
WIDENING					
	Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
	Other				
NEW DECK					
	Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
	Other				
DEMOLITION					
	Entire bridge, grade separation		SFT	$27.00 /SFT	
	Entire bridge, over water		SFT	$35.00 /SFT	
	Other				
SUPERSTRUCTURE REPAIR					
	Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
	HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
	HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
	Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
	Removal of HMA Overlay		SFT	$1.00 /SFT	
	Epoxy Overlay		SYD	$32.00 /SYD	
	Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
	Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
	PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
	Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
	High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
	Paint Structural Steel		SFT	$9.00 /SFT	
	Partial Painting		SFT	$18.00 /SFT	
	Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
	Other				
SUBSTRUCTURE REPAIR					
	Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
	Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
	Pier replacement (CAP)		CFT	$68.00 /CFT	
	Abutment repair (measured x 2)		CFT	$300.00 /CFT	
	Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
	Slope Protection repairs		SYD	$65.00 /SYD	
	Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS					
	Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
	Bridge Railing, remove and replace		FT	$225.00 /FT	
	Thrie Beam Railing retrofit		FT	$32.00 /FT	
	Deck Drain Extensions		EA	$600.00 EA	
	Scour Countermeasures		LSUM	LSUM	
	Other - Retaining Walls	1,110.0	FT	$1,000.00 /FT	$1,110,000.00
ROAD WORK					
	Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
	Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
	Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
	Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
	Guardrail Ending (end section)		EA	$1,800.00 /EA	
	Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
	Utilities		LSUM	LSUM	
	Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S					
	Part Width Construction		LSUM	LSUM	
	Crossovers		EA	$150,000.00 EA	
	Temporary Traffic Signals		set	$18,000.00 /set	
	RR Flagging		LSUM	LSUM	
	Detour		LSUM	LSUM	
	Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)		15.0	%	$1,110,000.00	$167,000.00
MOBILIZATION (10% max)		10.0	%	$1,277,000.00	$128,000.00
INFLATION (assume 4% per year, beginning in 2009)		0.0	%	$1,405,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL		$1,405,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,905 SFT STRUCTURE ID: S04-1 OF 63174
LOCATION: NB I-75 OVER 13 MILE ROAD DECK DIM: 161'-6" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **Concrete Beams**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)	11,905.0	SFT	$135.00 /SFT	$1,607,175.00
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	7,985.0	SFT	$27.00 /SFT	$215,595.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other (Roadwork Under)	1.0	LSUM	$92,990.92 LSUM	$92,990.92
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,924,000.00	$289,000.00
MOBILIZATION (10% max)	10.0	%	$2,213,000.00	$221,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,434,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,434,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,905 SFT STRUCTURE ID: S04-2 OF 63174
LOCATION: SB I-75 OVER 13 MILE ROAD DECK DIM: 161'-6" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **Concrete Beams**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)	11,905.0	SFT	$135.00 /SFT	$1,607,175.00
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	7,985.0	SFT	$27.00 /SFT	$215,595.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)	1.0	LSUM	LSUM	$0.00
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,831,000.00	$275,000.00
MOBILIZATION (10% max)	10.0	%	$2,106,000.00	$211,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,317,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,317,000.00

ENGINEER'S ESTIMATE OF QUANTITIES November 1, 2009

ACCESS ENGINEERING, INC.

P.O Box 26, Milford, Michigan 48381 Phone: (248) 684-1033
Fax: (248) 684-4575

PROJECT NOs.: JN 88168A
LOCATION: I-75, Segment 1 (Alt 3 - 2 Lanes Min Each Direction using Crossovers, Option 2)
PRIME CONSULTANT: URS Corporation
PROJECT MANAGER: Laura Aylsworth

DESCRIPTION	PAY ITEM CODE	UNIT	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT COST
Temp Pavement					**$1,120,773.00**
Temp Bridge Widening (S03-2 and B02-2)					**$774,337.50**
Temporary Signal		LS	$75,000.00	3	$225,000.00
Steel Sheet Piling, Temp, Left in Place	7040003	Sft	$24.50	11500	$281,750.00
Pavt Gapping	6020215	Ft	$7.53	5500	$41,415.00
Fence, Protective	8080007	Ft	$2.93	2,450	$7,178.50
Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk	8110035	Ft	$2.20	160	$352.00
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, White	8110037	Ft	$4.88	750	$3,660.00
Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	8110040	Ft	$10.00	80	$800.00
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	8110045	Ea	$120.00	2	$240.00
Pavt Mrkg, Ovly Cold Plastic, Only	8110050	Ea	$100.00	6	$600.00
Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	8110052	Ea	$100.00	2	$200.00
Pavt Mrkg, Ovly Cold Plastic, Thru Arrow Sym	8110060	Ea	$100.00	2	$200.00
Rem Spec Mrkg	8110150	Sft	$1.21	1,380	$1,669.80
Barricade, Type III, High Intensity, Lighted, Furn	8120005	Ea	$74.78	60	$4,486.80
Barricade, Type III, High Intensity, Lighted, Oper	8120006	Ea	$100.00	60	$6,000.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	8120007	Ea	$108.67	60	$6,520.20
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	8120008	Ea	$100.00	60	$6,000.00
Conc Barrier Reflector Replacement	8120010	Ea	$5.39	830	$4,473.70
Conc Barrier, Temp, Adjusted	8120015	Ft	$3.02	14,600	$44,092.00
Conc Barrier, Temp, Furn	8120016	Ft	$11.28	32,450	$366,036.00
Conc Barrier, Temp, Oper	8120017	Ft	$2.50	32,450	$81,125.00
Conc Barrier, Temp, Relocated	8120018	Ft	$4.06	48,480	$196,828.80
Flag Control	8120030	LS	$10,000.00	1	$10,000.00
High Intensity Light, Type B, Furn	8120035	Ea	$105.41	9	$948.69
High Intensity Light, Type B, Oper	8120036	Ea	$25.00	9	$225.00
Lighted Arrow, Type C, Furn	8120042	Ea	$800.00	12	$9,600.00
Lighted Arrow, Type C, Oper	8120043	Ea	$200.00	12	$2,400.00
Lighted Arrow, Type C, Standby	8120044	Ea	$445.58	1	$445.58
Minor Traf Devices	8120050	LS	$10,000.00	1	$10,000.00
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	8120077	Ft	$0.27	119,010	$32,132.70
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	8120078	Ft	$0.35	15,900	$5,565.00
Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp	8120080	Ft	$0.24	51,500	$12,360.00
Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	8120081	Ft	$0.24	41,400	$9,936.00
Pavt Mrkg, Type R, 4 inch, White, Temp	8120090	Ft	$0.79	136,500	$107,835.00
Pavt Mrkg, Type R, 4 inch, Yellow, Temp	8120091	Ft	$0.77	119,200	$91,784.00
Plastic Drum, High Intensity, Lighted, Furn	8120102	Ea	$30.00	900	$27,000.00
Plastic Drum, High Intensity, Lighted, Oper	8120103	Ea	$10.00	800	$8,000.00
Sign Cover	8120105	Ea	$18.80	80	$1,504.00
Sign Cover, Type I	8120106	Ea	$1,000.00	4	$4,000.00
Sign, Portable, Changeable Message, Furn	8120110	Ea	$3,677.63	10	$36,776.30
Sign, Portable, Changeable Message, Oper	8120111	Ea	$500.00	10	$5,000.00
Sign, Type A, Temp, Prismatic, Furn	8120130	Sft	$8.00	190	$1,520.00
Sign, Type A, Temp, Prismatic, Oper	8120131	Sft	$0.80	180	$144.00
Sign, Type B, Temp, Prismatic, Furn	8120135	Sft	$3.35	6,310	$21,138.50
Sign, Type B, Temp, Prismatic, Oper	8120136	Sft	$0.80	5,990	$4,792.00
Mobile Attenuator	8120143	Ea	$4,000.00	6	$24,000.00
Glare Screen, Flexible	8127001	Ft	$10.67	4,730	$50,469.10
Glare Screen, Flexible - Relocate	8127001	Ft	$6.10	4,730	$28,853.00
Glare Screen, Flexible - Replace	8127001	Ft	$0.76	950	$722.00
Sign, Type B, Temp, Prismatic, Special, Furn	8127010	Sft	$7.00	7,470	$52,290.00
Sign, Type B, Temp, Prismatic, Special, Oper	8127010	Sft	$1.00	7,110	$7,110.00
Barrier Gate Temp, Furn	8127050	Ea	$10,000.00	2	$20,000.00
Barrier Gate Temp, Oper	8127050	Ea	$1,000.00	2	$2,000.00
Barrier Gate Temp, Adj	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Relocate	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Open/Close	8127050	Ea	$200.00	10	$2,000.00
Temp Attenuator, Furn	8127050	Ea	$5,200.00	9	$46,800.00
Temp Attenuator, Oper	8127050	Ea	$1,000.00	9	$9,000.00

SEGMENT 2

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NORTH OF 13 MILE TO NORTH OF ROCHESTER RD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

Segment 2 Total = $ 71,043,964.00

Road (NB & SB I-75, 14 Mile Ramps A,B,C, D, E, &F, Rochester Rd Ramps A,B,C, & D, 14 Mile Rd, Noise Walls, and S05, S21, S06)

I-75 Miscellaneous Estimate Items

Mobilization, Max.	3430384	LS	$ 1.00	$ 3,430,384.00
Contractor Staking, Urban	1342613	LS	$ 1.00	$ 1,342,613.00
Staking Plan Errors and Extras, One Person	707	hr	$ 75.00	$ 53,025.00
Staking Plan Errors and Extras, Two Person	283	hr	$ 100.00	$ 28,300.00
Staking Plan Errors and Extras, Three Person	425	hr	$ 125.00	$ 53,125.00
Maintaining Traffic	1	LS	$3,792,494.55	$ 3,792,494.55
ITS	1	LS	$ 1,609,374.00	$ 1,609,374.00
Freeway Lighting/Interchange Lighting	1	LS	$ 600,000.00	$ 600,000.00
Permanent Signing and Pavement Marking	1	LS	$ 131,049.65	$ 131,049.65

Alignment Total: (see breakdown)

I-75 NB SUBTOTAL =	$	14,503,687.67
I-75 SB SUBTOTAL =	$	10,153,093.64
14 MILE RAMP A SUBTOTAL =	$	233,251.51
14 MILE RAMP B SUBTOTAL =	$	437,013.26
14 MILE RAMP C SUBTOTAL =	$	406,999.79
14 MILE RAMP D SUBTOTAL =	$	237,805.17
14 MILE RAMP E SUBTOTAL =	$	262,862.33
14 MILE RAMP F SUBTOTAL =	$	249,324.93
14 MILE RD =	$	1,962,097.69
ROCHESTER RD RAMP A SUBTOTAL =	$	273,781.20
ROCHESTER RD RAMP B SUBTOTAL =	$	634,876.67
ROCHESTER RD RAMP C SUBTOTAL =	$	345,047.99
ROCHESTER RD RAMP D SUBTOTAL =	$	501,369.54

Noise Wall Totals:

NB I-75 STA 999+00 TO STA 1019+00	$	2,000,000.00
SB I-75 STA 1102+00 TO STA 1115+00	$	1,300,000.00
NB I-75 STA 1145+00 TO STA 1158+50	$	1,300,000.00
NB I-75 STA 1156+85 TO STA 1174+00	$	1,715,000.00
SB I-75 STA 1164+20 TO STA 1175+00	$	1,080,000.00
ROCHESTER RD RAMP D	$	904,000.00

Structure Totals:

14 Mile Road (S05-1 and 2)	$	6,422,000.00
Maple Road (S21-1 and 2)	$	5,044,000.00
Rochester Road (S06-1 and 2)	$	9,060,000.00

Miscellaneous Totals:

Aesethic Improvements (1%)	$	651,591.30
Unsuitable Soil (0.5%)	$	325,795.65

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	93867	Syd	$ 30.00	$ 2,816,010.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	13255	Syd	$ 41.00	$ 543,455.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	34838	Syd	$ 30.00	$ 1,045,140.00
3077011	Shoulder, Cl II, 13 1/2 inch	3900	Syd	$ 18.00	$ 70,200.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	154766	Syd	$ 8.00	$ 1,238,128.00
3030020	Geotextile Separator	154766	Syd	$ 1.30	$ 201,195.80
4040063	Underdrain, Pipe, Open-Graded, 6 inch	52638	Ft	$ 3.50	$ 184,233.00
4040093	Underdrain Outlet, 6 inch	4387	Ft	$ 5.41	$ 23,733.67
8027001	Valley Gutter, Conc, 13 1/2 inch	17546	Ft	$ 18.00	$ 315,828.00
8020010	Curb and Gutter, Bridge Approach	300	Ft	$ 31.57	$ 9,471.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.80	$ -
8040005	Conc Barrier, Double Face, Type A	17546	Ft	$ 38.71	$ 679,205.66
8040010	Conc Barrier, Split, Type A	60	Ft	$ 120.00	$ 7,200.00
8040015	Glare Screen, Conc	17546	Ft	$ 6.83	$ 119,839.18
8040016	Glare Screen, Conc, Split	60	Ft	$ 46.27	$ 2,776.20
6020200	Joint, Contraction, Cp	60256	Ft	$ 8.97	$ 540,498.32
6020201	Joint, Contraction, C3p	19596	Ft	$ 1.09	$ 21,359.64
6020207	Joint, Expansion, E2	80	Ft	$ 17.87	$ 1,429.60
6020209	Joint, Expansion, E4	55	Ft	$ 6.18	$ 339.90
6220000	Shoulder Corrugations; Ground or Cut, Conc	35092	Ft	$ 0.90	$ 31,582.80
8070000	Guardrail, Type B	3320	Ft	$ 15.34	$ 50,928.80
2040011	Pavt, Rem	109247	Syd	$ 3.57	$ 390,011.79
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	4945	Ft	$ 1.73	$ 8,554.85
2050010	Embankment, CIP	92242	Cyd	$ 3.53	$ 325,614.26
2050016	Excavation, Earth	98786	Cyd	$ 4.48	$ 443,325.88
8160050	Slope Restoration	38992	Syd	$ 2.59	$ 100,989.28
6050100	Conc Quality Assurance	50001	Cyd	$ 3.00	$ 150,003.00
6050101	Conc Quality Initiative	$ 99,909	Olr	$ 1.00	$ 99,909.00
2030011	Dr Structure, Rem	4	Ea	$ 226.49	$ 905.96
2030015	Sewer, Rem, Less than 24 inch	98	Ft	$ 10.59	$ 1,037.82
2030018	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	12	Ea	$ 259.00	$ 3,108.00
2030002	Culv, Rem, 24 inch to 48 inch	3	Ea	$ 523.79	$ 1,571.37
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	2	Ea	$ 133.32	$ 266.64
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	0	Ft	$ 39.00	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	6203	Ft	$ 29.20	$ 181,127.60
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	544	Ft	$ 23.66	$ 12,871.04
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	6747	Ft	$ 1.14	$ 7,691.58
4030005	Dr Structure, 48 inch dia	66	Ea	$ 1,064.58	$ 70,262.28
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.98	$ -
4030051	Dr Structure Cover	40260	Lb	$ 1.21	$ 48,714.60
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010831	Culv End Sect, 12 inch	56	Ea	$ 215.00	$ 12,040.00
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Drainage Crossings (refer to *Drainage Study*)				$ 2,848,855.00
	Contingency 15%				$ 1,891,785.35
space	TOTAL OPINION OF PROBABLE COST =				$ 14,503,687.67

URS

OPINION OF PRC PROBABLE
2009 CONSTRUCTCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

DATE: Oct 26, 2009
PROJECT NO.: JIN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
8027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	93262	Syd	$ 30.00	$ 2,797,860.00
8027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	9489	Syd	$ 41.00	$ 389,049.00
8027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	34666	Syd	$ 30.00	$ 1,039,980.00
3077011	Shoulder, Cl II, 13 1/2 inch	3900	Syd	$ 18.00	$ 70,200.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	145349	Syd	$ 8.00	$ 1,162,792.00
3030020	Geotextile Separator	145349	Syd	$ 1.30	$ 188,953.70
4040063	Underdrain, Pipe, Open-Graded, 6 inch	52638	Ft	$ 3.50	$ 184,233.00
4040093	Underdrain Outlet, 6 inch	4387	Ft	$ 5.41	$ 23,733.67
8027001	Valley Gutter, Conc, 13 1/2 inch	17546	Ft	$ 18.00	$ 315,828.00
8020010	Curb and Gutter, Bridge Approach	300	Ft	$ 31.57	$ 9,471.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	17546	Ft	$ 6.83	$ 119,839.18
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	57798	Ft	$ 8.97	$ 518,448.06
8020201	Joint, Contraction, C3p	19500	Ft	$ 1.09	$ 21,255.00
8020207	Joint, Expansion, E2	80	Ft	$ 17.87	$ 1,429.60
8020209	Joint, Expansion, E4	55	Ft	$ 6.18	$ 339.90
8220000	Shoulder Corrugations, Ground or Cut, Conc	35092	Ft	$ 0.90	$ 31,582.80
8070000	Guardrail, Type B	3980	Ft	$ 15.34	$ 61,053.20
2040011	Pavt, Rem	110968	Syd	$ 3.57	$ 396,155.76
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	21200	Ft	$ 1.73	$ 36,676.00
2050010	Embankment, CIP	71876	Cyd	$ 3.53	$ 253,722.28
2050016	Excavation, Earth	156350	Cyd	$ 4.58	$ 716,083.00
8160050	Slope Restoration	38992	Syd	$ 2.59	$ 100,999.28
6050100	Conc Quality Assurance	46219	Cyd	$ 3.00	$ 138,657.00
6050101	Conc Quality Initiative	$ 85,660	Dlr	$ 1.00	$ 85,660.00
2030011	Dr Structure, Rem	4	Ea	$ 226.49	$ 905.96
2030015	Sewer, Rem, Less than 24 inch	1094	Ft	$ 10.59	$ 11,585.46
2030016	Sewer, Rem, 24 inch to 48 inch	373	Ft	$ 12.55	$ 4,681.15
2030001	Culv, Rem, Less than 24 inch	2	Ea	$ 259.00	$ 518.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	2	Ea	$ 133.32	$ 266.64
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	0	Ft	$ 39.00	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	670	Ft	$ 29.20	$ 19,564.00
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	158	Ft	$ 23.66	$ 3,738.28
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	828	Ft	$ 1.14	$ 943.92
4030005	Dr Structure, 48 inch dia	68	Ea	$ 1,064.58	$ 72,391.44
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	41480	Lb	$ 1.21	$ 50,190.80
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Contingency 15%				$ 1,324,316.56
space	TOTAL OPINION OF PROBABLE COST =				$ 10,153,093.64

URS

OPINION OF PRCPROBABLE
2009 CONSTRUCTITION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 EXIT TO EB 14 MILE (RAMP A)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

DATE: Oct 26, 2009
PROJECT NO. JIN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
8027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
8027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1761	Syd	$ 41.00	$ 72,201.00
8027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	928	Syd	$ 30.00	$ 27,840.00
3077011	Shoulder, Cl II, 13 1/2 inch	334	Syd	$ 18.00	$ 6,012.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	2756	Syd	$ 8.00	$ 22,048.00
3030020	Geotextile Separator	2756	Syd	$ 1.30	$ 3,582.80
4040063	Underdrain, Pipe, Open-Graded, 6 inch	1500	Ft	$ 3.50	$ 5,250.00
4040093	Underdrain Outlet, 6 inch	125	Ft	$ 5.41	$ 676.25
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	225	Ft	$ 15.04	$ 3,384.00
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	991	Ft	$ 8.97	$ 8,889.27
8020201	Joint, Contraction, C3p	522	Ft	$ 1.09	$ 568.98
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	4070	Syd	$ 3.57	$ 14,529.90
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	5128	Cyd	$ 3.53	$ 18,094.78
2050016	Excavation, Earth	942	Cyd	$ 4.58	$ 4,314.36
8160050	Slope Restoration	3334	Syd	$ 2.59	$ 8,635.06
6050100	Conc Quality Assurance	318	Cyd	$ 3.00	$ 954.00
6050101	Conc Quality Initiative	$ 625	Dlr	$ 1.00	$ 625.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	2	Ea	$ 259.00	$ 518.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 30,424.11
space	TOTAL OPINION OF PROBABLE COST =				$ 233,251.51

URS

OPINION OF PROPROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: NB I-75 ENTRANCE FROM 14 MILE (RAMP B)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	3527	Syd	$ 41.00	$ 144,607.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1485	Syd	$ 30.00	$ 44,550.00
3077011	Shoulder, Cl II, 13 1/2 inch	556	Syd	$ 18.00	$ 10,008.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	5178	Syd	$ 8.00	$ 41,422.00
3030020	Geotextile Separator	5178	Syd	$ 1.30	$ 6,732.70
4040063	Underdrain, Pipe, Open-Graded, 6 inch	2500	Ft	$ 3.50	$ 8,750.00
4040093	Underdrain Outlet, 8 inch	209	Ft	$ 5.41	$ 1,130.89
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	560	Ft	$ 15.04	$ 8,422.40
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 8 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1984	Ft	$ 8.97	$ 17,796.48
8020201	Joint, Contraction, C3p	835	Ft	$ 1.09	$ 910.15
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	4028	Syd	$ 3.57	$ 14,379.98
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	2897	Cyd	$ 3.53	$ 10,226.41
2050016	Excavation, Earth	10715	Cyd	$ 4.58	$ 49,074.70
8160050	Slope Restoration	5556	Syd	$ 2.59	$ 14,390.04
6050100	Conc Quality Assurance	526	Cyd	$ 3.00	$ 1,578.00
6050101	Conc Quality Initiative	$ 1,060	Dlr	$ 1.00	$ 1,060.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030018	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.86	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,084.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.89	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 57,001.73
space	TOTAL OPINION OF PROBABLE COST =				$ 437,013.26

URS

OPINION OF PROPROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: SB I-75 ENTRANCE FROM 14 MILE (RAMP C)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	3368	Syd	$ 41.00	$ 138,088.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1481	Syd	$ 30.00	$ 43,830.00
3077011	Shoulder, Cl II, 13 1/2 inch	532	Syd	$ 18.00	$ 9,576.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	4892	Syd	$ 8.00	$ 39,136.00
3030020	Geotextile Separator	4892	Syd	$ 1.30	$ 6,359.60
4040063	Underdrain, Pipe, Open-Graded, 6 inch	2390	Ft	$ 3.50	$ 8,365.00
4040093	Underdrain Outlet, 8 inch	200	Ft	$ 5.41	$ 1,082.00
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	210	Ft	$ 15.04	$ 3,158.40
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 8 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1895	Ft	$ 8.97	$ 16,998.15
8020201	Joint, Contraction, C3p	822	Ft	$ 1.09	$ 895.98
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	5027	Syd	$ 3.57	$ 17,946.39
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	992	Cyd	$ 3.53	$ 3,501.76
2050016	Excavation, Earth	9575	Cyd	$ 4.58	$ 43,853.50
8160050	Slope Restoration	5312	Syd	$ 2.59	$ 13,758.08
6050100	Conc Quality Assurance	487	Cyd	$ 3.00	$ 1,461.00
6050101	Conc Quality Initiative	$ 940	Dlr	$ 1.00	$ 940.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030018	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.86	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,084.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.89	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 53,086.93
space	TOTAL OPINION OF PROBABLE COST =				$ 406,999.79

URS

OPINION OF PROPROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 EXIT TO WB 14 MILE (RAMP D)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1782	Syd	$ 41.00	$ 73,062.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	943	Syd	$ 30.00	$ 28,290.00
3077011	Shoulder, Cl II, 13 1/2 inch	345	Syd	$ 18.00	$ 6,210.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	2792	Syd	$ 8.00	$ 22,336.00
3030020	Geotextile Separator	2792	Syd	$ 1.30	$ 3,629.60
4040063	Underdrain, Pipe, Open-Graded, 6 inch	1550	Ft	$ 3.50	$ 5,425.00
4040093	Underdrain Outlet, 8 inch	130	Ft	$ 5.41	$ 703.30
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	225	Ft	$ 15.04	$ 3,384.00
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1002	Ft	$ 8.97	$ 8,987.94
8020201	Joint, Contraction, C3p	531	Ft	$ 1.09	$ 578.79
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	2966	Syd	$ 3.57	$ 10,588.62
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	3242	Cyd	$ 3.53	$ 11,444.26
2050016	Excavation, Earth	3638	Cyd	$ 4.58	$ 16,662.04
8160050	Slope Restoration	3445	Syd	$ 2.59	$ 8,922.55
6050100	Conc Quality Assurance	322	Cyd	$ 3.00	$ 966.00
6050101	Conc Quality Initiative	$ 634	Dlr	$ 1.00	$ 634.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,084.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 31,018.07
space	TOTAL OPINION OF PROBABLE COST =				$ 237,805.17

URS

OPINION OF PROPROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 EXIT TO EB 14 MILE (RAMP E)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1722	Syd	$ 41.00	$ 70,602.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1162	Syd	$ 30.00	$ 34,860.00
3077011	Shoulder, Cl II, 13 1/2 inch	452	Syd	$ 18.00	$ 8,136.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	2884	Syd	$ 8.00	$ 23,072.00
3030020	Geotextile Separator	2884	Syd	$ 1.30	$ 3,749.20
4040063	Underdrain, Pipe, Open-Graded, 6 inch	2030	Ft	$ 3.50	$ 7,105.00
4040093	Underdrain Outlet, 8 inch	170	Ft	$ 5.41	$ 919.70
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	989	Ft	$ 8.97	$ 8,891.93
8020201	Joint, Contraction, C3p	654	Ft	$ 1.09	$ 712.86
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	170	Ft	$ 15.34	$ 2,607.80
2040011	Pavt, Rem	2808	Syd	$ 3.57	$ 10,024.56
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	170	Ft	$ 1.73	$ 294.10
2050010	Embankment, CIP	8715	Cyd	$ 3.53	$ 30,763.95
2050016	Excavation, Earth	1872	Cyd	$ 4.58	$ 8,573.76
8160050	Slope Restoration	4512	Syd	$ 2.59	$ 11,686.08
6050100	Conc Quality Assurance	372	Cyd	$ 3.00	$ 1,116.00
6050101	Conc Quality Initiative	$ 698	Dlr	$ 1.00	$ 698.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,084.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 34,286.38
space	TOTAL OPINION OF PROBABLE COST =				$ 262,862.33

URS

OPINION OF PROPROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NO I-75 EXIT TO NO 14 MILE (RAMP F)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1875	Syd	$ 41.00	$ 58,675.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1130	Syd	$ 30.00	$ 33,900.00
3077011	Shoulder, Cl II, 13 1/2 inch	448	Syd	$ 19.00	$ 8,064.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	2809	Syd	$ 8.00	$ 22,440.00
3030020	Geotextile Separator	2005	Syd	$ 1.30	$ 3,646.50
4040063	Underdrain, Pipe, Open-Graded, 8 inch	2019	Ft	$ 3.50	$ 7,056.00
4040093	Underdrain Outlet, 8 inch	168	Ft	$ 5.41	$ 909.88
6027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	942	Ft	$ 8.97	$ 8,449.74
8020201	Joint, Contraction, C3p	636	Ft	$ 1.09	$ 693.24
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	270	Ft	$ 15.34	$ 4,141.80
2040011	Pavt, Rem	3088	Syd	$ 3.57	$ 11,017.02
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	250	Ft	$ 1.73	$ 432.50
2050010	Embankment, CIP	7471	Cyd	$ 3.53	$ 26,372.63
2050016	Excavation, Earth	641	Cyd	$ 4.58	$ 2,935.78
8180050	Slope Restoration	4480	Syd	$ 2.59	$ 11,603.20
6050100	Conc Quality Assurance	392	Cyd	$ 3.00	$ 1,086.00
6050101	Conc Quality Initiative	$ 678	Dlr	$ 1.00	$ 678.00
2030011	Dr Structure, Rem	0	Ea	$ 226.48	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 13.65	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 38.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030008	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.88	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 32,520.64
space	TOTAL OPINION OF PROBABLE COST =				$ 249,324.93

URS

OPINION OF PROPROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: 14 MILE ROAD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	21056	Syd	$ 41.00	$ 863,296.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	0	Syd	$ 30.00	$ -
3077011	Shoulder, Cl II, 13 1/2 inch	159	Syd	$ 18.00	$ 2,862.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	21999	Syd	$ 8.00	$ 175,992.00
3030020	Geotextile Separator	21999	Syd	$ 1.30	$ 28,598.70
4040063	Underdrain, Pipe, Open-Graded, 8 inch	7800	Ft	$ 3.50	$ 27,300.00
4040093	Underdrain Outlet, 8 inch	850	Ft	$ 5.41	$ 3,518.50
6027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	3178	Ft	$ 15.04	$ 47,797.12
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	6650	Sft	$ 3.60	$ 23,940.00
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	11844	Ft	$ 8.97	$ 106,240.68
8020201	Joint, Contraction, C3p	0	Ft	$ 1.09	$ -
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	455	Ft	$ 15.34	$ 6,979.70
2040011	Pavt, Rem	22233	Syd	$ 3.57	$ 79,371.81
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	380	Ft	$ 1.73	$ 657.40
2050010	Embankment, CIP	9618	Cyd	$ 3.53	$ 33,944.48
2050016	Excavation, Earth	28845	Cyd	$ 4.58	$ 132,110.10
8180050	Slope Restoration	8667	Syd	$ 2.59	$ 22,447.53
6050100	Conc Quality Assurance	418	Cyd	$ 3.00	$ 1,254.00
6050101	Conc Quality Initiative	$ 1,435	Dlr	$ 1.00	$ 1,435.00
2030011	Dr Structure, Rem	7	Ea	$ 226.48	$ 1,585.43
2030015	Sewer, Rem, Less than 24 inch	198	Ft	$ 10.59	$ 2,075.64
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	6	Ea	$ 133.32	$ 799.92
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	0	Ft	$ 39.00	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	895	Ft	$ 29.20	$ 26,134.00
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	491	Ft	$ 34.77	$ 17,072.07
4020036	Sewer, Cl A, 24 inch, Tr Det B	1035	Ft	$ 44.39	$ 45,943.65
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 38.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	779	Ft	$ 23.66	$ 18,431.14
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	3200	Ft	$ 1.14	$ 3,648.00
4030005	Dr Structure, 48 inch dia	17	Ea	$ 1,064.58	$ 18,097.86
4030008	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	8	Ft	$ 100.98	$ 808.82
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.88	$ -
4030051	Dr Structure Cover	11135	Lb	$ 1.21	$ 13,473.35
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Contingency 15%				$ 255,925.79
space	TOTAL OPINION OF PROBABLE COST =				$ 1,962,097.69

URS

OPINION OF PROPROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 ENTRANCE FROM ROCHESTER RD (RAMP A)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1800	Syd	$ 41.00	$ 73,800.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	645	Syd	$ 30.00	$ 19,350.00
3077011	Shoulder, Cl II, 13 1/2 inch	340	Syd	$ 18.00	$ 6,120.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	2480	Syd	$ 8.00	$ 19,840.00
3030020	Geotextile Separator	2480	Syd	$ 1.30	$ 3,224.00
4040063	Underdrain, Pipe, Open-Graded, 6 inch	1530	Ft	$ 3.50	$ 5,355.00
4040093	Underdrain Outlet, 6 inch	128	Ft	$ 5.41	$ 692.48
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	115	Ft	$ 15.04	$ 1,729.60
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	660	Sft	$ 3.60	$ 2,376.00
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$
8020200	Joint, Contraction, Cp	1013	Ft	$ 8.97	$ 9,086.61
8020201	Joint, Contraction, C3p	363	Ft	$ 1.09	$ 395.67
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	1200	Ft	$ 15.34	$ 18,408.00
2040011	Pavt, Rem	2913	Syd	$ 3.57	$ 10,399.41
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	1200	Ft	$ 1.73	$ 2,076.00
2050010	Embankment, CIP	13600	Cyd	$ 3.53	$ 48,008.00
2050016	Excavation, Earth	498	Cyd	$ 4.58	$ 2,280.84
8160050	Slope Restoration	3400	Syd	$ 2.59	$ 8,806.00
6050100	Conc Quality Assurance	230	Cyd	$ 3.00	$ 690.00
6050101	Conc Quality Initiative	$ 470	Dlr	$ 1.00	$ 470.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 193.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 289.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 88.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.69	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 85.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 89.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 35,710.59
space	TOTAL OPINION OF PROBABLE COST =				$ 273,781.20

URS

OPINION OF PROPROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 EXIT TO ROCHESTER ROAD (RAMP B)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	6041	Syd	$ 41.00	$ 247,681.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1801	Syd	$ 30.00	$ 54,030.00
3077011	Shoulder, Cl II, 13 1/2 inch	856	Syd	$ 18.00	$ 11,808.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	7880	Syd	$ 8.00	$ 63,040.00
3030020	Geotextile Separator	7880	Syd	$ 1.30	$ 10,244.00
4040063	Underdrain, Pipe, Open-Graded, 6 inch	2950	Ft	$ 3.50	$ 10,325.00
4040093	Underdrain Outlet, 8 inch	246	Ft	$ 5.41	$ 1,330.86
6027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	125	Ft	$ 15.04	$ 1,880.00
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	3398	Ft	$ 8.97	$ 30,480.06
8020201	Joint, Contraction, C3p	1014	Ft	$ 1.09	$ 1,105.26
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	750	Ft	$ 15.34	$ 11,505.00
2040011	Pavt, Rem	8672	Syd	$ 3.57	$ 23,819.04
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	750	Ft	$ 1.73	$ 1,297.50
2050010	Embankment, CIP	8447	Cyd	$ 3.53	$ 22,757.91
2050016	Excavation, Earth	4415	Cyd	$ 4.58	$ 20,220.70
8160050	Slope Restoration	6556	Syd	$ 2.59	$ 16,980.04
6050100	Conc Quality Assurance	588	Cyd	$ 3.00	$ 1,764.00
6050101	Conc Quality Initiative	$ 1,119	Dlr	$ 1.00	$ 1,119.00
2030011	Dr Structure, Rem	9	Ea	$ 226.49	$ 2,038.41
2030015	Sewer, Rem, Less than 24 inch	842	Ft	$ 10.59	$ 8,916.78
2030018	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	7	Ea	$ 259.00	$ 1,813.00
2030002	Culv, Rem, 24 inch to 48 inch	1	Ea	$ 523.79	$ 523.79
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.86	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.89	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 82,810.00
space	TOTAL OPINION OF PROBABLE COST =				$ 634,876.67

URS

OPINION OF PROPROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 ENTRANCE FROM ROCHESTER RD (RAMP C)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2943	Syd	$ 41.00	$ 120,663.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	1145	Syd	$ 30.00	$ 34,350.00
3077011	Shoulder, Cl II, 13 1/2 inch	557	Syd	$ 18.00	$ 10,026.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	4128	Syd	$ 8.00	$ 33,032.00
3030020	Geotextile Separator	4129	Syd	$ 1.30	$ 5,367.70
4040063	Underdrain, Pipe, Open-Graded, 6 inch	2506	Ft	$ 3.50	$ 8,771.00
4040093	Underdrain Outlet, 8 inch	209	Ft	$ 5.41	$ 1,130.69
6027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	137	Ft	$ 15.04	$ 2,060.48
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	469	Sft	$ 3.60	$ 1,688.40
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1655	Ft	$ 8.97	$ 14,845.35
8020201	Joint, Contraction, C3p	644	Ft	$ 1.09	$ 701.96
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	650	Ft	$ 15.34	$ 9,971.00
2040011	Pavt, Rem	4570	Syd	$ 3.57	$ 16,314.90
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	220	Ft	$ 1.73	$ 380.60
2050010	Embankment, CIP	2838	Cyd	$ 3.53	$ 10,018.14
2050016	Excavation, Earth	2110	Cyd	$ 4.58	$ 9,663.80
8160050	Slope Restoration	5589	Syd	$ 2.59	$ 14,423.71
6050100	Conc Quality Assurance	389	Cyd	$ 3.00	$ 1,167.00
6050101	Conc Quality Initiative	$ 762	Dlr	$ 1.00	$ 762.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030018	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.86	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.89	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 45,006.26
space	TOTAL OPINION OF PROBABLE COST =				$ 345,047.99

URS

OPINION OF PROPROBABLE 2009 CONSTRUCTITION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: SB I-75 EXIT TO ROCHESTER RD (RAMP D)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF 13 MILE TO NORTH OF ROCHESTER RD

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
8027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
8027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	3858	Syd	$ 41.00	$ 158,178.00
8027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR	2254	Syd	$ 30.00	$ 67,620.00
3077011	Shoulder, Cl II, 13 1/2 inch	705	Syd	$ 18.00	$ 12,690.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	8142	Syd	$ 6.00	$ 48,136.00
3030020	Geotextile Separator	8142	Syd	$ 1.30	$ 7,884.60
4040063	Underdrain, Pipe, Open-Graded, 6 inch	3172	Ft	$ 3.50	$ 11,102.00
4040093	Underdrain Outlet, 8 inch	265	Ft	$ 5.41	$ 1,433.65
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	100	Ft	$ 15.04	$ 1,504.00
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040018	Glare Screen, Conc, Split	0	Ft	$ 45.27	$
8020200	Joint, Contraction, Cp	2170	Ft	$ 8.97	$ 19,464.90
8020201	Joint, Contraction, Csp	1288	Ft	$ 1.09	$ 1,382.12
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	8820	Syd	$ 3.57	$ 24,347.40
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	811	Cyd	$ 3.53	$ 2,862.83
2050016	Excavation, Earth	11295	Cyd	$ 4.58	$ 51,731.10
8160050	Slope Restoration	7049	Syd	$ 2.59	$ 18,256.91
8050100	Conc Quality Assurance	731	Cyd	$ 3.00	$ 2,193.00
8050101	Conc Quality Initiative	$ 1,383	Dlr	$ 1.00	$ 1,383.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.06	$ -
4010003	Culv, Cl A, 24 inch	100	Ft	$ 39.00	$ 3,900.00
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,084.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 65,396.03
space	TOTAL OPINION OF PROBABLE COST =				$ 501,369.54

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,928 SFT STRUCTURE ID: S21-1 OF 63174
LOCATION: NB I-75 OVER 15 MILE ROAD DECK DIM: 161'-11" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **CONCRETE BEAMS**

	WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE					
	Multiple spans, Concrete (add demo. & road approach & traffic control)	11,928	SFT	$135.00 /SFT	$1,610,294.40
	Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
	Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
	Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
	Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
	Other				
NEW SUPERSTRUCTURE					
	Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
	Steel (as above)		SFT	$135.00 /SFT	
	Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
	Other				
WIDENING					
	Added portion only. 16 ft of width (add road approach widening)		SFT	$175.00 /SFT	
	Other				
NEW DECK					
	Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
	Other				
DEMOLITION					
	Entire bridge, grade separation	7,237	SFT	$27.00 /SFT	$195,390.00
	Entire bridge, over water		SFT	$35.00 /SFT	
	Other				
SUPERSTRUCTURE REPAIR					
	Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
	HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
	HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
	Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
	Removal of HMA Overlay		SFT	$1.00 /SFT	
	Epoxy Overlay		SYD	$32.00 /SYD	
	Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
	Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
	PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
	Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
	High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
	Paint Structural Steel		SFT	$9.00 /SFT	
	Partial Painting		SFT	$18.00 /SFT	
	Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
	Other				
SUBSTRUCTURE REPAIR					
	Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
	Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
	Pier replacement (CAP)		CFT	$68.00 /CFT	
	Abutment repair (measured x 2)		CFT	$300.00 /CFT	
	Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
	Slope Protection repairs		SYD	$65.00 /SYD	
	Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS					
	Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
	Bridge Railing, remove and replace		FT	$225.00 /FT	
	Thrie Beam Railing retrofit		FT	$32.00 /FT	
	Deck Drain Extensions		EA	$600.00 EA	
	Scour Countermeasures		LSUM	LSUM	
	Other- Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK					
	Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
	Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
	Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
	Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
	Guardrail Ending (end section)		EA	$1,800.00 /EA	
	Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
	Utilities	1.0	LSUM	$275,000.00 LSUM	$275,000.00
	Other (Roadwork Linden)	1.0	LSUM	$84,351.77 LSUM	$84,351.77
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S					
	Part Width Construction		LSUM	LSUM	
	Crossovers		EA	$150,000.00 EA	
	Temporary Traffic Signals		set	$18,000.00 /set	
	RR Flagging		LSUM	LSUM	
	Detour		LSUM	LSUM	
	Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)		15.0	%	$2,173,000.00	$326,000.00
MOBILIZATION (10% max)		10.0	%	$2,499,000.00	$250,000.00
INFLATION (assume 4% per year, beginning in 2009)		0.0	%	$2,749,000.00	$0.00
(DOES NOT INCLUDE PE & CE)				CONSTRUCTION TOTAL	$2,749,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,928 SFT STRUCTURE ID: S21-2 OF 63174
LOCATION: SB I-75 OVER 15 MILE ROAD DECK DIM: 161'-11" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **CONCRETE BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)	11,928	SFT	$135.00 /SFT	$1,610,294.40
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 18 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	7,237	SFT	$27.00 /SFT	$195,390.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other- Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,814,000.00	$272,000.00
MOBILIZATION (10% max)	10.0	%	$2,086,000.00	$209,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,295,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,295,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 20,462 SFT STRUCTURE ID: S06-1 OF 63174
LOCATION: NB I-75 over M-150/Rochester Road DECK DIM: 222'-10" x 91'-10"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	20,462	SFT	$155.00 /SFT	$3,171,684.23
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,577.0	SFT	$27.00 /SFT	$258,579.37
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other- Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities	1.0	LSUM	$230,000.00 LSUM	$230,000.00
Other (Roadwork Under)	1.0	LSUM	$146,906.56 LSUM	$146,906.56
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$3,815,000.00	$572,000.00
MOBILIZATION (10% max)	10.0	%	$4,387,000.00	$439,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$4,826,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$4,826,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 19,876 SFT STRUCTURE ID: S06-2 OF 63174
LOCATION: SB I-75 over M-150/Rochester Road DECK DIM: 222'-10" x 89'-1"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	19,876	SFT	$155.00 /SFT	$3,080,847.58
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,577.0	SFT	$27.00 /SFT	$258,579.37
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other- Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$3,347,000.00	$502,000.00
MOBILIZATION (10% max)	10.0	%	$3,849,000.00	$385,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$4,234,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$4,234,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV 1/29/09

ENGINEER: Jeremy Hedden, PE DATE: 12/18/2009 DECK AREA: 13,527 SFT STRUCTURE ID: S05-1 of 63174
LOCATION: I-75 NB over 14 Mile Road DECK DIM: 91'-8 1/2" x 147'-6"
PRIMARY REPAIR STRATEGY: **Option 1a - Structure Replacement - 1 Span (Concrete)** STR. TYPE: **70" Michigan 1800 Girder**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)	13,527.0	SFT	$160.00 /SFT	$2,164,320.00
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. _____ ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	13,527.0	SFT	$27.00 /SFT	$365,229.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,538,000.00	$381,000.00
MOBILIZATION (10% max)	10.0	%	$2,919,000.00	$292,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,211,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$3,211,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV 1/29/09

ENGINEER: Jeremy Hedden, PE DATE: 12/18/2009 DECK AREA: 13,527 SFT STRUCTURE ID: S05-2 of 63174
LOCATION: I-75 SB over 14 Mile Road DECK DIM: 91'-8 1/2" x 147'-6"
PRIMARY REPAIR STRATEGY: **Option 1a - Structure Replacement - 1 Span (Concrete)** STR. TYPE: **70" Michigan 1800 Girder**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)	13,527.00	SFT	$160.00 /SFT	$2,164,320.00
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. _____ ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	13,527.0	SFT	$27.00 /SFT	$365,229.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $5200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,538,000.00	$381,000.00
MOBILIZATION (10% max)	10.0	%	$2,919,000.00	$292,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,211,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$3,211,000.00

ENGINEER'S ESTIMATE OF QUANTITIES
ACCESS ENGINEERING, INC.

November 1, 2009

P.O Box 26, Milford, Michigan 48381
Phone: (248) 684-1033
Fax: (248) 684-4575

PROJECT NOs.: JN 88168A
LOCATION: I-75, Segment 2 (Alt 3 - 2 Lanes Min Each Direction using Crossovers)
PRIME CONSULTANT: URS Corporation
PROJECT MANAGER: Laura Aylsworth

DESCRIPTION	PAY ITEM CODE	UNIT	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT COST
Temp Pavement					**$894,364.00**
Temporary Signal		LS	$75,000.00	2	$150,000.00
Steel Sheet Piling, Temp, Left in Place	7040003	Sft	$24.50	10000	$245,000.00
Pavt Gapping	6020215	Ft	$7.53	11000	$82,830.00
Fence, Protective	8080007	Ft	$2.93	4,980	$14,591.40
Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk	8110035	Ft	$2.20	160	$352.00
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, White	8110037	Ft	$4.88	750	$3,660.00
Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	8110040	Ft	$10.00	80	$800.00
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	8110045	Ea	$120.00	2	$240.00
Pavt Mrkg, Ovly Cold Plastic, Only	8110050	Ea	$100.00	6	$600.00
Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	8110052	Ea	$100.00	2	$200.00
Pavt Mrkg, Ovly Cold Plastic, Thru Arrow Sym	8110060	Ea	$100.00	2	$200.00
Rem Spec Mrkg	8110150	Sft	$1.21	1,380	$1,669.80
Barricade, Type III, High Intensity, Lighted, Furn	8120005	Ea	$74.78	50	$3,739.00
Barricade, Type III, High Intensity, Lighted, Oper	8120006	Ea	$100.00	50	$5,000.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	8120007	Ea	$108.67	70	$7,606.90
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	8120008	Ea	$100.00	70	$7,000.00
Conc Barrier Reflector Replacement	8120010	Ea	$5.39	1,250	$6,737.50
Conc Barrier, Temp, Adjusted	8120015	Ft	$3.02	30,000	$90,600.00
Conc Barrier, Temp, Furn	8120016	Ft	$11.28	48,910	$551,704.80
Conc Barrier, Temp, Oper	8120017	Ft	$2.50	48,910	$122,275.00
Conc Barrier, Temp, Relocated	8120018	Ft	$4.06	41,860	$169,951.60
Flag Control	8120030	LS	$10,000.00	1	$10,000.00
High Intensity Light, Type B, Furn	8120035	Ea	$105.41	17	$1,791.97
High Intensity Light, Type B, Oper	8120036	Ea	$25.00	17	$425.00
Lighted Arrow, Type C, Furn	8120042	Ea	$800.00	11	$8,800.00
Lighted Arrow, Type C, Oper	8120043	Ea	$200.00	11	$2,200.00
Lighted Arrow, Type C, Standby	8120044	Ea	$445.58	1	$445.58
Minor Traf Devices	8120050	LS	$10,000.00	1	$10,000.00
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	8120077	Ft	$0.27	236,520	$63,860.40
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	8120078	Ft	$0.35	18,900	$6,615.00
Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp	8120080	Ft	$0.24	114,400	$27,456.00
Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	8120081	Ft	$0.24	81,200	$19,488.00
Pavt Mrkg, Type R, 4 inch, White, Temp	8120090	Ft	$0.79	179,500	$141,805.00
Pavt Mrkg, Type R, 4 inch, Yellow, Temp	8120091	Ft	$0.77	165,400	$127,358.00
Plastic Drum, High Intensity, Lighted, Furn	8120102	Ea	$30.00	1,500	$45,000.00
Plastic Drum, High Intensity, Lighted, Oper	8120103	Ea	$10.00	1,400	$14,000.00
Sign Cover	8120105	Ea	$18.80	86	$1,616.80
Sign Cover, Type I	8120106	Ea	$1,000.00	6	$6,000.00
Sign, Portable, Changeable Message, Furn	8120110	Ea	$3,677.63	10	$36,776.30
Sign, Portable, Changeable Message, Oper	8120111	Ea	$500.00	10	$5,000.00
Sign, Type A, Temp, Prismatic, Furn	8120130	Sft	$8.00	190	$1,520.00
Sign, Type A, Temp, Prismatic, Oper	8120131	Sft	$0.80	180	$144.00
Sign, Type B, Temp, Prismatic, Furn	8120135	Sft	$3.35	7,030	$23,550.50
Sign, Type B, Temp, Prismatic, Oper	8120136	Sft	$0.80	6,670	$5,336.00
Mobile Attenuator	8120143	Ea	$4,000.00	6	$24,000.00
Glare Screen, Flexible	8127001	Ft	$10.67	9,240	$98,590.80
Glare Screen, Flexible - Relocate	8127001	Ft	$6.10	9,240	$56,364.00
Glare Screen, Flexible - Replace	8127001	Ft	$0.76	1,850	$1,406.00
Sign, Type B, Temp, Prismatic, Special, Furn	8127010	Sft	$7.00	8,520	$59,640.00
Sign, Type B, Temp, Prismatic, Special, Oper	8127010	Sft	$1.00	8,110	$8,110.00
Barrier Gate Temp, Furn	8127050	Ea	$10,000.00	2	$20,000.00
Barrier Gate Temp, Oper	8127050	Ea	$1,000.00	2	$2,000.00
Barrier Gate Temp, Adj	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Relocate	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Open/Close	8127050	Ea	$200.00	10	$2,000.00
Temp Attenuator, Furn	8127050	Ea	$5,200.00	17	$88,400.00
Temp Attenuator, Oper	8127050	Ea	$1,000.00	17	$17,000.00
				TOTAL COST OF PROJECT	**$3,297,821.35**
				Plus 15% Contingency	**$3,792,494.55**

SEGMENT 3

URS

OPINION OF PROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NORTH OF ROCHESTER RD TO NORTH OF WATTLES
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF ROCHESTER RD TO NORTH OF WATTLES

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

Segment 3 Total				**$**	**68,893,683**

Road (NB & SB I-75, Big Beaver Rd Ramps A,B,C, D, E, F, G, & H, Noise Walls, and S08, S9, S010)

I-75 Miscellaneous Estimate Items

Mobilization, Max.	3326557	LS	$ 1.00	$	3,326,557.00
Contractor Staking, Urban	1301975	LS	$ 1.00	$	1,301,975.00
Staking Plan Errors and Extras, One Person	686	hr	$ 75.00	$	51,450.00
Staking Plan Errors and Extras, Two Person	275	hr	$ 100.00	$	27,500.00
Staking Plan Errors and Extras, Three Person	412	hr	$ 125.00	$	51,500.00
Maintaining Traffic	1	LS	$3,518,147.17	$	3,518,147.17
ITS	1	LS	$ 1,927,205.00	$	1,927,205.00
Freeway Lighting/Interchange Lighting	1	LS	$ 500,000.00	$	500,000.00
Permanent Signing and Pavement Marking	1	LS	$ 105,888.89	$	105,888.89

Alignment Total: (see breakdown)

I-75 NB SUBTOTAL =	$	11,192,940.64
I-75 SB SUBTOTAL =	$	7,991,042.51
I-75 NB CD RD SUBTOTAL =	$	1,430,175.97
I-75 SB CD RD SUBTOTAL =	$	1,234,029.51
BIG BEAVER RAMP A SUBTOTAL =	$	372,031.93
BIG BEAVER RAMP B SUBTOTAL =	$	375,133.62
BIG BEAVER RAMP C SUBTOTAL =	$	287,454.39
BIG BEAVER RAMP D SUBTOTAL =	$	321,217.75
BIG BEAVER RAMP E SUBTOTAL =	$	254,590.97
BIG BEAVER RAMP F SUBTOTAL =	$	389,489.10
BIG BEAVER RAMP G SUBTOTAL =	$	304,753.91
BIG BEAVER RAMP H SUBTOTAL =	$	289,795.37

Noise Wall Totals:

SB I-75 STA 1175+00 TO STA 1182+00	$	700,000.00
SB I-75 STA 1182+00 TO STA 1189+60	$	760,000.00
SB I-75 STA 1255+00 TO STA 1283+00	$	2,800,000.00

Structure Totals:

Livernois (S08-1 and 2)	$	5,513,000.00
Big Beaver (S09-1, 2, 5, and 6)	$	18,088,000.00
Wattles Road over I-75 (S10)	$	4,832,000.00

Miscellaneous Totals:

Aesethic Improvements (1%)	$	631,868.97
Unsuitable Soil (0.5%)	$	315,934.48

URS

OPINION OF PROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF ROCHESTER RD TO NORTH OF WATTLES

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	73887	Syd	$ 30.00	$ 2,216,010.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	6945	Syd	$ 41.00	$ 284,745.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	26345	Syd	$ 30.00	$ 790,350.00
3077011	Shoulder, Cl II, 13 1/2 inch	2167	Syd	$ 18.00	$ 39,006.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	120217	Syd	$ 8.00	$ 961,736.00
3030020	Geotextile Separator	120217	Syd	$ 1.30	$ 156,282.10
4040043	Underdrain, Pipe, Open-Graded, 8 inch	49825	Ft	$ 3.50	$ 174,387.50
4040093	Underdrain Outlet, 6 inch	4153	Ft	$ 5.41	$ 22,467.73
8027001	Valley Gutter, Conc, 13 1/2 inch	17980	Ft	$ 18.00	$ 323,280.00
8020010	Curb and Gutter, Bridge Approach	200	Ft	$ 31.57	$ 6,314.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 8 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	17980	Ft	$ 38.71	$ 695,231.80
8040010	Conc Barrier, Split, Type A	60	Ft	$ 120.00	$ 7,200.00
8040015	Glare Screen, Conc	13905	Ft	$ 6.83	$ 94,971.15
8040016	Glare Screen, Conc, Split	60	Ft	$ 45.27	$ 2,716.20
6020200	Joint, Contraction, Cp	45457	Ft	$ 8.97	$ 407,749.29
6020201	Joint, Contraction, C3p	14819	Ft	$ 1.09	$ 16,152.71
6020207	Joint, Expansion, E2	32	Ft	$ 17.87	$ 571.84
6020209	Joint, Expansion, E4	30	Ft	$ 6.18	$ 185.40
8220000	Shoulder Corrugations, Ground or Cut, Conc	27812	Ft	$ 0.90	$ 25,030.80
8070000	Guardrail, Type B	1890	Ft	$ 15.34	$ 28,992.60
2040011	Pavt, Rem	85162	Syd	$ 3.57	$ 304,028.34
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	5970	Ft	$ 1.73	$ 10,328.10
2050010	Embankment, CIP	56888	Cyd	$ 3.53	$ 200,807.58
2050018	Excavation, Earth	91330	Cyd	$ 4.59	$ 418,291.40
8160050	Slope Restoration	21667	Syd	$ 2.59	$ 56,117.53
6050100	Conc Quality Assurance	40269	Cyd	$ 3.00	$ 120,807.00
6050101	Conc Quality Initiative	$ 82,722	Dlr	$ 1.00	$ 82,722.00
2030011	Dr Structure, Rem	18	Ea	$ 226.49	$ 4,076.82
2030015	Sewer, Rem, Less than 24 inch	566	Ft	$ 10.59	$ 5,993.94
2030018	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	7	Ea	$ 259.00	$ 1,813.00
2030002	Culv, Rem, 24 inch to 48 inch	1	Ea	$ 523.79	$ 523.79
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	3	Ea	$ 133.32	$ 399.96
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	4617	Ft	$ 29.20	$ 134,816.40
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.92	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	411	Ft	$ 23.66	$ 9,724.26
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	5028	Ft	$ 1.14	$ 5,731.92
4030005	Dr Structure, 48 inch dia	69	Ea	$ 1,064.58	$ 73,458.02
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	1	Ft	$ 100.98	$ 100.98
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	42080	Lb	$ 1.21	$ 50,928.80
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	33	Ea	$ 215.00	$ 7,095.00
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Drainage Crossings (refer to *Drainage Study*)				$ 1,989,299.00
	Contingency 15%				$ 1,459,948.78
space	TOTAL OPINION OF PROBABLE COST =				$ 11,192,940.64

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF ROCHESTER RD TO NORTH OF WATTLES

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	74362	Syd	$ 30.00	$ 2,230,860.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	6957	Syd	$ 41.00	$ 285,237.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	27173	Syd	$ 30.00	$ 815,190.00
3077011	Shoulder, Cl II, 13 1/2 inch	2429	Syd	$ 18.00	$ 43,722.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	117006	Syd	$ 8.00	$ 936,048.00
3030020	Geotextile Separator	117006	Syd	$ 1.30	$ 152,107.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	50710	Ft	$ 3.50	$ 177,485.00
4040093	Underdrain Outlet, 6 inch	4226	Ft	$ 5.41	$ 22,862.66
8027001	Valley Gutter, Conc, 13 1/2 inch	17074	Ft	$ 18.00	$ 307,332.00
8020010	Curb and Gutter, Bridge Approach	100	Ft	$ 31.57	$ 3,157.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	3169	Ft	$ 38.71	$ 122,671.99
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	45742	Ft	$ 8.97	$ 410,305.74
6020201	Joint, Contraction, C3p	15285	Ft	$ 1.09	$ 16,660.65
6020207	Joint, Expansion, E2	32	Ft	$ 17.87	$ 571.84
6020209	Joint, Expansion, E4	30	Ft	$ 6.18	$ 185.40
8220000	Shoulder Corrugations; Ground or Cut; Conc	27810	Ft	$ 0.90	$ 25,029.00
8070000	Guardrail, Type B	2180	Ft	$ 15.34	$ 33,441.20
2040011	Pavt, Rem	81346	Syd	$ 3.57	$ 290,405.22
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	13185	Ft	$ 1.73	$ 22,775.45
2050010	Embankment, CIP	81807	Cyd	$ 3.53	$ 218,531.71
2050016	Excavation, Earth	94729	Cyd	$ 4.58	$ 433,858.82
8160050	Slope Restoration	24289	Syd	$ 2.59	$ 62,908.51
6050100	Conc Quality Assurance	34831	Cyd	$ 3.00	$ 104,493.00
6050101	Conc Quality Initiative	$ 89,585	Dlr	$ 1.00	$ 89,585.00
2030011	Dr Structure, Rem	15	Ea	$ 226.49	$ 3,397.35
2030015	Sewer, Rem, Less than 24 inch	321	Ft	$ 10.59	$ 3,399.39
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	2	Ea	$ 259.00	$ 518.00
2030002	Culv, Rem, 24 inch to 48 inch	1	Ea	$ 523.79	$ 523.79
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	2	Ea	$ 133.32	$ 266.64
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	1214	Ft	$ 29.20	$ 35,448.80
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	14	Ft	$ 23.66	$ 331.24
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	1228	Ft	$ 1.14	$ 1,399.92
4030005	Dr Structure, 48 inch dia	64	Ea	$ 1,064.58	$ 68,133.12
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	1	Ft	$ 100.98	$ 100.98
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	39040	Lb	$ 1.21	$ 47,238.40
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Contingency 15%				$ 1,042,309.89
space	TOTAL OPINION OF PROBABLE COST =				$ 7,991,042.51

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 COLLECTOR DISTRIBUTOR RD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
NORTH OF ROCHESTER RD TO NORTH OF WATTLES

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	11357	Syd	$ 41.00	$ 465,637.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	4917	Syd	$ 30.00	$ 147,510.00
3077011	Shoulder, Cl II, 13 1/2 inch	888	Syd	$ 18.00	$ 15,984.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	18076	Syd	$ 8.00	$ 144,608.00
3030020	Geotextile Separator	18076	Syd	$ 1.30	$ 23,498.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	7986	Ft	$ 3.50	$ 27,951.00
4040093	Underdrain Outlet, 6 inch	666	Ft	$ 5.41	$ 3,603.06
8027001	Valley Gutter, Conc, 13 1/2 inch	4054	Ft	$ 18.00	$ 72,972.00
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	6389	Ft	$ 8.97	$ 57,309.33
6020201	Joint, Contraction, C3p	2786	Ft	$ 1.09	$ 3,034.94
6020207	Joint, Expansion, E2	64	Ft	$ 17.87	$ 1,143.68
6020209	Joint, Expansion, E4	44	Ft	$ 6.18	$ 271.92
8220000	Shoulder Corrugations; Ground or Cut; Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	715	Ft	$ 15.34	$ 10,968.10
2040011	Pavt, Rem	14238	Syd	$ 3.57	$ 50,829.66
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	455	Ft	$ 1.73	$ 787.15
2050010	Embankment, CIP	18037	Cyd	$ 3.53	$ 63,670.61
2050016	Excavation, Earth	7298	Cyd	$ 4.58	$ 33,424.84
8160050	Slope Restoration	8874	Syd	$ 2.59	$ 22,983.66
6050100	Conc Quality Assurance	1977	Cyd	$ 3.00	$ 5,931.00
6050101	Conc Quality Initiative	$ 4,410	Dlr	$ 1.00	$ 4,410.00
2030011	Dr Structure, Rem	13	Ea	$ 226.49	$ 2,944.37
2030015	Sewer, Rem, Less than 24 inch	1039	Ft	$ 10.59	$ 10,939.47
2030016	Sewer, Rem, 24 inch to 48 inch	345	Ft	$ 12.55	$ 4,329.75
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	7	Ea	$ 133.32	$ 933.24
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	1041	Ft	$ 29.20	$ 30,397.20
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	119	Ft	$ 23.66	$ 2,815.54
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	1160	Ft	$ 1.14	$ 1,322.40
4030005	Dr Structure, 48 inch dia	17	Ea	$ 1,064.58	$ 18,097.86
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	10370	Lb	$ 1.21	$ 12,547.70
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	13	Ea	$ 215.00	$ 2,795.00
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Contingency 15%				$ 186,544.89
space	TOTAL OPINION OF PROBABLE COST =				$ 1,430,175.97

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7694

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 COLLECTOR DISTRIBUTOR RD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	9058	Syd	$ 41.00	$ 371,378.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	3918	Syd	$ 30.00	$ 117,480.00
3077011	Shoulder, Cl II, 13 1/2 inch	718	Syd	$ 18.00	$ 12,924.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	14383	Syd	$ 8.00	$ 115,064.00
3030020	Geotextile Separator	14383	Syd	$ 1.30	$ 18,697.90
4040043	Underdrain, Pipe, Open-Graded, 6 inch	6456	Ft	$ 3.50	$ 22,596.00
4040083	Underdrain Outlet, 6 inch	538	Ft	$ 5.41	$ 2,910.58
8027001	Valley Gutter, Conc, 13 1/2 inch	3169	Ft	$ 18.00	$ 57,042.00
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	5095	Ft	$ 8.97	$ 45,702.15
6020201	Joint, Contraction, C3p	2203	Ft	$ 1.09	$ 2,401.27
6020207	Joint, Expansion, E2	64	Ft	$ 17.87	$ 1,143.68
6020208	Joint, Expansion, E4	44	Ft	$ 6.18	$ 271.92
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	380	Ft	$ 15.34	$ 5,829.20
2040011	Pavt, Rem	16936	Syd	$ 3.57	$ 60,461.52
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	380	Ft	$ 1.73	$ 657.40
2050010	Embankment, CIP	43013	Cyd	$ 3.53	$ 151,835.89
2050016	Excavation, Earth	3860	Cyd	$ 4.58	$ 17,678.80
8160050	Slope Restoration	7174	Syd	$ 2.59	$ 18,580.66
6050100	Conc Quality Assurance	1568	Cyd	$ 3.00	$ 4,704.00
6050101	Conc Quality Initiative	$ 3,491	Dlr	$ 1.00	$ 3,491.00
2030011	Dr Structure, Rem	15	Ea	$ 226.49	$ 3,397.35
2030015	Sewer, Rem, Less than 24 inch	1438	Ft	$ 10.59	$ 15,226.42
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	11	Ea	$ 133.32	$ 1,466.52
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	70	Ft	$ 29.20	$ 2,044.00
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	7	Ft	$ 23.66	$ 165.62
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	77	Ft	$ 1.14	$ 87.78
4030005	Dr Structure, 48 inch dia	11	Ea	$ 1,064.58	$ 11,710.38
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	6710	Lb	$ 1.21	$ 8,119.10
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Contingency 15%				$ 180,960.37
space	TOTAL OPINION OF PROBABLE COST =				$ 1,234,029.51

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7694

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 ENTRANCE FROM ED BIG BEAVER (RAMP A)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2526	Syd	$ 41.00	$ 103,566.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1623	Syd	$ 30.00	$ 48,690.00
3077011	Shoulder, Cl II, 13 1/2 inch	548	Syd	$ 18.00	$ 9,864.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	4214	Syd	$ 8.00	$ 33,712.00
3030020	Geotextile Separator	4214	Syd	$ 1.30	$ 5,478.20
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2462	Ft	$ 3.50	$ 8,617.00
4040083	Underdrain Outlet, 6 inch	206	Ft	$ 5.41	$ 1,114.46
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	219	Ft	$ 15.04	$ 3,293.76
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	125	Sft	$ 3.60	$ 450.00
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1421	Ft	$ 8.97	$ 12,748.37
6020201	Joint, Contraction, C3p	913	Ft	$ 1.09	$ 995.17
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	870	Ft	$ 15.34	$ 13,345.80
2040011	Pavt, Rem	4187	Syd	$ 3.57	$ 14,947.59
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	870	Ft	$ 1.73	$ 1,505.10
2050010	Embankment, CIP	7912	Cyd	$ 3.53	$ 27,929.36
2050016	Excavation, Earth	3091	Cyd	$ 4.58	$ 14,156.78
8160050	Slope Restoration	5472	Syd	$ 2.59	$ 14,172.48
6050100	Conc Quality Assurance	542	Cyd	$ 3.00	$ 1,626.00
6050101	Conc Quality Initiative	$ 1,049	Dlr	$ 1.00	$ 1,049.00
2030011	Dr Structure, Rem	1	Ea	$ 226.49	$ 226.49
2030015	Sewer, Rem, Less than 24 inch	85	Ft	$ 10.59	$ 900.15
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 48,525.90
space	TOTAL OPINION OF PROBABLE COST =				$ 372,031.93

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7694

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 EXIT TO WB BIG BEAVER (RAMP B)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2978	Syd	$ 41.00	$ 122,098.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1562	Syd	$ 30.00	$ 46,860.00
3077011	Shoulder, Cl II, 13 1/2 inch	568	Syd	$ 18.00	$ 10,224.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	4686	Syd	$ 8.00	$ 37,488.00
3030020	Geotextile Separator	4686	Syd	$ 1.30	$ 6,091.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2554	Ft	$ 3.50	$ 8,939.00
4040083	Underdrain Outlet, 6 inch	213	Ft	$ 5.41	$ 1,152.33
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	490	Ft	$ 15.04	$ 7,369.60
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	1985	Sft	$ 3.60	$ 7,146.00
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1675	Ft	$ 8.97	$ 15,024.75
6020201	Joint, Contraction, C3p	879	Ft	$ 1.09	$ 958.11
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	40	Ft	$ 15.34	$ 613.60
2040011	Pavt, Rem	4479	Syd	$ 3.57	$ 15,990.03
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	40	Ft	$ 1.73	$ 69.20
2050010	Embankment, CIP	788	Cyd	$ 3.53	$ 2,711.04
2050016	Excavation, Earth	4492	Cyd	$ 4.58	$ 20,573.36
8160050	Slope Restoration	5676	Syd	$ 2.59	$ 14,700.84
6050100	Conc Quality Assurance	584	Cyd	$ 3.00	$ 1,752.00
6050101	Conc Quality Initiative	$ 1,228	Dlr	$ 1.00	$ 1,228.00
2030011	Dr Structure, Rem	1	Ea	$ 228.49	$ 228.49
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 48,930.47
space	TOTAL OPINION OF PROBABLE COST =				$ 375,133.62

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7694

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 EXIT TO EB BIG BEAVER (RAMP C)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2276	Syd	$ 41.00	$ 93,316.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1111	Syd	$ 30.00	$ 33,330.00
3077011	Shoulder, Cl II, 13 1/2 inch	400	Syd	$ 18.00	$ 7,200.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3458	Syd	$ 8.00	$ 27,664.00
3030020	Geotextile Separator	3458	Syd	$ 1.30	$ 4,495.40
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1800	Ft	$ 3.50	$ 6,300.00
4040083	Underdrain Outlet, 6 inch	150	Ft	$ 5.41	$ 811.50
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	239	Ft	$ 15.04	$ 3,594.56
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1281	Ft	$ 8.97	$ 11,490.57
6020201	Joint, Contraction, C3p	625	Ft	$ 1.09	$ 681.25
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	3564	Syd	$ 3.57	$ 12,723.48
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	1060	Cyd	$ 3.53	$ 3,741.80
2050016	Excavation, Earth	5723	Cyd	$ 4.58	$ 26,211.34
8160050	Slope Restoration	4000	Syd	$ 2.59	$ 10,360.00
6050100	Conc Quality Assurance	377	Cyd	$ 3.00	$ 1,131.00
6050101	Conc Quality Initiative	$ 739	Dlr	$ 1.00	$ 739.00
2030011	Dr Structure, Rem	3	Ea	$ 226.49	$ 679.47
2030015	Sewer, Rem, Less than 24 inch	35	Ft	$ 10.59	$ 370.65
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 37,484.05
space	TOTAL OPINION OF PROBABLE COST =				$ 287,454.39

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 ENTRANCE FROM WB BIG BEAVER (RAMP D)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2287	Syd	$ 41.00	$ 93,767.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1501	Syd	$ 30.00	$ 45,030.00
3077011	Shoulder, Cl II, 13 1/2 inch	495	Syd	$ 18.00	$ 8,910.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3852	Syd	$ 8.00	$ 30,816.00
3030020	Geotextile Separator	3852	Syd	$ 1.30	$ 5,007.60
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2224	Ft	$ 3.50	$ 7,784.00
4040093	Underdrain Outlet, 6 inch	186	Ft	$ 5.41	$ 1,006.26
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	214	Ft	$ 15.04	$ 3,218.56
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	164	Sft	$ 3.60	$ 590.40
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1286	Ft	$ 8.97	$ 11,535.42
6020201	Joint, Contraction, C3p	845	Ft	$ 1.09	$ 921.05
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	3790	Syd	$ 3.57	$ 13,530.30
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	1364	Cyd	$ 3.53	$ 4,814.92
2050016	Excavation, Earth	8955	Cyd	$ 4.58	$ 31,853.90
8160050	Slope Restoration	4943	Syd	$ 2.59	$ 12,802.37
6050100	Conc Quality Assurance	503	Cyd	$ 3.00	$ 1,509.00
6050101	Conc Quality Initiative	$ 977	Dlr	$ 1.00	$ 977.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.98	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 41,897.97
space	TOTAL OPINION OF PROBABLE COST =				$ 321,217.75

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 EXIT TO EB BIG BEAVER (RAMP E)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2005	Syd	$ 41.00	$ 82,205.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1024	Syd	$ 30.00	$ 30,720.00
3077011	Shoulder, Cl II, 13 1/2 inch	352	Syd	$ 18.00	$ 6,336.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3089	Syd	$ 8.00	$ 24,552.00
3030020	Geotextile Separator	3089	Syd	$ 1.30	$ 3,989.70
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1584	Ft	$ 3.50	$ 5,544.00
4040093	Underdrain Outlet, 6 inch	132	Ft	$ 5.41	$ 714.12
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	132	Ft	$ 15.04	$ 1,985.28
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1128	Ft	$ 8.97	$ 10,118.16
6020201	Joint, Contraction, C3p	576	Ft	$ 1.09	$ 627.84
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	215	Ft	$ 15.34	$ 3,298.10
2040011	Pavt, Rem	3013	Syd	$ 3.57	$ 10,758.41
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	215	Ft	$ 1.73	$ 371.95
2050010	Embankment, CIP	4559	Cyd	$ 3.53	$ 16,093.27
2050016	Excavation, Earth	1725	Cyd	$ 4.58	$ 7,900.50
8160050	Slope Restoration	3520	Syd	$ 2.59	$ 9,118.80
6050100	Conc Quality Assurance	340	Cyd	$ 3.00	$ 1,020.00
6050101	Conc Quality Initiative	$ 655	Dlr	$ 1.00	$ 655.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.98	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 33,207.52
space	TOTAL OPINION OF PROBABLE COST =				$ 254,590.97

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7694

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: SB I-75 ENTRANCE FROM WB BIG BEAVER (RAMP F)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	3423	Syd	$ 41.00	$ 140,343.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	937	Syd	$ 30.00	$ 28,110.00
3077011	Shoulder, Cl II, 13 1/2 inch	323	Syd	$ 18.00	$ 5,814.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	4575	Syd	$ 8.00	$ 36,600.00
3030020	Geotextile Separator	4575	Syd	$ 1.30	$ 5,947.50
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2628	Ft	$ 3.50	$ 8,848.00
4040083	Underdrain Outlet, 6 inch	211	Ft	$ 5.41	$ 1,141.51
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	724	Ft	$ 15.04	$ 10,888.96
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	5546	Sft	$ 3.60	$ 19,965.60
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1925	Ft	$ 8.97	$ 17,267.25
6020201	Joint, Contraction, C3p	527	Ft	$ 1.09	$ 574.43
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	300	Ft	$ 15.34	$ 4,602.00
2040011	Pavt, Rem	2686	Syd	$ 3.57	$ 9,589.02
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	120	Ft	$ 1.73	$ 207.60
2050010	Embankment, CIP	6186	Cyd	$ 3.53	$ 21,765.98
2050016	Excavation, Earth	980	Cyd	$ 4.58	$ 4,030.40
8160050	Slope Restoration	5618	Syd	$ 2.59	$ 14,550.62
6050100	Conc Quality Assurance	476	Cyd	$ 3.00	$ 1,428.00
6050101	Conc Quality Initiative	$ 1,180	Dlr	$ 1.00	$ 1,180.00
2030011	Dr Structure, Rem	2	Ea	$ 226.49	$ 452.98
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 50,802.93
space	TOTAL OPINION OF PROBABLE COST =				$ 389,489.10

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7694

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 88168
LOCATION: NB I-75 ENTRANCE FROM EB BIG BEAVER (RAMP G)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2340	Syd	$ 41.00	$ 95,940.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	796	Syd	$ 30.00	$ 23,880.00
3077011	Shoulder, Cl II, 13 1/2 inch	279	Syd	$ 18.00	$ 5,022.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3336	Syd	$ 8.00	$ 26,688.00
3030020	Geotextile Separator	3336	Syd	$ 1.30	$ 4,336.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2088	Ft	$ 3.50	$ 7,301.00
4040083	Underdrain Outlet, 6 inch	174	Ft	$ 5.41	$ 941.34
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	671	Ft	$ 15.04	$ 10,091.84
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	5346	Sft	$ 3.60	$ 19,245.60
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
6020200	Joint, Contraction, Cp	1316	Ft	$ 8.97	$ 11,804.52
6020201	Joint, Contraction, C3p	448	Ft	$ 1.09	$ 488.32
6020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
6020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	255	Ft	$ 15.34	$ 3,911.70
2040011	Pavt, Rem	2154	Syd	$ 3.57	$ 7,689.78
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	255	Ft	$ 1.73	$ 441.15
2050010	Embankment, CIP	8804	Cyd	$ 3.53	$ 24,018.12
2050016	Excavation, Earth	663	Cyd	$ 4.58	$ 3,036.54
8160050	Slope Restoration	4636	Syd	$ 2.59	$ 12,007.24
6050100	Conc Quality Assurance	422	Cyd	$ 3.00	$ 1,266.00
6050101	Conc Quality Initiative	$ 1,065	Dlr	$ 1.00	$ 1,065.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	55	Ft	$ 10.59	$ 582.45
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 48.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 39,750.51
space	TOTAL OPINION OF PROBABLE COST =				$ 304,753.91

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

DATE: Oct 26, 2009
PROJECT: I-75 ENGINEERING REPORT
PROJECT NO. JN 08168
LOCATION: NB I-75 EXIT TO WB BIG BEAVER (RAMP H)
ESTIMATOR: SK
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
CHECKED BY: LAB
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 NORTH OF ROCHESTER RD TO NORTH OF WATTLES

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2418	Syd	$ 41.00	$ 99,138.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	937	Syd	$ 30.00	$ 28,110.00
3077011	Shoulder, Cl II, 13 1/2 inch	316	Syd	$ 18.00	$ 5,688.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3398	Syd	$ 8.00	$ 27,184.00
3030020	Geotextile Separator	3398	Syd	$ 1.30	$ 4,417.40
4040043	Underdrain, Pipe, OpenGraded, 6 inch	1420	Ft	$ 3.50	$ 4,970.00
4040093	Underdrain Outlet, 6 inch	119	Ft	$ 5.41	$ 643.79
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	143	Ft	$ 15.04	$ 2,150.72
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 8 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1380	Ft	$ 8.97	$ 12,199.20
8020201	Joint, Contraction, C3p	527	Ft	$ 1.09	$ 574.43
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	307	Ft	$ 15.34	$ 4,709.38
2040011	Pavt, Rem	3833	Syd	$ 3.57	$ 13,683.81
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	307	Ft	$ 1.73	$ 531.11
2050010	Embankment, CIP	5183	Cyd	$ 3.53	$ 18,331.29
2050016	Excavation, Earth	3025	Cyd	$ 4.58	$ 13,854.50
8160050	Slope Restoration	3156	Syd	$ 2.59	$ 8,174.04
6050100	Conc Quality Assurance	313	Cyd	$ 3.00	$ 939.00
6050101	Conc Quality Initiative	$ 606	Dlr	$ 1.00	$ 606.00
2030011	Dr Structure, Rem	2	Ea	$ 226.49	$ 452.98
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	2	Ea	$ 259.00	$ 518.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.78	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.98	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,084.56	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.68	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 37,799.40
space	TOTAL OPINION OF PROBABLE COST =				$ 289,795.37

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 15,575 SFT STRUCTURE ID: S10 OF 63174
LOCATION: Wattles Road over I-75 DECK DIM: 248' x 62'-10"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL PLATE GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	15,575	SFT	$155.00 /SFT	$2,414,125.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,292	SFT	$27.00 /SFT	$250,884.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
DMS Sign Relocation	2.0	EA	$300,000.00 EA	$600,000.00
ROAD WORK				
Approach Pavement, 9 1/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)	1.0	LSUM	$224,513.57 LSUM	$224,513.57
Utilities	1.0	LSUM	$330,000.00 LSUM	$330,000.00
Other		LSUM	LSUM	
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$3,820,000.00	$573,000.00
MOBILIZATION (10% max)	10.0	%	$4,393,000.00	$439,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$4,832,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$4,832,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,846 SFT STRUCTURE ID: S08-2 OF 63174
LOCATION: SB I-75 OVER LIVERNOIS AVENUE DECK DIM: 160'-3" x 73'-11"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	11,846	SFT	$155.00 /SFT	$1,836,080.40
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	7,255	SFT	$27.00 /SFT	$195,897.72
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,040,000.00	$306,000.00
MOBILIZATION (10% max)	10.0	%	$2,346,000.00	$235,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,581,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,581,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 12,980 SFT STRUCTURE ID: S08-1 OF 63174
LOCATION: NB I-75 OVER LIVERNOIS AVENUE DECK DIM: 160'-3" x 81'-0"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	12,980	SFT	$155.00 /SFT	$2,011,938.75
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	7,255	SFT	$27.00 /SFT	$195,897.72
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other - Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other (Roadwork Under)	1.0	LSUM	$101,546.16 LSUM	$101,546.16
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,317,000.00	$348,000.00
MOBILIZATION (10% max)	10.0	%	$2,665,000.00	$267,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,932,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,932,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,643 SFT STRUCTURE ID: S09-6 OF 63174
LOCATION: SB I-75 CD Ramp over Big Beaver Rd. DECK DIM: 294'-3" x 46'-5"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	13,643	SFT	$180.00 /SFT	$2,455,740.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	8,394	SFT	$27.00 /SFT	$226,638.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$4,000.00 LSUM	$4,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$9.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,685,000.00	$403,000.00
MOBILIZATION (10% max)	10.0	%	$3,089,000.00	$309,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,398,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$3,398,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 21,882 SFT STRUCTURE ID: S09-1 OF 63174
LOCATION: NB I-75 OVER BIG BEAVER ROAD DECK DIM: 298'-0" x 73'-8"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	21,882	SFT	$180.00 /SFT	$3,938,760.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,516	SFT	$27.00 /SFT	$256,932.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seal		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$9.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities	1.0	LSUM	$215,000.00 LSUM	$215,000.00
Other (Roadwork Under)	1.0	LSUM	$354,654.48 LSUM	$354,654.48
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$4,773,000.00	$716,000.00
MOBILIZATION (10% max)	10.0	%	$5,489,000.00	$549,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$6,038,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$6,038,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 21,749 SFT STRUCTURE ID: S09-2 OF 63174
LOCATION: SB I-75 OVER BIG BEAVER ROAD DECK DIM: 295'-4" x 73'-8"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	21,749	SFT	$180.00 /SFT	$3,914,820.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,551	SFT	$27.00 /SFT	$257,877.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		sel	$18,000.00 /sel	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$4,181,000.00	$627,000.00
MOBILIZATION (10% max)	10.0	%	$4,808,000.00	$481,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$5,289,000.00	$0.00

(DOES NOT INCLUDE PE & CE) **CONSTRUCTION TOTAL** **$5,289,000.00**

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,465 SFT STRUCTURE ID: S09-5 OF 63174
LOCATION: NB I-75 CD Ramp over Big Beaver Rd. DECK DIM: 298'-3" x 45'-1"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	13,465	SFT	$180.00 /SFT	$2,423,700.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	8,521	SFT	$27.00 /SFT	$230,067.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting	1.0	LSUM	$4,000.00 LSUM	$4,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		sel	$18,000.00 /sel	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,658,000.00	$399,000.00
MOBILIZATION (10% max)	10.0	%	$3,057,000.00	$306,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,363,000.00	$0.00

(DOES NOT INCLUDE PE & CE) **CONSTRUCTION TOTAL** **$3,363,000.00**

ENGINEER'S ESTIMATE OF QUANTITIES

November 1, 2009

ACCESS ENGINEERING, INC.

P.O Box 26, Milford, Michigan 48381

Phone: (248) 684-1033
Fax: (248) 684-4575

PROJECT NOs.: JN 88168A
LOCATION: I-75, Segment 3 (Alt 3 - 2 Lanes Min Each Direction using Crossovers)
PRIME CONSULTANT: URS Corporation
PROJECT MANAGER: Laura Aylsworth

DESCRIPTION	PAY ITEM CODE	UNIT	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT COST
Temp Pavement					**$821,004.00**
Steel Sheet Piling, Temp, Left in Place	7040003	Sft	$24.50	15000	$367,500.00
Pavt Gapping	6020215	Ft	$7.53	11000	$82,830.00
Fence, Protective	8080007	Ft	$2.93	4,980	$14,591.40
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, White	8110037	Ft	$4.88	750	$3,660.00
Rem Spec Mrkg	8110150	Sft	$1.21	750	$907.50
Barricade, Type III, High Intensity, Lighted, Furn	8120005	Ea	$74.78	90	$6,730.20
Barricade, Type III, High Intensity, Lighted, Oper	8120006	Ea	$100.00	90	$9,000.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	8120007	Ea	$108.67	60	$6,520.20
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	8120008	Ea	$100.00	60	$6,000.00
Conc Barrier Reflector Replacement	8120010	Ea	$5.39	1,080	$5,821.20
Conc Barrier, Temp, Adjusted	8120015	Ft	$3.02	24,000	$72,480.00
Conc Barrier, Temp, Furn	8120016	Ft	$11.28	42,060	$474,436.80
Conc Barrier, Temp, Oper	8120017	Ft	$2.50	42,060	$105,150.00
Conc Barrier, Temp, Relocated	8120018	Ft	$4.06	35,830	$145,469.80
Flag Control	8120030	LS	$10,000.00	1	$10,000.00
High Intensity Light, Type B, Furn	8120035	Ea	$105.41	13	$1,370.33
High Intensity Light, Type B, Oper	8120036	Ea	$25.00	13	$325.00
Lighted Arrow, Type C, Furn	8120042	Ea	$800.00	20	$16,000.00
Lighted Arrow, Type C, Oper	8120043	Ea	$200.00	20	$4,000.00
Lighted Arrow, Type C, Standby	8120044	Ea	$445.58	1	$445.58
Minor Traf Devices	8120050	LS	$10,000.00	1	$10,000.00
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	8120077	Ft	$0.27	212,270	$57,312.90
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	8120078	Ft	$0.35	12,600	$4,410.00
Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp	8120080	Ft	$0.24	96,900	$23,256.00
Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	8120081	Ft	$0.24	63,900	$15,336.00
Pavt Mrkg, Type R, 4 inch, White, Temp	8120090	Ft	$0.79	160,200	$126,558.00
Pavt Mrkg, Type R, 4 inch, Yellow, Temp	8120091	Ft	$0.77	153,000	$117,810.00
Plastic Drum, High Intensity, Lighted, Furn	8120102	Ea	$30.00	1,500	$45,000.00
Plastic Drum, High Intensity, Lighted, Oper	8120103	Ea	$10.00	1,400	$14,000.00
Sign Cover	8120105	Ea	$18.80	82	$1,541.60
Sign Cover, Type I	8120106	Ea	$1,000.00	6	$6,000.00
Sign, Portable, Changeable Message, Furn	8120110	Ea	$3,677.63	10	$36,776.30
Sign, Portable, Changeable Message, Oper	8120111	Ea	$500.00	10	$5,000.00
Sign, Type A, Temp, Prismatic, Furn	8120130	Sft	$8.00	140	$1,120.00
Sign, Type A, Temp, Prismatic, Oper	8120131	Sft	$0.80	130	$104.00
Sign, Type B, Temp, Prismatic, Furn	8120135	Sft	$3.35	10,980	$36,783.00
Sign, Type B, Temp, Prismatic, Oper	8120136	Sft	$0.80	10,440	$8,352.00
Mobile Attenuator	8120143	Ea	$4,000.00	6	$24,000.00
Glare Screen, Flexible	8127001	Ft	$10.67	8,140	$86,853.80
Glare Screen, Flexible - Relocate	8127001	Ft	$6.10	8,140	$49,654.00
Glare Screen, Flexible - Replace	8127001	Ft	$0.76	1,630	$1,238.80
Sign, Type B, Temp, Prismatic, Special, Furn	8127010	Sft	$7.00	16,010	$112,070.00
Sign, Type B, Temp, Prismatic, Special, Oper	8127010	Sft	$1.00	15,240	$15,240.00
Barrier Gate Temp, Furn	8127050	Ea	$10,000.00	2	$20,000.00
Barrier Gate Temp, Oper	8127050	Ea	$1,000.00	2	$2,000.00
Barrier Gate Temp, Adj	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Relocate	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Open/Close	8127050	Ea	$200.00	10	$2,000.00
Temp Attenuator, Furn	8127050	Ea	$5,200.00	13	$67,600.00
Temp Attenuator, Oper	8127050	Ea	$1,000.00	13	$13,000.00
				TOTAL COST OF PROJECT	**$3,059,258.41**
				Plus 15% Contingency	**$3,518,147.17**

SEGMENT 4

URS

OPINION OF PROBABLE CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: FROM NORTH OF WATTLES TO NORTH OF ADAMS RD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

Segment 4 Total = $ 72,107,052

Road (NB & SB I-75, Opdyke/Corporate Dr Ramps A,B,C,& D, Adams Rd Ramps E, F, G,& H, Noise Walls, and S05, S21, S06)

I-75 Miscellaneous Estimate Items

Mobilization, Max.	3481716	LS	$ 1.00	$	3,481,716.00
Contractor Staking, Urban	1362704	LS	$ 1.00	$	1,362,704.00
Staking Plan Errors and Extras, One Person	718	hr	$ 75.00	$	53,850.00
Staking Plan Errors and Extras, Two Person	287	hr	$ 100.00	$	28,700.00
Staking Plan Errors and Extras, Three Person	431	hr	$ 125.00	$	53,875.00
Maintaining Traffic	1	LS	$3,993,899.78	$	3,993,899.78
ITS	1	LS	$ 1,854,170.00	$	1,854,170.00
Freeway Lighting/Interchange Lighting	1	LS	$ 500,000.00	$	500,000.00
Permanent Signing and Pavement Marking	1	LS	$ 116,110.58	$	116,110.58

Alignment Total: (see breakdown)

I-75 NB SUBTOTAL =	$	14,478,974.72
I-75 SB SUBTOTAL =	$	13,268,703.96
CORPORATE DR RAMP A SUBTOTAL =	$	333,515.07
CORPORATE DR RAMP B SUBTOTAL =	$	301,554.10
CORPORATE DR RAMP C SUBTOTAL =	$	230,731.89
CORPORATE DR RAMP D SUBTOTAL =	$	366,638.04
CORPORATE DR SUBTOTAL =	$	749,558.78
ADAMS RAMP E SUBTOTAL =	$	306,806.66
ADAMS RAMP F SUBTOTAL =	$	405,031.85
ADAMS RAMP G SUBTOTAL =	$	260,337.87
ADAMS RAMP H SUBTOTAL =	$	307,160.35

Noise Wall Totals:

SB I-75 STA 675+00 TO STA 680+00	$	500,000.00
SB I-75 STA 682+25 TO STA 703+25	$	2,075,000.00
NB I-75 STA 1145+00 TO STA 1158+50	$	1,300,000.00

Structure Totals:

Long Lake (S11-1 and 2)	$	5,440,000.00
Corporate over I-75 (S12)	$	3,120,000.00
Coolidge Road (S14-1 and 2)	$	4,730,000.00
Square Lake (S15-1 and 2)	$	5,024,000.00
Adams (S16-1 and 2)	$	6,472,000.00

Miscellaneous Totals:

Aesethic Improvements (1%)	$	661,341.94
Unsuitable Soil (0.5%)	$	330,670.97

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 EXIT TO ADAMS ROAD (RAMP H)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2454	Syd	$ 41.00	$ 100,614.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1435	Syd	$ 30.00	$ 43,050.00
3077011	Shoulder, Cl II, 13 1/2 inch	417	Syd	$ 18.00	$ 7,506.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3938	Syd	$ 8.00	$ 31,504.00
3030020	Geotextile Separator	3938	Syd	$ 1.30	$ 5,119.40
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1874	Ft	$ 3.50	$ 6,559.00
4040093	Underdrain Outlet, 6 inch	157	Ft	$ 5.41	$ 849.37
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	163	Ft	$ 15.04	$ 2,451.52
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.80	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1381	Ft	$ 8.97	$ 12,387.57
8020201	Joint, Contraction, C3p	807	Ft	$ 1.09	$ 879.63
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 8.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	3753	Syd	$ 3.57	$ 13,398.21
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	3801	Cyd	$ 3.53	$ 12,711.53
2050016	Excavation, Earth	2611	Cyd	$ 4.58	$ 11,958.38
8160050	Slope Restoration	4185	Syd	$ 2.58	$ 10,787.35
6050100	Conc Quality Assurance	474	Cyd	$ 3.00	$ 1,422.00
6050101	Conc Quality Initiative	$ 911	Dlr	$ 1.00	$ 911.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.58	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.78	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 52.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 38.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.86	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 40,084.39
space	TOTAL OPINION OF PROBABLE COST =				$ 307,160.35

URS

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

OPINION OF PROBABLE 2009 CONSTRUCTION COST

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO.: JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	119848	Syd	$ 30.00	$ 3,595,440.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	7851	Syd	$ 41.00	$ 321,891.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	46363	Syd	$ 30.00	$ 1,390,890.00
3077011	Shoulder, Cl II, 13 1/2 inch	4979	Syd	$ 18.00	$ 89,622.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	190419	Syd	$ 8.00	$ 1,523,352.00
3030020	Geotextile Separator	190419	Syd	$ 1.30	$ 247,544.70
4040043	Underdrain, Pipe, Open-Graded, 6 inch	67206	Ft	$ 3.50	$ 235,221.00
4040093	Underdrain Outlet, 6 inch	5601	Ft	$ 5.41	$ 30,301.41
8027001	Valley Gutter, Conc, 13 1/2 inch	22402	Ft	$ 18.00	$ 403,236.00
8020010	Curb and Gutter, Bridge Approach	400	Ft	$ 31.57	$ 12,628.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	22402	Ft	$ 38.71	$ 867,181.42
8040010	Conc Barrier, Split, Type A	120	Ft	$ 120.00	$ 14,400.00
8040015	Glare Screen, Conc	22402	Ft	$ 6.83	$ 153,005.86
8040016	Glare Screen, Conc, Split	120	Ft	$ 45.27	$ 5,432.40
8020200	Joint, Contraction, Cp	71831	Ft	$ 8.97	$ 644,324.07
8020201	Joint, Contraction, C3p	26080	Ft	$ 1.09	$ 28,427.20
8020207	Joint, Expansion, E2	64	Ft	$ 17.87	$ 1,143.68
8020209	Joint, Expansion, E4	44	Ft	$ 6.18	$ 271.92
8220000	Shoulder Corrugations, Ground or Cut, Conc	44804	Ft	$ 0.90	$ 40,323.60
8070000	Guardrail, Type B	7640	Ft	$ 15.34	$ 117,197.60
2040011	Pavt, Rem	129898	Syd	$ 3.57	$ 463,728.72
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	9100	Ft	$ 1.73	$ 15,743.00
2050010	Embankment, CIP	42115	Cyd	$ 3.53	$ 148,665.95
2050016	Excavation, Earth	234272	Cyd	$ 4.58	$ 1,072,965.76
8180050	Slope Restoration	49783	Syd	$ 2.59	$ 128,937.97
6050100	Conc Quality Assurance	64461	Cyd	$ 3.00	$ 193,383.00
6050101	Conc Quality Initiative	$ 128,845	Dlr	$ 1.00	$ 128,845.00
2030011	Dr Structure, Rem	4	Ea	$ 226.49	$ 905.96
2030015	Sewer, Rem, Less than 24 inch	192	Ft	$ 10.59	$ 2,033.28
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	9	Ea	$ 259.00	$ 2,331.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	3	Ea	$ 133.32	$ 399.96
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	7292	Ft	$ 29.20	$ 212,926.40
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	797	Ft	$ 23.66	$ 18,857.02
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	8089	Ft	$ 1.14	$ 9,221.46
4030005	Dr Structure, 48 inch dia	76	Ea	$ 1,064.58	$ 80,908.08
4030008	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	1	Ft	$ 100.98	$ 100.98
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	46360	Lb	$ 1.21	$ 56,095.60
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	72	Ea	$ 215.00	$ 15,480.00
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Drainage Crossings (refer to *Drainage Study*)				$ 314,500.00
	Contingency 15%				$ 1,886,561.92
space	TOTAL OPINION OF PROBABLE COST =				$ 14,478,974.72

URS

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

OPINION OF PROBABLE 2009 CONSTRUCTION COST

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO.: JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	121977	Syd	$ 30.00	$ 3,659,310.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	7913	Syd	$ 41.00	$ 324,433.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	46001	Syd	$ 30.00	$ 1,380,030.00
3077011	Shoulder, Cl II, 13 1/2 inch	4979	Syd	$ 18.00	$ 89,622.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	185981	Syd	$ 8.00	$ 1,487,848.00
3030020	Geotextile Separator	185981	Syd	$ 1.30	$ 241,775.30
4040043	Underdrain, Pipe, Open-Graded, 6 inch	67206	Ft	$ 3.50	$ 235,221.00
4040093	Underdrain Outlet, 6 inch	5601	Ft	$ 5.41	$ 30,301.41
8027001	Valley Gutter, Conc, 13 1/2 inch	22402	Ft	$ 18.00	$ 403,236.00
8020010	Curb and Gutter, Bridge Approach	300	Ft	$ 31.57	$ 9,471.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	22402	Ft	$ 6.83	$ 153,005.86
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	73063	Ft	$ 8.97	$ 655,375.11
8020201	Joint, Contraction, C3p	25876	Ft	$ 1.09	$ 28,204.84
8020207	Joint, Expansion, E2	64	Ft	$ 17.87	$ 1,143.68
8020209	Joint, Expansion, E4	44	Ft	$ 6.18	$ 271.92
8220000	Shoulder Corrugations, Ground or Cut, Conc	44804	Ft	$ 0.90	$ 40,323.60
8070000	Guardrail, Type B	8250	Ft	$ 15.34	$ 126,555.00
2040011	Pavt, Rem	138913	Syd	$ 3.57	$ 495,919.41
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	28330	Ft	$ 1.73	$ 48,010.90
2050010	Embankment, CIP	42470	Cyd	$ 3.53	$ 149,919.10
2050016	Excavation, Earth	303008	Cyd	$ 4.58	$ 1,387,776.64
8180050	Slope Restoration	49783	Syd	$ 2.59	$ 128,937.97
6050100	Conc Quality Assurance	60488	Cyd	$ 3.00	$ 181,464.00
6050101	Conc Quality Initiative	$ 112,102	Dlr	$ 1.00	$ 112,102.00
2030011	Dr Structure, Rem	4	Ea	$ 226.49	$ 905.96
2030015	Sewer, Rem, Less than 24 inch	148	Ft	$ 10.59	$ 1,568.14
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	13	Ea	$ 259.00	$ 3,367.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	3	Ea	$ 133.32	$ 399.96
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	594	Ft	$ 29.20	$ 17,344.80
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	119	Ft	$ 23.66	$ 2,815.54
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	713	Ft	$ 1.14	$ 812.82
4030005	Dr Structure, 48 inch dia	76	Ea	$ 1,064.58	$ 80,908.08
4030008	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.85	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	46360	Lb	$ 1.21	$ 56,095.60
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.68	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
space		space			
	Contingency 15%				$ 1,730,700.52
space	TOTAL OPINION OF PROBABLE COST =				$ 13,268,703.96

URS

OPINION OF PROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 ENTRANCE FROM CORPORATE DR (RAMP A)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1880	Syd	$ 41.00	$ 77,080.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1456	Syd	$ 30.00	$ 43,680.00
3077011	Shoulder, Cl II, 13 1/2 inch	558	Syd	$ 18.00	$ 10,044.00
3037011	Open-Graded Dr Csg, 18 inch, Modified	3336	Syd	$ 8.00	$ 26,688.00
3030020	Geotextile Separator	3336	Syd	$ 1.30	$ 4,336.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2508	Ft	$ 3.50	$ 8,778.00
4040093	Underdrain Outlet, 6 inch	209	Ft	$ 5.41	$ 1,130.89
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1058	Ft	$ 8.97	$ 9,490.26
8020201	Joint, Contraction, C3p	819	Ft	$ 1.09	$ 892.71
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020208	Joint, Expansion, E4	0	Ft	$ 8.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	2807	Syd	$ 3.57	$ 10,020.99
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	97	Cyd	$ 3.53	$ 342.41
2050016	Excavation, Earth	16501	Cyd	$ 4.58	$ 75,574.58
8160050	Slope Restoration	5574	Syd	$ 2.59	$ 14,436.66
6050100	Conc Quality Assurance	466	Cyd	$ 3.00	$ 1,398.00
6050101	Conc Quality Initiative	$ 874	Dlr	$ 1.00	$ 874.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.58	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 43,501.97
space	TOTAL OPINION OF PROBABLE COST =				$ 333,515.07

URS

OPINION OF PROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 EXIT TO CORPORATE DR (RAMP B)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1555	Syd	$ 41.00	$ 63,755.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1061	Syd	$ 30.00	$ 31,830.00
3077011	Shoulder, Cl II, 13 1/2 inch	439	Syd	$ 18.00	$ 7,902.00
3037011	Open-Graded Dr Csg, 18 inch, Modified	2616	Syd	$ 8.00	$ 20,928.00
3030020	Geotextile Separator	2616	Syd	$ 1.30	$ 3,400.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1974	Ft	$ 3.50	$ 6,909.00
4040093	Underdrain Outlet, 6 inch	165	Ft	$ 5.41	$ 892.65
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 8.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	875	Ft	$ 8.97	$ 7,848.75
8020201	Joint, Contraction, C3p	597	Ft	$ 1.09	$ 650.73
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020208	Joint, Expansion, E4	0	Ft	$ 8.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	3373	Syd	$ 3.57	$ 12,041.61
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	95	Cyd	$ 3.53	$ 335.35
2050016	Excavation, Earth	19153	Cyd	$ 4.58	$ 87,720.74
8160050	Slope Restoration	4387	Syd	$ 2.59	$ 11,362.33
6050100	Conc Quality Assurance	340	Cyd	$ 3.00	$ 1,020.00
6050101	Conc Quality Initiative	$ 837	Dlr	$ 1.00	$ 837.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.58	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 39,333.14
space	TOTAL OPINION OF PROBABLE COST =				$ 301,554.10

URS

OPINION OF PROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 ENTRANCE FROM CORPORATE DR (RAMP C)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	1584	Syd	$ 41.00	$ 64,944.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1070	Syd	$ 30.00	$ 32,100.00
3077011	Shoulder, Cl II, 13 1/2 inch	305	Syd	$ 18.00	$ 5,490.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	2717	Syd	$ 8.00	$ 21,736.00
3030020	Geotextile Separator	2717	Syd	$ 1.30	$ 3,532.10
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1370	Ft	$ 3.50	$ 4,795.00
4040093	Underdrain Outlet, 6 inch	115	Ft	$ 5.41	$ 622.15
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	210	Ft	$ 15.04	$ 3,158.40
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	891	Ft	$ 8.97	$ 7,992.27
8020201	Joint, Contraction, C3p	602	Ft	$ 1.09	$ 656.18
8020207	Joint, Expansion, E2	0	Ft	$ 17.67	$ -
8020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	470	Ft	$ 15.34	$ 7,209.80
2040011	Pavt, Rem	2349	Syd	$ 3.57	$ 8,385.93
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	415	Ft	$ 1.73	$ 717.95
2050010	Embankment, CIP	457	Cyd	$ 3.53	$ 1,613.21
2050016	Excavation, Earth	4818	Cyd	$ 4.58	$ 22,066.44
8160050	Slope Restoration	3045	Syd	$ 2.59	$ 7,888.55
6050100	Conc Quality Assurance	362	Cyd	$ 3.00	$ 1,086.00
6050101	Conc Quality Initiative	$ 706	Dlr	$ 1.00	$ 706.00
2030011	Dr Structure, Rem	1	Ea	$ 226.49	$ 226.49
2030015	Sewer, Rem, Less than 24 inch	44	Ft	$ 10.59	$ 465.96
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 30,095.46
space	TOTAL OPINION OF PROBABLE COST =				$ 230,731.89

URS

OPINION OF PROBABLE
2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 EXIT TO CORPORATE DR (RAMP D)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2312	Syd	$ 41.00	$ 94,792.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1594	Syd	$ 30.00	$ 47,820.00
3077011	Shoulder, Cl II, 13 1/2 inch	847	Syd	$ 18.00	$ 15,246.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3906	Syd	$ 8.00	$ 31,248.00
3030020	Geotextile Separator	3906	Syd	$ 1.30	$ 5,077.80
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2908	Ft	$ 3.50	$ 10,178.00
4040093	Underdrain Outlet, 6 inch	243	Ft	$ 5.41	$ 1,314.63
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1301	Ft	$ 8.97	$ 11,669.97
8020201	Joint, Contraction, C3p	897	Ft	$ 1.09	$ 977.73
8020207	Joint, Expansion, E2	0	Ft	$ 17.67	$ -
8020208	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	1170	Ft	$ 15.34	$ 17,947.80
2040011	Pavt, Rem	4216	Syd	$ 3.57	$ 15,051.12
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	1170	Ft	$ 1.73	$ 2,024.10
2050010	Embankment, CIP	3572	Cyd	$ 3.53	$ 12,609.18
2050016	Excavation, Earth	6934	Cyd	$ 4.58	$ 31,757.72
8160050	Slope Restoration	6463	Syd	$ 2.59	$ 16,739.17
6050100	Conc Quality Assurance	511	Cyd	$ 3.00	$ 1,533.00
6050101	Conc Quality Initiative	$ 957	Dlr	$ 1.00	$ 957.00
2030011	Dr Structure, Rem	1	Ea	$ 226.49	$ 226.49
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.66	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.88	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 47,822.35
space	TOTAL OPINION OF PROBABLE COST =				$ 366,638.04

URS

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

OPINION OF PROBABLE 2009 CONSTRUCTION COST

PROJECT: I-75 ENGINEERING REPORT
LOCATION: CORPORATE DR
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	7299	Syd	$ 41.00	$ 299,259.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	2147	Syd	$ 30.00	$ 64,410.00
3077011	Shoulder, Cl II, 13 1/2 inch	552	Syd	$ 18.00	$ 9,936.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	9727	Syd	$ 8.00	$ 77,816.00
3030020	Geotextile Separator	9727	Syd	$ 1.30	$ 12,645.10
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2482	Ft	$ 3.50	$ 8,687.00
4040093	Underdrain Outlet, 6 inch	207	Ft	$ 5.41	$ 1,119.87
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	947	Ft	$ 15.04	$ 14,242.88
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	4440	Sft	$ 3.60	$ 15,984.00
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	4106	Ft	$ 8.97	$ 36,830.82
8020201	Joint, Contraction, C3p	1208	Ft	$ 1.09	$ 1,316.72
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	7797	Syd	$ 3.57	$ 27,835.29
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	3358	Cyd	$ 3.53	$ 11,846.88
2050016	Excavation, Earth	10088	Cyd	$ 4.58	$ 46,111.44
8160050	Slope Restoration	5516	Syd	$ 2.59	$ 14,286.44
6050100	Conc Quality Assurance	861	Cyd	$ 3.00	$ 2,583.00
6050101	Conc Quality Initiative	$ 1,893	Dlr	$ 1.00	$ 1,893.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.58	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.78	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 97,788.54
space	TOTAL OPINION OF PROBABLE COST =				$ 749,558.78

URS

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OPINION OF PROBABLE 2009 CONSTRUCTION COST

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 EXIT TO ADAMS RD (RAMP E)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2488	Syd	$ 41.00	$ 102,008.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1260	Syd	$ 30.00	$ 37,800.00
3077011	Shoulder, Cl II, 13 1/2 inch	441	Syd	$ 18.00	$ 7,938.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	3808	Syd	$ 8.00	$ 30,464.00
3030020	Geotextile Separator	3808	Syd	$ 1.30	$ 4,950.40
4040043	Underdrain, Pipe, Open-Graded, 6 inch	1984	Ft	$ 3.50	$ 6,944.00
4040093	Underdrain Outlet, 6 inch	166	Ft	$ 5.41	$ 898.06
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	199	Ft	$ 15.04	$ 2,992.96
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1399	Ft	$ 8.97	$ 12,549.03
8020201	Joint, Contraction, C3p	709	Ft	$ 1.09	$ 772.81
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	320	Ft	$ 15.34	$ 4,908.80
2040011	Pavt, Rem	3760	Syd	$ 3.57	$ 13,423.20
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	2049	Cyd	$ 3.53	$ 7,232.97
2050016	Excavation, Earth	3367	Cyd	$ 4.58	$ 15,420.86
8160050	Slope Restoration	4409	Syd	$ 2.59	$ 11,419.31
6050100	Conc Quality Assurance	421	Cyd	$ 3.00	$ 1,263.00
6050101	Conc Quality Initiative	$ 816	Dlr	$ 1.00	$ 816.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.58	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.78	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 40,018.26
space	TOTAL OPINION OF PROBABLE COST =				$ 306,806.66

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OPINION OF PROBABLE 2009 CONSTRUCTION COST

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 ENTRANCE FROM ADAMS RD (RAMP F)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	3484	Syd	$ 41.00	$ 142,844.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	1672	Syd	$ 30.00	$ 50,160.00
3077011	Shoulder, Cl II, 13 1/2 inch	605	Syd	$ 18.00	$ 10,890.00
3037011	Open-Graded Dr Csg, 16 inch, Modified	5277	Syd	$ 8.00	$ 42,216.00
3030020	Geotextile Separator	5277	Syd	$ 1.30	$ 6,860.10
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2720	Ft	$ 3.50	$ 9,520.00
4040093	Underdrain Outlet, 6 inch	227	Ft	$ 5.41	$ 1,228.07
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	405	Ft	$ 15.04	$ 6,091.20
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1960	Ft	$ 8.97	$ 17,581.20
8020201	Joint, Contraction, C3p	941	Ft	$ 1.09	$ 1,025.69
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	4742	Syd	$ 3.57	$ 16,928.94
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	1748	Cyd	$ 3.53	$ 6,170.44
2050016	Excavation, Earth	3699	Cyd	$ 4.58	$ 16,941.42
8160050	Slope Restoration	6045	Syd	$ 2.59	$ 15,656.55
6050100	Conc Quality Assurance	572	Cyd	$ 3.00	$ 1,716.00
6050101	Conc Quality Initiative	$ 1,126	Dlr	$ 1.00	$ 1,126.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 52,830.24
space	TOTAL OPINION OF PROBABLE COST =				$ 405,031.85

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OPINION OF PROBABLE 2009 CONSTRUCTION COST

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 ENTRANCE FROM ADAMS RD (RAMP G)
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 FROM NORTH OF WATTLES TO NORTH OF ADAMS RD

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	2154	Syd	$ 41.00	$ 88,314.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	970	Syd	$ 30.00	$ 29,100.00
3077011	Shoulder, Cl II, 13 1/2 inch	467	Syd	$ 18.00	$ 8,406.00
3037011	Open-Graded Dr Csg, 16 inch, Modified	3170	Syd	$ 8.00	$ 25,360.00
3030020	Geotextile Separator	3170	Syd	$ 1.30	$ 4,121.00
4040043	Underdrain, Pipe, Open-Graded, 6 inch	2098	Ft	$ 3.50	$ 7,343.00
4040093	Underdrain Outlet, 6 inch	175	Ft	$ 5.41	$ 946.75
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	153	Ft	$ 15.04	$ 2,301.12
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	1212	Ft	$ 8.97	$ 10,871.64
8020201	Joint, Contraction, C3p	546	Ft	$ 1.09	$ 595.14
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	420	Ft	$ 15.34	$ 6,442.80
2040011	Pavt, Rem	2784	Syd	$ 3.57	$ 9,938.88
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040008	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	330	Ft	$ 1.73	$ 570.90
2050010	Embankment, CIP	543	Cyd	$ 3.53	$ 1,916.79
2050016	Excavation, Earth	2318	Cyd	$ 4.58	$ 10,616.44
8160050	Slope Restoration	4663	Syd	$ 2.59	$ 12,077.17
6050100	Conc Quality Assurance	325	Cyd	$ 3.00	$ 975.00
6050101	Conc Quality Initiative	$ 629	Dlr	$ 1.00	$ 629.00
2030011	Dr Structure, Rem	1	Ea	$ 226.49	$ 226.49
2030015	Sewer, Rem, Less than 24 inch	48	Ft	$ 10.59	$ 508.32
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	1	Ea	$ 133.32	$ 133.32
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.88	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.66	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
space		space			
	Contingency 15%				$ 33,957.11
space	TOTAL OPINION OF PROBABLE COST =				$ 260,337.87

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 14,994 SFT STRUCTURE ID: S16-2 OF 63174
LOCATION: SB I-75 over Adam Roads DECK DIM: 163'-5" x 91'-9"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	14,994	SFT	$155.00 /SFT	$2,324,036.68
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	8,367	SFT	$27.00 /SFT	$225,912.67
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other				
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		sel	$18,000.00 /sel	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,550,000.00	$383,000.00
MOBILIZATION (10% max)	10.0	%	$2,933,000.00	$293,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,226,000.00	$0.00

(DOES NOT INCLUDE PE & CE) **CONSTRUCTION TOTAL** **$3,226,000.00**

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,675 SFT STRUCTURE ID: S16-1 OF 63174
LOCATION: NB I-75 over Adam Roads DECK DIM: 163'-5" x 83'-8"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	13,675	SFT	$155.00 /SFT	$2,119,622.77
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	7,806	SFT	$27.00 /SFT	$210,771.07
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other				
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities	1.0	LSUM	$115,000.00 LSUM	$115,000.00
Other (Roadwork Under)	1.0	LSUM	$121,084.32 LSUM	$121,084.32
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		sel	$18,000.00 /sel	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,566,000.00	$385,000.00
MOBILIZATION (10% max)	10.0	%	$2,951,000.00	$295,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$3,246,000.00	$0.00

(DOES NOT INCLUDE PE & CE) **CONSTRUCTION TOTAL** **$3,246,000.00**

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,732 SFT STRUCTURE ID: S11-2 OF 63174
LOCATION: SB I-75 OVER LONG LAKE ROAD DECK DIM: 159'-3" x 73'-6"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **STEEL BEAMS**

	WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE					
	Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
	Multiple spans, Steel (as above)	11,732	SFT	$155.00 /SFT	$1,818,461.86
	Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
	Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
	Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
	Other				
NEW SUPERSTRUCTURE					
	Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
	Steel (as above)		SFT	$135.00 /SFT	
	Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
	Other				
WIDENING					
	Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
	Other				
NEW DECK					
	Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
	Other				
DEMOLITION					
	Entire bridge, grade separation	7,354	SFT	$27.00 /SFT	$198,558.19
	Entire bridge, over water		SFT	$35.00 /SFT	
	Other				
SUPERSTRUCTURE REPAIR					
	Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
	HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
	HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
	Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
	Removal of HMA Overlay		SFT	$1.00 /SFT	
	Epoxy Overlay		SYD	$32.00 /SYD	
	Shallow Overlay (includes joint repimt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
	Deep Overlay (includes joint repimt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
	PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
	Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
	High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
	Paint Structural Steel		SFT	$9.00 /SFT	
	Partial Painting		SFT	$18.00 /SFT	
	Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
	Other				
SUBSTRUCTURE REPAIR					
	Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
	Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
	Pier replacement (CAP)		CFT	$68.00 /CFT	
	Abutment repair (measured x 2)		CFT	$300.00 /CFT	
	Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
	Slope Protection repairs		SYD	$65.00 /SYD	
	Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS					
	Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
	Bridge Railing, remove and replace		FT	$225.00 /FT	
	Thrie Beam Railing retrofit		FT	$32.00 /FT	
	Deck Drain Extensions		EA	$600.00 EA	
	Scour Countermeasures		LSUM	LSUM	
	Other-Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK					
	Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
	Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
	Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
	Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
	Guardrail Ending (end section)		EA	$1,800.00 /EA	
	Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
	Utilities		LSUM	LSUM	
	Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S					
	Part Width Construction		LSUM	LSUM	
	Crossovers		EA	$150,000.00 EA	
	Temporary Traffic Signals		sel	$18,000.00 /sel	
	RR Flagging		LSUM	LSUM	
	Detour		LSUM	LSUM	
	Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)		15.0	%	$2,025,000.00	$304,000.00
MOBILIZATION (10% max)		10.0	%	$2,329,000.00	$233,000.00
INFLATION (assume 4% per year, beginning in 2009)		0.0	%	$2,562,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL		$2,562,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,732 SFT STRUCTURE ID: S11-1 OF 63174
LOCATION: NB I-75 OVER LONG LAKE ROAD DECK DIM: 159'-3" x 73'-6"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **STEEL BEAMS**

	WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE					
	Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
	Multiple spans, Steel (as above)	11,732	SFT	$155.00 /SFT	$1,818,461.86
	Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
	Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
	Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
	Other				
NEW SUPERSTRUCTURE					
	Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
	Steel (as above)		SFT	$135.00 /SFT	
	Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
	Other				
WIDENING					
	Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
	Other				
NEW DECK					
	Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
	Other				
DEMOLITION					
	Entire bridge, grade separation	7,354	SFT	$27.00 /SFT	$198,558.19
	Entire bridge, over water		SFT	$35.00 /SFT	
	Other				
SUPERSTRUCTURE REPAIR					
	Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
	HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
	HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
	Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
	Removal of HMA Overlay		SFT	$1.00 /SFT	
	Epoxy Overlay		SYD	$32.00 /SYD	
	Shallow Overlay (includes joint repimt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
	Deep Overlay (includes joint repimt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
	PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
	Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
	High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
	Paint Structural Steel		SFT	$9.00 /SFT	
	Partial Painting		SFT	$18.00 /SFT	
	Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
	Other				
SUBSTRUCTURE REPAIR					
	Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
	Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
	Pier replacement (CAP)		CFT	$68.00 /CFT	
	Abutment repair (measured x 2)		CFT	$300.00 /CFT	
	Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
	Slope Protection repairs		SYD	$65.00 /SYD	
	Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS					
	Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
	Bridge Railing, remove and replace		FT	$225.00 /FT	
	Thrie Beam Railing retrofit		FT	$32.00 /FT	
	Deck Drain Extensions		EA	$600.00 EA	
	Scour Countermeasures		LSUM	LSUM	
	Other-Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK					
	Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
	Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
	Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
	Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
	Guardrail Ending (end section)		EA	$1,800.00 /EA	
	Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
	Utilities	1.0	LSUM	$130,000.00 LSUM	$130,000.00
	Other (Roadwork Under)	1.0	LSUM	$119,496.66 LSUM	$119,496.66
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S					
	Part Width Construction		LSUM	LSUM	
	Crossovers		EA	$150,000.00 EA	
	Temporary Traffic Signals		sel	$18,000.00 /sel	
	RR Flagging		LSUM	LSUM	
	Detour		LSUM	LSUM	
	Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)		15.0	%	$2,275,000.00	$341,000.00
MOBILIZATION (10% max)		10.0	%	$2,616,000.00	$262,000.00
INFLATION (assume 4% per year, beginning in 2009)		0.0	%	$2,878,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL		$2,878,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 14,062 SFT STRUCTURE ID: S12 OF 63174
LOCATION: CORPORATE DR. OVER I-75 (CROOKS RD.) DECK DIM: 254'-6" x 55'-3"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL PLATE GIRDERS**

	WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE					
	Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
	Multiple spans, Steel (as above)	14,062	SFT	$155.00 /SFT	$2,179,610.00
	Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
	Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
	Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
	Other				
NEW SUPERSTRUCTURE					
	Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
	Steel (as above)		SFT	$135.00 /SFT	
	Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
	Other				
WIDENING					
	Added portion only. (add road approach widening)		SFT	$175.00 /SFT	
	Other				
NEW DECK					
	Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
	Other				
DEMOLITION					
	Entire bridge, grade separation	10,604.0	SFT	$27.00 /SFT	$286,308.00
	Entire bridge, over water		SFT	$35.00 /SFT	
	Other				
SUPERSTRUCTURE REPAIR					
	Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
	HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
	HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
	Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
	Removal of HMA Overlay		SFT	$1.00 /SFT	
	Epoxy Overlay		SYD	$32.00 /SYD	
	Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
	Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
	PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
	Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
	High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
	Paint Structural Steel		SFT	$9.00 /SFT	
	Partial Painting		SFT	$18.00 /SFT	
	Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
	Other				
SUBSTRUCTURE REPAIR					
	Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
	Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
	Pier replacement		CFT	$68.00 /CFT	
	Abutment repair (measured x 2)		CFT	$300.00 /CFT	
	Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
	Slope Protection repairs		SYD	$65.00 /SYD	
	Other				
MISCELLANEOUS					
	Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
	Bridge Railing, remove and replace		FT	$225.00 /FT	
	Thrie Beam Railing retrofit		FT	$32.00 /FT	
	Deck Drain Extensions		EA	$600.00 EA	
	Scour Countermeasures		LSUM	LSUM	
	Other				
ROAD WORK					
	Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
	Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
	Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
	Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
	Guardrail Ending (end section)		EA	$1,800.00 /EA	
	Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
	Utilities		LSUM	LSUM	
	Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S					
	Part Width Construction		LSUM	LSUM	
	Crossovers		EA	$150,000.00 EA	
	Temporary Traffic Signals		set	$18,000.00 /set	
	RR Flagging		LSUM	LSUM	
	Detour		LSUM	LSUM	
	Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)		15.0	%	$2,466,000.00	$370,000.00
MOBILIZATION (10% max)		10.0	%	$2,836,000.00	$284,000.00
INFLATION (assume 4% per year, beginning in 2009)		0.0	%	$3,120,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL		$3,120,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: Mike Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 10,357 SFT STRUCTURE ID: S14-2 OF 63174
LOCATION: SB I-75 OVER COOLIDGE ROAD DECK DIM: 140'-7" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	10,357	SFT	$155.00 /SFT	$1,605,261.93
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	5,958	SFT	$27.00 /SFT	$160,859.52
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other- Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,774,000.00	$266,000.00
MOBILIZATION (10% max)	10.0	%	$2,040,000.00	$204,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,244,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,244,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: Mike Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 10,357 SFT STRUCTURE ID: S14-1 OF 63174
LOCATION: NB I-75 OVER COOLIDGE ROAD DECK DIM: 140'-7" x 73'-8"
PRIMARY REPAIR STRATEGY: **Option 2: Structure Replacement - 3 Span** STR. TYPE: **STEEL BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	10,357	SFT	$155.00 /SFT	$1,605,261.93
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	5,958	SFT	$27.00 /SFT	$160,859.52
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other- Underbridge Lighting	1	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities	1.0	LSUM	$130,000.00 LSUM	$130,000.00
Other (Roadwork Under)	1.0	LSUM	$60,626.84 LSUM	$60,626.84
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,965,000.00	$295,000.00
MOBILIZATION (10% max)	10.0	%	$2,260,000.00	$226,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,486,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,486,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 13,558 SFT STRUCTURE ID: S15-2 OF 63174
LOCATION: SB I-75 OVER SQUARE LAKE ROAD DECK DIM: 158'-3" x 85'-8"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **CONCRETE BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)	13,558.0	SFT	$135.00 /SFT	$1,830,330.00
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	8,691.1	SFT	$27.00 /SFT	$234,659.43
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other: Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,073,000.00	$311,000.00
MOBILIZATION (10% max)	10.0	%	$2,384,000.00	$238,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,622,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$2,622,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,660 SFT STRUCTURE ID: S15-1 OF 63174
LOCATION: NB I-75 OVER SQUARE LAKE ROAD DECK DIM: 158'-3" x 73'-8"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **CONCRETE BEAMS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)	11,660.0	SFT	$135.00 /SFT	$1,574,100.00
Multiple spans, Steel (as above)		SFT	$155.00 /SFT	
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	8,691.1	SFT	$27.00 /SFT	$234,659.43
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other: Underbridge Lighting	1.0	LSUM	$8,000.00 LSUM	$8,000.00
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other (Roadwork Under)	1.0	LSUM	$82,594.37 LSUM	$82,594.37
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$1,899,000.00	$285,000.00
MOBILIZATION (10% max)	10.0	%	$2,184,000.00	$218,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,402,000.00	$0.00
(DOES NOT INCLUDE PE & CE)			CONSTRUCTION TOTAL	$2,402,000.00

ENGINEER'S ESTIMATE OF QUANTITIES

November 1, 2009

ACCESS ENGINEERING, INC.

P.O Box 26, Milford, Michigan 48381

Phone: (248) 684-1033
Fax: (248) 684-4575

PROJECT NOs.: JN 88168A
LOCATION: I-75, Segment 4 (Alt 3 - 2 Lanes Min Each Direction using Crossovers)
PRIME CONSULTANT: URS Corporation
PROJECT MANAGER: Laura Aylsworth

DESCRIPTION	PAY ITEM CODE	UNIT	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT COST
Temp Pavement					**$907,836.00**
Steel Sheet Piling, Temp, Left in Place	7040003	Sft	$24.50	1000	$24,500.00
Pavt Gapping	6020215	Ft	$7.53	16500	$124,245.00
Fence, Protective	8080007	Ft	$2.93	4,980	$14,591.40
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, White	8110037	Ft	$4.88	750	$3,660.00
Rem Spec Mrkg	8110150	Sft	$1.21	750	$907.50
Barricade, Type III, High Intensity, Lighted, Furn	8120005	Ea	$74.78	90	$6,730.20
Barricade, Type III, High Intensity, Lighted, Oper	8120006	Ea	$100.00	90	$9,000.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	8120007	Ea	$108.67	80	$8,693.60
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	8120008	Ea	$100.00	80	$8,000.00
Conc Barrier Reflector Replacement	8120010	Ea	$5.39	1,530	$8,246.70
Conc Barrier, Temp, Adjusted	8120015	Ft	$3.02	32,000	$96,640.00
Conc Barrier, Temp, Furn	8120016	Ft	$11.28	58,950	$664,956.00
Conc Barrier, Temp, Oper	8120017	Ft	$2.50	58,950	$147,375.00
Conc Barrier, Temp, Relocated	8120018	Ft	$4.06	46,960	$190,657.60
Flag Control	8120030	LS	$10,000.00	1	$10,000.00
High Intensity Light, Type B, Furn	8120035	Ea	$105.41	25	$2,635.25
High Intensity Light, Type B, Oper	8120036	Ea	$25.00	25	$625.00
Lighted Arrow, Type C, Furn	8120042	Ea	$800.00	22	$17,600.00
Lighted Arrow, Type C, Oper	8120043	Ea	$200.00	22	$4,400.00
Lighted Arrow, Type C, Standby	8120044	Ea	$445.58	1	$445.58
Minor Traf Devices	8120050	LS	$10,000.00	1	$10,000.00
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	8120077	Ft	$0.27	299,420	$80,843.40
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	8120078	Ft	$0.35	23,700	$8,295.00
Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp	8120080	Ft	$0.24	132,200	$31,728.00
Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	8120081	Ft	$0.24	99,800	$23,952.00
Pavt Mrkg, Type R, 4 inch, White, Temp	8120090	Ft	$0.79	204,600	$161,634.00
Pavt Mrkg, Type R, 4 inch, Yellow, Temp	8120091	Ft	$0.77	213,200	$164,164.00
Plastic Drum, High Intensity, Lighted, Furn	8120102	Ea	$30.00	1,400	$42,000.00
Plastic Drum, High Intensity, Lighted, Oper	8120103	Ea	$10.00	1,300	$13,000.00
Sign Cover	8120105	Ea	$18.80	106	$1,992.80
Sign Cover, Type I	8120106	Ea	$1,000.00	6	$6,000.00
Sign, Portable, Changeable Message, Furn	8120110	Ea	$3,677.63	10	$36,776.30
Sign, Portable, Changeable Message, Oper	8120111	Ea	$500.00	10	$5,000.00
Sign, Type A, Temp, Prismatic, Furn	8120130	Sft	$8.00	140	$1,120.00
Sign, Type A, Temp, Prismatic, Oper	8120131	Sft	$0.80	130	$104.00
Sign, Type B, Temp, Prismatic, Furn	8120135	Sft	$3.35	12,420	$41,607.00
Sign, Type B, Temp, Prismatic, Oper	8120136	Sft	$0.80	11,800	$9,440.00
Mobile Attenuator	8120143	Ea	$4,000.00	6	$24,000.00
Glare Screen, Flexible	8127001	Ft	$10.67	13,860	$147,886.20
Glare Screen, Flexible - Relocate	8127001	Ft	$6.10	13,860	$84,546.00
Glare Screen, Flexible - Replace	8127001	Ft	$0.76	2,780	$2,112.80
Sign, Type B, Temp, Prismatic, Special, Furn	8127010	Sft	$7.00	18,110	$126,770.00
Sign, Type B, Temp, Prismatic, Special, Oper	8127010	Sft	$1.00	17,240	$17,240.00
Barrier Gate Temp, Furn	8127050	Ea	$10,000.00	2	$20,000.00
Barrier Gate Temp, Oper	8127050	Ea	$1,000.00	2	$2,000.00
Barrier Gate Temp, Adj	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Relocate	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Open/Close	8127050	Ea	$200.00	10	$2,000.00
Temp Attenuator, Furn	8127050	Ea	$5,200.00	25	$130,000.00
Temp Attenuator, Oper	8127050	Ea	$1,000.00	25	$25,000.00
				TOTAL COST OF PROJECT	**$3,472,956.33**
				Plus 15% Contingency	**$3,993,899.78**

SEGMENT 5

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SQUARE LAKE ROAD INTERCHANGE
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

Segment 5 Total = $ 50,017,021.00

Road (NB & SB I-75, Square Lake Road Connector Ramps, and S17, S18)

I-75 Miscellaneous Estimate Items

Mobilization, Max.	2415090	LS	$	1.00	$	2,415,090.00
Contractor Staking, Urban	945240	LS	$	1.00	$	945,240.00
Staking Plan Errors and Extras, One Person	498	hr	$	75.00	$	37,350.00
Staking Plan Errors and Extras, Two Person	199	hr	$	100.00	$	19,900.00
Staking Plan Errors and Extras, Three Person	299	hr	$	125.00	$	37,375.00
Maintaining Traffic	1	LS	$	3,071,187.73	$	3,071,187.73
ITS	1	LS	$	1,247,240.00	$	1,247,240.00
Freeway Lighting/Interchange Lighting	1	LS	$	500,000.00	$	500,000.00
Permanent Signing and Pavement Marking	1	LS	$	63,614.27	$	63,614.27

Alignment Total: (see breakdown)

I-75 NB SUBTOTAL =	$	11,496,080.87
I-75 SB SUBTOTAL =	$	6,775,656.71
EB SQUARE LAKE RD TO NB I-75 SUBTOTAL =	$	1,690,597.70
EB SQUARE LAKE RD TO SB I-75 SUBTOTAL =	$	1,228,750.74
NB I-75 TO WB SQUARE LAKE RD SUBTOTAL	$	1,437,326.04
SB I-75 TO WB SQUARE LAKE RD SUBTOTAL	$	1,089,502.55

Carpool Lot Totals:

12 Mile Road Carpool Lot	$	349,000.00

Structure Totals:

Squirrel over I-75 (S17)	$	2,856,000.00
Square Lake Interchange (S18 and S18-5)	$	14,069,000.00

Miscellaneous Totals:

Aesethic Improvements (1%)	$	458,739.57
Unsuitable Soil (0.5%)	$	229,369.78

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	55537	Syd	$ 30.00	$ 1,666,110.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	5569	Syd	$ 41.00	$ 228,329.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	18094	Syd	$ 30.00	$ 542,820.00
3077011	Shoulder, CIII, 13 1/2 inch	1888	Syd	$ 18.00	$ 33,984.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	82393	Syd	$ 8.00	$ 659,144.00
3030020	Geotextile Separator	82393	Syd	$ 1.30	$ 107,110.90
4040063	Underdrain, Pipe, Open-Graded, 6 inch	9225	Ft	$ 3.50	$ 32,287.50
4040093	Underdrain Outlet, 6 inch	769	Ft	$ 5.41	$ 4,160.29
6027001	Valley Gutter, Conc, 13 1/2 inch	4421	Ft	$ 18.00	$ 79,578.00
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Curb and Gutter, Conc, Det D3	0	Syd	$ 12.02	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	4421	Ft	$ 38.71	$ 171,136.91
8040010	Conc Barrier, Split, Type A	4072	Ft	$ 120.00	$ 488,640.00
8040015	Glare Screen, Conc	4421	Ft	$ 6.83	$ 30,195.43
8040016	Glare Screen, Conc, Split	4072	Ft	$ 45.27	$ 184,339.44
8020200	Joint, Contraction, Cp	34373	Ft	$ 8.97	$ 308,325.81
8020201	Joint, Contraction, C3p	10178	Ft	$ 1.09	$ 11,094.02
8020207	Joint, Expansion, E2	64	Ft	$ 17.87	$ 1,143.68
8020209	Joint, Expansion, E4	58	Ft	$ 6.18	$ 358.44
8220000	Shoulder Corrugations, Ground or Cut, Conc	12300	Ft	$ 0.90	$ 11,070.00
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	58224	Syd	$ 3.57	$ 200,719.68
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	570	Ft	$ 1.73	$ 986.10
2050010	Embankment, CIP	5985	Cyd	$ 3.53	$ 21,127.05
2050018	Excavation, Earth	334151	Cyd	$ 4.58	$ 1,530,411.58
8040030	Conc Barrier Backfill, CIP	4768	Cyd	$ 4.00	$ 19,072.00
8160050	Slope Restoration	18874	Syd	$ 2.59	$ 48,883.66
6050100	Conc Quality Assurance	27399	Cyd	$ 3.00	$ 82,197.00
6050101	Conc Quality Initiative	$ 63,257	Dlr	$ 1.00	$ 63,257.00
2030011	Dr Structure, Rem	8	Ea	$ 226.49	$ 1,811.92
2030015	Sewer, Rem, Less than 24 inch	1121	Ft	$ 10.59	$ 11,871.39
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	3	Ea	$ 259.00	$ 777.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	8	Ea	$ 133.32	$ 1,066.56
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 289.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	2969	Ft	$ 29.20	$ 86,694.80
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	629	Ft	$ 23.66	$ 14,882.14
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.88	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 85.81	$ -
4021275	Video Taping Sewer and Culv Pipe	3598	Ft	$ 1.14	$ 4,101.72
4030005	Dr Structure, 48 inch dia	34	Ea	$ 1,064.58	$ 36,195.72
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	4	Ft	$ 100.98	$ 403.92
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	20740	Lb	$ 1.21	$ 25,095.40
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	31	Ea	$ 215.00	$ 6,665.00
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
	Drainage Crossings (refer to *Drainage Study*)				$ 3,280,545.00
	Contingency 15%				$ 1,499,488.81
space	TOTAL OPINION OF PROBABLE COST =				$ 11,496,080.87

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	53301	Syd	$ 30.00	$ 1,599,030.00
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	5201	Syd	$ 41.00	$ 213,241.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	18368	Syd	$ 30.00	$ 551,040.00
3077011	Shoulder, Cl II, 13 1/2 inch	1888	Syd	$ 18.00	$ 33,984.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	76870	Syd	$ 8.00	$ 614,960.00
3030020	Geotextile Separator	76870	Syd	$ 1.30	$ 99,931.00
4040063	Underdrain, Pipe, Open-Graded, 6 inch	12739.5	Ft	$ 3.50	$ 44,588.25
4040093	Underdrain Outlet, 6 inch	1062	Ft	$ 5.41	$ 5,745.42
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 41.00	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	32908	Ft	$ 8.97	$ 295,184.76
8020201	Joint, Contraction, C3p	10332	Ft	$ 1.09	$ 11,261.88
8020207	Joint, Expansion, E2	32	Ft	$ 17.87	$ 571.84
8020209	Joint, Expansion, E4	22	Ft	$ 6.18	$ 135.96
8220000	Shoulder Corrugations, Ground or Cut, Conc	8493	Ft	$ 0.90	$ 7,643.70
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	46586	Syd	$ 3.57	$ 166,312.02
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	2030	Ft	$ 1.73	$ 3,511.90
2050010	Embankment, CIP	6711	Cyd	$ 3.53	$ 23,688.83
2050016	Excavation, Earth	428570	Cyd	$ 4.56	$ 1,953,890.60
8040030	Conc Barrier Backfill, CIP	4768	Cyd	$ 4.00	$ 19,072.00
8160050	Slope Restoration	18874	Syd	$ 2.59	$ 48,863.66
6050100	Conc Quality Assurance	22935	Cyd	$ 3.00	$ 68,805.00
6050101	Conc Quality Initiative	$ 43,002	Dlr	$ 1.00	$ 43,002.00
2030011	Dr Structure, Rem	8	Ea	$ 226.49	$ 1,811.92
2030015	Sewer, Rem, Less than 24 inch	80	Ft	$ 10.59	$ 847.20
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	2	Ea	$ 259.00	$ 518.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	1	Ea	$ 2,550.00	$ 2,550.00
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	529	Ft	$ 29.20	$ 15,446.80
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	101	Ft	$ 23.66	$ 2,389.66
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	630	Ft	$ 1.14	$ 718.20
4030005	Dr Structure, 48 inch dia	35	Ea	$ 1,064.58	$ 37,260.30
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	21350	Lb	$ 1.21	$ 25,833.50
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	0	Ea	$ 41.83	$ -
4010831	Culv End Sect, 12 inch	1	Ea	$ 215.00	$ 215.00
4010835	Culv End Sect, 24 inch	0	Ea	$ 402.00	$ -
	Contingency 15%				$ 883,781.31
space	TOTAL OPINION OF PROBABLE COST =				$ 6,775,656.71

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: EB SQUARE LAKE ROAD TO NB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75
SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	6244	Syd	$ 41.00	$ 256,004.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	4938	Syd	$ 30.00	$ 148,140.00
3077011	Shoulder, Cl II, 13 1/2 inch	1045	Syd	$ 18.00	$ 18,810.00
3037011	Open-Graded Dr Cse, 18 inch, Modified	11627	Syd	$ 8.00	$ 93,016.00
3030020	Geotextile Separator	11627	Syd	$ 1.30	$ 15,115.10
4040063	Underdrain, Pipe, Open-Graded, 6 inch	4700	Ft	$ 3.50	$ 16,450.00
4040093	Underdrain Outlet, 6 inch	392	Ft	$ 5.41	$ 2,120.72
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	1000	Ft	$ 31.57	$ 31,570.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 41.00	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	3513	Ft	$ 8.97	$ 31,511.61
8020201	Joint, Contraction, C3p	2778	Ft	$ 1.09	$ 3,028.02
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	10608	Syd	$ 3.57	$ 37,870.56
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	205476	Cyd	$ 3.53	$ 725,330.28
2050016	Excavation, Earth	11014	Cyd	$ 4.58	$ 50,444.12
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	10445	Syd	$ 2.59	$ 27,052.55
6050100	Conc Quality Assurance	1680	Cyd	$ 3.00	$ 5,040.00
6050101	Conc Quality Initiative	$ 3,595	Dlr	$ 1.00	$ 3,595.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 84.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 88.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.89	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
	Contingency 15%				$ 220,512.74
space	TOTAL OPINION OF PROBABLE COST =				$ 1,690,597.70

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3385, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: SB I-75 TO WB SQUARE LAKE ROAD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	9920	Syd	$ 41.00	$ 406,720.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	4172	Syd	$ 30.00	$ 125,160.00
3077011	Shoulder, Cl II, 13 1/2 inch	1285	Syd	$ 18.00	$ 23,130.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	14092	Syd	$ 8.00	$ 112,736.00
3030020	Geotextile Separator	14092	Syd	$ 1.30	$ 18,319.60
4040063	Underdrain, Pipe, Open-Graded, 6 inch	5780	Ft	$ 3.50	$ 20,230.00
4040093	Underdrain Outlet, 6 inch	482	Ft	$ 5.41	$ 2,607.62
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 41.00	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	5580	Ft	$ 8.97	$ 50,052.60
8020201	Joint, Contraction, C3p	2347	Ft	$ 1.09	$ 2,559.23
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	16	Ft	$ 0.90	$ 14.40
8070000	Guardrail, Type B	11	Ft	$ 15.34	$ 168.74
2040011	Pavt, Rem	15555	Syd	$ 3.57	$ 55,531.35
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	0	Ft	$ 1.73	$ -
2050010	Embankment, CIP	2313	Cyd	$ 3.53	$ 8,164.89
2050016	Excavation, Earth	16863	Cyd	$ 4.58	$ 77,232.54
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	12845	Syd	$ 2.59	$ 33,268.55
6050100	Conc Quality Assurance	1338	Cyd	$ 3.00	$ 4,008.00
6050101	Conc Quality Initiative	$ 2,504	Dlr	$ 1.00	$ 2,504.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	0	Ea	$ 259.00	$ -
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 65.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
	Contingency 15%				$ 142,109.03
space	TOTAL OPINION OF PROBABLE COST =				$ 1,089,502.55

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: EB SQUARE LAKE ROAD TO SB I-75
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	10435	Syd	$ 41.00	$ 427,835.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	4077	Syd	$ 30.00	$ 122,310.00
3077011	Shoulder, Cl II, 13 1/2 inch	1209	Syd	$ 18.00	$ 21,762.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	14512	Syd	$ 8.00	$ 116,096.00
3030020	Geotextile Separator	14512	Syd	$ 1.30	$ 18,865.60
4040063	Underdrain, Pipe, Open-Graded, 6 inch	5440	Ft	$ 3.50	$ 19,040.00
4040093	Underdrain Outlet, 6 inch	454	Ft	$ 5.41	$ 2,456.14
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	0	Ft	$ 31.57	$ -
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 41.00	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	5870	Ft	$ 8.97	$ 52,659.90
8020201	Joint, Contraction, C3p	2283	Ft	$ 1.09	$ 2,498.37
8020207	Joint, Expansion, E2	16	Ft	$ 17.87	$ 285.92
8020209	Joint, Expansion, E4	11	Ft	$ 6.18	$ 67.98
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	0	Ft	$ 15.34	$ -
2040011	Pavt, Rem	14854	Syd	$ 3.57	$ 53,028.78
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	1610	Ft	$ 1.73	$ 2,785.30
2050010	Embankment, CIP	768	Cyd	$ 3.53	$ 2,711.04
2050016	Excavation, Earth	39992	Cyd	$ 4.58	$ 183,183.36
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	12089	Syd	$ 2.59	$ 31,310.51
6050100	Conc Quality Assurance	1305	Cyd	$ 3.00	$ 3,915.00
6050101	Conc Quality Initiative	$ 2,447	Dlr	$ 1.00	$ 2,447.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 85.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
	Contingency 15%				$ 160,271.84
space	TOTAL OPINION OF PROBABLE COST =				$ 1,228,750.74

URS

OPINION OF PROBABLE 2009 CONSTRUCTION COST

URS Corporation - Great Lakes

10850 Traverse Highway, Suite 3365, Traverse City Michigan 49684

Telephone: (231) 932-7592 Fax: (231) 932-7594

PROJECT: I-75 ENGINEERING REPORT
LOCATION: NB I-75 TO WB SQUARE LAKE ROAD
BASIS FOR ESTIMATE: [X] BASE [ ] PRELIMINARY [ ] FINAL
WORK: TOTAL RECONSTRUCTION AND VERTICAL REALIGNMENT OF I-75 SQUARE LAKE ROAD INTERCHANGE

DATE: Oct 26, 2009
PROJECT NO. JN 88168
ESTIMATOR: SK
CHECKED BY: LAB

ITEM CODE	DESCRIPTION	PROJ. TOTAL	UNIT	UNIT PRICE	COST
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 30.00	$ -
6027011	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	8256	Syd	$ 41.00	$ 338,496.00
6027011	Conc Pavt, Nonreinf, 13 1/2 inch, High Performance (SHLDR)	6528	Syd	$ 30.00	$ 195,840.00
3077011	Shoulder, Cl II, 13 1/2 inch	1389	Syd	$ 18.00	$ 25,002.00
3037011	Open-Graded Dr Cse, 16 inch, Modified	15229	Syd	$ 8.00	$ 121,832.00
3030020	Geotextile Separator	15229	Syd	$ 1.30	$ 19,797.70
4040063	Underdrain, Pipe, Open-Graded, 6 inch	6250	Ft	$ 3.50	$ 21,875.00
4040093	Underdrain Outlet, 6 inch	521	Ft	$ 5.41	$ 2,818.61
8027001	Valley Gutter, Conc, 13 1/2 inch	0	Ft	$ 18.00	$ -
8020010	Curb and Gutter, Bridge Approach	1000	Ft	$ 31.57	$ 31,570.00
8020017	Curb and Gutter, Conc, Det B2	0	Ft	$ 15.04	$ -
8020032	Conc Pavt, Misc, Nonreinf, 13 1/2 inch, High Performance	0	Syd	$ 41.00	$ -
8030003	Sidewalk, Conc, 6 inch	0	Sft	$ 3.60	$ -
8040005	Conc Barrier, Double Face, Type A	0	Ft	$ 38.71	$ -
8040010	Conc Barrier, Split, Type A	0	Ft	$ 120.00	$ -
8040015	Glare Screen, Conc	0	Ft	$ 6.83	$ -
8040016	Glare Screen, Conc, Split	0	Ft	$ 45.27	$ -
8020200	Joint, Contraction, Cp	4644	Ft	$ 8.97	$ 41,656.68
8020201	Joint, Contraction, C3p	3672	Ft	$ 1.09	$ 4,002.48
8020207	Joint, Expansion, E2	0	Ft	$ 17.87	$ -
8020209	Joint, Expansion, E4	0	Ft	$ 6.18	$ -
8220000	Shoulder Corrugations, Ground or Cut, Conc	0	Ft	$ 0.90	$ -
8070000	Guardrail, Type B	3020	Ft	$ 15.34	$ 46,326.80
2040011	Pavt, Rem	10741	Syd	$ 3.57	$ 38,345.37
2040012	Conc Barrier, Rem	0	Ft	$ 10.45	$ -
2040006	Curb and Gutter, Rem	0	Ft	$ 4.28	$ -
2040007	Guardrail, Rem	380	Ft	$ 1.73	$ 657.40
2050010	Embankment, CIP	58840	Cyd	$ 3.53	$ 207,705.20
2050016	Excavation, Earth	22181	Cyd	$ 4.58	$ 101,588.98
8040030	Conc Barrier Backfill, CIP	0	Cyd	$ 4.00	$ -
8160050	Slope Restoration	13889	Syd	$ 2.59	$ 35,972.51
6050100	Conc Quality Assurance	2189	Cyd	$ 3.00	$ 6,567.00
6050101	Conc Quality Initiative	$ 4,549	Dlr	$ 1.00	$ 4,549.00
2030011	Dr Structure, Rem	0	Ea	$ 226.49	$ -
2030015	Sewer, Rem, Less than 24 inch	0	Ft	$ 10.59	$ -
2030016	Sewer, Rem, 24 inch to 48 inch	0	Ft	$ 12.55	$ -
2030001	Culv, Rem, Less than 24 inch	1	Ea	$ 259.00	$ 259.00
2030002	Culv, Rem, 24 inch to 48 inch	0	Ea	$ 523.79	$ -
2030003	Culv, Rem, Over 48 inch	0	Ea	$ 2,550.00	$ -
2030005	Culv End, Rem, Less than 24 inch	0	Ea	$ 133.32	$ -
2030006	Culv End, Rem, 24 inch to 48 inch	0	Ea	$ 269.08	$ -
4020033	Sewer, Cl A, 12 inch, Tr Det B	0	Ft	$ 29.20	$ -
4020034	Sewer, Cl A, 15 inch, Tr Det B	0	Ft	$ 30.23	$ -
4020035	Sewer, Cl A, 18 inch, Tr Det B	0	Ft	$ 34.77	$ -
4020036	Sewer, Cl A, 24 inch, Tr Det B	0	Ft	$ 44.39	$ -
4020037	Sewer, Cl A, 30 inch, Tr Det B	0	Ft	$ 62.89	$ -
4020038	Sewer, Cl A, 36 inch, Tr Det B	0	Ft	$ 64.82	$ -
4020183	Sewer, Cl B, 12 inch, Tr Det B	0	Ft	$ 36.71	$ -
4020185	Sewer, Cl B, 18 inch, Tr Det B	0	Ft	$ 45.09	$ -
4020188	Sewer, Cl B, 36 inch, Tr Det B	0	Ft	$ 89.22	$ -
4020600	Sewer, Cl E, 12 inch, Tr Det B	0	Ft	$ 23.66	$ -
4020601	Sewer, Cl E, 15 inch, Tr Det B	0	Ft	$ 35.99	$ -
4020602	Sewer, Cl E, 18 inch, Tr Det B	0	Ft	$ 42.68	$ -
4020603	Sewer, Cl E, 24 inch, Tr Det B	0	Ft	$ 46.81	$ -
4020605	Sewer, Cl E, 36 inch, Tr Det B	0	Ft	$ 85.81	$ -
4021275	Video Taping Sewer and Culv Pipe	0	Ft	$ 1.14	$ -
4030005	Dr Structure, 48 inch dia	0	Ea	$ 1,064.58	$ -
4030006	Dr Structure, Add Depth of 48 inch dia, 8 feet to 15 feet	0	Ft	$ 100.98	$ -
4030010	Dr Structure, 60 inch dia	0	Ea	$ 1,977.65	$ -
4030011	Dr Structure, Add Depth of 60 inch dia, 8 feet to 15 feet	0	Ft	$ 142.89	$ -
4030025	Dr Structure, Cleaning	0	Ea	$ 68.35	$ -
4030030	Dr Structure Lead, Cleaning, 12 inch	0	Ft	$ 1.41	$ -
4030031	Dr Structure Lead, Cleaning, 15 inch	0	Ft	$ 0.73	$ -
4030032	Dr Structure Lead, Cleaning, 18 inch	0	Ft	$ 0.81	$ -
4030033	Dr Structure Lead, Cleaning, 24 inch	0	Ft	$ 1.69	$ -
4030034	Dr Structure Lead, Cleaning, 30 inch	0	Ft	$ 0.90	$ -
4030035	Dr Structure Lead, Cleaning, 36 inch	0	Ft	$ 1.99	$ -
4030051	Dr Structure Cover	0	Lb	$ 1.21	$ -
4030052	Dr Structure Cover, Adj, Case 1	0	Ea	$ 348.88	$ -
4010123	Culv, Cl E, 24 inch	100	Ea	$ 41.83	$ 4,183.00
4010831	Culv End Sect, 12 inch	0	Ea	$ 215.00	$ -
4010835	Culv End Sect, 24 inch	2	Ea	$ 402.00	$ 804.00
	Contingency 15%				$ 187,477.31
space	TOTAL OPINION OF PROBABLE COST =				$ 1,437,326.04

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: M. Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 11,613.8 SFT STRUCTURE ID: S17 OF 63174
LOCATION: Squirrel Road over I-75 DECK DIM: 265' x 40'-9"
PRIMARY REPAIR STRATEGY: **Structure Replacement** STR. TYPE: **STEEL PLATE GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	11,614	SFT	$155.00 /SFT	$1,800,131.25
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 14 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	10,021.0	SFT	$27.00 /SFT	$270,567.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Other				
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other				
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)	1.0	LSUM	$185,841.86 LSUM	$185,841.86
Utilities		LSUM	LSUM	
Other		LSUM	LSUM	
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$2,257,000.00	$339,000.00
MOBILIZATION (10% max)	10.0	%	$2,596,000.00	$260,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$2,856,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$2,856,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: Mike Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 35,582.0 SFT STRUCTURE ID: S18-5 OF 63174
LOCATION: NB I-75 OFF-RAMP OVER NB-I75 ON-RAMP AND OVER I-75 DECK DIM: 754'-0" x 47'-3"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	35,582	SFT	$180.00 /SFT	$6,404,760.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only. 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,420.0	SFT	$27.00 /SFT	$254,340.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$68.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other-Underbridge Lighting		LSUM	$8,000.00 LSUM	
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$6,659,000.00	$999,000.00
MOBILIZATION (10% max)	10.0	%	$7,658,000.00	$766,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$8,424,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$8,424,000.00

2009

2009 CALL FOR PROJECTS
BRIDGE REPAIR COST ESTIMATE

REV. 1/29/09

ENGINEER: Mike Tarazi, PE (URS) DATE: 12/18/2009 DECK AREA: 23,312.0 SFT STRUCTURE ID: S18 OF 63174
LOCATION: NB I-75 ON RAMP OVER I-75 DECK DIM: 494'-0" x 47'-3"
PRIMARY REPAIR STRATEGY: **Total Structure Replacement** STR. TYPE: **STEEL GIRDERS**

WORK ITEM	QUANTITY	DIMENSION	UNIT COST	TOTAL
NEW BRIDGE				
Multiple spans, Concrete (add demo. & road approach & traffic control)		SFT	$135.00 /SFT	
Multiple spans, Steel (as above)	23,312	SFT	$180.00 /SFT	$4,196,160.00
Single span (or multi span over water), Concrete (as above)		SFT	$160.00 /SFT	
Single span (or multi span over water), Steel (as above)		SFT	$180.00 /SFT	
Pedestrian Bridge (includes removal, add traffic control)		SFT	$240.00 /SFT	
Other				
NEW SUPERSTRUCTURE				
Concrete (includes removal of old super & new railing, add traffic control & approach)		SFT	$110.00 /SFT	
Steel (as above)		SFT	$135.00 /SFT	
Over Water (add to new superstructure cost)		SFT	$25.00 /SFT	
Other				
WIDENING				
Added portion only 24 ft of width (add road approach widening)		SFT	$175.00 /SFT	
Other				
NEW DECK				
Includes removal of old deck & new railing (add traffic control & approach)		SFT	$70.00 /SFT	
Other				
DEMOLITION				
Entire bridge, grade separation	9,870.0	SFT	$27.00 /SFT	$266,490.00
Entire bridge, over water		SFT	$35.00 /SFT	
Other				
SUPERSTRUCTURE REPAIR				
Concrete Deck Patch (includes hand chipping)		SFT	$39.00 /SFT	
HMA Cap (no membrane - add bridge rail if req'd)		SFT	$1.40 /SFT	
HMA Overlay with WP membrane (add bridge rail if req'd)		SFT	$4.60 /SFT	
Removal of Concrete Wearing Course (latex) or Epoxy Overlay		SFT	$3.00 /SFT	
Removal of HMA Overlay		SFT	$1.00 /SFT	
Epoxy Overlay		SYD	$32.00 /SYD	
Shallow Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$25.00 /SFT	
Deep Overlay (includes joint replmt & hydro, add bridge rail if req'd)		SFT	$26.00 /SFT	
PCI Beam End Repair ($2000-$4000 per beam end)		EA	$3,000.00 EA	
Repair Structural Steel ($2400 bolted, $6200 welded)		EA	$5,000.00 EA	
High Load Hit Repair (PCI Beam)		SFT	$210.00 /SFT	
Paint Structural Steel		SFT	$9.00 /SFT	
Partial Painting		SFT	$18.00 /SFT	
Pin & Hanger replacement (includes temporary supports)		EA	$7,650.00 EA	
Other				
SUBSTRUCTURE REPAIR				
Pier repair (measured x 2) Replace unit if spalled area > 30%		CFT	$300.00 /CFT	
Pier repair over water (measured x 2)		CFT	$350.00 /CFT	
Pier replacement (CAP)		CFT	$69.00 /CFT	
Abutment repair (measured x 2)		CFT	$300.00 /CFT	
Temporary Supports for Substructure Repair		EA	$1,850.00 EA	
Slope Protection repairs		SYD	$65.00 /SYD	
Abutment Seat		CFT	$68.00 /CFT	
MISCELLANEOUS				
Expansion or Construction Joints (includes removal)		FT	$480.00 /FT	
Bridge Railing, remove and replace		FT	$225.00 /FT	
Thrie Beam Railing retrofit		FT	$32.00 /FT	
Deck Drain Extensions		EA	$600.00 EA	
Scour Countermeasures		LSUM	LSUM	
Other		LSUM	LSUM	
ROAD WORK				
Approach Pavement, 91/2" RC (add C & G, GR, Slope, Shldr.) 40' ea. end		SFT	$8.00 /SFT	
Approach Curb & Gutter (18' ea. quad.)		FT	$38.00 /FT	
Guardrail Anchorage to Bridge (<40')		quads	$1,400.00 /quad	
Guardrail, Type B or T (beyond GR anchorage to bridge, <200')		FT	$21.00 /FT	
Guardrail Ending (end section)		EA	$1,800.00 /EA	
Roadway Approach work (beyond approach pavement)		LSUM	LSUM	
Utilities		LSUM	LSUM	
Other				
TRAFFIC CONTROL - Unit Cost to be determined by Region or TSC T&S				
Part Width Construction		LSUM	LSUM	
Crossovers		EA	$150,000.00 EA	
Temporary Traffic Signals		set	$18,000.00 /set	
RR Flagging		LSUM	LSUM	
Detour		LSUM	LSUM	
Other				
CONTINGENCY (10% - 20%) (use higher contingency for small projects)	15.0	%	$4,463,000.00	$669,000.00
MOBILIZATION (10% max)	10.0	%	$5,132,000.00	$513,000.00
INFLATION (assume 4% per year, beginning in 2009)	0.0	%	$5,645,000.00	$0.00
(DOES NOT INCLUDE PE & CE)		CONSTRUCTION TOTAL		$5,645,000.00

ENGINEER'S ESTIMATE OF QUANTITIES

November 1, 2009

ACCESS ENGINEERING, INC.

P.O Box 26, Milford, Michigan 48381 Phone: (248) 684-1033
Fax: (248) 684-4575

PROJECT NOs.: JN 88168A
LOCATION: I-75, Segment 5 (Alt3 - 2 Lanes Min Each Direction using Crossovers)
PRIME CONSULTANT: URS Corporation
PROJECT MANAGER: Laura Aylsworth

DESCRIPTION	PAY ITEM CODE	UNIT	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT COST
Temp Pavement					**$836,308.00**
Steel Sheet Piling, Temp, Left in Place	7040003	Sft	$24.50	5500	$134,750.00
Pavt Mrkg, Ovly Cold Plastic, 12 inch, Cross Hatching, White	8110037	Ft	$4.88	750	$3,660.00
Rem Spec Mrkg	8110150	Sft	$1.21	750	$907.50
Barricade, Type III, High Intensity, Lighted, Furn	8120005	Ea	$74.78	40	$2,991.20
Barricade, Type III, High Intensity, Lighted, Oper	8120006	Ea	$100.00	40	$4,000.00
Conc Barrier Reflector Replacement	8120010	Ea	$5.39	1,200	$6,468.00
Conc Barrier, Temp, Adjusted	8120015	Ft	$3.02	44,000	$132,880.00
Conc Barrier, Temp, Furn	8120016	Ft	$11.28	48,000	$541,440.00
Conc Barrier, Temp, Oper	8120017	Ft	$2.50	48,000	$120,000.00
Conc Barrier, Temp, Relocated	8120018	Ft	$4.06	18,000	$73,080.00
Flag Control	8120030	LS	$10,000.00	1	$10,000.00
High Intensity Light, Type B, Furn	8120035	Ea	$105.41	5	$527.05
High Intensity Light, Type B, Oper	8120036	Ea	$25.00	5	$125.00
Lighted Arrow, Type C, Furn	8120042	Ea	$800.00	6	$4,800.00
Lighted Arrow, Type C, Oper	8120043	Ea	$200.00	6	$1,200.00
Lighted Arrow, Type C, Standby	8120044	Ea	$445.58	1	$445.58
Minor Traf Devices	8120050	LS	$10,000.00	1	$10,000.00
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	8120077	Ft	$0.27	168,950	$45,616.50
Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	8120078	Ft	$0.35	35,070	$12,274.50
Pavt Mrkg, Type NR, Paint, 4 inch, White, Temp	8120080	Ft	$0.24	63,700	$15,288.00
Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	8120081	Ft	$0.24	61,600	$14,784.00
Pavt Mrkg, Type R, 4 inch, White, Temp	8120090	Ft	$0.79	214,800	$169,692.00
Pavt Mrkg, Type R, 4 inch, Yellow, Temp	8120091	Ft	$0.77	147,300	$113,421.00
Plastic Drum, High Intensity, Lighted, Furn	8120102	Ea	$30.00	900	$27,000.00
Plastic Drum, High Intensity, Lighted, Oper	8120103	Ea	$10.00	800	$8,000.00
Sign Cover	8120105	Ea	$18.80	76	$1,428.80
Sign Cover, Type I	8120106	Ea	$1,000.00	6	$6,000.00
Sign, Portable, Changeable Message, Furn	8120110	Ea	$3,677.63	10	$36,776.30
Sign, Portable, Changeable Message, Oper	8120111	Ea	$500.00	10	$5,000.00
Sign, Type A, Temp, Prismatic, Furn	8120130	Sft	$8.00	140	$1,120.00
Sign, Type A, Temp, Prismatic, Oper	8120131	Sft	$0.80	130	$104.00
Sign, Type B, Temp, Prismatic, Furn	8120135	Sft	$3.35	7,060	$23,651.00
Sign, Type B, Temp, Prismatic, Oper	8120136	Sft	$0.80	6,720	$5,376.00
Mobile Attenuator	8120143	Ea	$4,000.00	6	$24,000.00
Glare Screen, Flexible	8127001	Ft	$10.67	8,800	$93,896.00
Glare Screen, Flexible - Relocate	8127001	Ft	$6.10	8,800	$53,680.00
Glare Screen, Flexible - Replace	8127001	Ft	$0.76	1,760	$1,337.60
Sign, Type B, Temp, Prismatic, Special, Furn	8127010	Sft	$7.00	9,000	$63,000.00
Sign, Type B, Temp, Prismatic, Special, Oper	8127010	Sft	$1.00	8,570	$8,570.00
Barrier Gate Temp, Furn	8127050	Ea	$10,000.00	2	$20,000.00
Barrier Gate Temp, Oper	8127050	Ea	$1,000.00	2	$2,000.00
Barrier Gate Temp, Adj	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Relocate	8127050	Ea	$500.00	2	$1,000.00
Barrier Gate Temp, Open/Close	8127050	Ea	$200.00	10	$2,000.00
Temp Attenuator, Furn	8127050	Ea	$5,200.00	5	$26,000.00
Temp Attenuator, Oper	8127050	Ea	$1,000.00	5	$5,000.00
				TOTAL COST OF PROJECT	**$2,670,598.03**
				Plus 15% Contingency	**$3,071,187.73**

ITS ESTIMATE FOR ALL SEGMENTS

I-75 Engineering Report
12 Mile Road to M-59
ITS Construction Cost Estimate
CS 63174 JN 88168
October 14, 2009

	Estimated 2009 Project Cost Breakdown		
	Item Description	**Best Case Item Cost**	**Worst Case Item Cost**
	ITS Communications System Backbone		
	Fiber Infrastructure (cable and conduit)	$1,745,640	$1,745,640
	Communications Network Integration	$100,000	$100,000
SEGMENT 1	**NB DMS @ 11 Mile**	$195,310	$195,310
	NB CCTV/DET @ 12 MILE*	$17,290	$91,600
	NB DMS / CCTV @ 13 Mile	$243,560	$243,560
	SB DMS @ 13 MILE*	$17,290	$195,310
SEGMENT 2	**NB CCTV / DET @ 14 Mile****	$21,290	$91,600
	NB CCTV @ 15 Mile	$84,600	$84,600
	NB CCTV / DET N of MAPLE	$91,600	$91,600
	NB CCTV @ ROCHESTER**	$17,290	$84,600
	NB DMS N of ROCHESTER	$195,310	$195,310
SEGMENT 3	**NB CCTV S of LIVERNOIS**	$84,600	$84,600
	SB DMS @ LIVERNOIS	$195,310	$195,310
	NB CCTV / DET @ BIG BEAVER**	$23,350	$91,600
	NB DMS / CCTV @ WATTLES*	$74,540	$243,560
	SB DMS @ WATTLES*	$17,290	$195,310
SEGMENT 4	**NB CCTV / DET @ LONG LAKE****	$17,290	$91,600
	NB CCTV / DET @ CROOKS**	$17,290	$91,600
	NB CCTV @ COOLIDGE	$84,600	$84,600
	NB DMS N of COOLIDGE	$195,310	$195,310
	SB DMS S of ADAMS	$191,310	$195,310
	NB CCTV / DET @ ADAMS*	$17,290	$91,600
SEGMENT 5	**NB / SB DET S of SQUARE LAKE**	$67,425	$67,425
	NB CCTV @ SQUARE LAKE*	$17,290	$84,600
	NB DET N of SQUARE LAKE	$48,200	$48,200
	SB DET N of SQUARE LAKE	$48,200	$48,200
	Total	**$3,828,475**	**$4,927,955**

Total Cost for Contractor		
Section	***Best Case Total Cost***	***Worst Case Total Cost***
ITS	$3,828,475.00	$4,927,955.00
Contingency 15% of ITS costs	$574,000.00	$739,000.00
Mobilization (10%)	$440,000.00	$567,000.00
Total Cost	**$4,842,475.00**	**$6,233,955.00**

Assumptions used for Estimation: 96 Strand Count Fiber Optic Cable was used for 13.3 miles plus 25% for service loops
Distance of 500 feet for each fiber drop was used
2-3" Direct Buried conduit was used, conduit is to be buried under roadway shoulder
HH Spacing of 500 feet was used for the backbone fiber system
Power service is within 1000 feet and has a utility connection cost of $4,000

Best Case / Worst Case Definition: **Best Case** scenario assumes that all currently existing, and proposed Troy hole ITS devices within the project limits have been upgraded and located such that they do not need to be relocated during to the roadway project, and costs only include fiber connection.

Worst case scenario assumes that all the devices need to be replaced within the project limits at the time of the roadway project.

* Notes existing ITS device at or near proposed location
** Notes ITS devices at or near proposed device that are being installed as part of the Troy hole project