ENGINEERS AGENDA
Tuesday September 3, 2010 at 6:00 pm

1.0 City Engineer

- **1.1** Hwy #11 Corridor
  - **1.1.1** Construction Items
    - **1.1.1.1** Construction Progress - Update
    - **1.1.1.2** Traffic Control – Update
    - **1.1.1.3** Water Main Replacement - Update
    - **1.1.1.4** Assessment - Update
    - **1.1.1.5** Construction Completion
  - **1.1.2** Approve Project Bills
    - **1.1.2.1** Approve Engineering Invoice – $29,664.50
    - **1.1.2.2** Approve Pay Est #3 - $162,586.76
  - **1.1.3** Clean Water State Revolving Fund (CWSRF) –
    - **1.1.3.1** Funding request for project bills to be submitted.

- **1.2** FEMA Recertification
  - **1.2.1** Engineering Services Proposal

- **1.3** Pump House
  - **1.3.1** Update on condensation issue

moore engineering, inc.
925 10th avenue east
west fargo, north dakota 58078
ph: (701) 282-4692 fax: (701) 282-4530

invoice

	INVOICE NUMBER	18365
	INVOICE DATE	9/3/2010
City of Mapleton	PROJECT	14407.000 000
Atten: Mary Hinschberger		14407.000 310
651 2nd Street		14407.000 410
Mapelton, ND 58059-0009		14407.000 420
Professional Services	CLIENT #M1202	14407.000 430
		14407.000 610

Water, Sanitary Sewer, Storm Sewer & Street Improvement District #2009 - 1

Exhibit C - C.2.01 Basic Services				
A. 1. a. Study and Report Phase Services	$31,000	X	100%	$31,000.00
A. 1. Basic Engineering Services				
b. Preliminary Design	$26,000	X	100%	$26,000.00
c. Final Design	$34,000	X	100%	$34,000.00
d. Bidding	$2,000	X	100%	$2,000.00
e. Construction Phase	$16,500	X	36%	$5,940.00
Exhibit C - 2.04 RPR Services				
A. 1. Resident Project Representative	$85,350	X	36%	$30,726.00
A. 2. Post Construction Services	$1,500	X	0%	$0.00

Exhibit C - 2.05 Additional Services	**UNITS**	**RATE**	**MULT**	**CURRENT**	**TO DATE**
A. 1. Additional Services - Construction Staking					
Survey Manager	7.00	105.00	1.00	$735.00	$945.00
GPS Survey Crew Chief	63.50	95.00	1.00	$6,032.50	$7,315.00
Survey Technician III	84.50	65.00	1.00	$5,492.50	$6,727.50
CADD Manager	1.00	105.00	1.00	$105.00	$105.00
CADD Technician I	2.50	85.00	1.00	$212.50	$212.50
Mileage	428.00	0.65	1.00	$278.20	$305.50
	Sub - Total				$15,610.50
A. 1. Additional Services - Assessments					
Project Manager	0.00	110.00	1.00	$0.00	$660.00
Senior Project Manager	1.50	145.00	1.00	$217.50	$217.50
Project Engineer	28.50	110.00	1.00	$3,135.00	$3,135.00
Engineering Technician I	7.50	65.00	1.00	$487.50	$1,267.50
GIS Technician III	1.00	100.00	1.00	$100.00	$1,300.00
GIS Technician II	4.00	90.00	1.00	$360.00	$1,170.00
Mileage	44.00	0.65	1.00	$28.60	$42.90
	Sub - Total				$7,792.90
TOTAL AMOUNT DUE					$153,069.40
AMOUNT BILLED PREVIOUSLY					$123,404.90
TOTAL INVOICE - AMOUNT DUE					**$29,664.50**

Item	Total	CITY	COUNTY
Basic & RPR Services	$22,708.50	$13,625.10	$9,083.40
Const. Staking	5,754.90	$3,452.94	$2,301.96
Assessments	$1,201.10	$1,201.10	
	$29,664.50	$18,279.14	$11,385.36

PARTIAL PAYMENT NO. 3
Water, Sewer, Storm Sewer & Street Improvement District #2009-1
Cass County Highway Reconstruction County Project No. CH1007, Shared Use Path
NDDOT Project No. TEC-0941(062)
Highway #11 PCN 18157

JOB NO. 14407

DATE APPROVED: 09/07/10
END DATE FOR QUANTITIES: 08/27/10

Dear: City Council

You are advised that **Riley Bros. Construction, Inc.** has performed work to date as shown by the following itemized statement

on **Water, Sewer, Storm Sewer & Street Improvement District #2009-1 - Mapleton, North Dakota.**

SPEC CODE	DESCRIPTION OF ITEM	UNIT	QUANTITIES CURRENT	QUANTITIES TOTAL	UNIT PRICE	TOTAL	PERCENT
Part 1 - Water and Sanitary Sewer Improvements							
1	Manhole - Abandon	Each		2	$100.00	$200.00	33%
2	Fence - Remove & Reset	L.F.		0	$25.00	$0.00	0%
3	Water Main - 6" PVC	L.F.	14	21	$16.50	$346.50	175%
4	Water Main - 10" PVC	L.F.	416	416	$25.00	$10,400.00	103%
5	Gate Valve & Box - 10"	Each	3	3	$2,036.00	$6,108.00	150%
6	Water Main Fittings	Lbs.	704	704	$2.50	$1,760.00	125%
7	Water Service Line - 1" Poly	L.F.	21	21	$14.00	$294.00	24%
8	Curb Stop & Box - 1"	Each	3	3	$403.00	$1,209.00	75%
9	Corporation Stop - 1"	Each	3	3	$348.00	$1,044.00	75%
10	Curb Box & Stop - Adjust Existing	Each		0	$161.00	$0.00	0%
11	Gate Valve - Adjust Existing	Each		0	$177.00	$0.00	0%
12	Water Main - Adjust Existing (All Types & Sizes)	Each		1	$3,500.00	$3,500.00	50%
13	Polystyrene Insulation - 2"	S.Y.		38	$2.00	$76.00	36%
14	Water Main - Connect to Existing (All Types & Sizes)	Each	3	3	$700.00	$2,100.00	100%
15	Sanitary Manhole	Each	3	8	$2,489.00	$19,912.00	100%
16	Sanitary Sewer Service - 6" PVC	L.F.	232	808	$16.00	$12,928.00	86%
17	Sanitary Sewer - 8" PVC	L.F.	945	1090	$15.00	$16,350.00	99%
18	Sanitary Sewer - 10" PVC	L.F.		1105	$17.00	$18,785.00	100%
19	Sanitary Sewer Wye	Each	5	18	$232.00	$4,176.00	100%
20	Sanitary Sewer - Connect to Existing Service	Each	5	18	$180.00	$3,240.00	100%
21	Sanitary Sewer - Connect to Existing Manhole	Each		2	$370.00	$740.00	100%
Part 2 - NDDOT - TEC Shared Use Path							
22 201-0370	Removal of Trees	Each	10	11	$100.00	$1,100.00	100%
23 202-0112	Removal of Concrete	S.Y.	589	617	$2.00	$1,234.00	115%
24 202-0119	Saw Concrete	L.F.	108	108	$2.50	$270.00	89%
25 202-0134	Aggregate Base - Remove and Salvage	C.Y.		0	$6.00	$0.00	0%
26 202-0170	Removal of Culvert (All Types & Sizes)	L.F.	412	537	$2.00	$1,074.00	82%
27 302-0321	Aggregate Surface Course - Cl 5	C.Y.		0	$20.00	$0.00	0%
28 750-0140	Sidewalk Concrete 6in	S.Y.	1060	1060	$33.55	$35,563.00	43%
29 708-2950	Seeding - Hydromulch	Acre		0	$1,665.00	$0.00	0%
30 724-0425	Reset Hydrant	Each		0	$500.00	$0.00	0%
31 722-6140	Adjust Gate Valve Box	Each		0	$75.00	$0.00	0%
32 750-0115	Sidewalk Concrete 4in	S.Y.		0	$34.95	$0.00	0%
33 750-1016	Driveway Concrete 6in Reinforced	S.Y.		0	$34.95	$0.00	0%
34 750-2115	Detectable Warning Panels	S.F.		0	$34.95	$0.00	0%
35 752-0922	Fence - Remove & Reset	L.F.		0	$25.00	$0.00	0%
36 754-0117	Flat Sheet for Signs - Type 3A Refl Sheeting	S.F.		0	$16.00	$0.00	0%
37 754-0206	Steel Galv Posts - Telescoping Perforated Tube	L.F.		0	$8.00	$0.00	0%
38 203-1000	Material Testing	L.Sum		0	$3,500.00	$0.00	0%
Part 3 - Highway 11 Reconstruction							
39	Tree - Remove	Each		0	$100.00	$0.00	0%
40	Aggregate Base - Remove and Salvage	C.Y.		0	$6.00	$0.00	0%
41	Asphalt - Remove	S.Y.	536	718	$2.25	$1,615.50	29%
42	Bituminous Pavement Reclamation	S.Y.		8747	$1.59	$13,907.73	100%
43	Concrete - Remove	S.Y.	81	81	$2.00	$162.00	61%
44	Common Excavation (P)	C.Y.		5000	$6.00	$30,000.00	47%
45	Inlet - Remove	Each		2	$150.00	$300.00	100%
46	Structure - Remove	Each		1	$250.00	$250.00	100%
47	Culvert - Remove (All Types & Sizes)	L.F.		75	$2.00	$150.00	48%
48	Culvert - Salvage & Reinstall	L.F.		30	$6.00	$180.00	100%
49	Pipe - Remove (All Types & Sizes)	L.F.		73	$2.00	$146.00	100%
50	Bollards - Remove & Reset	Each		0	$100.00	$0.00	0%
51	Flag Pole - Remove & Reset	Each		0	$150.00	$0.00	0%
52	Mailbox - Salvage & Reinstall	Each		0	$150.00	$0.00	0%
53	Mailbox - Install New	Each		0	$250.00	$0.00	0%
54	Mailbox - Temporary	L.Sum		1	$1,640.00	$1,640.00	100%
55	Sign - Remove	Each		0	$22.50	$0.00	0%
56	Sign - Remove & Reinstall	Each		0	$97.50	$0.00	0%

SPEC CODE	DESCRIPTION OF ITEM	UNIT	QUANTITIES CURRENT	QUANTITIES TOTAL	UNIT PRICE	TOTAL	PERCENT
57	Aggregate Surface Course - Class 5	C.Y.		0	$20.00	$0.00	0%
58	Asphalt Pavement - 4"	S.Y.		0	$33.00	$0.00	0%
59	Asphalt Pavement - 5"	S.Y.		0	$33.00	$0.00	0%
60	Asphalt Pavement - 7"	S.Y.		0	$33.00	$0.00	0%
61	Bituminous Material for Tack Coat	Gal.		0	$2.00	$0.00	0%
62	Concrete Paving - 8" Non-Reinforced	S.Y.		0	$34.95	$0.00	0%
63	Dowelled Contraction Joint Assembly	L.F.		0	$6.00	$0.00	0%
64	Aggregate Base Course Class 5	C.Y.		0	$20.00	$0.00	0%
65	Reclaimed Blended Base - 6"	CY.	447	1118	$5.00	$5,590.00	51%
66	Geo-textile Fabric - Soil Reinforcement	S.Y.	2683	7258	$1.15	$8,346.70	55%
67	Subgrade Preparation	S.Y.	2683	7258	$1.50	$10,887.00	55%
68	Curb & Gutter	L.F.		0	$11.35	$0.00	0%
69	Valley Gutter - Concrete	S.Y.		0	$52.50	$0.00	0%
70	Driveway Concrete - 6" Reinforced	S.Y.		0	$34.95	$0.00	0%
71	Storm Sewer - 12" RCP Class III	L.F.		93	$22.00	$2,046.00	65%
72	Storm Sewer - 21" RCP Class III	L.F.		68	$26.00	$1,768.00	89%
73	Storm Sewer - 24" RCP Class III	L.F.	35	239	$27.00	$6,453.00	92%
74	Storm Sewer - 27" RCP Class III	L.F.	44	44	$34.00	$1,496.00	100%
75	Storm Sewer - 30" RCP Class III	L.F.	53	1302	$43.00	$55,986.00	100%
76	Storm Sewer - 30"	L.F.	80	80	$43.00	$3,440.00	90%
77	Storm Sewer - 36" RCP Class III	L.F.	58	58	$55.00	$3,190.00	74%
78	Storm Sewer - 36"	L.F.		344	$55.00	$18,920.00	95%
79	Pipe - 4" Perforated PVC	L.F.		40	$6.00	$240.00	24%
80	Flared End Section w/Trash Rack - 30"	Each	1	1	$1,736.00	$1,736.00	100%
81	Flared End Section w/Trash Rack - 36"	Each	1	1	$2,353.00	$2,353.00	100%
82	Storm Sewer - 21" RCP Plug	Each		0	$80.00	$0.00	0%
83	Storm Sewer - 24" RCP Plug	Each		0	$86.00	$0.00	0%
84	Storm Sewer Manhole - 48"	Each	1	2	$1,766.00	$3,532.00	100%
85	Storm Sewer Manhole - 54"	Each	1	4	$2,316.00	$9,264.00	100%
86	Storm Sewer Manhole - 60"	Each	2	5	$2,915.00	$14,575.00	100%
87	Storm Sewer Manhole - 66"	Each		1	$2,945.00	$2,945.00	100%
88	Storm Sewer Manhole - 72"	Each		1	$3,720.00	$3,720.00	100%
89	Storm Sewer Manhole - 102"	Each		1	$4,671.00	$4,671.00	100%
90	Storm Sewer Inlet - 48"	Each	2	7	$1,287.00	$9,009.00	100%
91	Storm Sewer Inlet - Single	Each	1	2	$1,100.00	$2,200.00	100%
92	Storm Sewer Inlet - Double	Each		2	$1,800.00	$3,600.00	100%
93	Sluice Gate 30" & Manhole	Each	0.75	0.75	$32,759.00	$24,569.25	75%
94	Sluice Gate 36" & Manhole	Each		0.75	$35,182.00	$26,386.50	75%
95	Storm Sewer - Connect to Existing	Each	1	1	$500.00	$500.00	100%
96	Lift Station - Connect to Existing	L.Sum	1	1	$1,500.00	$1,500.00	100%
97	Flat Sheet for Signs - Type 3A Refective Sheeting	S.F.		0	$16.00	$0.00	0%
98	Steel Galvanized Posts - Telescoping Perforated Tube	L.F.		0	$8.00	$0.00	0%
99	Striping - Plastic - 4" - Grooved	L.F.		0	$3.65	$0.00	0%
100	Striping - Epoxy Painted - 12"	L.F.		0	$12.00	$0.00	0%
101	Striping - Plastic - 24" - Grooved	L.F.		0	$26.00	$0.00	0%
102	Striping - Epoxy Painted - 24"	L.F.		0	$19.00	$0.00	0%
103	Striping - Plastic Pavement Message - Grooved	S.F.		0	$12.00	$0.00	0%
104	Inlet Protection - Type A	Each		0	$150.00	$0.00	0%
105	Inlet Protection - Type C	Each		0	$150.00	$0.00	0%
106	Silt Fence - Supported	L.F.		0	$2.40	$0.00	0%
107	Erosion Control Blanket - NDDOT ECB 2	S.Y.		0	$1.50	$0.00	0%
108	Erosion Control Blanket - NDDOT ECB 3	S.Y.		0	$1.50	$0.00	0%
109	Fiber Rolls - 6"	L.F.		192	$5.00	$960.00	160%
110	Stabilized Construction Entrance	Each		0	$500.00	$0.00	0%
111	Flared End Section - 30" Transition Mat	L.Sum		0	$1,000.00	$0.00	0%
112	Flared End Section - 36" Transition Mat	L.Sum		0	$1,000.00	$0.00	0%
113	Seeding - Hydromulch	Acre		0	$1,665.00	$0.00	0%
114	Traffic Control	L.Sum	0.25	0.25	$6,650.00	$1,662.50	25%
115	Material Testing	L.Sum	0.11207	0.2078	$15,000.00	$3,117.00	21%
Part 4 - Street Lighting (ALTERNATE)							
116	400 W/HPS Lum w/Std. - Type A	Each		0	$2,150.00	$0.00	0%
117	Concrete Base - 7"	Each		0	$400.00	$0.00	0%
118	Conduit - 2" PVC	L.F.		0	$2.00	$0.00	0%
119	#4 USE/Cu. Conductor	L.F.		0	$1.75	$0.00	0%
120	#6 Cu. Grd. Conductor	L.F.		0	$1.10	$0.00	0%
121	Spare 400 W/HPS Lum w/Std.	Each		0	$2,000.00	$0.00	0%
122	Trenching/Backfill (30" Depth)	L.F.		0	$1.60	$0.00	0%
123	Feed Point	Each		0	$5,000.00	$0.00	0%

SPEC CODE	DESCRIPTION OF ITEM	UNIT	QUANTITIES CURRENT	QUANTITIES TOTAL	UNIT PRICE	TOTAL	PERCENT
CHANGE ORDER NO. 1							
2	$2,050.00	[illegible]					
2	$700.00	$1,400.00	100%				
17	$2.25	$38.25	77%				
	$33.00	$0.00	0%				
	$20.00	$0.00	0%				
	$1.15	$0.00	0%				
	$1.50	$0.00	0%				
1	$3,250.00	$3,250.00	100%				
1	$1,250.00	$1,250.00	100%				
1	$5,301.50	$5,301.50	100%				
7.5	$105.00	$787.50	100%				
6	($36.00)	($216.00)					

rk to Date	$446,981.93
Work to Date	$266,329.98
	$180,651.95

5	Gate Valve & Box - 10"	Each	2
14	Water Main - Connect to Existing	Each	2
41	Asphalt - Remove	S.Y.	17
60	Asphalt Pavement - 7"	S.Y.	
64	Aggregate Base Course Class 5	C.Y.	
66	Geotextile Fabric - Soil Reinforcement	S.Y.	
67	Subgrade Preparation	S.Y.	
B. Additional work on water main near old water tower			
	Hydrant	Each	1
	Gate Valve & Box - 6"	Each	1
C. Hauling junk from river bank to landfill			
	Landfill Charges (plus 15%)	Invoices	1
	Trucking	HR	7.5
DEDUCTIONS FOR RETESTING			
	Field Density Tests	Each	6

Total Wo
Previous

Balance

#2009-1
Shared Use Path

PARTIAL PAYMENT NO. 3
Water, Sewer, Storm Sewer & Street Improvement District
Cass County Highway Reconstruction County Project No. CH1007,

MOORE ENGINEERING:

Project Engineer

CONTRACTOR:

Riley Bros. Construction, Inc.

AUDITOR'S RECORD

Total Work to Date	$446,981.93
Less **10** percent	$44,698.19
Balance	$402,283.74
Less Former Payments	$239,696.98
Amount Allowed	$162,586.76
Approved Amount by City	

Project Cost-Share Reimbursement

Cass County Highway #11 Reconstruction - County Project No. CH1007
Shared Use Path - NDDOT Project No. - TEC-0941(062)
Water, Sanitary Sewer, Storm Sewer and Street Improvement District #2009-1
Mapleton, North Dakota

Time Period: August 4, 2010 to September 7, 2010

									FUNDING SOURCES - RUNNING TOTAL COST SHARE							
NO.	SPEC-CODE	ITEM	UNIT	CURRENT	TOTAL	UNIT PRICE	CURRENT TOTAL	RUNNING TOTAL	CASS COUNTY	SHARE	NDDOT	SHARE	LOCAL	SHARE	CDBG	SHARE
		Part 1 - Water and Sanitary Sewer Improvements														
1		Manhole - Abandon	Each		2	$100.00		$200.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$200.00	100.00%
2		Fence - Remove & Reset	L.F.		0	$25.00		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%
3		Water Main - 6" PVC	L.F.	14	21	$16.50	$231.00	$346.50	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$346.50	100.00%
4		Water Main - 10" PVC	L.F.	416	416	$25.00	$10,400.00	$10,400.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$10,400.00	100.00%
5		Gate Valve & Box - 10"	Each	3	3	$2,036.00	$6,108.00	$6,108.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$6,108.00	100.00%
6		Water Main Fittings	Lbs.	704	704	$2.50	$1,760.00	$1,760.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$1,760.00	100.00%
7		Water Service Line - 1" Poly	L.F.	21	21	$14.00	$294.00	$294.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$294.00	100.00%
8		Curb Stop & Box - 1"	Each	3	3	$403.00	$1,209.00	$1,209.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$1,209.00	100.00%
9		Corporation Stop - 1"	Each	3	3	$348.00	$1,044.00	$1,044.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$1,044.00	100.00%
10		Curb Box & Stop - Adjust Existing	Each		0	$161.00		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%
11		Gate Valve - Adjust Existing	Each		0	$177.00		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%
12		Water Main - Adjust Existing (All Types & Sizes)	Each		1	$3,500.00		$3,500.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$3,500.00	100.00%
13		Polystyrene Insulation - 2"	S.Y.	24	38	$2.00	$48.00	$76.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$76.00	100.00%
14		Water Main - Connect to Existing (All Types & Sizes)	Each	3	3	$700.00	$2,100.00	$2,100.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$2,100.00	100.00%
15		Sanitary Manhole	Each	3	8	$2,489.00	$7,467.00	$19,912.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$19,912.00	100.00%
16		Sanitary Sewer Service - 6" PVC	L.F.	232	808	$16.00	$3,712.00	$12,928.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$12,928.00	100.00%
17		Sanitary Sewer - 8" PVC	L.F.	945	1090	$15.00	$14,175.00	$16,350.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$16,350.00	100.00%
18		Sanitary Sewer - 10" PVC	L.F.		1105	$17.00		$18,785.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$18,785.00	100.00%
19		Sanitary Sewer Wye	Each	5	18	$232.00	$1,160.00	$4,176.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$4,176.00	100.00%
20		Sanitary Sewer - Connect to Existing Service	Each	5	18	$180.00	$900.00	$3,240.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$3,240.00	100.00%
21		Sanitary Sewer - Connect to Existing Manhole	Each		2	$370.00		$740.00	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%	$740.00	100.00%
						Part 1 Total	***$50,608.00***	***$103,168.50***	***$0.00***		***$0.00***		***$0.00***		***$103,168.50***	
		Part 2 - NDDOT - TEC Shared Use Path														
22	201-0370	Removal of Trees	Each	10	11	$100.00	$1,000.00	$1,100.00	$0.00	0.00%	$1,100.00	100.00%	$0.00	0.00%	$0.00	0.00%
23	202-0112	Removal of Concrete	S.Y.	589	617	$2.00	$1,178.00	$1,234.00	$0.00	0.00%	$1,234.00	100.00%	$0.00	0.00%	$0.00	0.00%
24	202-0119	Saw Concrete	L.F.	108	108	$2.50	$270.00	$270.00	$0.00	0.00%	$270.00	100.00%	$0.00	0.00%	$0.00	0.00%
25	202-0134	Aggregate Base - Remove and Salvage	C.Y.		0	$6.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
26	202-0170	Removal of Culvert (All Types & Sizes)	L.F.	412	537	$2.00	$824.00	$1,074.00	$0.00	0.00%	$1,074.00	100.00%	$0.00	0.00%	$0.00	0.00%
27	302-0321	Aggregate Surface Course - Cl 5	C.Y.		0	$20.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
28	750-0140	Sidewalk Concrete 6in	S.Y.	1060	1060	$33.55	$35,563.00	$35,563.00	$0.00	0.00%	$35,563.00	100.00%	$0.00	0.00%	$0.00	0.00%
29	708-2950	Seeding - Hydromulch	Acre		0	$1,665.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
30	724-0425	Reset Hydrant	Each		0	$500.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
31	722-6140	Adjust Gate Valve Box	Each		0	$75.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
32	750-0115	Sidewalk Concrete 4in	S.Y.		0	$34.95		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
33	750-1016	Driveway Concrete 6in Reinforced	S.Y.		0	$34.95		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
34	750-2115	Detectable Warning Panels	S.F.		0	$34.95		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
35	752-0922	Fence - Remove & Reset	L.F.		0	$25.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
36	754-0117	Flat Sheet for Signs - Type 3A Refl Sheeting	S.F.		0	$16.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
37	754-0206	Steel Galv Posts - Telescoping Perforated Tube	L.F.		0	$8.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
38	203-1000	Material Testing	L.Sum		0	$3,500.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
						Part 2 Total	***$38,835.00***	***$39,241.00***	***$0.00***		***$39,241.00***		***$0.00***		***$0.00***	
		Part 3 - Highway 11 Reconstruction														
39		Tree - Remove	Each		0	$100.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
40		Aggregate Base - Remove and Salvage	C.Y.		0	$6.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
41		Asphalt - Remove	S.Y.	536	718	$2.25	$1,206.00	$1,615.50	$807.75	50.00%	$0.00	0.00%	$807.75	50.00%	$0.00	0.00%
42		Bituminous Pavement Reclamation	S.Y.		8747	$1.59		$13,907.73	$6,953.87	50.00%	$0.00	0.00%	$6,953.87	50.00%	$0.00	0.00%
43		Concrete - Remove	S.Y.	81	81	$2.00	$162.00	$162.00	$81.00	50.00%	$0.00	0.00%	$81.00	50.00%	$0.00	0.00%
44		Common Excavation (P)	C.Y.		5000	$6.00		$30,000.00	$7,749.00	25.83%	$7,251.00	24.17%	$15,000.00	50.00%	$0.00	0.00%
45		Inlet - Remove	Each		2	$150.00		$300.00	$150.00	50.00%	$0.00	0.00%	$150.00	50.00%	$0.00	0.00%

									FUNDING SOURCES - RUNNING TOTAL COST SHARE							
NO.	SPEC-CODE	ITEM	UNIT	CURRENT	TOTAL	UNIT PRICE	CURRENT TOTAL	RUNNING TOTAL	CASS COUNTY	SHARE	NDDOT	SHARE	LOCAL	SHARE	CDBG	SHARE
46		Structure - Remove	Each		1	$250.00		$250.00	$125.00	50.00%	$0.00	0.00%	$125.00	50.00%	$0.00	0.00%
47		Culvert - Remove (All Types & Sizes)	L.F.		75	$2.00		$150.00	$75.00	50.00%	$0.00	0.00%	$75.00	50.00%	$0.00	0.00%
48		Culvert - Salvage & Reinstall	L.F.		30	$6.00		$180.00	$90.00	50.00%	$0.00	0.00%	$90.00	50.00%	$0.00	0.00%
49		Pipe - Remove (All Types & Sizes)	L.F.		73	$2.00		$146.00	$73.00	50.00%	$0.00	0.00%	$73.00	50.00%	$0.00	0.00%
50		Bollards - Remove & Reset	Each		0	$100.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
51		Flag Pole - Remove & Reset	Each		0	$150.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
52		Mailbox - Salvage & Reinstall	Each		0	$150.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
53		Mailbox - Install New	Each		0	$250.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
54		Mailbox - Temporary	L.Sum		1	$1,640.00		$1,640.00	$820.00	50.00%	$0.00	0.00%	$820.00	50.00%	$0.00	0.00%
55		Sign - Remove	Each		0	$22.50		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
56		Sign - Remove & Reinstall	Each		0	$97.50		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
57		Aggregate Surface Course - Class 5	C.Y.		0	$20.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
58		Asphalt Pavement - 4"	S.Y.		0	$33.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
59		Asphalt Pavement - 5"	S.Y.		0	$33.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
60		Asphalt Pavement - 7"	S.Y.		0	$33.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
61		Bituminous Material for Tack Coat	Gal.		0	$2.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
62		Concrete Paving - 8" Non-Reinforced	S.Y.		0	$34.95		$0.00	$0.00	60.00%	$0.00	0.00%	$0.00	40.00%	$0.00	0.00%
63		Dowelled Contraction Joint Assembly	L.F.		0	$6.00		$0.00	$0.00	60.00%	$0.00	0.00%	$0.00	40.00%	$0.00	0.00%
64		Aggregate Base Course Class 5	C.Y.		0	$20.00		$0.00	$0.00	60.00%	$0.00	0.00%	$0.00	40.00%	$0.00	0.00%
65		Reclaimed Blended Base - 6"	C.Y.	447	1118	$5.00	$2,235.00	$5,590.00	$3,354.00	60.00%	$0.00	0.00%	$2,236.00	40.00%	$0.00	0.00%
66		Geotextile Fabric - Soil Reinforcement	S.Y.	2683	7258	$1.15	$3,085.45	$8,346.70	$4,173.35	50.00%	$0.00	0.00%	$4,173.35	50.00%	$0.00	0.00%
67		Subgrade Preparation	S.Y.	2683	7258	$1.50	$4,024.50	$10,887.00	$5,443.50	50.00%	$0.00	0.00%	$5,443.50	50.00%	$0.00	0.00%
68		Curb & Gutter	L.F.		0	$11.35		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
69		Valley Gutter - Concrete	S.Y.		0	$52.50		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
70		Driveway Concrete - 6" Reinforced	S.Y.		0	$34.95		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
71		Storm Sewer - 12" RCP Class III	L.F.		93	$22.00		$2,046.00	$1,023.00	50.00%	$0.00	0.00%	$1,023.00	50.00%	$0.00	0.00%
72		Storm Sewer - 21" RCP Class III	L.F.		68	$26.00		$1,768.00	$884.00	50.00%	$0.00	0.00%	$884.00	50.00%	$0.00	0.00%
73		Storm Sewer - 24" RCP Class III	L.F.	35	239	$27.00	$945.00	$6,453.00	$3,226.50	50.00%	$0.00	0.00%	$3,226.50	50.00%	$0.00	0.00%
74		Storm Sewer - 27" RCP Class III	L.F.	44	44	$34.00	$1,496.00	$1,496.00	$748.00	50.00%	$0.00	0.00%	$748.00	50.00%	$0.00	0.00%
75		Storm Sewer - 30" RCP Class III	L.F.	53	1302	$43.00	$2,279.00	$55,986.00	$27,993.00	50.00%	$0.00	0.00%	$27,993.00	50.00%	$0.00	0.00%
76		Storm Sewer - 30"	L.F.	80	80	$43.00	$3,440.00	$3,440.00	$1,720.00	50.00%	$0.00	0.00%	$1,720.00	50.00%	$0.00	0.00%
77		Storm Sewer - 36" RCP Class III	L.F.	58	58	$55.00	$3,190.00	$3,190.00	$1,595.00	50.00%	$0.00	0.00%	$1,595.00	50.00%	$0.00	0.00%
78		Storm Sewer - 36"	L.F.		344	$55.00		$18,920.00	$9,460.00	50.00%	$0.00	0.00%	$9,460.00	50.00%	$0.00	0.00%
79		Pipe - 4" Perforated PVC	L.F.		40	$6.00		$240.00	$120.00	50.00%	$0.00	0.00%	$120.00	50.00%	$0.00	0.00%
80		Flared End Section w/Trash Rack - 30"	Each	1	1	$1,736.00	$1,736.00	$1,736.00	$868.00	50.00%	$0.00	0.00%	$868.00	50.00%	$0.00	0.00%
81		Flared End Section w/Trash Rack - 36"	Each	1	1	$2,353.00	$2,353.00	$2,353.00	$1,176.50	50.00%	$0.00	0.00%	$1,176.50	50.00%	$0.00	0.00%
82		Storm Sewer - 21" RCP Plug	Each		0	$80.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
83		Storm Sewer - 24" RCP Plug	Each		0	$86.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
84		Storm Sewer Manhole - 48"	Each	1	2	$1,766.00	$1,766.00	$3,532.00	$1,766.00	50.00%	$0.00	0.00%	$1,091.39	30.90%	$674.61	19.10%
85		Storm Sewer Manhole - 54"	Each	1	4	$2,316.00	$2,316.00	$9,264.00	$4,632.00	50.00%	$0.00	0.00%	$2,316.00	25.00%	$2,316.00	25.00%
86		Storm Sewer Manhole - 60"	Each	2	5	$2,915.00	$5,830.00	$14,575.00	$7,287.50	50.00%	$0.00	0.00%	$3,643.75	25.00%	$3,643.75	25.00%
87		Storm Sewer Manhole - 66"	Each		1	$2,945.00		$2,945.00	$1,472.50	50.00%	$0.00	0.00%	$736.25	25.00%	$736.25	25.00%
88		Storm Sewer Manhole - 72"	Each		1	$3,720.00		$3,720.00	$1,860.00	50.00%	$0.00	0.00%	$930.00	25.00%	$930.00	25.00%
89		Storm Sewer Manhole - 102"	Each		1	$4,671.00		$4,671.00	$2,335.50	50.00%	$0.00	0.00%	$1,167.75	25.00%	$1,167.75	25.00%
90		Storm Sewer Inlet - 48"	Each	2	7	$1,287.00	$2,574.00	$9,009.00	$4,504.50	50.00%	$0.00	0.00%	$2,252.25	25.00%	$2,252.25	25.00%
91		Storm Sewer Inlet - Single	Each	1	2	$1,100.00	$1,100.00	$2,200.00	$1,100.00	50.00%	$0.00	0.00%	$550.00	25.00%	$550.00	25.00%
92		Storm Sewer Inlet - Double	Each		2	$1,800.00		$3,600.00	$1,800.00	50.00%	$0.00	0.00%	$900.00	25.00%	$900.00	25.00%
93		Sluice Gate 30" & Manhole	Each	0.75	0.75	$32,759.00	$24,569.25	$24,569.25	$12,284.63	50.00%	$0.00	0.00%	$6,142.31	25.00%	$6,142.31	25.00%
94		Sluice Gate 36" & Manhole	Each		0.75	$35,182.00		$26,386.50	$13,193.25	50.00%	$0.00	0.00%	$6,596.63	25.00%	$6,596.63	25.00%
95		Storm Sewer - Connect to Existing	Each	1	1	$500.00	$500.00	$500.00	$250.00	50.00%	$0.00	0.00%	$250.00	50.00%	$0.00	0.00%
96		Lift Station - Connect to Existing	L.Sum	1	1	$1,500.00	$1,500.00	$1,500.00	$750.00	50.00%	$0.00	0.00%	$750.00	50.00%	$0.00	0.00%
97		Flat Sheet for Signs - Type 3A Refective Sheeting	S.F.		0	$16.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
98		Steel Galvanized Posts - Telescoping Perforated Tube	L.F.		0	$8.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
99		Striping - Plastic - 4" - Grooved	L.F.		0	$3.65		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
100		Striping - Painted - 12"	L.F.		0	$12.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
101		Striping - Plastic - 24" - Grooved	L.F.		0	$26.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
102		Striping - Painted - 24"	L.F.		0	$19.00		$0.00	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%
103		Striping - Plastic Pavement Message - Grooved	S.F.		0	$12.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
104		Inlet Protection - Type A	Each		0	$150.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
105		Inlet Protection - Type C	Each		0	$150.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
106		Silt Fence - Supported	L.F.		0	$2.40		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
107		Erosion Control Blanket - NDDOT ECB 2	S.Y.		0	$1.50		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
108		Erosion Control Blanket - NDDOT ECB 3	S.Y.		0	$1.50		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
109		Fiber Rolls - 6"	L.F.		192	$5.00		$960.00	$480.00	50.00%	$0.00	0.00%	$480.00	50.00%	$0.00	0.00%
110		Stabilized Construction Entrance	Each		0	$500.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%

NO.	SPEC-CODE	ITEM	UNIT	CURRENT	TOTAL	UNIT PRICE	CURRENT TOTAL	RUNNING TOTAL	FUNDING SOURCES - RUNNING TOTAL COST SHARE							
									CASS COUNTY	SHARE	NDDOT	SHARE	LOCAL	SHARE	CDBG	SHARE
111		Flared End Section - 30" Transition Mat	L.Sum		0	$1,000.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
112		Flared End Section - 36" Transition Mat	L.Sum		0	$1,000.00		$0.00	$0.00	50.00%	$0.00	0.00%	$0.00	50.00%	$0.00	0.00%
113		Seeding - Hydromulch	Acre		0	$1,665.00		$0.00	$0.00	30.00%	$0.00	20.00%	$0.00	50.00%	$0.00	0.00%
114		Traffic Control	L.Sum	0.25	0.25	$6,650.00	$1,662.50	$1,662.50	$498.75	30.00%	$332.50	20.00%	$831.25	50.00%	$0.00	0.00%
115		Material Testing	L.Sum	0.112067	0.2078	$15,000.00	$1,681.00	$3,117.00	$1,558.50	50.00%	$0.00	0.00%	$1,558.50	50.00%	$0.00	0.00%
						Part 3 Total	***$69,650.70***	***$283,014.18***	***$134,482.59***		***$7,583.50***		***$115,038.54***		***$25,909.55***	
		Part 4 - Street Lighting (ALTERNATE)														
116		400 W/HPS Lum w/Std. - Type A	Each		0	$2,150.00		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
117		Concrete Base - 7"	Each		0	$400.00		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
118		Conduit - 2" PVC	L.F.		0	$2.00		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
119		#4 USE/Cu. Conductor	L.F.		0	$1.75		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
120		#6 Cu. Grd. Conductor	L.F.		0	$1.10		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
121		Spare 400 W/HPS Lum w/Std.	Each		0	$2,000.00		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
122		Trenching/Backfill (30" Depth)	L.F.		0	$1.60		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
					0	$5,000.00		$0.00	$0.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
						Part 4 Total	***$0.00***	***$0.00***	***$0.00***		***$0.00***		***$0.00***		***$0.00***	
		CHANGE ORDER NO. 1														
		1A. Replace Existing 6" ACP Water Main with 10" PVC C900														
4		Water Main - 10" PVC	L.F.	227	227	$25.00	$5,675.00	$5,675.00	$0.00	0.00%	$0.00	0.00%	$5,675.00	100.00%	$0.00	0.00%
5		Gate Valve & Box - 10"	Each	2	2	$2,036.00	$4,072.00	$4,072.00	$0.00	0.00%	$0.00	0.00%	$4,072.00	100.00%	$0.00	0.00%
14		Water Main - Connect to Existing	Each	2	2	$700.00	$1,400.00	$1,400.00	$0.00	0.00%	$0.00	0.00%	$1,400.00	100.00%	$0.00	0.00%
41		Asphalt - Remove	S.Y.	17	17	$2.25	$38.25	$38.25	$0.00	0.00%	$0.00	0.00%	$38.25	100.00%	$0.00	0.00%
60		Asphalt Pavement - 7"	S.Y.			$33.00		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%
64		Aggregate Base Course Class 5	C.Y.			$20.00		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%
66		Geotextile Fabric - Soil Reinforcement	S.Y.			$1.15		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%
67		Subgrade Preparation	S.Y.			$1.50		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%
		1B. Additional work on water main near old water tower														
		Hydrant	Each	1	1	$3,250.00	$3,250.00	$3,250.00	$0.00	0.00%	$0.00	0.00%	$3,250.00	100.00%	$0.00	0.00%
		Gate Valve & Box - 6"	Each	1	1	$1,250.00	$1,250.00	$1,250.00	$0.00	0.00%	$0.00	0.00%	$1,250.00	100.00%	$0.00	0.00%
		1C. Hauling junk from river bank to landfill														
		Landfill Charges (plus 15%)	Invoices	1	1	$5,301.50	$5,301.50	$5,301.50	$2,650.75	50.00%	$0.00	0.00%	$2,650.75	50.00%	$0.00	0.00%
		Trucking	HR	7.5	7.5	$105.00	$787.50	$787.50	$393.75	50.00%	$0.00	0.00%	$393.75	50.00%	$0.00	0.00%
		DEDUCTIONS FOR RETESTING														
		Field Density Tests	Each	6	6	($36.00)	($216.00)	($216.00)	($108.00)	50.00%	$0.00	0.00%	($108.00)	50.00%	$0.00	0.00%
						Change Orders and Deductions	$21,558.25	$21,558.25	$2,936.50		$0.00		$18,621.75		$0.00	
						Total Work to Date	***$180,651.95***	***$446,981.93***	***$137,419.09***		***$46,824.50***		***$133,660.29***		***$129,078.05***	
						Less 10 Percent Retainage	***$18,065.20***	***$44,698.19***	***$13,741.91***		***$4,682.45***		***$13,366.03***		***$12,907.80***	
						Construction Balance	***$162,586.76***	***$402,283.74***	***$123,677.18***		***$42,142.05***		***$120,294.26***		***$116,170.24***	
						Previous Payments		***$239,696.98***	***$89,789.62***		***$6,891.30***		***$80,884.18***		***$62,131.89***	
						Current Payment Due		***$162,586.76***	***$33,887.57***		***$35,250.75***		***$39,410.08***		***$54,038.36***	

Project Financial Summary

Item	Current Total	Running Total	Total		Total		Total		Total	
Construction	$162,586.76	$402,283.74	$123,677.18		$42,142.05		$120,294.26		$116,170.24	
Engineering	$28,463.40	$145,276.50	$58,110.60	40.00%	$0.00	0.00%	$87,165.90	60.00%	$0.00	0.00%
Engineering (Electrical)		$9,571.80	$9,571.80	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Engineering - Additional Services	$9,450.00	$56,200.00	$56,200.00	100.00%	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Contingencies		$0.00	$0.00	56.72%	$0.00	0.00%	$0.00	43.28%	$0.00	0.00%
Assessments	$1,201.10	$7,792.90	$0.00	0.00%	$0.00	0.00%	$7,792.90	100.00%	$0.00	0.00%
Legal - Bond Council	$3,989.00	$15,825.00	$0.00	0.00%	$0.00	0.00%	$15,825.00	100.00%	$0.00	0.00%
Easements		$736.50	$0.00	0.00%	$0.00	0.00%	$736.50	100.00%	$0.00	0.00%
Publishing		$859.31	$0.00	0.00%	$0.00	0.00%	$859.31	100.00%	$0.00	0.00%
Geotechnical/Roadway Cores		$1,000.00	$0.00	0.00%	$0.00	0.00%	$1,000.00	100.00%	$0.00	0.00%
Capitalized Interest		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%
Equipment		$0.00	$0.00	0.00%	$0.00	0.00%	$0.00	100.00%	$0.00	0.00%
CDBG Administration	$6,204.00	$6,204.00	$0.00	0.00%	$0.00	0.00%	$1,804.00	29.08%	$4,400.00	70.92%
Total Project	$211,894.26	$645,749.75	$247,559.58		$42,142.05		$235,477.87		$120,570.24	

Note:
"Current" means the expenses occurred durning the time period shown on the top of this report.

SRF REQUEST FOR PAYMENT

NORTH DAKOTA DEPARTMENT OF HEALTH

Municipal Facilities

SFN 7804(1-91)

X Clean water SRF

___ Drinking Water SRF

See Instructions on back

1. Type of Request	2. SRF Project No	3. Payment Request No.	4. Employer ID No.	5. Recipient Account No.
Final Partial X	380790-03	4		

6. Name of Recipient Organization	Address
City of Mapleton	651 2nd St

City	State	Zip Code	7. Period Covered by Request
Mapleton	ND	58059	From (m/d/y): August 1, 2010 To (m/d/y): September 3, 2010

8. STATUS OF FUNDS

CLASSIFICATION	FUNDING BREAKDOWN CWSRF	LOCAL	CDBG	COUNTY	NDDOT	TOTAL
1. Administrative Expenses	$2,663.31	$0.00	$4,400.00	$0.00	$0.00	$7,063.31
2. Engineering Basic Fees	$88,367.00	$0.00	$0.00	$114,310.60	$0.00	$202,677.60
3. Other Engineering Fees (Electrical)	$0.00	$0.00	$0.00	$9,571.80	$0.00	$9,571.80
4. Legal Expenses	$15,815.50	$746.00	$0.00	$0.00	$0.00	$16,561.50
5. Assessments	$6,591.80	$0.00	$0.00	$0.00	$0.00	$6,591.80
6. Construction and Project Improvement	$120,294.25	$0.00	$116,170.25	$123,677.19	$42,142.05	$402,283.74
7. Equipment	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
8. Capitalized Interest	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
9. Other (Roadway Auger Cores)	$1,000.00	$0.00	$0.00	$0.00	$0.00	$1,000.00
10. Miscellaneous Cost	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
11. Total cumulative to date (sum of lines a thru m)	$234,731.86	$746.00	$120,570.25	$247,559.59	$42,142.05	$645,749.75
12.						
13. SRF payments previously requested	$171,259.00	$0.00	$0.00	$0.00	$0.00	$171,259
14. Amount requested for payment	$63,472.86	$0.00	$0.00	$0.00	$0.00	$63,473
15. Percentage of physical completion of project						33%

9. CERTIFICATION:

I certify that, to the best of my knowledge and belief, the billed costs or disbursements are in accordance with the terms of the loan agreement, the payment represents an amount which has not been previously requested, and all work is in accordance with the terms of the loan agreement.

a. RECIPIENT	Signature of Authorized Certifying Official	Date Report Submitted
	Typed or Printed Name and Title Mark Anderson, Mayor	Telephone (area code, number & ext.) 701-437-3476
b. Representative certifying to Line 8r	Signature of Authorized Certifying Official	Date Signed 9-3-2010
	Typed or Printed Name and Title Brandon Oye, Project Engineer	Telephone (area code, number & ext.) 701-282-4692

FOR DEPARTMENT USE ONLY:

10a. Date of Health Dept. Approval	10b. Date of Municipal Bond Bank Approval	10c. Date of SRF payment Disbursal
Authorized by	Authorized by	Authorized Trustee

Total Project Invoices to Date
SRF Project No: 380790-03
Project Name: Cass County Highway 11 Reconstruction
Owner: City of Mapleton

CWSRF Request	Date	Invoice	Vendor	Description	TOTAL	FUNDING BREAKDOWN CWSRF	LOCAL	CDBG	COUNTY	NDDOT
1. Administration Expenses										
1	4/28/2010	82583	Cass County Reporter	Advertisement for Bids	$310.47	$310.47	$0.00	$0.00	$0.00	$0.00
1	5/5/2010	82682	Cass County Reporter	Advertising FONSI & NOI	$101.12	$101.12	$0.00	$0.00	$0.00	$0.00
1	5/11/2010	875245	Reed Business Information	Construction Bulletin Advertising	$447.72	$447.72	$0.00	$0.00	$0.00	$0.00
4	7/9/2010	Statement	CDBG	Administrative Expenses	$4,230.00	$1,230.00	$0.00	$3,000.00	$0.00	$0.00
4	8/5/2010	Statement	CDBG	Administrative Expenses	$1,974.00	$574.00	$0.00	$1,400.00	$0.00	$0.00
				Administration Expenses Subtotals	$7,063.31	$2,663.31	$0.00	$4,400.00	$0.00	$0.00
2. Engineering Basic Fees										
1	5/28/2010	17839	Moore Engineering, Inc	Basic Services	$93,000.00	$55,800.00	$0.00	$0.00	$37,200.00	$0.00
2	6/28/2010	17939	Moore Engineering, Inc	Basic, RPR and Additional Services	$9,884.30	$5,930.58	$0.00	$0.00	$3,953.72	$0.00
NA	6/28/2010	17940	Moore Engineering, Inc	Design, Construction, RPR	$43,150.00	$0.00	$0.00	$0.00	$43,150.00	$0.00
3	7/29/2010	18091	Moore Engineering, Inc	Basic, RPR and Additional Services	$13,928.80	$8,357.28	$0.00	$0.00	$5,571.52	$0.00
NA	7/29/2010	18090	Moore Engineering, Inc	Design, Construction, RPR	$3,600.00	$0.00	$0.00	$0.00	$3,600.00	$0.00
4	9/3/2010	18365	Moore Engineering, Inc	Basic, RPR and Additional Services	$29,664.50	$18,279.14	$0.00	$0.00	$11,385.36	$0.00
NA	9/3/2010	18364	Moore Engineering, Inc	Design, Construction, RPR	$9,450.00	$0.00	$0.00	$0.00	$9,450.00	$0.00
				Engineering Basic Fees Subtotals	$202,677.60	$88,367.00	$0.00	$0.00	$114,310.60	$0.00
3. Other Engineering Fees (Electrical)										
NA	6/28/2010	17940	Moore Engineering, Inc	Design, Construction, RPR	$9,571.80	$0.00	$0.00	$0.00	$9,571.80	$0.00
				Other Engineering Fees (Electrical) Subtotals	$9,571.80	$0.00	$0.00	$0.00	$9,571.80	$0.00
4. Legal Expenses										
1	5/20/2010	101485	Ohnstad Twichell	Legal Services - Bond Counsel	$3,500.00	$3,500.00	$0.00	$0.00	$0.00	$0.00
2	5/20/2010	101889	Ohnstad Twichell	Legal Services	$8,336.00	$8,336.00	$0.00	$0.00	$0.00	$0.00
2	5/20/2010	101877	Ohnstad Twichell	Easements	$736.50	$0.00	$736.50	$0.00	$0.00	$0.00
4	8/31/2010	103141	Ohnstad Twichell	Legal Service	$3,989.00	$3,979.50	$9.50	$0.00	$0.00	$0.00
				Legal Expenses Subtotals	$16,561.50	$15,815.50	$746.00	$0.00	$0.00	$0.00

Total Project Invoices to Date
SRF Project No: 380790-03
Project Name: Cass County Highway 11 Reconstruction
Owner: City of Mapleton

CWSRF Request	Date	Invoice	Vendor	Description	TOTAL	FUNDING BREAKDOWN CWSRF	LOCAL	CDBG	COUNTY	NDDOT
5. Assessments										
2	5/28/2010	17839	Moore Engineering, Inc	Basic Services	$3,464.30	$3,464.30	$0.00	$0.00	$0.00	$0.00
3	7/29/2010	18091	Moore Engineering, Inc	Basic Services	$3,127.50	$3,127.50	$0.00	$0.00	$0.00	$0.00
				Assessments Subtotals	$6,591.80	$6,591.80	$0.00	$0.00	$0.00	$0.00
6. Construction and Project Improvement										
2	7/1/2010	PP#1	Riley Bros. Construction	Partial Payment No. 1	$36,034.74	$4,666.32	$0.00	$26,702.10	$4,666.32	$0.00
3	7/29/2010	PP#2	Riley Bros. Construction	Partial Payment No. 2	$203,662.24	$76,217.85	$0.00	$35,429.79	$85,123.30	$6,891.30
4	9/7/2010	PP#3	Riley Bros. Construction	Partial Payment No. 3	$162,586.76	$39,410.08	$0.00	$54,038.36	$33,887.57	$35,250.75
				Construction and Project Improvement Subtotals	$402,283.74	$120,294.25	$0.00	$116,170.25	$123,677.19	$42,142.05
7. Equipment										
				Equipment Subtotals	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
8. Capitalized Interest										
				Capitalized Interest Subtotals	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
9. Other (Roadway Auger Cores)										
1	1/11/2010	15710	Midwest Testing Lab	Roadway Cores	$1,000.00	$1,000.00	$0.00	$0.00	$0.00	$0.00
				Other (Roadway Auger Cores) Subtotals	$1,000.00	$1,000.00	$0.00	$0.00	$0.00	$0.00
10. Miscellaneous cost										
				Miscellaneous Cost Subtotals	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

	TOTAL	FUNDING BREAKDOWN CWSRF	LOCAL	CDBG	COUNTY	NDDOT
Project Total	$645,749.75	$234,731.86	$746.00	$120,570.25	$247,559.59	$42,142.05

Note: Only invoices for this request are attached.

moore engineering, inc.

Consulting Engineering • Land Surveying

50 Years of Service

925 10th Avenue East • West Fargo, North Dakota 58078 • Phone: 701-282-4692 • Fax: 701-282-4530

September 3, 2010

Mayor Mark Anderson
City of Mapleton
PO Box 9
Mapleton, North Dakota 58059

RE: FEMA LEVEE RECERTIFICATION
MAPLETON, NORTH DAKOTA

Dear Mayor Anderson,

The City of Mapleton has decided to utilize the Provisionally Accredited Levee (PAL) process as part of the FEMA remapping that is currently taking place in this region. As part of the FEMA remapping, the City is required to recertify their levee or it will be de-accredited once the new FEMA Digital Flood Insurance Rate Maps are effective in spring of 2012. This letter is to explain the procedure and preliminary cost of recertifying the existing levee system. Our office would be pleased to offer assistance in the recertification process. From reviewing what the City of Enderlin has completed thus far on their recertification, we understand that this process may have several steps along the way depending on what information is available and the condition of the existing levee. There are no completed examples for which to base a complete scope and cost, because this is a new process that FEMA is requiring that has not been done before in North Dakota. From our best judgment, the recertification process can be broken down into the following steps:

1. **Data Collection & Review**
    a. Review all the collected data and determine what can be used in the certification and what areas of data have a deficiency.
    b. Survey the existing levee to verify freeboard and dimension requirements.
    c. Provide levee drawing from survey information showing profile and cross sections.
    d. Provide recommendations of what needs to be done (testing, inspections) to get additional data.
    e. Provide preliminary cost estimates for projects to repair any physical deficiencies in the levee.
2. **Assistance in Acquiring Funding Through the ND State Water Commission**
    a. Assist the City in the process of applying for possible financial assistance for costs (engineering, legal, construction, etc...) incurred from the recertification process.
3. **Create Additional Data and Correct Physical Levee Deficiencies**
    a. Coordinate any additional testing, inspections, and analyses that may be needed to meet all requirements of the certification.
    b. Design and administration of construction activities to repair any physical levee deficiencies such as inadequate freeboard, brush removal, slope repairs and addressing encroachment issues if needed.
4. **Preparing and Certifying Final Report to FEMA**
    a. Prepare all data for final review and submission to FEMA and any follow up work required to make the recertification final.

Below is a general summary of what information first needs to be collected, based on the National Flood Insurance Program (NFIP). If no information/documents currently exist, they will need to be created.

Requirements for Design

- **Freeboard** – Levees must be at least 3' above the base flood elevation (BFE) and be 3.5' above BFE at the upstream end. Also, levees must be 4' above BFE within 100' of structures such as bridges.
- **Closures** – All openings must be provided with closure devices that are structural parts of the system during operation.
- **Embankment Protection** – Engineering analysis must be conducted to show that no appreciable erosion of the levee embankment can be expected during the base flood, as a result of either currents or waves, and that anticipated erosion will not result in failure of the levee embankment or foundation directly or indirectly through reduction of the seepage path and subsequent instability.
- **Embankment and Foundation Stability Analysis** – Engineering analyses that evaluate levee embankment stability must be submitted. The analyses provided must evaluate expected seepage during loading conditions associated with the base flood and must demonstrate that seepage into or through the levee foundation and embankment will not jeopardize embankment or foundation stability.
- **Settlement Analyses** – Engineering analyses must be submitted that assess the potential and magnitude of future losses of freeboard as a result of levee settlement and demonstrate that freeboard will be maintained. Must address embankment loads, compressibility of embankment soils, compressibility of foundation soils, age of the levee system, and construction compaction methods. In addition, detailed settlement analysis using procedures such as those described in USACE Engineer Manual 1110-1-1904, Soil Mechanics Design – Settlement Analysis, must be submitted.
- **Interior Drainage** – An analysis must be submitted that identifies the source(s) of such flooding, the extent of the flooded area, and, if the average depth is greater than 1 foot, the water-surface elevation(s) of the base flood. This analysis must be based on the joint probability of interior and exterior flooding and the capacity of facilities (such as drainage lines and pumps) for evacuating interior floodwaters.

Requirements for Operation Plan

- **Flood Warning System** – Documentation of the flood warning system, under the jurisdiction of Federal, State, or community officials that will be used to trigger emergency operation activities; and demonstration that sufficient flood warning time exists for the completed operation of all closure structures, including necessary sealing, before floodwaters reach the base of the closure.
- **Plan of Operation** – A formal plan of operation including specific actions and assignments of responsibility by individual name or title.
- **Periodic Operation of Closures** – Provisions for periodic operation, at not less than one-year intervals, of the closure structure for testing and training purposes.

Requirements for Interior Drainage

- **Flood Warning System** – Documentation of the flood warning system, under the jurisdiction of Federal, State, or community officials that will be used to trigger emergency operation activities; and demonstration that sufficient flood warning time exists to permit activation of mechanized portions of the drainage system.
- **Plan of operation** – A formal plan of operation including specific actions and assignments of responsibility by individual name or title.
- **Manual Backup** – Provision for manual backup for the activation of automatic systems.

Requirements for Maintenance Plan

- Levee must be maintained in accordance with an officially adopted maintenance plan.

Requirements for Certification

- All data submitted is certified by a Professional Engineer or a Federal agency.
- Certified as-built levee plans are included in the submittal.

At this time it is not possible to know the exact requirements needed until reviewing all information (data and survey), therefore we are proposing to work on an hourly basis. We will provide an estimate of total scope and cost for the certification prior to proceeding with the remaining steps.

Below is our estimate of scope and cost for completing the first step of Data Collection & Review as listed on page 1.

Data Collection & Review	
Review Existing Data	$4,000.00
Survey Levee	$4,500.00
*BNSF Requirements	$4,000.00
Provide Levee Drawings	$2,500.00
Total Cost	$15,000.00

*BNSF Requirements include all work that may be necessary to access their property and survey the railroad tracks within the levee system. Work will include permitting, flaggers and insurance. If FEMA does not require certification of the railroad track, then this portion will not be completed.

We have attached general layout drawings of the levee system as constructed in 1998 and 1999.

Please let us know if you would like to move forward with the first step of Data Collection & Review and we will put together a formal agreement for our services. You can contact our office at anytime if you have any questions about this process.

Sincerely,

MOORE ENGINEERING, INC

Kent W. Ritterman, P.E.

KWR/blo