

CITY OF WISCONSIN DELLS MEETING AGENDA

Meeting Description PUBLIC WORKS COMMITTEE

Date: MONDAY, DECEMBER 14, 2015 Time: 5:30PM

Location: MUNICIPAL BUILDING 300 LA CROSSE STREET, WISCONSIN DELLS, WI

		Committee Members	
		Ald. Dar Mor-Chair	Ald. Ed Wojnicz
		Mayor Brian Landers	Ald. Brian Holzem
AGENDA ITEMS:			
1	CALL MEETING TO ORDER AND ATTENDANCE		
2	APPROVAL OF THE MINUTES FROM THE NOVEMBER 9, 2015 PUBLIC WORKS MEETING		
3	DISCUSSION ON PROJECT UPDATES-CAPITAL STREET TASK ORDER		
4	DISCUSSION/DECISION ON RIVERWALK UPDATE (FOLLOWING 12/11/15 MEETING WITH VIERBICHER)		
5	DISCUSSION/DECISION ON DELLS-DELTON WASTEWATER TREATMENT PLANT DRYER RELATED INFORMATION AS IT RELATES TO THE MUNICIPAL CODE SEWER ORDINANCE		
6	DISCUSSION/DECISIONS ON HWY 13/WOODSIDE AND 9 TH /WAUBEEK INTERSECTIONS		
7	DISCUSSION/DECISION ON ESTIMATES FOR GIS CONTRACTS (COMBINATION OF MSA & FORSTER ELECTRICAL ENGINEERING)		
8	DISCUSSION/DECISION ON BROADWAY PLAZA, UTILITY CONSIDERATIONS AS THEY RELATE TO SITE SELECTION		
9	DISCUSSION AND ANY DECISION AS NEEDED ON LIST OF MAYOR'S COMMITTEE GOALS: <ul style="list-style-type: none"> • UTILIZE THE DOWNTOWN TRAFFIC STUDY FROM MSA TO CONSIDER TRAFFIC AND PEDESTRIAN TRAFFIC CHANGES IN THE DOWNTOWN AREA 		
10	ANY OTHER ITEMS FOR REFERRAL TO FUTURE MEETING		
11	FUTURE PUBLIC WORKS MEETING (Scheduled for Monday, January 11, 2016 @ 5:30pm)		
12	ADJOURNMENT		
<p>Open Meetings Notice: If this meeting is attended by one or more members of the Common Council who are not members of this committee, their attendance may create a quorum of another city commission, board or committee under the Wisconsin Open Meetings Law; However, no formal action will be taken by any governmental body at the above stated meeting other than the body, committee, commission, or board identified in this meeting notice. Please be advised that upon reasonable notice, the City of Wisconsin Dells will furnish appropriate auxiliary aids and services to afford individuals with disabilities an equal opportunity to participate in meeting activities.</p>			
ALDERPERSON DAR MOR, CHAIRPERSON		DISTRIBUTED DECEMBER 11, 2015	



Task Order

PROFESSIONAL SERVICES

More ideas. Better solutions.

Date of Issuance:
300 LaCrosse Street
Wisconsin Dells, WI 53965

To: City of Wisconsin Dells
November 11, 2015
MSA Project No.: 00085061

This task order will acknowledge that MSA Professional Services, Inc. (MSA) is authorized to begin work on the following project:

Project Name: Capital Street Reconstruction

The scope of the work authorized is: See attached Scope of Engineering Services

The schedule to perform the work is: approximate start: 11-11-2015
approximate completion: 06-24-2016

The estimated fee for the work is: Estimated - Hourly, See Attached Summary of Engineering Fees

This authorization for the work described above shall serve as the Agreement between MSA and OWNER. All services shall be performed in accordance with the Master Professional Services Agreement currently in force. Any attachments or exhibits referenced in this Agreement are made part of this Agreement. Payment for these services will be on a time and materials basis. A list of reimbursable expenses is included on the attached rate schedule.

Approval: MSA shall commence work on this project in accordance with your written authorization. This authorization is acknowledged by signature of the authorized representatives of the parties to this Agreement. A copy of this Agreement signed by the authorized representatives shall be returned for our files.

CITY OF WISCONSIN DELLS

MSA PROFESSIONAL SERVICES, INC.

Brian Landers
Mayor
Date: _____



Chuck Bongard
Program Manager
Date: 11/12/15

Attest: Nancy Holzem

Date: _____

**ATTACHMENT A:
RATE SCHEDULE
MARCH 2015/2016***

<u>CLASSIFICATION</u>	<u>LABOR RATE</u>
Architects.....	\$125-\$151/hr.
Clerical.....	\$60-\$80/hr.
CAD Technician.....	\$59-\$110/hr.
Geographic Information Systems (GIS).....	\$76-\$128/hr.
Housing Administration.....	\$58-\$104/hr.
Hydrogeologists.....	\$99-\$152/hr.
Planners.....	\$83-\$160/hr.
Principals.....	\$155-\$190/hr.
Professional Engineers.....	\$85-\$190/hr.
Project Manager.....	\$62-\$180/hr.
Registered Land Surveyors.....	\$93-\$150/hr.
Staff Engineers.....	\$80-\$115/hr.
Technicians.....	\$59-\$110/hr.
Wastewater Treatment Plant Operator.....	\$72-113/hr.
 <u>REIMBURSABLE EXPENSES</u>	
Copies/Prints.....	Rate based on volume
Fax.....	\$1.00/page
GPS Equipment.....	\$40/hour
Mailing/UPS.....	At cost
Mileage – (currently \$0.575/mile).....	Rate set by Fed. Gov.
Nuclear Density Testing.....	\$25.00/day + \$10/test
Organic Vapor Field Meter.....	\$100.00/day
PC/CADD Machine.....	Included in labor rates
Robotics Geodimeter.....	\$30/hour
Stakes/Lathe/Rods.....	At cost
Total Station.....	Included in labor rates
Travel Expenses, Lodging, & Meals.....	At cost
Traffic Counting Equipment & Data Processing.....	At cost

* Labor rates represent an average or range for a particular job classification. These rates are in effect until March 1, 2016. After March 1, 2016, these rates may increase by not more than 5% per year.

SCOPE OF SERVICES-ENGINEERING

Capital Street Reconstruction Project

City of Wisconsin Dells

Project Description

The project includes complete street and utility reconstruction on Capital Street from the intersection of Minnesota Avenue to the intersection of Ramsey Street. Estimated centerline length of this portion of the project is 1,100 lineal feet. The project also includes evaluation and reconstruction of the existing storm sewer system in the Alley located between Church Street and Capital Street.

Design Phase Services

- Complete topographic survey of the roadway and utility project areas on County coordinate system.
- Coordinate geotechnical investigation (soil borings) to determine soil characteristics, presence of groundwater and depth to bedrock, including providing location and depth requirements. This information will also be used to design the pavement cross-section and identify groundwater and soil conditions for utility installation. ***The cost for geotechnical investigation is not included in this proposal and will be invoiced directly to the City, if required.***
- Prepare 30% preliminary plan and profile drawings, including preliminary utility locations, storm sewer routing and general roadway configuration, and review with City staff.
- Review televising for sanitary and storm sewer systems and prepare plans for sanitary sewer rehabilitation and storm sewer lining.
- Attend one meeting with City to review 30% preliminary design and cost estimates.
- Attend project walk-thru on site to review preliminary plans, conflicts with trees, public and private utility conflicts, and sidewalk and driveway requirements.
- Revise preliminary plans based on comments from meetings and correspondence with City.
- Provide preliminary plans to utility companies (gas, telephone, electric and cable TV) for comments related to conflicts or required relocations.
- Prepare project cost estimate with department allocation of costs based on preliminary design.
- Attend one meeting with City Staff to review 90% design and cost estimates, gather staff input and make recommendations.
- Prepare final plans based on comments.
- Attend and conduct one Public Information Meeting to review project and solicit comments/concerns. ***(Optional, upon request from City staff as required)***
- Complete Application for Prevailing Wage Rate Determination on behalf of the City.
- Prepare WDNR submittals for water main and sanitary sewer construction permits.
- Prepare a Storm Water Management and Erosion Control Plan and Construction Site Notice of Intent (including \$140 submittal fee) and submit to WDNR.

- Preparation of Project Manual including specifications and bidding documents.
- Prepare updated cost estimate based on final design.
- Forward final plans, specifications and cost estimate to City and Utilities for review and comment.
- Prepare Advertisement for Bids and forward to City for publishing in official news paper (*advertising costs to be paid by the City*).
- Perform an internal Quality Assurance/Quality Control (QA/QC) plan and specification review.
- Project administration and correspondence.
- Reimbursables: Reproduction, Postage, Fax, UPS, GPS, Mileage.

Bidding Phase Services

- Reproduce project plans and specifications (20 assumed).
- Distribute electronic plans/specifications to statewide "plan rooms".
- Solicit prospective bidders utilizing the Quest electronic bidding network.
- Correspondence with prospective bidders and material supplier questions during project advertising period.
- Prepare and distribute addenda to plan holders (two assumed)
- Attend and conduct the bid opening at City Hall.
- Review bids and prepare bid tabulation.
- Prepare letter of recommendation and Notice of Award.
- Attend one Council meeting to present bid results and recommend award
- Prepare and administer construction contracts.
- Reimbursables: Reproduction, Postage, Fax, UPS, Mileage.

Construction Phase Services

Construction Administration

- Attend and conduct one pre-construction meeting, and prepare minutes from that meeting and distribute to attendees.
- Review shop drawings and construction materials proposed by the contractor.
- Attend bi-weekly meetings with Contractor, staff and/or City officials to review construction progress (5 assumed).
- Review and recommend contractor's pay requests (4 assumed).
- Review change order requests and make recommendation to Owner (2 assumed).
- Attend one "walk-through" inspection with Owner's representative(s).
- Prepare "punch list" of items required for final completion of project.
- Issue and administer project closeout documents.
- Review contractor's notes and 'as-built' records and prepare reproducible record drawings. Three copies of record drawings to be provided to the Owner.
- Prepare project cost estimate with department allocation of costs based on preliminary design.
- Coordinate and attend an 11-month project review prior to expiration of one-year warranty period.
- Update City water, sanitary, and storm sewer maps/GIS database.

- Project administration and correspondence.
- Reimbursables: Reproduction, Postage, Fax, UPS, and Mileage.

Construction Staking

- Provide construction staking for:
 - Storm Sewer, sanitary sewer, water main and appurtenances (32 crew hours estimated, 2 Trips).
 - Curb and gutter (24 crew hours estimated, 2 Trips)
 - Red-top gravel grades (8 crew hours estimated, 1 Trip)

Construction Observation (assumes 6 weeks of construction)

- Construction observation and documentation of major project components and critical operations consisting of:
 - An estimated 40 hours of construction observation and documentation by a Professional Engineer.
 - An estimated 192 hours of construction observation and documentation by an Engineering Technician, or Staff Engineer. *(Assumes on-site observation at the 50% level)*
 - Reimbursables: Reproduction, Postage, Fax, UPS, GPS, Mileage

Additional Services (available but not included in the above Scope of Services)

- Publishing costs for public notices (including Advertisement for Bids).
- Geotechnical investigation cost
- Sanitary sewer televising cost
- Surveys including CSMs and Plats for properties
- Additional Meetings
- Additional survey and fieldwork to delineate and inventory storm structures and pipe networks in the stormwater drainage basin that outlets in the 84" RCCP storm sewer at Church Street, one block west of the end of Iowa Street.

SUMMARY OF FEES
 Capital Street Reconstruction Project
 City of Wisconsin Dells

Service	Estimated Fee
Engineering	
<i>Design</i>	\$40,016
<i>Bidding</i>	\$3,620
<i>Construction Administration</i>	\$9,988
<i>Construction Staking</i>	\$5,184
<i>Construction Observation</i>	\$25,568
Total	\$84,376

Other Estimated Costs (invoiced directly to the City)

Item	Estimated Cost
Geotechnical Investigation	\$3,500
Sanitary Sewer and Storm Sewer Televising	\$2,500

City of Wisconsin Dells 2016 Street Improvement Projects
 Capital Street (Ramsay Street to Minnesota Ave.), 37' B-B
 Preliminary Cost Estimate
 09-29-15

ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNITS	UNIT PRICE	TOTAL PRICE
General					
1.	Mobilization, Bonds, Insurance	1	L.S.	\$ 18,000.00	\$ 18,000.00
2.	Traffic Control	1	L.S.	\$ 2,500.00	\$ 2,500.00
3	Inlet Protection, Type C	11	Ea.	\$ 150.00	\$ 1,650.00
4	Stone Tracking Pad	150	C.Y.	\$ 20.00	\$ 3,000.00
5	Rock Excavation	300	C.Y.	\$ 20.00	\$ 6,000.00
6	Concrete Quality Control	1	L.S.	\$ 1,500.00	\$ 1,500.00
Sanitary Sewer					
7	Sanitary Manhole, Type 1	5	Ea.	\$ 3,250.00	\$ 16,250.00
8	8-inch Sanitary Sewer	1,000	L.F.	\$ 58.00	\$ 58,000.00
9	8"x6" wye	23	Ea.	\$ 450.00	\$ 10,350.00
10	6-inch Sanitary Sewer Lateral	850	L.F.	\$ 40.00	\$ 34,000.00
11	Connect to Existing Sanitary Sewer	3	Ea.	\$ 1,500.00	\$ 4,500.00
Sanitary Sewer Subtotal					\$ 123,100.00
Water Main					
12	8-inch Ductile Iron Water Main	1,100	L.F.	\$ 55.00	\$ 60,500.00
13	6-inch Ductile Iron Water Main	60	L.F.	\$ 48.00	\$ 2,880.00
14	8-inch x 8-inch Cross	2	Ea.	\$ 800.00	\$ 1,600.00
15	8-inch x 6-inch Tee	1	Ea.	\$ 650.00	\$ 650.00
16	8-inch Bends	6	Ea.	\$ 450.00	\$ 2,700.00
17	6-inch Bends	2	Ea.	\$ 400.00	\$ 800.00
18	8-inch Valve and Box	5	Ea.	\$ 1,800.00	\$ 9,000.00
19	6-inch Valve and Box	1	Ea.	\$ 1,400.00	\$ 1,400.00
20	Fire Hydrant, Complete	1	Ea.	\$ 3,500.00	\$ 3,500.00
21	1-inch Copper Water Service	850	L.F.	\$ 38.00	\$ 32,300.00
22	1-inch Corporation, Curb Stop, and Box	23	Ea.	\$ 550.00	\$ 12,650.00
23	Connect to Existing Water Main	5	Ea.	\$ 1,500.00	\$ 7,500.00
24	Abandon Existing Water Main	4	Ea.	\$ 750.00	\$ 3,000.00
25	Remove Existing Hydrant and Abandon	1	Ea.	\$ 750.00	\$ 750.00
26	Remove Existing Valve and Box	3	Ea.	\$ 500.00	\$ 1,500.00
27	2-inch Rigid Insulation	320	S.F.	\$ 2.00	\$ 640.00
Water Main Subtotal					\$ 141,370.00
Storm Sewer					
28	Storm Manhole, Type 2	1	Ea.	\$ 3,500.00	\$ 3,500.00
29	Storm Sewer Inlet, Type III	10	Ea.	\$ 1,700.00	\$ 17,000.00
30	12-inch, HDPE Storm Sewer	120	L.F.	\$ 35.00	\$ 4,200.00
31	Connect to Existing Storm Structure	2	Ea.	\$ 500.00	\$ 1,000.00
Storm Sewer Subtotal					\$ 25,700.00
Roadway					
32	Unclassified Excavation	1	L.S.	\$ 15,000.00	\$ 15,000.00
33	Sawcut Existing Asphalt	400	L.F.	\$ 2.00	\$ 800.00
34	Sawcut Existing Concrete	100	L.F.	\$ 4.00	\$ 400.00
35	Remove Existing Asphalt Pavement	3,700	S.Y.	\$ 2.00	\$ 7,400.00
36	Crushed Aggregate Base Course	3,500	TON	\$ 14.00	\$ 49,000.00
37	30-inch Curb and Gutter	2,200	L.F.	\$ 13.00	\$ 28,600.00
38	6-inch Concrete Drive	1,600	S.F.	\$ 5.00	\$ 8,000.00
39	4-inch Concrete Sidewalk	450	S.F.	\$ 4.00	\$ 1,800.00
40	Concrete Stair Replacement	1	L.S.	\$ 1,500.00	\$ 1,500.00
41	3.5-inch Asphaltic Concrete Pavement	4,000	S.Y.	\$ 14.50	\$ 58,000.00
42	2.5-inch Asphalt Driveway	100	S.Y.	\$ 20.00	\$ 2,000.00
43	Adjust Existing Manhole Casting	4	Ea.	\$ 500.00	\$ 2,000.00
44	Turf Restoration	1	L.S.	\$ 6,500.00	\$ 6,500.00
45	Watering	5	Ea.	\$ 750.00	\$ 3,750.00
Roadway Subtotal					\$ 184,750.00
TOTAL: Items #1-#45					\$ 507,570.00
Project Contingencies					\$ 50,757.00
Construction Total					\$ 558,327.00
Engineering and Administration					\$ 83,749.05
Total Estimated Project Costs					\$ 642,076.05

Wisconsin Dells Bike Path Schedule

UPDATED 12/11/15

ITEM 4

	Duration (weeks)	Start Date	Finish Date
Chapter 30 Permit DNR/ACOE Review & Approval			5/31/2013
City Utility Construction Complete			5/30/2013
Project Design Delivery			
Environmental Report reviewed and approved	19.0	4/17/2014	8/25/2014
TRANS 75 exception reviewed and approved			3/28/2014
Design Exception reviewed and approved			3/24/2014
Design Study Report reviewed, revised & approved	13.0	10/24/2014	1/23/2015
Proprietary Item Approval	6.0	1/5/2014	2/16/2014
Easement Agreements	17.0	1/23/2015	5/22/2015
Illinois Ave Walls - Plans & WisDOT Coordination (Rework Walls)	19.0	10/3/2014	2/13/2015
Illinois Ave Structures - BOS Retaining Walls Prelim Review	2.0	3/6/2015	3/20/2015
Illinois Ave Structures - Revisions, Final BOS Review & Approval	17.0	3/20/2015	7/15/2015
Construction			
Path design and PS&E forms prepared	18.5	2/2/2015	6/11/2015
Path PS&E and forms reviewed	2.0	6/11/2015	6/25/2015
River Rd Wall SSR prepared, submitted & BOS Review Meeting	9.5	6/25/2015	8/31/2015
River Rd Wall - Boring and SSR updated & submitted	7.6	8/31/2015	10/23/2015
River Rd Wall: R-11-39 BOS Preliminary Review	1.8	10/23/2015	11/4/2015
River Rd Wall: R-11-39 Final Plans updated & submitted	5.0	11/4/2015	12/9/2015
River Rd Wall: R-11-39 Final BOS Review	3.0	12/9/2015	12/30/2015
PS&E and forms revised & submitted	5.0	8/31/2015	10/6/2015
PS&E and forms reviewed	3.9	10/9/2015	11/5/2015
PS&E, R-11-39 Plans and forms revised	5.1	11/5/2015	12/11/2015
PS&E and forms reviewed, revised & approved	3.0	12/11/2015	12/31/2015
Federal construction funding authorization	3.4	1/4/2016	1/25/2016
Contract Letting			
Request to Advertise approved	1.0	1/25/2016	2/1/2016
Lead time to place ads	0.5	2/1/2016	2/5/2016
Ad period and bids opened	3.0	2/5/2016	2/26/2016
Bids reviewed	1.0	2/26/2016	3/4/2016
DBE paperwork submitted by apparent low bidder	0.2	3/4/2016	3/5/2016
DBE paperwork reviewed and approved (Good Faith)	1.5	3/5/2016	3/15/2016
Request to Award reviewed and approved	2.0	3/15/2016	3/29/2016
Notice to proceed issued	0.2	3/29/2016	3/30/2016
River Road Construction	8.0	4/4/2016	5/27/2016
River Road Closure	5.0	4/18/2016	5/20/2016
Illinois Avenue Construction	20.0	3/7/2016	7/22/2016
Overall Construction		3/7/2016	7/22/2016

Original

Wisconsin Dells - Lake Delton Sewerage Commission
Wastewater Sludge Dryer Project - Funding Scenarios
7/29/2013

Note: Assumes all capital costs are funded through the Wisconsin DNR Clean Water Fund Loan Program

	Scenario 1		Scenario 2	
	WI DNR Clean Water Fund Loan without Principal Forgiveness loan terms: 20 years @ 2.625%		WI DNR Clean Water Fund Loan with Principal Forgiveness loan terms: 20 years @ 2.625%	
	Wisconsin Dells	Lake Delton	Wisconsin Dells	Lake Delton
Total Estimated Project Cost, including contingencies	\$5,675,000		\$5,675,000	
Capital Cost Split	30%	70%	30%	70%
	\$1,702,500	\$3,972,500	\$1,702,500	\$3,972,500
Principal Forgiveness	\$0	\$0	\$500,000	\$500,000
Amount Financed	\$1,702,500	\$3,972,500	\$1,202,500	\$3,472,500
Annual Debt Service, including 110% Debt Coverage	\$120,958	\$282,234	\$85,434	\$246,711
Estimated Increase in Annual Operation & Maintenance Cost	\$161,000		\$161,000	
O&M Cost Split	35%	65%	35%	65%
Estimated Increase in Annual Sewer Utility Operation & Maintenance Cost	\$56,350	\$104,650	\$56,350	\$104,650
Total Estimated Additional Annual Revenue Required	\$177,308	\$386,884	\$141,784	\$351,361
Est. No. of Residential Equivalent Units (REUs)	4,114	11,154	4,114	11,154
Estimated Increase in Annual Cost per Ave. Residential User	\$43	\$35	\$34	\$32
Estimated Increase in Monthly Cost per Ave. Residential User	\$3.59	\$2.89	\$2.87	\$2.69
Current Average Annual Residential Sewer Charge	\$301	\$146	\$301	\$146
Last Sewer Rate Increase	Feb. 2010	Jan. 1994	Feb. 2010	Jan. 1994
Estimated New Annual Cost per Ave. Residential User	\$344	\$181	\$335	\$178
% Increase	14.3%	23.8%	11.4%	21.6%
Statewide Average Residential Sewer Charge (for populations 2001 to 5000)	\$402		\$402	

Wisconsin Dells - Lake Delton Sewerage Commission
Wastewater Sludge Dryer Project - Funding Scenarios

7/29/2013
2014

Revised

Note: Assumes all capital costs are funded through the Wisconsin DNR Clean Water Fund Loan Program
Assumed split of capital cost:

	Wis. Dells = 50%		Lake Delton = 50%	
	Scenario 1			
	WI DNR Clean Water Fund Loan without Principal Forgiveness loan terms: 20 years @ 2.625%			
	Wisconsin Dells	Lake Delton	Wisconsin Dells	Lake Delton
Total Estimated Project Cost, including contingencies	\$5,675,000			
Capital Cost Split	50%	50%	50%	50%
	\$2,837,500	\$2,837,500	\$2,837,500	\$2,837,500
Principal Forgiveness	\$0	\$0	\$500,000	\$500,000
Amount Financed	\$2,837,500	\$2,837,500	\$2,337,500	\$2,337,500
Annual Debt Service, including 110% Debt Coverage	\$201,596	\$201,596	\$166,073	\$166,073
Estimated Increase in Annual Operation & Maintenance Cost	\$161,000			
O&M Cost Split	35%	65%	35%	65%
Estimated Increase in Annual Sewer Utility Operation & Maintenance Cost	\$56,350	\$104,650	\$56,350	\$104,650
Total Estimated Additional Annual Revenue Required	\$257,946	\$306,246	\$222,423	\$270,723
Est. No. of Residential Equivalent Units (REUs)	4,114	11,154	4,114	11,154
Estimated Increase in Annual Cost per Ave. Residential User	\$63	\$27	\$54	\$24
Estimated Increase in Monthly Cost per Ave. Residential User	\$5.22	\$2.29	\$4.51	\$2.02
Current Average Annual Residential Sewer Charge	\$301	\$146	\$301	\$146
Last Sewer Rate Increase	Feb. 2010	Jan. 1994	Feb. 2010	Jan. 1994
Estimated New Annual Cost per Ave. Residential User	\$364	\$173	\$355	\$170
% Increase	20.8%	18.8%	18.0%	16.6%
Statewide Average Residential Sewer Charge (for populations 2001 to 5000)	\$402			

Wis. Dells - with principal forgiveness		Lake Delton - with principal forgiveness	
	0.0244 annual CWF interest rate		0.0244 annual CWF interest rate
r=	0.012200 annual CWF interest rate	r=	0.012200 annual CWF interest rate
n=	40	n=	40
Cost \$	7,292,380	Cost \$	7,292,380
Share \$	2,187,714 30%	Share \$	5,104,666 70%
PF \$	328,157 principal forgiveness	PF \$	650,000 principal forgiveness
P=	\$1,859,557 amount financed	P=	\$4,454,666 amount financed
	\$118,057.32 annual debt service cost		\$282,812 annual debt service cost
	\$129,863 annual cost with 10% Reserve		\$311,094 annual cost with 10% Reserve

\$ 92,978 annual principal
 \$ 25,079 annual interest
\$ 118,057 annual principal + interest
 \$ 11,806 110% debt coverage
 \$ 129,863 annual cost of debt
 \$ 51,100 est. annual O&M increase, incl. replacement fund (?)
\$ 180,963 est. add't annual revenue required

\$ 906,500 2014 budgeted revenue
 20.0% projected rate increase required

\$ 887,000 2013 revenue
 20.4% projected rate increase required

\$ 930,000 2012 revenue
 19.5% projected rate increase required

2014 Sewer Utility Expenses

\$ 686,769 O&M
 \$ 415,000 Depreciation
 \$ 55,783 Interest expense
 \$ 208,875 Principal payment
\$ 1,366,427 Total 2014 expense

2014 Sewer Utility Revenue

\$ 1,133,939 Total 2014 revenue

Revenue minus Expense

\$ (232,488) including depreciation expense
 \$ 182,512 not including depreciation expense
 44% portion of depreciation expense funded

**BIOSOLIDS DRYING SYSTEM
PRE-BID PROJECT COST ESTIMATE
WISCONSIN DELLS - LAKE DELTON WWTF**

*MSA Professional Services, Inc.
November 2015*

Item	Estimated Capital Cost
Modifications to Existing Sludge Cake Conveyor	\$30,000
Sludge Cake Conveyor to Storage Bins	\$25,000
Therma-Flite Dryer System Equipment Package	\$2,495,000
Installation of Dryer System Equipment	\$225,000
Transfer & Bulk Bag Filling Conveyors (2)	\$80,000
Bulk Bag Filling Stations (5)	\$137,000
Dust Collector & Fan System	\$54,000
Truck Loading Conveyor	\$45,000
Nitrogen Gas Feed System	\$9,000
Air Compressor System	\$25,000
Solids Handling Gates	\$35,000
Cake Bin Odor Scrubber System	\$35,000
Condensate Return Pumps	\$29,000
Condensate Return Wet Well & Valve Vault System	\$53,000
Dust Collection Ductwork System	\$23,000
Well Water System, Piping, and Pressure Tank	\$157,000
Process Piping & Process Air Ductwork	\$179,000
Dryer Building Concrete Floor & Equipment Foundations	\$164,000
Modifications to Proposed Sludge Dryer Building *	\$690,000
Modifications to Proposed Sludge Storage Building	\$185,000
Dryer Building Plumbing Modifications	\$48,000
Dryer Building Ventilation Modifications	\$249,000
Storage Building Ventilation Modifications	\$55,000
Miscellaneous Metals	\$60,000
Painting	\$50,000
Electrical	\$420,000
Site Work	\$35,000
Natural Gas Service to the Site	\$30,000
General Conditions, Bonds, Insurance, Overhead & Profit (11.5%)	\$647,000
Subtotal	\$6,269,000
Contingencies (5%)	\$313,500
Total Estimated Construction Cost	\$6,582,500
 Direct Purchase Equipment (2016-17)	
Stored Sludge Loading Conveyor	\$20,800
Sludge Cake Loading Belt Conveyor (Westfield brand)	\$24,300
Dried Sludge Hauling & Application Vehicles	
Truck (IH 4900 6 x 4)	\$112,300
Overhead Discharge Tender (Ray-Man 16 ft Charger II-FB)	\$41,700
Pull-Type Spreader (Chandler 45 PTT-FT-EXW - 418 cu ft)	\$90,300
Pull-Type 2-wheel Bulk Box Wagons, 3 ea. (E-Z Trail 392 cu ft)	\$34,700
Forklift Truck, used (minimum 5000# load & 103-inch lift)	\$46,300
Dryer System Laboratory Testing Equipment	\$13,900
Bulk Bag Storage Containers & Pallets	\$20,800
Subtotal	\$405,100
Contingencies (5%)	\$20,300
Total Estimated Direct Purchase Equipment Cost	\$425,400
 Engineering, Construction Observation and Administration	 \$454,000
 Total Estimated Project Cost	 \$7,461,900

*800,000
with
then*

5.68 million

*300,000
with*

Chris Tollaksen

From: Lysne, Nichole - DOT [Nichole.Lysne@dot.wi.gov]
Sent: Thursday, December 10, 2015 4:43 PM
To: Chris Tollaksen
Subject: letter and request for schedule.
Attachments: Letter10December2015.pdf

Dear Chris:

Hope all is well with you. Attached is a scan of a letter that went out in the mail today.

The City has a temporary permit for the connection of Woodside Way to WIS 13. This permit expires on December 31, 2016. We will extend the temporary permit if needed to ensure that the city can move forward with design and construction of the improved intersection. Please provide an updated schedule for design and construction of the intersection by close of business on January 15, 2016, so that we may extend the duration of the temporary permit.

Sincerely,
Nichole Lysne
WisDOT North Central Region Planning and Programming Supervisor
715.421.8040



Division of Transportation
System Development
North Central Region
1681 Second Avenue South
Wisconsin Rapids, WI 54495

Scott Walker, Governor
Mark Gottlieb, P.E., Secretary
Internet: www.dot.wisconsin.gov

Telephone: 715-421-8301
Facsimile (FAX): 715-423-0334

E-mail: ncr.dtsd@dot.wi.gov

December 10, 2015

CHRIS TOLLAKSON
WISCONSIN DELLS CITY PLANNER/ZONING ADMINISTRATOR
300 LACROSSE STREET
WISCONSIN DELLS WI 53965

RE: Wisconsin Dells Athletic Complex TIA and ICE analysis

Dear Mr. Tollakson:

As a follow up to our December 1 phone conversation, I am providing more information regarding the access for the Wisconsin Dells Athletic Complex to WIS 13 via Woodside Way.

In March of 2014, we received the Intersection Control Evaluation (ICE) from your consultant. An ICE is required for new or reconfigured public road intersections with state highways. The purpose of the ICE is to evaluate the potential intersection configurations. The ICE for WIS 13 access to the Wisconsin Dells Athletic Complex evaluated three alternatives; traffic signals, roundabout, and sidestreet stop control.

As part of the ICE, a traffic signal warrants analysis is conducted. Traffic signal warrants are a set of guidelines that compare traffic volumes on mainline and side roads to determine if signalization is an efficient, viable alternative.

- If no warrants, or no combinations of key warrants are met, WisDOT typically does not allow the installation of a traffic signal on the state highway system.
- If an intersection does meet warrants, it does not require that a signal necessarily be installed.
- Per WisDOT signal design standards, signals will only be considered when warrant 3 (peak hour warrant) is met in combination with another warrant.

The ICE found that the proposed intersection only meets the warrant for peak hour (warrant 3) and does not meet any other warrants. Without meeting multiple warrants, there is not enough of an overall system benefit to install signals, because signals would interfere with the free movement of WIS 13 mainline through traffic.

Even though traffic signal warrants were not met, the consultant recommended installation of a roundabout if the intersection was not signalized. Per our design guidance, we would not consider roundabout a viable alternative because the intersection does not meet the criteria for a traffic signal.

Our position is that enhanced sidestreet stop control intersection, with dedicated turn lanes and additional geometric features, will provide the solution that best balances the needs of the WIS 13 corridor with the needs of the traffic on Woodside Way.

The original TIA acceptance letter referenced a requirement to provide law enforcement traffic control during high-volume traffic events at the sports complex. With the city's construction of the enhanced side street stop control intersection, this requirement could be waived based on the traffic volumes provided in the TIA and ICE.

We look forward to continuing to work with you on this project. If you have any additional questions regarding traffic warrants or the ICE, please feel free to contact Rich Handrick at 715-365-5716.

Sincerely,

A handwritten signature in black ink, appearing to read "Nichole Lysne".

Nichole Lysne, P.E.
NC Region Planning and Programming Supervisor

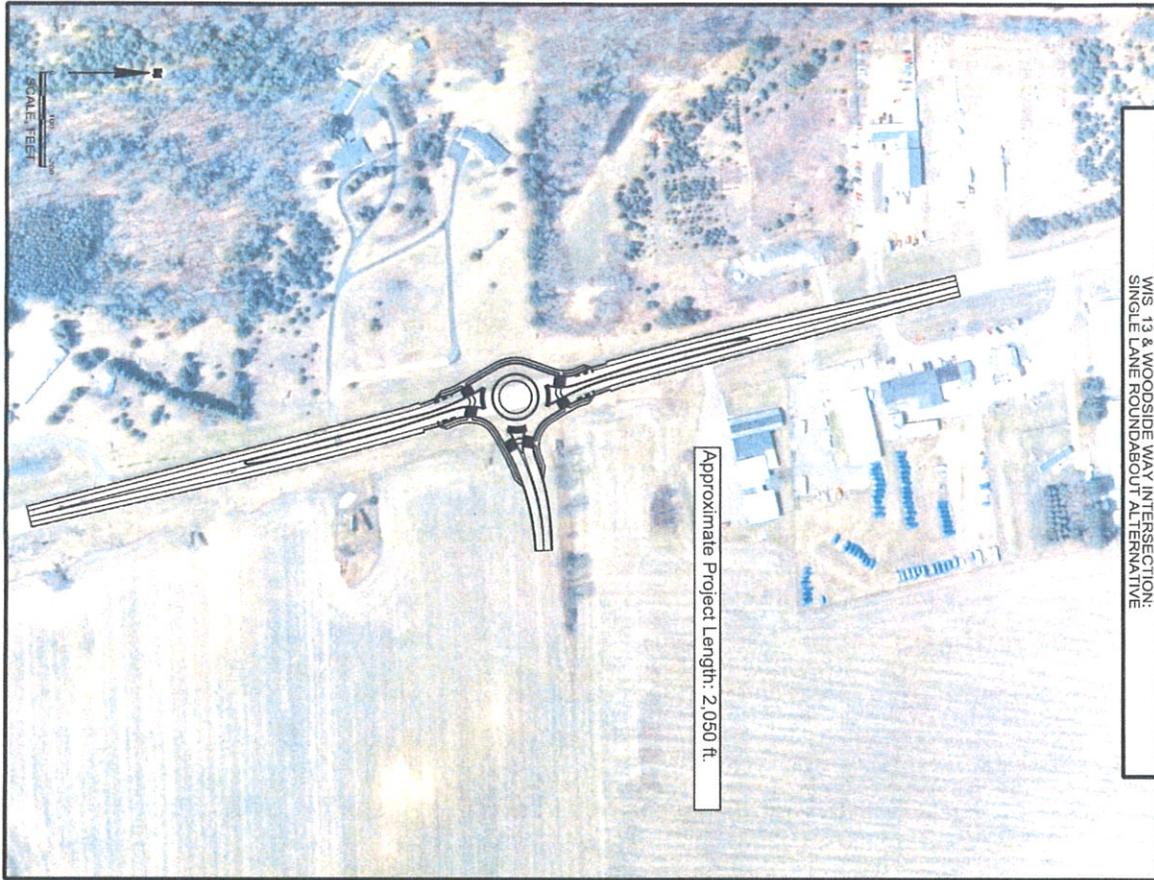
CC: Wisconsin Dells Mayor Brian Landers



Construction Cost Estimate - WIS 13				
Additional Alternative 1 - Painted Medians				
Item	Approx. Quantity	Unit	Unit Price	Total Price
Removing Asphaltic Surface Milling	4,325	SY	\$5.00	\$21,625.00
HMA Pavement Type E-3	3,174	TON	\$56.00	\$177,747.94
Asphaltic Material PG58-28	175	TON	\$151.00	\$26,360.65
Tack Coat	639	GAL	\$5.30	\$3,387.73
Base Aggregate Dense 1 1/4-Inch	7,650	TON	\$14.00	\$107,094.94
Concrete Curb & Gutter	765	LF	\$13.00	\$9,945.00
Pavement Markings	5,210	LF	\$1.45	\$7,554.36
Signing	1	LS	\$2,500.00	\$2,500.00
Traffic Control	1	LS	\$100,000.00	\$100,000.00
Landscaping	1	LS	\$5,000.00	\$5,000.00
Excavation	2,765	CY	\$10.90	\$30,134.08
Sub Total of Major Items				\$491,349.70
Contingency	1	LS	35%	\$171,972.39
Estimated Construction Cost				\$663,322.09

Approximate Project Length: 1,600 ft.

NOTE: This is a construction cost estimate only.
 For this alternative, it was assumed that the existing northbound and southbound travel lanes will be replaced by milling and asphalt overlay.
 Contingency items may include removing surfaces, storm sewer, erosion control, mobilization, saw cutting, and driveway connectivity.



Construction Cost Estimate - WIS 13				
Alternative 3 - Single Lane Roundabout				
Item	Approx. Quantity	Unit	Unit Price	Total Price
HMA Pavement Type E-3	3,959	TON	\$56.00	\$221,720.26
Asphaltic Material PG58-28	218	TON	\$151.00	\$32,881.91
Tack Coat	601	GAL	\$5.30	\$3,187.66
Base Aggregate Dense 1 1/4-Inch	12,854	TON	\$14.00	\$179,956.56
Concrete Curb & Gutter	3,992	LF	\$14.00	\$55,888.00
Colored Concrete Truck Apron 8-Inch	344	SY	\$120.00	\$41,280.00
Concrete Sidewalk 5-Inch	20,365	SF	\$4.00	\$81,460.00
Pavement Markings	2,966	LF	\$1.45	\$4,301.31
Signing	1	LS	\$30,000.00	\$30,000.00
Traffic Control	1	LS	\$150,000.00	\$150,000.00
Landscaping	1	LS	\$10,000.00	\$10,000.00
Street Lighting	1	LS	\$50,000.00	\$50,000.00
Excavation	5,890	CY	\$10.90	\$64,201.00
Sub Total of Major Items				\$924,870.68
Contingency	1	LS	35%	\$323,704.74
Estimated Construction Cost				\$1,248,575.42

Approximate Project Length: 2,050 ft.

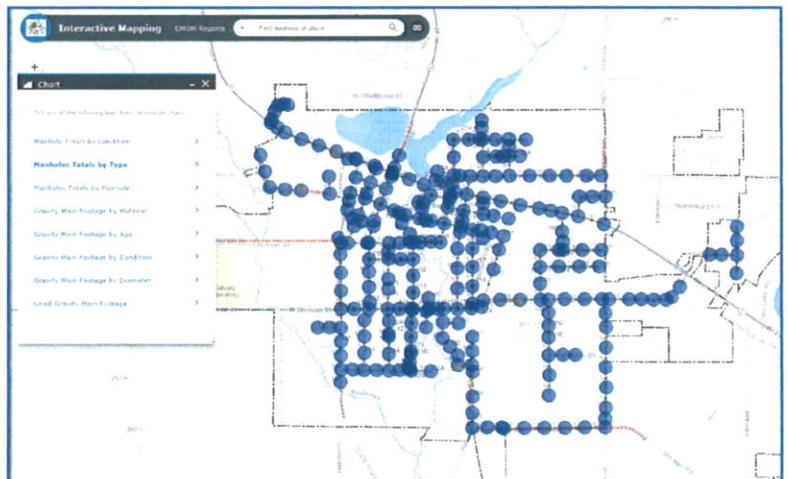
NOTE: This is a construction cost estimate only. Contingency items may include removing surfaces, storm sewer, erosion control, mobilization, saw cutting, and driveway connectivity.

Phase 1 - Sanitary Sewer GPS, GIS Map and Application

1. GPS Inventory of municipally owned Sanitary Manholes, Clean outs and Lift Stations
 - a. Estimated approximately 600 locations
 - b. Data will include horizontal X/Y coordinates and elevations relative to surface of feature surveyed collected with survey grade GPS
2. Create Sanitary GIS map
 - a. Develop GIS database for City Sanitary sewer system
 - i. Convert GPS to layers for manholes, clean outs and Lift Stations to GIS layers.
 - ii. GIS database schema will use GIS utility industry standards for attributes, otherwise known as the Local Government Information Model
 - iii. Includes attributes sizing, materials, types, ownership, last change dates, lining status. MSA will add attribute to track last sewer Televised date.
 - b. Use 2002 City Cad for reference and main diameters and connections where applicable
 - c. Use City provided plat and record drawing data for areas annexed since last cad map update.
 - d. MSA will populate attributes from the layer LGIM schema from information listed above
3. Plot large format system maps
4. Update City GIS web application to new Java Application & ArcGIS Online system
 - a. Set-up ArcGIS Online system for up to 5 City users
 - b. Updated GIS will function on PC or tablet and smart phones
 - c. Convert current water system data layers to GIS format & configure pop-ups and searches in new app for Water
 - d. Add Sanitary Sewer Collection system to GIS system
 - i. Customize system for information Pop-ups and layer toggles
 - e. Develop mobile applications for manhole maintenance
 - f. Develop mobile applications for hydrant and valve maintenance
5. Create CMOM compliance app to support maintenance and system details*
 - a. App will provide statistics for the following:
 - i. Manhole by Condition
 - ii. Manholes by Type (Standard, LS, Drop etc)
 - iii. Manholes with open pick holes
 - iv. Gravity Main Footage by Material, Age, Diameter, and Footage
 - v. Pressure Mains by Footage

*MSA will include CMOM information into application as part of project

Estimated Sanitary Sewer GIS costs \$14,000



Wisconsin Dells Sanitary & Stormwater GIS Development Scope

Phase 2 - Storm Water GPS and GIS Database Development

1. GPS Inventory of municipally owned Storm Manholes, catch basins and area drains
 - a. Estimated approximately 500 locations
 - b. Data will include horizontal X/Y coordinate values and elevations relative to surface of feature surveyed collected with survey grade GPS
2. Create Sanitary GIS map
 - a. Develop GIS database for City Sanitary sewer system
 - i. Convert GPS to layers for manholes, catch basins and drains to GIS layers.
 - ii. GIS database schema will use GIS utility industry standards for attributes, otherwise known as the Local Government Information Model
 - iii. Includes attributes sizing, materials, types, ownership, last change dates
 - b. Use 2002 City Cad for reference and main diameters and connections where applicable
 - c. Use City provided plat and record drawing data for areas annexed since last cad map update.
 - d. MSA will populate attributes from the layer LGIM schema from information listed above
3. Plot large format system maps
4. Update City GIS web application to new Java Application
 - a. Updated GIS will function on PC or tablet and smart phones
 - b. Add Stormwater Collection system to GIS system
 - i. Customize system for information Pop-ups and layer toggles
 - ii. Provide Client Training on site 1-day

Estimated Storm water GIS Development Costs \$11,750

Phase 3 – Electrical GIS Asset System

MSA discussed accuracy and content of the existing electrical mapping with Forester. Tom Anen, City Electrical Supervisor was contacted to discuss the system content needs, totals and the vision of how a GIS could assist the Utility.

Findings : The Forester map is not “coordinate correct” and thus does not support a direct conversion to GIS. The map does not contain pole data. The City has 730 street lights, 750 transformers and a “guesstimated” 700 power poles. There is overlap between these structures in location but information is still collected. The Utility does not deploy a tag or painted ID system on structures.

Approach Options

- A) GPS Electrical Structures, build GIS layers and system in an accurate fashion to allow EU staff to use mobile GIS applications for inspections, service calls & outages. This is called the “Turn GPS Key Option.” This is the recommendation to allow the Utility the ability to recognize efficiency gains with GIS and mobile applications over current work processes.

Wisconsin Dells Sanitary & Stormwater GIS Development Scope

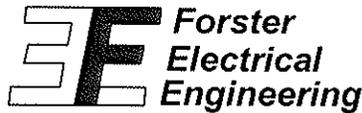
- B) Digitize Forester map elements for City aerial photography into GIS format. Build Electrical empty GIS layers and use GIS apps on tablets for City Electrical staff to inspect and collect data using tablets (1-4 meters accuracy) over time. As information is collected it they will create the structures layers over the course of a year and update map internally through GIS system. This is called the “Digitize-App Option” and will spread costs out over longer term but the Utility staff will need to expend more effort to collect information and will see a fast payback on the project. There is always a concern with this type of project about maintaining a sustained data collection effort to completion.

Turn Key – GPS Option 1

- GPS inventory approximately 2200 poles, lights, transformers, switches with GPS
 - Convert Forester Electrical System map to map conductors.
 - Provide redlines for correction and plot final maps
 - Develop mobile GIS apps to support pole, transformer and other necessary inspections.
 - Train staff on application usage.
- \$16,500

Digitize – App Collection Option 2

- Convert Forester Electrical System map to map conductors.
 - Develop mobile GIS apps to support pole, transformer and other necessary inspections.
 - Train staff on application usage and data collection with devices.
- \$10,000



550 N. Burr Oak Ave
Oregon, WI 53575
(608) 835-9009
(608) 835-9039 fax

"Excellence in electrical distribution design since 1981"

November 11th, 2015

Wisconsin Dells Public Works, Water & Light Utility
Director of Public Works
David Holzem
P.O. Box 655
300 LaCrosse St.
Wis. Dells, WI. 53965

Subject: Electrical GIS Mapping

Dear Mr. Holzem:

Thank you for the opportunity to submit our proposal to create a Graphic Information System (GIS) Map for your Electric Department.

The creation of a complete GIS map can consume considerable resources and time. I propose to create an Electric GIS map using a staged approach which spreads out your investment over a length of time that meets your needs and budget. I propose the first stage to include capturing existing AutoCAD map data as well as construction "As-Built" data to create a functional map with a complete 600 Amp feeder circuit model. During a second stage, we can identify areas in the system where GPS locations can be gathered to develop the map further. The second stage may include efforts to define standard assembly units which maximize the efficiency of data collection. A third stage is an ideal time to make use of the completed map in order to generate reports and take advantage of other benefits of a centrally located system map.

Our approach will be to draw upon Forster's 12 years of history with Wisconsin Dells Water & Light by capturing information from projects designed in-house by Forster, as well as using existing AutoCAD-based maps. We can display Feeder Circuits, system switching devices, equipment IDs, conductor sizes, transformer information and more.

Developing an accurate map, with Feeder Circuit connectivity from source to load, will be helpful for day-to-day operations as well as Engineering analysis and planning. I have found that focusing on bringing in as much data as possible is a more effective use of resources compared to starting an electrical map by obtaining GPS locations of all equipment.

I propose to create the Electrical GIS Map, Stage 1, for \$20,000. A functional GIS map can be completed and deployed within 3 months of starting the project.

For the best accuracy of an estimate for data collection, during stage 2, I can provide and estimate at the completion of stage 1. I can provide an estimate, or we can set goals set based on a budget and timeline that works best for you.

Costs for stage 3 will be minimal and can be performed as you see fit on a time and materials basis.

Our experience and capabilities to perform the required work

Creating an Electric GIS map is typical work that we have performed for other municipal electric utilities in Wisconsin. We have created or maintained GIS maps using various mapping systems, including ESRI's ArcMap software.

Volume of present workload

Our present workload will not interfere with giving our full attention to your project.

Project budget

Billing intervals and progress can be coordinated monthly to fall within your budget constraints.

Deliverables

The Electrical GIS map will be provided to MSA for a seamless integration with existing GIS.

Our goal is to provide Wisconsin Dells Water & Light Utility with the Electrical GIS map as a valuable basepoint for maintenance and operations by the utility.

I would appreciate the opportunity to work with you on this project. Forster Electrical Engineering's history with Wisconsin Dells Water & Light Utility provides a close relationship and understanding of the distribution facilities that will allow us to deliver a better product than our competition.

If you have any questions, please call.

Sincerely,

FORSTER ELECTRICAL ENGINEERING, INC.


Shawn Powell

SP/py

Water Infrastructure

Broadway Corridor



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