

COST ESTIMATE

2015 HOURLY BILLING RATES AND EXPENSE ITEMS FOR PROFESSIONAL SERVICES

EMPLOYEE CLASSIFICATION	HOURLY BILLING RATES
Principal	\$180
Senior Engineer III to IV	\$150 to \$170
Senior Engineer I to II	\$125 to \$140
Engineer III to IV	\$115 to \$125
Engineer II	\$90
Engineer I	\$80
Engineering Technician III to V	\$110 to \$140
Engineering Technician I to II	\$70 to \$110
Senior Geologist	\$135
CAD / GIS / Survey Technician III to IV	\$110 to \$150
CAD / GIS / Survey Technician I to II	\$85 to \$100
Clerical II	\$85 to \$125
Clerical I	\$70
Support Manager	\$160

Hourly rates for Resident Project Representatives do not include any overtime. In the event that the contractor works more than eight(8) hours on any weekday or works any time on Saturdays, or holidays, during which time Resident Project Representatives are required to be present, hourly rates are increased by one-and-a-half times for more than eight(8) hours on any weekday and all time on Saturdays, and are increased by two(2) times on Sundays and holidays.

The Engineer may adjust the hourly billing rate and out-of-pocket expenses on or about January 1 of each subsequent year and will send the new schedule to the Owner.

Hourly Billing Rates include direct labor and indirect overhead expenses, readiness to serve, and profit, and are for 8 hours/day and 40 hours/week regularly scheduled work hours.

Personal-owned vehicle Mileage Charges will be reimbursed at the rate set by the U.S. Internal Revenue Service.

Company-owned/leased vehicle usage will be reimbursed at a rate of \$65.00 per diem or \$32.50 per half diem.

Savannah Rain Logger usage is \$10/day.

Traffic Counters \$50/day.

Miovision Traffic System usage will be reimbursed at a rate of \$600.00 per diem and \$24.00 per hour processing.

Sub-consultant costs will be reimbursed at their invoice costs plus 15%

A Short Term Annual Summary Report

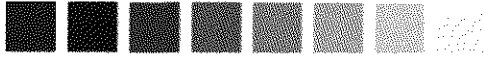
Project Management	\$	200.00
Sewer System Workshop	\$	800.00
Data Review	\$	800.00
Sanitary Sewer Description and Inventory Form	\$	800.00
Drainage Basin Map	\$	500.00
High Risk Sewer Exhibit	\$	500.00
Condition Assessment Form	\$	800.00
Progress Meeting	\$	800.00
Submit Draft Forms	\$	100.00
Revise and Finalize Submittal	\$	300.00

TOTAL FEE ESTIMATE	\$	5,600.00
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Cost Schedule

We have prepared a not-to-exceed cost schedule for Task A as shown below. The total fee is \$28,565. The included direct costs are for mileage, printing and postage.

Task	Description	Project Manager Wickenkamp \$175	Senior Civil Engineer Lach \$150	Civil Engineer V Thorholm \$135	Civil Engineer IV Olson \$125	Field Services Manager Husnik \$95	Public Outreach Doohaluk \$95	GIS Kleinjan \$125	GIS Spittlemeister \$90	Total Hours	Labor	Direct Costs	Totals
A	Sewer Condition Assessment and Annual Summary Report												
	Kick Off Meeting	4	4		4					12	\$ 1,800	\$ 50	\$ 1,850
	Review Data	8	12	12	24			1	8	65	\$ 8,665		\$ 8,665
	Prepare Sanitary Sewer System Description and Inventory Form	1	1		8				4	14	\$ 1,685		\$ 1,685
	Prepare Sewer Basin Map	1	2		12				16	31	\$ 3,415		\$ 3,415
	Identify High Risk Sanitary Sewer and Create Map	2	2	4	16	2		1	16	43	\$ 4,945		\$ 4,945
	Prepare Condition Assessment Prioritization Form	1	1		8					10	\$ 1,325		\$ 1,325
	Prepare 2015 Annual Summary Report	4	8	4	32		2			50	\$ 6,630	\$ 50	\$ 6,680
	Task Totals:	21	30	20	104	2	2	2	44	225	\$ 28,465	\$ 100	\$ 28,565



E. COST SCHEDULE

As requested, the attached spreadsheet shows our not-to-exceed amount for the completion of services listed in Task Item A (\$12,900). Also included in this Section are 2015 hourly rate schedules for our team members that can be used for facilitating Scope of Services Items B through F in the Village's SOQ.

Please note that these are 2015 rate schedules and are subject to change. Typically, Horner & Shifrin adjusts hourly billing rates each year in January or February.

UNIT		Total Cost	
Mileage	256		
Computer Use Reimbursement (MP and ENGR)	6		
Travel	..		
Reproduction & Photocopy:	..		
Subconsultants:	..		
Miscellaneous:	..		
SubTOTAL DIRECT EXPENSES:			
MARK UP PERCENTAGE:			
TOTAL ESTIMATED DIRECT EXPENSES:			
TOTAL ESTIMATED NOT-TO-EXCEED COST:			\$12,500.00

HORNER SHIFRIN

Billing Rates

Name	Category	Rate	Description
<u>ADMINISTRATION</u>			
Siegfried, Duane L.	AP1	\$225	Professional 1
Davis, Vanessa C.	AT1	\$95	Clerical 1
Buerk, Patti J.	AT4	\$64	Clerical 3
Myers, Megan R.	AT6	\$42	Clerical 6
<u>BUILDING SERVICES</u>			
Heideman, Brian D.	BP1	\$186	Associate Vice President - Building Services
Buehler, Joseph A.	BP3	\$169	Senior Project Manager - Building Services
Tuckett, Robert B.	BP4	\$145	Senior Project Manager - Building Services
Wilson, Casey	BP8	\$120	Project Manager - Building Services
Frisch, John C.	BP8	\$120	Project Manager - Building Services
King, Cynthia M.	BT2	\$86	Senior Designer - Building Services
Rapisardo, Joseph C.	BT2	\$86	Senior Designer - Building Services
Birt, Douglas	BT2	\$86	Senior Designer - Building Services
Dickerman, Jeremiah A.	BT3	\$81	Designer - Building Services
Wanko, Gregory J.	BT5	\$68	Designer - Building Services
<u>CONSTRUCTION ADMINISTRATION</u>			
Hayes, Kelly L.	CP1	\$111	Department Manager - Construction Administration
Erdman, Allan A.	CP3	\$85	Project Engineer - Construction Administration
Leist, John	CP4	\$77	Construction Observer
<u>ENVIRONMENTAL ENGINEERING</u>			
McCleish, James E.	EP1	\$200	Vice President - Environmental Engineering
Summers, Robert C.	EP2	\$169	Associate Vice President - Environmental Engineering
Campbell, Dennis L.	EP4	\$153	Senior Project Manager - Environmental Engineering
Rovak, Gene L.	EP4	\$153	Senior Project Manager - Environmental Engineering
Cavender, David P.	EP4	\$153	Senior Project Manager - Environmental Engineering
Fennwald, Lisa E.	EP6	\$135	Project Manager - Environmental Engineering
Sewing, Jr., Gilbert E.	EP6	\$135	Project Manager - Environmental Engineering
Randolph, Stephen	EP7	\$127	Assistant Department Manager - Environmental Engineering
Frederich, Karen S.	EP7	\$127	Project Manager - Environmental Engineering
Todd, Richard E.	EP7	\$127	Project Manager - Environmental Engineering
Hess, Andrew D.	EP9	\$116	Project Manager - Environmental Engineering
Hoskins, Kim A.	EP10	\$104	Project Engineer - Environmental Engineering
Todd, Shannon	EP10	\$104	Design Engineer - Environmental Engineering
Straszacker, Timothy J.	EP11	\$81	Design Engineer - Environmental Engineering
Burgelin, John P.	EP11	\$81	Design Engineer-Environmental Engineering
Fitzgerald, Spencer J.	EP12	\$72	Engineer-Environmental Engineering
Visintine, Brian D.	ET1	\$95	Professional Designer - Environmental Engineering
Morin, Kyle J.	ET4	\$58	CAD Technician - Environmental Engineering
Morris, Matt	ET5	\$47	CAD Technician - Environmental Engineering
<u>GENERAL STAFF</u>			
Cherry, Glen T.	GP1	\$174	Manager - General Staff
Augustine, Laura A.	GP2	\$95	Assistant Manager - General Staff
Dickerson, Courtney R.	GT4	\$58	Coordinator
Stahlhuth, Tyler	IT5	\$50	IT - Help Desk
<u>GIS/IT SYSTEMS</u>			
Stahlhuth, Jeffrey S.	IP1	\$174	Associate Vice President - GIS / IT /Survey
Gilmore, John D.	IP2	\$96	Senior GIS/IT Professional
Schreiber, Andrew P.	IT3	\$77	GIS Analyst
Lawrence, Zachary E.	IT4	\$65	GIS Analyst
Lee, Brittany	IT4	\$65	GIS Analyst
Stahlhuth, Tyler	IT5	\$50	IT - Help Desk

HORNER SHIFRIN

Billing Rates

STRUCTURAL ENGINEERING			
Banashek, Michael A.	SP1	\$200	Vice President - Structural Engineering
Skibiski, Kevin C.	SP3	\$153	Associate Vice President - Structural Engineering
Bane, Jeffrey L.	SP4	\$146	Senior Project Manager - Structural Engineering
Lohman, Thomas J.	SP5	\$128	Senior Project Manager - Structural Engineering
Lagemann, Eric M.	SP5	\$128	Project Manager - Structural Engineering
Lubiewski, Michael	SP8	\$108	Project Manager - Structural Engineering
Derner, Jonathan J.	SP8	\$108	Senior Project Engineer - Structural Engineering
Chorkey, Martin A.	SP10	\$89	Design Engineer - Structural Engineering
Klues, Kyle A.	SP10	\$89	Design Engineer - Structural Engineering
Wright, Carrie B.	SP10	\$89	Design Engineer - Structural Engineering
Friederich, Timothy S.	SP12	\$77	Engineer - Structural Engineering
Vandre, Joseph	SP12	\$77	Engineer - Structural Engineering
Hill, Timothy M.	ST1	\$89	Professional Designer - Structural Engineering
Buettner, Christine A.	ST4	\$71	Senior CAD Technician - Structural Engineering
TRANSPORTATION ENGINEERING			
Bernardez, Genovevo E.B.	TP1	\$200	Vice President - Transportation Engineering
Donahue, Steven R.	TP1	\$200	Vice President - Transportation Engineering
Jasper, Jarrett D.	TP3	\$174	Associate Vice President - Transportation Engineering
Brestal, Brooks K.	TP4	\$167	Engineering Manager - Transportation Engineering
Ashrafzadeh, Ramin D.	TP5	\$141	Senior Project Manager - Transportation Engineering
Klein, John E.	TP6	\$116	Project Manager - Transportation Engineering
Riechmann, Bradley E.	TP6	\$116	Project Manager - Transportation Engineering
Schmidt, Brian D.	TP6	\$116	Project Manager - Transportation Engineering
Harrison, Aaron M.	TP7	\$107	Senior Project Engineer - Transportation Engineering
Bleser, Stephanie	TP8	\$104	Senior Project Engineer - Transportation Engineering
Jordan, Brady S.	TP8	\$104	Senior Project Engineer - Transportation Engineering
Riechmann, David R.	TP9	\$94	Senior Project Engineer - Transportation Engineering
Pettibone, Jordan E.	TP11	\$84	Project Engineer - Transportation Engineering
Whiteside, Gary A.	TP12	\$72	Engineer - Transportation Engineering
Loos, Jonathan R.	TP12	\$72	Engineer - Transportation Engineering
Atagana, Jervis A.	TP12	\$72	Engineer - Transportation Engineering
Jacquot, Bridgett	TES2	\$136	Environmental Scientist - Transportation Engineering
Auer, John J.	TT1	\$108	Professional Designer - Transportation Engineering
Bailey, Jonathan N.	TT2	\$79	Designer - Transportation Engineering
Hooker, Steven R.	TT3	\$66	Designer - Transportation Engineering
Surveying			
Pitts, Ken	SU2	\$105	Licensed Land Surveyor, Department Manager
Ellsworth, Jack D.	SU3	\$85	Licensed Land Surveyor
Bowling, Rachel S.	SU4	\$75	Survey Instrument Technician
Moore, Bryce	SU4	\$75	Survey Instrument Technician



Metro Strategies 2015 Rate Sheet

2015 Hourly Rates

Seema Wadia, Director	\$109.14
Elli Cosky, Project Manager	\$99.48
Andrea Barnish, Creative Director	\$135.00

Excluded Expenses:

1. Printing: printing and copying costs for outreach materials. These can only be determined after an approved outreach plan is in place.
2. Postage: postage expenses for notification mailings. These can only be determined after an approved outreach plan is in place.

MID-AMERICA

PIPE SERVICES

A DIVISION OF **DAVID MASON & ASSOCIATES**

CHICAGO, ILLINOIS • ST. LOUIS, MISSOURI
314.534.6205 • 312.884.5777

800 S. Vandeventer
St. Louis, MO 63110
Ph: 314-534-1030
FX: 314-534-1053

October 2, 2015

Horner & Shifrin, Inc.

Re: Sewer Service Rates

David Mason & Associates, Inc. is pleased to submit for your consideration our quote to furnish sewer maintenance and inspection services at the below rates.

	2016 ST RATE \$/ HOUR	2016 OT RATE \$ / HOUR	OVERTIME
UTILITY SERVICES UNION TRADES (subject to change per Union Wages)			
UL2 Union Labor	115.00	172.50	1.5
UO2 Union Operator	120.00	180	1.5
US2 Union Supervisor/Foreman	125.00	187.5	1.5
PERSONNEL:			
Project Manager	95.25	142.87	1.5
Quality Control Professional (QAQC)	66.36	99.54	1.5
Safety Professional	92.50	138.75	1.5
EQUIPMENT:			
Pickup Truck	18.00	18.00	1.00
CCTV Truck	75.00	75.00	1.00
Lateral Televising Truck	80.00	80.00	1.00
Jetter	85.50	85.50	1.00
Combo Cleaner	104.00	104.00	1.00
Air Compressor	15.60	15.60	1.00
Easement Machine	15.00	15.00	1.00
Water Truck	26.00	26.00	1.00

David Mason & Associates, Inc. thanks you for this opportunity to submit our Sewer Service Rates. If you require clarification or have any questions please do not hesitate in contacting us at 314-534-1030.

Sincerely,

DAVID MASON & ASSOCIATES, INC



Proposed Costs

Proposed Unit Costs for Sanitary Sewer Investigations

For the following items, Consultant shall provide lump sum price based on their proposed project approach described in detail in the proposal. Lump sum prices below are for comparison only. Final contract price and scope of work will be negotiated with selected consultant.

Task 1: Plan Development

The initial flow monitoring plan will be created with input from the Village. This will include a map showing the locations of the monitoring catchments. An example of the locational map is included in Appendix A. The plan will include the time of monitoring, the duration of monitoring, and the locations to be monitored.

Task 2: Flow Monitoring

Using the combined expertise of the HR Green/ADS team, our recommended approach is to first complete a comprehensive flow monitoring evaluation of the entire collection system followed by a focused, detailed evaluation of individual sub-catchments that exhibit the worst I&I symptoms. The information that we obtain from a comprehensive flow monitoring evaluation will be evaluated using our proven approach to quantify the I&I present in the individual sub-catchments, allowing us to prioritize areas with the greatest potential for reductions. Using this approach, detail evaluations including smoke testing, manhole inspections and building inspections will be recommended for the areas that offer the greatest potential for return on investment of rehabilitation dollars. Flow monitoring is the most critical aspect of the entire system evaluation program.

We have assumed 36 flow monitors will be required. The exact number and locations of the flow monitors will be finalized in consultation with Village staff. The duration of the monitoring is estimated at 3 months. Cost shall include all field work and office work including preparation of a flow monitoring report. The flow monitoring costs would be \$7,000 per monitoring location for a 3-month monitoring period. The flow monitoring costs for a 3 month monitoring period would be - **\$252,000**

As requested in the Request for Qualifications, the fee to complete Task A listed under "Scope of Services" for the collection system would amount to as follows:

- | | |
|---|---------------------------------------|
| 1. Sewer System Description, Maps and Exhibits; | \$ 27,600.00(Lump Sum) |
| 2. Flow Monitoring (36 flow monitors): | <u>\$ 252,000.00(Lump Sum)</u> |



HR GREEN & ADS RATES

Billing rate schedule and reimbursable expenses for out of scope items that are not included in the lump sum project costs.

Effective January 1, 2015 HR Green Professional Services	Billing Rate Range
Principal	\$185 - \$260
Senior Professional	\$150 - \$210
Professional	\$110 - \$170
Junior Professional	\$80 - \$125
Senior Technician	\$80 - \$120
Technician	\$50 - \$95
Senior Field Personnel	\$100 - \$160
Field Personnel	\$70 - \$115
Junior Field Personnel	\$50 - \$90
Administrative Coordinator	\$35 - \$110
Administrative	\$40 - \$90
Corporate Admin	\$55 - \$100
ADS Rates	
Manhole Inspections: 2 Options	
A: Full decent – confined space entry	\$140 per manhole
B: Camera/remote collection	\$100 per manhole
Smoke Testing: 2 Man crew, GPS all defects, high density smoke/blowers (professional grade equipment)	\$ 0.65 per L.F.
CCTV	\$ 2.50 per L.F.

Reimbursable Expenses

1. All materials and supplies used in the performance of work on this project will be billed at cost plus 10%.
2. Auto mileage will be reimbursed per the standard mileage reimbursement rate established by the Internal Revenue Service. Survey and construction vehicle mileage will be reimbursed based on \$0.85 per mile or \$65.00 per day.
3. Charges for sub-consultants will be billed at their invoice cost plus 15%.
4. All other direct expenses will be invoiced at cost plus 10%.

COST PROPOSAL

RJN is pleased to offer the Village of Orland Park the following not-to-exceed cost for the completion of Item A in the RFQ and outlined in our detailed scope of in Section 2 of this Statement of Qualifications and Proposal. All costs are based on the hourly rate schedule provided below. The proposed Scope of Services will be invoiced on a time and materials basis with not-to-exceed cost of \$9,530.

RATE SCHEDULE

Our standard rate schedule is provided below, and will be valid for contracts signed through December 31, 2015:

Classification	Hourly Rate	Hours
Project Director	\$185	2
Senior Project Manager	\$165	12
Project Manager	\$155	0
Senior Project/Resident Engineer	\$130	4
Project/Resident Engineer	\$115	22
Engineer Intern	\$90	22
GIS Specialist	\$85	18
Field Manager	\$80	4
Field Technician	\$70	0
Clerical/Administrative	\$65	3

Project Fee

Our Experience and Understanding of Project-Specific Needs Adds Value and Efficiency

It is our understanding the Village is requesting a fee for the scope items associated with the development of the Village's SSCA. As such, we have developed our proposed fees based **only on the SSCA scope presented in the *Project Approach*** and the man-hour rates and expenses for the employees presented in the *Project Team* section. In summary, the scope items are as follows:

- Request all relevant existing data.
- Hold project kickoff meeting.
- Conduct interviews and collect historical data.
- Develop and distribute a citizen questionnaire.
- Identify priority areas.
- Conduct field investigations in the priority areas.
- Summarize findings in a draft report and develop a sewer rehabilitation plan.
- Present findings to the Village Board (optional).

Our experience and understanding gives us the ability to estimate hours for each task and compile the overall project fee proposal. Our proposed fee is detailed below.

Task	Proposal Fee
Project Administration	\$5,800
Request All Relevant Existing Data	\$3,300
Conduct Interviews and Collect Data	\$2,700
Develop and Distribute Citizen Questionnaire	\$5,900
Identify Priority Areas	\$2,300
Conduct Field Investigations in the Priority Areas	\$72,300
Summarize Findings in a Draft Report and Develop a Sewer Rehabilitation Plan	\$16,600
Total Fee	\$108,900
Present Findings to the Village Board (Optional)	\$2,800

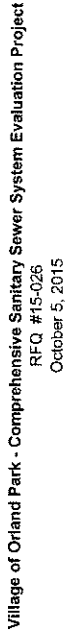
It is important to note that the actual scope of the project is currently unknown as the priority areas that need field investigations have not yet been established. As such, the following assumptions were made in determining the fee for field investigations:

- It was assumed 10 percent of the Village's manholes will need to be assessed. According to the RFQ, the Village has 7,000 manholes. Therefore, it was assumed that 700 manhole assessments will be completed.
- It was assumed 10 percent of the Village's sewers will need to be smoke tested, which equates to approximately 140,000 feet.
- Finally, it was assumed that half of the sewers that are smoke tested will then be televised. As such, we assumed having to review approximately 70,000 feet of sewer televising.

Fees for services provided are based on actual time spent and in accordance with the following standard fee schedule, which is revised each July 1. The rates shown are applicable through June 2016. Expenses incurred on a project are billed at actual cost, plus 10 percent to cover processing costs.

Staff Classification	Hourly Billing Rates
Principal Engineer	\$234 to \$414
Senior Project Manager	\$156 to \$214
Project Managers	\$82 to \$154
Project Engineers and Scientists	\$80 to \$99
Engineering Technicians and Draftspersons	\$34 to \$122
Office Production	\$82 Average

We have reviewed the Village's General Specifications for RFQ #15-026. Upon receiving Notice to Proceed, we would like to discuss and negotiate acceptable terms and conditions of the General Specifications prior to final contract award.

Professional Services Total \$16,930.00



V3 COMPANIES **2015 BILLING RATE RANGES**

Employee Classification	Wage Rate Range	x 2.80 Multiplier
Principal	\$68.85 - \$70.00	\$192.78 - \$196.00
Division Director	\$58.71 - \$70.00	\$164.39 - \$196.00
Senior Project Manager	\$46.47 - \$70.00	\$130.12 - \$196.00
Senior Estimator	\$44.80 - \$46.43	\$125.44 - \$130.00
Senior Project Engineer	\$42.56 - \$60.00	\$119.17 - \$168.00
Project Manager	\$32.79 - \$46.35	\$91.81 - \$129.78
Project Engineer I/II	\$27.28 - \$48.45	\$76.38 - \$129.78
Project Surveyor	\$26.76 - \$30.79	\$74.93 - \$86.21
Scientist III	\$30.64 - \$30.64	\$85.79 - \$85.79
Engineer III	\$32.25 - \$34.10	\$90.30 - \$95.48
Technician III	\$30.50 - \$40.00	\$85.40 - \$112.00
Engineer I/II	\$27.00 - \$31.23	\$75.60 - \$87.44
Scientist I/II	\$21.50 - \$26.54	\$60.20 - \$74.31
Technician I/II	\$11.00 - \$24.40	\$30.80 - \$68.32
Field Ecologist	\$16.10 - \$21.60	\$45.08 - \$60.48
Survey Crew (2 person)	\$56.52 - \$65.00	\$158.26 - \$182.00
Administration	\$10.25 - \$47.92	\$28.70 - \$134.18