## PRELIMINARY SUBMITTAL

# **OPINION OF PROBABLE CONSTRUCTION COST**

SCADA REMODEL 119 E OLIN AVE 3235300-131021.04

FEBRUARY 17, 2016

Submitted to:

MADISON WATER UTILITY 119 E. OLIN AVE MADISON, WI

Prepared by:



MEAD & HUNT, INC. 6501 WATTS ROAD MADISON, WISCONSIN 53719 (608)-273-6380 M & H Project Number: 3235300-131021.04

## **COST ESTIMATE EXECUTIVE SUMMARY**

SUBMITTAL STAGE: PRELIMINARY SUBMITTAL

BASE: 119 E OLIN AVE

PROJECT NUMBER: 3235300-131021.04

TITLE: SCADA REMODEL

ASSUMED BID OPENING DATE April 8, 2016

INITIAL PROJECT BUDGET 3/10/15 \$97,440

90% OF THE PROJECT BUDGET \$87,696

TOTAL ESTIMATE\* \$91,050

<sup>\*</sup> Construction contingency, permits, procurement costs, fees, and other additional costs are not included unless specifically listed under SEPARATE CONTRACT COSTS.

Client: Madison Water Utility Address: 119 E. Olin Ave. City: Madison Date: February 15, 2016

Project Name: SCADA Remodel
Project Number: 3235300-131021.04
Estimator: Mead & Hunt, Inc.
M & H Project Number: 3235300-131021.04

SUMMARY - BUILDING NAME

	UNIT C				
DESCRIPTION	BASE COST	GC SUB MARK-UP	TOTAL COST		
Division 1 - General Requirements	\$24,000	1.000	\$24,000		
Division 2 - Existing Conditions	\$5,000	1.050	\$5,000		
Division 7 - Thermal/Roofing	\$1,000	1.050	\$1,050		
Division 8 - Openings	\$12,000	1.050	\$13,000		
Division 9 - Finishes	\$1,000	1.050	\$1,000		
Division 22 - Plumbing	\$3,000	1.050	\$3,000		
Division 23 - Mechanical	\$35,000	1.050	\$37,000		
Division 26 - Electrical	\$5,000	1.050	\$5,000		
Division 27 - Communications	\$2,000	1.050	\$2,000		
Estimated Base Bid Construction Cost			\$91,050		
1.			\$0		
2.			\$0 ***		
3. 4.			\$0 \$0		
т.			\$0 \$0		
			\$0		
Total Base Bid and ABI's or Bid Options			\$91,050		

Project Name: SCADA Remodel Client: Madison Water Utility Project Number: 3235300-131021.04 Address: 119 E. Olin Ave.

City: Madison Estimator: M & H Project Number: 3235300-131021.04 Date: February 15, 2016

### **GENERAL CONSTRUCTION COSTS - BUILDING NAME** Total Cost **UNIT COST** TOTAL COST CSI **DESCRIPTION** UNITS QTY Mat'l / Mat'l / With Labor Labor Total Equip. Equip. **Multipliers Division 1 - General Requirements** \$12,000 L.S L.S \$0 \$12,000 \$12,000 \$18,473 General Conditions \$0 Permits, City of Madison Procedures 1 \$2,000 \$2,000 \$2,000 \$2,000 \$4,000 \$5,378 Subtotal \$12,000 \$23,850 Division 7 - Thermal/Roofing Roof Patching SF 80 \$2.44 \$2.40 \$195 \$192 \$387 \$520 \$0 \$387 \$0 \$0 \$520 Subtotal Division 8 - Openings \$4,720 Custom HM Frame/Sidelites/Transom \$54.00 \$5,582 80 \$5.00 \$4,320 \$400 \$350 \$1,540 \$1,398 \$56 \$216 \$438 EΑ \$230.00 \$55.50 \$230 \$286 Wood Door 1 \$1,266 \$1,068 EΑ \$1,050.00 \$216.00 \$1,050 Hardware 1 \$9.00 \$3.74 \$6.25 \$5.85 SF 70 Glazing Solar Window Film \$1,918 SF \$1,170 \$2,661 200 \$748 \$0 \$9,257 \$11,530 Subtotal Division 9 - Finishes ACT Ceiling/Drywall Patching Touch-up Paint, Brush SF SF \$2.00 \$244 100 \$200 \$358 \$0.44 \$44 \$47 \$270 \$240 \$14 100 \$0.14 \$0.47 \$61 \$88 \$270.00 Paint HM Frame EΑ \$16 \$286 \$16.00 \$434 SF \$372 Vapor Barrier Paint, Roller 600 \$0.22 \$521 \$0.40 \$132 \$0 \$719 \$0 \$0 \$1,044 Subtotal \$17,228 \$345 Sub-Total "A" \$24,485 \$9,379 DESIGN CONTINGENCY 2.00 % \$188 \$532 \$25,017 \$9,567 \$17,573 Sub-Total "B" MATERIAL INDEX MULTIPLIER \$9,567 \$17,573 \$9,567 1.00 LABOR INDEX MULTIPLIER \$17,573 1.00 -\$351 \$17,221 -2.00 % -\$543 JOB CONDITIONS MULTIPLIER -\$191

5.00 %

Labor (%)

Labor (%)

Mat'l (%) 10.00

44.00

10.00

\$9,375 \$469

\$938

\$10,782

\$1,722

\$26,521

\$26,597 \$469

\$7,577 \$2,660

\$37,302

\$37,123

Sub-Total "C"

SALES TAX

OVERHEAD

**PROFIT** 

**TOTAL** 

Client: Madison Water Utility Address: 119 E. Olin Ave. City: Madison

Project Name: SCADA Remodel
Project Number: 3235300-131021.04
Estimator:
M & H Project Number: 3235300-131021.04

	February 15, 2016			M & H Proje	ect Number:	3235300-13	1021.04		
EXISTING CONDITIONS COSTS - BUILDING NAME UNIT COST TOTAL COST T									Total Cost
CSI	DESCRIPTION	UNITS	QTY	Mat'l / Equip.	Labor	Mat'l / Equip.	OTAL COST Labor	Total	Total Cost With Multipliers
				Equip.		<b>5</b> 0	\$0	\$0	\$0
02 41 19	Selective Demolition/Cutting-Patching					\$0	\$0	\$0	\$0
	Minor interior modification, including dispo	SF/flr	350	\$2.65	\$5.00	\$0 \$928	\$0 \$1,750	\$0 \$2,678	\$0 \$3,760
	Millor Interior modification, including dispo	036 01/111	330	Ψ2.00	ψ5.00	\$0	\$0	<del>ψ2,070</del> \$0	\$0,700
	Coring to Exterior	SF	10	\$2.65	\$50.00	\$27	\$500	\$527	\$800
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	Sub-Total "A"					\$954	\$2,250	\$3,204	Ψ
	DESIGN CONTINGENCY	ESIGN CONTINGENCY 2.00 %							
	Sub-Total "B"  MATERIAL INDEX MULTIPLIER			1.00		\$973	\$2,295	\$3,268	
	LABOR INDEX MULTIPLIER			1.00		\$973 	\$2,295	\$973 \$2,295	
	JOB CONDITIONS MULTIPLIER			-2.00	%	-\$19	-\$46	-\$65	
	Sub-Total "C"					\$954	\$2,249	\$3,203	
	SALES TAX			5.00	% 44.00	\$48		\$48	
					44 00		\$990	\$990	
	OVERHEAD Mat'l (%	%) 10.00		Labor (%) Labor (%)	10.00	\$95	\$225	\$320	

Project Name: SCADA Remodel
Project Number: 3235300-131021.04
Estimator: Client: Madison Water Utility Address: 119 E. Olin Ave. City: Madison Date: February 15, 2016

M & H Project Number: 3235300-131021.04

PLUMBING COSTS - BUILDING NAME

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PLUMBING COSTS - BUILDING NAME UNIT COST TOTAL COST Total									
CSI	DESCRIPTION	UNITS	QTY	Mat'l / Equip.	Labor	Mat'l / Equip.	Labor	Total	Total Cos With Multipliers
				Equip.		\$0	\$0	\$0	\$
	LIEBERT unit Condensate Conne	ctions LS	1	\$158.00	\$700.00	\$158	\$700	\$858	\$1,23
	Piping, Aboveground	FT	50	\$7.35	\$11.20	\$368	\$560	\$928	\$1,26
						\$0	\$0	\$0	\$
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	Sub-Total "A"							φ.,,,οο	
	Sub-Total "A" DESIGN CONTINGENCY			2.00	%	\$11	\$25	\$36	
	DESIGN CONTINGENCY Sub-Total "B"					\$11 \$536		\$36 \$1,821	
	DESIGN CONTINGENCY Sub-Total "B" MATERIAL INDEX MULTIPLIER			1.00			\$1,285 	\$1,821 \$536	
	DESIGN CONTINGENCY Sub-Total "B" MATERIAL INDEX MULTIPLIER LABOR INDEX MULTIPLIER			1.00		\$536 \$536	\$1,285  \$1,285	\$1,821 \$536 \$1,285	
	DESIGN CONTINGENCY Sub-Total "B" MATERIAL INDEX MULTIPLIER LABOR INDEX MULTIPLIER JOB CONDITIONS MULTIPLIER			1.00		\$536 \$536  -\$11	\$1,285  \$1,285 -\$26	\$1,821 \$536 \$1,285 -\$36	
	DESIGN CONTINGENCY Sub-Total "B" MATERIAL INDEX MULTIPLIER LABOR INDEX MULTIPLIER JOB CONDITIONS MULTIPLIER Sub-Total "C"			1.00 1.00 -2.00	%	\$536 \$536  -\$11 \$525	\$1,285  \$1,285 -\$26 \$1,259	\$1,821 \$536 \$1,285 -\$36 \$1,785	
	DESIGN CONTINGENCY Sub-Total "B" MATERIAL INDEX MULTIPLIER LABOR INDEX MULTIPLIER JOB CONDITIONS MULTIPLIER Sub-Total "C" SALES TAX			1.00 1.00 -2.00	%	\$536 \$536  -\$11 \$525 \$26	\$1,285  \$1,285 -\$26 \$1,259	\$1,821 \$536 \$1,285 -\$36 \$1,785 \$26	
	DESIGN CONTINGENCY Sub-Total "B" MATERIAL INDEX MULTIPLIER LABOR INDEX MULTIPLIER JOB CONDITIONS MULTIPLIER Sub-Total "C"	Mat'l (%) 10.0		1.00 1.00 -2.00	%	\$536 \$536  -\$11 \$525	\$1,285  \$1,285 -\$26 \$1,259  \$515	\$1,821 \$536 \$1,285 -\$36 \$1,785	

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Project Number: 3235300-131021.04
Estimator:

M & H Project Number: 3235300-131021.04

MECHANICAL COSTS - BUILDING NAME

MECHANICAL COSTS - BUILDING NAME UNIT COST TOTAL COST TOTAL									
CSI	DESCRIPTION	UNITS	QTY	Mat'l /	Labor	Mat'l /	TOTAL COST  Labor Total		Total Cost With
				Equip.		Equip.			Multipliers
000100	LIEDEDT LINIT O Demosts Occidences O C	-4		<b>#10 F00 00</b>	<b>#4 750 00</b>	\$0	\$0	\$0	\$05.05
238123	LIEBERT UNIT & Remote Condensor - 2 T	EA LDC	1	\$19,500.00		\$19,500	\$1,750	\$21,250	
	Ductwork	LBS	200	\$0.66	\$3.25 \$1.75	\$132	\$650	\$782	\$1,13
	Insulation Grilles, Registers, Diffusers	SF EA	100	\$0.33 \$125.00		\$33 \$375	\$175 \$105	\$208 \$480	\$30 \$58
	Piping	LF	3 120	\$123.00	\$3.75	\$1,542	\$450	\$1,992	\$2,45
	Pipe Insulation	LF	120	\$1.77	\$2.25	\$1,54 <u>2</u> \$212	\$270	\$482	\$65
	Balancing	HRS	8	\$0.00	\$200.00	φ <u>ετε</u> \$0	\$1,600	\$1,600	
	DDC Controls	EA	1	\$800.00		\$800	\$1,200	\$2,000	\$2,730
	BBG Controls			Ψ000.00	ψ1,200.00	\$0	\$0	<del>Ψ2,000</del> \$0	
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	Sub-Total "A"			0.00	0/	\$22,594	\$6,200	\$28,794	
	DESIGN CONTINGENCY			2.00	%	\$452	\$124	\$576	
	Sub-Total "B"			1.00		\$23,046	\$6,324	\$29,370	
	MATERIAL INDEX MULTIPLIER			1.00		\$23,046		\$23,046	
	LABOR INDEX MULTIPLIER			1.00			\$6,324	\$6,324	4
	JOB CONDITIONS MULTIPLIER			-2.00	%	-\$461	-\$126	-\$587	
	Sub-Total "C"				0/	\$22,585	\$6,198	\$28,783	
	SALES TAX			5.00		\$1,129		\$1,129	
	OVERHEAD NA III (0)	, 10.00		Labor (%)	40.90	 #0.050	\$2,535	\$2,535	
	PROFIT Mat'l (%	) 10.00		Labor (%)	10.00	\$2,259	\$620	\$2,878	
	TOTAL					\$25,973	\$9,352	\$35,325	\$35,325

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Project Name: SCADA Remodel
Project Number: 3235300-131021.04
Estimator:

M & H Project Number: 3235300-131021.04

					UNIT COST		TOTAL COST			Total Cost	
CSI	DESCRIPTION	UI	NITS	QTY	Mat'l / Equip.	Labor	Mat'l / Equip.	Labor	Total	With Multipliers	
					_42.6.		<b>\$</b> 0	\$0	\$0	\$0	
	LIEBERT Emergency Power Conne	ection E	Each	1	\$1,100.00	\$2,200.00	\$1,100	\$2,200	\$3,300	\$4,554	
	Outlet/Switch Relocation		Each	2	\$38.94	\$191.25	\$78	\$383	\$460	\$662	
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	Sub-Total "A"						\$1,178	\$2,583	\$3,760		
	DESIGN CONTINGENCY		_		2.00	%	\$24	\$52	\$75		
	Sub-Total "B"						\$1,201	\$2,634	\$3,836		
	MATERIAL INDEX MULTIPLIER				1.00		\$1,201		\$1,201		
	LABOR INDEX MULTIPLIER				1.00			\$2,634	\$2,634		
	JOB CONDITIONS MULTIPLIER				-2.00	%	-\$24	-\$53	-\$77		
							\$1,177	\$2,581	\$3,759		
	Sub-Total "C"							Ψ=,00.			
	Sub-Total "C" SALES TAX				5.00		\$59		\$59		
	Sub-Total "C" SALES TAX OVERHEAD				Labor (%)	39.60	\$59 	 \$1,022	\$59 \$1,022		
	Sub-Total "C" SALES TAX OVERHEAD	Mat'l (%)	10.00				\$59		\$59	\$5,216	

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Project Name: SCADA Remodel
Project Number: 3235300-131021.04
Estimator:

M & H Project Number: 3235300-131021.04

COMMUNICATIONS COSTS	- BUILDING NAME
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		OSTS - BUIL UNIT			OTAL COST	Total Cost			
CSI	DESCRIPTION	UNITS	QTY	Mat'l / Equip.	Labor	Mat'l / Equip.	Labor	Total	With Multipliers
						\$0	\$0	\$0	\$0
	Card Reader, Installation	EA LF	1	\$600.00	\$255.00	\$600	\$255	\$855	\$1,07
	Conduit/Cabling	LF	100	\$0.96	\$3.22	\$96 \$0	\$322 \$0	\$418 \$0	\$592 \$0
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	Sub-Total "A"					\$696	\$577	\$1,273	
	DESIGN CONTINGENCY		· <u></u>	2.00	%	\$14	\$12	\$25	
	Sub-Total "B"					\$710	\$589	\$1,298	
	MATERIAL INDEX MULTIPLIER			1.00		\$710		\$710	
	LABOR INDEX MULTIPLIER			1.00	0/		\$589	\$589	
	JOB CONDITIONS MULTIPLIER Sub-Total "C"			-2.00	70	-\$14	-\$12	-\$26	
	JOUD-TOLAT C			5.00	0/2	\$696 \$35	\$577 	\$1,272 \$35	
	CALECTAY					* 35		35.35	
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	SALES TAX OVERHEAD	Mat'l (%) 10.00		Labor (%)	39.60 10.00	 \$70	\$228 \$58	\$228 \$127	