

409 22nd Ave So. PO Box 298

Madison Water System Improvements PROJECT:

750,000 Gallon Water Tower

Certified By:

Pat Carey, PE Contact two part Carey, PE Contact two part Carey, PE Contact two participants associates com Date: 2020 08.19 15:10:21-05007

22831.00.30

OWNER:

City of Madison

Date:

8-14-2020

Banner Associates, Inc.

ENGINEER: BID DATE:

August 11, 2020 @ 11:00 am

ENGINEER'S ESTIMATE

\$2,500,000 - \$2,700,000

BIDDER			OTHER REQUIREMENTS						
Maguire Iron, Inc.	Ack. Addendum	X	Bid Security - 10% Bid Bond						
P.O. Box 1446	X Add. No. 1	X	Compliance Statement						
Sioux Falls, SD 57101	Tower Style	X	Certificate of Non-Segregrated Facilities						
	Composite	X	Certification Regarding Debarment, Suspension, Ineligibility						
	X Spheroid	X	Certification of Contracts, Grants, & Loans						
	Other	X	Disclosure of Lobbying Activities						
TOTAL LUMP SUM BID PRICE (BASE BID)		BID ALTERNATE 1						
\$2,215,000.00			\$8,000.00						
16,100	square feet of Ex	r Coating Area							
18,050	square feet of Int	erior	Coating Area						
34,150	square feet of TO	TAL	. Coating Area						
742,000	Gallons								

BIDDER		OTHER REQUIREMENTS
Caldwell Tanks, Inc.	Ack. Addendum	X Bid Security - 10% Bid Bond
4000 Tower Road	X Add. No. 1	X Compliance Statement
Louisville, KY 40219	Tower Style	X Certificate of Non-Segregrated Facilities
	X Composite	X Certification Regarding Debarment, Suspension, Ineligibility
	Spheroid	X Certification of Contracts, Grants, & Loans
	Other	X Disclosure of Lobbying Activities
TOTAL LUMP SUM BID PRICE (BASE BID)	BID ALTERNATE 1
\$2,655,000.00		\$12,700.00
11,580 15,900 27,480 750,501	square feet of In	sterior Coating Area terior Coating Area DTAL Coating Area



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	750,000 Gallon Water Tower	Certified By:	
	22831.00.30		
OWNER:	City of Madison	Date :	
ENGINEER:	Banner Associates, Inc.		ENGINEER'S ESTIMATE
BID DATE:	August 11, 2020 @ 11:00 am		\$2,500,000 - \$2,700,000

BIDDER		OTHER REQUIREMENTS
Caldwell Tanks, Inc. 4000 Tower Road Louisville, KY 40219	Ack. Addendum X Add. No. 1 Tower Style Composite	X Bid Security - 10% Bid Bond X Compliance Statement X Certificate of Non-Segregrated Facilities X Certification Regarding Debarment, Suspension, Ineligibility
TOTAL LUMP SUM BID PRICE (\$2,815,000.00	X Spheroid Other BASE BID)	X Certification Regarding Debarment, Suspension, Intelligibility X Certification of Contracts, Grants, & Loans X Disclosure of Lobbying Activities BID ALTERNATE 1 \$12,700.00
17,300 19,800 37,100 750,000	square feet of Inf	cterior Coating Area derior Coating Area DTAL Coating Area

	BIDDER			OTHER REQUIREMENTS						
Phoenix Fabricat	ors & Erectors, LLC	Ack. Addendum	Х	Bid Security - 10% Bid Bond						
182 South Count	ry Road 900 East	X Add. No. 1	X Compliance Statement							
Avon, IN 46123		Tower Style	X	X Certificate of Non-Segregrated Facilities						
		X Composite	X	Certification Regarding Debarment, Suspension, Ineligibility						
		Spheroid	X	Certification of Contracts, Grants, & Loans						
	Other	X	Disclosure of Lobbying Activities							
T .	TOTAL LUMP SUM BID PRICE (BASE BID)		BID ALTERNATE 1						
	\$2,920,700.00			\$500.00						
,	12,075	square feet of Ex	Exterior Coating Area							
	15,240	square feet of Int	nterior Coating Area							
	27,315	square feet of TO	OTAL Coating Area							
	750,000	Gallons								



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ENGINEER:	Banner Associates, Inc.		ENGINEER'S ESTIMATE
BID DATE:	August 11, 2020 @ 11:00 am		\$2,500,000 - \$2,700,000

BIDDER		OTHER REQUIREMENTS
Phoenix Fabricators & Erectors, LLC 182 South Country Road 900 East Avon, IN 46123	Ack. Addendum X Add. No. 1 Tower Style Composite X Spheroid Other	X Bid Security - 10% Bid Bond X Compliance Statement X Certificate of Non-Segregrated Facilities X Certification Regarding Debarment, Suspension, Ineligibility X Certification of Contracts, Grants, & Loans X Disclosure of Lobbying Activities
TOTAL LUMP SUM BID PRICE (\$2,888,000.00	BASE BID)	BID ALTERNATE 1 \$500.00
16,730 20,310 37,040 750,000	square feet of Int	derior Coating Area terior Coating Area DTAL Coating Area

BIDDER		OTHER REQUIREMENTS
Gerard Tank & Steel, Inc.	Ack. Addendum	X Bid Security - 10% Bid Bond
1540 East 11th Street	X Add. No. 1	X Compliance Statement
Concordia, KS 66901	Tower Style	X Certificate of Non-Segregrated Facilities
	Composite	X Certification Regarding Debarment, Suspension, Ineligibility
	X Spheroid	X Certification of Contracts, Grants, & Loans
	Other	X Disclosure of Lobbying Activities
TOTAL LUMP SUM BID PRICE	(BASE BID)	BID ALTERNATE 1
\$2,225,000.0	00	NO BID
15,45	_	exterior Coating Area*
17,02	grant square feet of In	nterior Coating Area*
32,48	4 square feet of TO	OTAL Coating Area
753,40	0 Gallons	*Quantity adjusted via email on 8/13/2020



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		-	
ENGINEER:	Banner Associates, Inc.		ENGINEER'S ESTIMATE
BID DATE:	August 11, 2020 @ 11:00 am		\$2,500,000 - \$2,700,000

BIDDER		OTHER REQUIREMENTS
Landmark Structures	Ack. Addendum	X Bid Security - 10% Bid Bond
1665 Harmon Road	X Add. No. 1	X Compliance Statement
Fort Worth, TX 76177	Tower Style	X Certificate of Non-Segregrated Facilities
	X Composite	X Certification Regarding Debarment, Suspension, Ineligibility
	Spheroid	X Certification of Contracts, Grants, & Loans
	Other	X Disclosure of Lobbying Activities
TOTAL LUMP SUM BID PRICE (BASE BID)	BID ALTERNATE 1
\$2,833,000.00		\$15,000.00
12,611 14,111 26,722	square feet of Int	cterior Coating Area terior Coating Area DTAL Coating Area
750,000	Gallons	

LIFECYCLE COST ANALYSIS

Bid Opening Time & Date: Tuesday, August 11, 2020 @ 11:00 am

Project Madison Water System Improvements - 750,000 Gallon Water Tower

Madison, South Dakota

BAI#: 22831.00.30

Bid Opening Location: City of Madison

116 West Center Street Madison, South Dakota 57042

Estimated Elevated Tank Life:

Inflation Rate (%)-

2.50

Coatings Schedule

Coatings Life (Years)
Repair* Overcoat Blast & Recoat
30 45
21

Exterior 16 Interior 21

Date: 8-14-2020

lder			M	aguire Iron, Inc.		Cal	dwell Tanks, Inc.		Phoenix Fabricators & Erectors, LLC Gerard Tank & Steel, Inc.					Ca	ldwell Tanks, Inc.		Phoenix Fa	bricators & Erect	ors, LLC	Landmark Structures			
vated Tank Type				Spheroid			Spheroid		Spheroid		roid		Spheroid		Composite			Composite			Composite		
pacity (Gal X1000) atings Areas (s.ft.)				742			750			750			753			751			750			750	
xterior nterior			_	16,100 18,050			17,300 19,800		_	16,730 20,310		_	15,457 17,027			11,580 15,900			12,075 15,240			12,611 14,111	
otal			_	34,150		_	37,100		-	37,040		_	32,484		-	27,480		_	27,315		_	26,722	
atings Maintenance Cost																							
er s.ft.) erior erior			Repair \$4.96	Overcoat E \$10.22	Blast & Repaint \$19.71 \$16.74	Repair \$4.96	Overcoat BI \$10.22	ast & Repaint \$19.71 \$16.74	Repair \$4.96	Overcoat E \$10.22	Blast & Repaint \$19.71 \$16.74	Repair \$4.96	Overcoat E \$10.22	Blast & Repaint \$19.71 \$16.74	Repair \$4.96	Overcoat BI \$10.22	ast & Repaint \$19.71 \$16.74	Repair \$4.96	Overcoat 8 \$10.22	Blast & Repaint \$19.71 \$16.74	Repair \$4.96	Overcoat \$10.22	Blast & Repa \$19 \$16
			Summary of Coati	ngs Maintenance		Ş4. 3 0		\$10.74	Ş4.50		\$10.74	Ş4.90		\$10.74	\$4.50		\$10.74	Ş4.90		\$16.74	\$4.90		\$10
rior		Blast &						T										I					
30 45	Overcoat X	Repaint X		\$345,138	\$964,021		\$370,863	\$1,035,873		\$358,643	\$1,001,743		\$331,354	\$925,520		\$248,242	\$693,377		\$258,853	\$723,016		\$270,344	\$755,
ıl				\$1,309,159			\$1,406,736			\$1,360,387			\$1,256,874			\$941,619			\$981,869			\$1,025,454	
ior																							
r 16	Repair X	Blast & Recoat	\$13,290			\$14,579			\$14,955			\$12,537			\$11,707			\$11,221			\$10,390		
21 37 42	x	x x	\$22,322		\$507,497 \$852,383	\$24,487		\$556,701 \$935,024	\$25,117		\$571,040 \$959,108	\$21,057		\$478,735	\$19,664		\$447,048 \$750,853	\$18,847		\$428,491 \$719,686	\$17,451		\$396,7 \$666,3
al				\$1,395,494			\$1,530,791			\$1,570,220			\$1,316,403			\$1,229,272			\$1,178,245			\$1,090,959	
tings Maintenance \$				\$2,704,653			\$2,937,527			\$2,930,607			\$2,573,277			\$2,170,890			\$2,160,114			\$2,116,413	
			s Maintenance \$ Capital \$_ Total Lifecycle \$	\$2,215,000		s Maintenance \$ Capital \$_ Total Lifecycle \$	\$2,937,527 \$2,815,000 \$5,752,527		Maintenance \$ Capital \$ Total Lifecycle \$	\$2,930,607 \$2,888,000 \$5,818,607		s Maintenance \$ Capital \$ Tatal Liferrals \$	\$2,573,277 \$2,225,000	Со	atings Maintenance \$ Capital \$	\$2,170,890 \$2,655,000	Coating	gs Maintenance \$ Capital \$	\$2,160,114 \$2,920,700		Maintenance \$ Capital \$	\$2,116,413 \$2,833,000	
			Lifecycle \$/ gal.	\$6.630		Lifecycle \$/ gal.	\$5,752,527		Lifecycle \$/ gal.	\$5,818,607		Total Lifecycle \$ Lifecycle \$/ gal.	\$4,798,277 \$6.369		Total Lifecycle \$ Lifecycle \$/ gal.	\$4,825,890 \$6.430		Total Lifecycle \$ Lifecycle \$/ gal.	\$5,080,814 \$6.774		otal Lifecycle \$ Lifecycle \$/ gal.	\$4,949,413 \$6.599	