SULLIVAN REGIONAL AIRPORT ADDENDUM NO. 1 CONSTRUCT 4-UNIT T-HANGAR, 6-UNIT EXECUTIVE T-HANGAR STATE PROJ. NOS. 18-112B-1A, 18-112B-1B



CITY OF SULLIVAN, MISSOURI AND SULLIVAN REGIONAL AIRPORT

RE-BID

ADDENDUM NO. 1

for

STATE PROJECT NO. 18-112B-1A BASE BID NO. 1: CONSTRUCT 4-UNIT T-HANGAR AND 6-UNIT EXECUTIVE T-HANGAR

and

STATE PROJECT NO. 18-112B-1B BASE BID NO. 2: HANGAR TAXILANES SITE WORK BASE BID NO. 2, ALT. 1: PAVE HANGAR TAXILANES (HMA) BASE BID NO. 2, ALT. 2: PAVE HANGAR TAXILANES (PCC) BASE BID NO. 2, ALT 3: PAVE HANGAR ISLANDS (HMA) BASE BID NO. 2, ALT 4: PAVE HANGAR ISLANDS (PCC)

SEPTEMBER 25, 2019

Prepared By:



Crawford, Murphy & Tilly Consulting Engineers St. Louis, Missouri

18041501.00, 100



Addendum No. 1 - Page 1

RE-BID ADDENDUM NO. 1

BASE BID NO. 1: CONSTRUCT 4-UNIT T-HANGAR AND 6-UNIT EXECUTIVE T-HANGAR

and

BASE BID NO. 2: HANGAR TAXILANES SITE WORK BASE BID NO. 2, ALT. 1: PAVE HANGAR TAXILANES (HMA) BASE BID NO. 2, ALT. 2: PAVE HANGAR TAXILANES (PCC) BASE BID NO. 2, ALT 3: PAVE HANGAR ISLANDS (HMA) BASE BID NO. 2, ALT 4: PAVE HANGAR ISLANDS (PCC)

This addendum is herewith a part of the Contract Documents of the above issued project, and is issued to amend and supplement the September 11, 2019 construction plan drawings, proposal, contract documents and specifications.

The CONTRACT DOCUMENTS are revised as follows:

SECTION 3 - GENERAL PROVISIONS:

SECTION 60 - CONTROL OF MATERIALS

CLARIFICATION: The first line of the second paragraph of 60-02 refers to quality assurance testing being made by and at the expense of the Owner, unless otherwise designated. Refer to the individual specifications for acceptance testing that is the Contractor's responsibility. Using this guidance, the Contractor is responsible for acceptance testing of P-152, P-154, P-157 (if used), P-208. The intent is to not cause delay to contractor's operations while waiting on the RPR's QA representative to be called to the site for testing while work could otherwise be progressing. The RPR is still responsible for QA testing for P-403, P-501 and P-610.

SECTION 4 – SUPPLEMENTARY PROVISIONS:

PART D - FEDERAL AND STATE WAGE RATES:

ADD: The new Missouri State Wage rates attached to this addendum.

CLARIFICATION: Annual Wage Order was originally omitted from the project manual. Please consult both the federal and state wage rates when determining proper pay scale for each labor classification.

SECTION 5 - TECHNICAL SPECIFICATIONS:

ITEM P-620 RUNWAY AND TAXIWAY MARKING

ADD: Section 620-2.0 under MATERIALS:

"620-2.0 BUY AMERICAN. All materials used for this work shall meet the requirements of Buy American in accordance with Title 49 U.S.C. Section 50101. A certification statement or waiver request shall be submitted by the supplier for each proposed material."

REVISE: Section 620-2.2.a Waterborne.

ADD: Sentence at end of paragraph: "<u>Algae and mold inhibitors shall be included in the paint</u>." CLARIFICATION: Materials section revised to require an algaecide paint additive due to presence of excessive algae growth on airport pavements and previous pavement markings.

APPENDICES

APPENDIX F: GEOTECHNICAL INFORMATION

ADD: The new appendix attached to this addendum. CLARIFICATION: Pertinent borings information is included in the appendix.

NEW APPENDIX

APPENDIX F

GEOTECHNICAL INFORMATION

(THE FULL GEOTECHNICAL REPORT IS AVAILABLE UPON REQUEST)





SCI ENGINEERING, INC. 47 St. Andrews Drive Union, Missouri 63084 636-584-7991 www.sciengineering.com

BORING LOG LEGEND AND NOMENCLATURE

Depth is in feet below ground surface. Elevation is in feet mean sea level, site datum, or as otherwise noted.

Sample Type

- **SS** Split-spoon sample, disturbed, obtained by driving a 2-inch-O.D. split-spoon sampler (ASTM D 1586).
- NX Diamond core bit, nominal 2-inch-diameter rock sample (ASTM D 2113).
- **ST** Thin-walled (Shelby) tube sample, relatively undisturbed, obtained by pushing a 3-inch-diameter, tube (ASTM D 1587).
- **CS** Continuous sample tube system, relatively undisturbed, obtained by split-barrel sampler in conjunction with auger advancement.
- **SV** Shear vane, field test to determine strength of cohesive soil by pushing or driving a 2-inch-diameter vane, and then shearing by torquing soil in existing and remolded states (ASTM D 2573).
- **BS** Bag sample, disturbed, obtained from cuttings.

Recovery is expressed as a ratio of the length recovered to the total length pushed, driven, cored.

Blows Numbers indicate blows per 6 inches of split-spoon sampler penetration when driven with a 140pound hammer falling freely 30 inches. The number of total blows obtained for the second and third 6-inch increments is the N value (Standard Penetration Test or SPT) in blows per foot (ASTM D 1586). Practical refusal is considered to be 50 or more blows without achieving 6 inches of penetration, and is expressed as a ratio of 50 to actual penetration, e.g., 50/2 (50 blows for 2 inches).

For analysis, the N value is used when obtained by a cathead and rope system. When obtained by an automatic hammer, the N value may be increased by a factor of 1.3.

Vane Shear Strength is expressed as the peak strength (existing state) / the residual strength (remolded state).

Description indicates soil constituents and other classification characteristics (ASTM D 2488) and the Unified Soil Classification (ASTM D 2487). Secondary soil constituents (expressed as a percentage) are described as follows:

Trace	<5
Few	5-15
With	>15-30

Stratigraphic Breaks may be observed or interpreted, and are indicated by a dashed line. Transition between described materials may be gradual.

Laboratory Test Results

- Natural moisture content (ASTM D 2216) in percent.
- Dry density in pounds per cubic foot (pcf).
- Hand penetrometer value of apparently intact cohesive sample in kips per square foot (ksf).
- Unconfined compressive strength (ASTM D 2166) in kips per square foot (ksf).
- Liquid and Plastic Limits (ASTM D 4318) in percent.

RQD (**Rock Quality Designation**) is the ratio between the total length of core segments 4 inches or more in length and the total length of core drilled. RQD (expressed as a percentage) indicates insitu rock quality as follows:

Excellent	90 to 100
Good	75 to 90
Fair	50 to 75
Poor	25 to 50
Very Poor	0 to 25



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					<u>Sullivan, Missouri</u> lidwest Drilling, Inc.	HAMME	R	Auto)			0			
-					T <u>CME-550 w/CFA</u>	-	-			_				9/27/1	
		S	AMPLE					Ġ	L	ABORA	TORY	TEST RE	SULT	S	
DEPTH (ft)	NUMBER	ТҮРЕ	RECOVERY (in/in)	BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATIO	N)	GRAPHIC	SEE REMARK NO.	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
					1" TOPSOIL FILL: Brown and reddish-brown, sandy										- 915
	1	SS	10/18	6 11 14	clay with fine to coarse weathered san gravel, trace fat clay, sand is fine to co	dstone			14		>9.0				-
3 -	2	SS	12/18	8 4 5	FILL: Tan and reddish-brown, clayey s with fine weathered sandstone gravel, medium, clay is fat	and fine to			6						- 912 -
6 -	3	SS	14/18	2 3	LEAN CLAY (CL): Brown, trace fine sa	and			21		4.5		47	27	- - 909
- 9 - -	4	SS	15/18	3 10 7 7	SANDY LEAN CLAY (CL): Brown, with chert and weathered sandstone gravel is fine to coarse	n fine , sand			12		4.0				- - - 906 -
- 12 - -					SANDY FAT CLAY (CH): Reddish-bro fine chert gravel, sand is fine to coarse	wn, with									- 903 -
- 15 - -	5	SS	17/18	8 11 14					11		2.5				- 900
- 18 — -	6	SS	18/18	5 7	Becomes red, trace fine chert gravel				13		3.0				- - 897 -
				13	Boring terminated at 20 feet.		///	1							
WATE	RIF				REMARKS:										
X		NONE	observ Le drill	ED WHILE I _ING AFTER DRII	DRILLING										

ft _____ HRS AFTER DRILLING ft _____ DAYS AFTER DRILLING



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ź	_	7				rilling, Inc.					<u> </u>			0			
						50 w/CFA		ELEVA		914						/27/1	o
		S	AMPLE							Ö.				TEST RE		S	t)
DEPTH (ft)	NUMBER	ТҮРЕ	RECOVERY (in/in)	BLOWS (per 6 in)	(U	DESCRI NIFIED SOIL CL		N)	GRAPHIC		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
					1.5" TOI ר ביד די	PSOIL own, lean clay		′									
_	1	ss	6/18	3 3 7		own, trace reddi	sh-brown, fat c	lay – – –			26		>9.0		89	56	-
3 –				11	FILL: Br	own, lean clay, t				1							- 912
-	2	ss	10/18	11 11 7	chert an	eddish-brown, cla d weathered sar clay is fat	ayey sand with ndstone gravel	, fine , fine to			5						-
6 -	3	SS	10/18	6 9							8		3.0				- 909
_				13													-
9-	4	SS	13/18	4 3 3	LEAN C	LAY (CL): Gray					18		3.5				- 906 -
- 12 -																	- 903
_				5	gray, tra	7 FAT CLAY (CF ce fine to coarse	e sand	own and									_
- 15	5	SS	18/18	6 7							23		7.0				- 900
- - 18 -					and gray	Y SAND (SC): Bi with fine chert and ne gravel, fine to at	and weathered	1									- - - 897
_	6	SS	14/18	18 12 11							7		3.5				_
					Boring to	erminated at 20	feet.										
		NONE	OBSERV LE DRILI HRS	ED WHILE [LING AFTER DRIL 3 AFTER DR	LING	REMARKS: 1) Driller's obser	rvation										



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					T CME-550 w/CFA	ELEVAT	-						9/27/1	
			AMPLE			_			1			TEST RE		
DEPTH (ft)	NUMBER	ТҮРЕ	RECOVERY (in/in)	BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATIO)	GRAPHIC	SEE REMARK NO.			PENETROMETER (ksf)		PLASTICITY 6	ELEVATION (ft)
					9" CRUSHED ROCK									- 915
_	1	SS	5/18	7 8 9	FILL: Brown, lean clay with fine to coa sand, trace crushed rock FILL: Reddish-brown, highly weather			1	7					-
3-	2	ss	15/18	6 4 4	FILL: Brown and reddish-brown, sand and fat clay with fine chert and weather sandstone gravel, sand is fine to coar	ered			8		3.5			- 912 -
6-	~		40/01		FILL: Reddish-brown, sandy fat clay v to coarse chert and weathered sandst gravel, sand is fine to coarse	vith fine				400 (- - 909
-	3	ST	13/24	4	FAT CLAY (CH): Brown, fat clay, trac medium sand	e fine to			23	102.1	0.5			-
9-	4	SS	12/18	4					17		4.0			- 906
- 12 -				10	SANDY FAT CLAY (CH): Reddish-bro tan with fine weathered sandstone gra sand is fine to medium	own and avel,								- - 903
- 15 —	5	SS	17/18	10 16 16					23		>9.0			- - 900
-														-
18 —				10										- 897
-	6	SS	17/18	10 12 14	Dedeuterste to back to				17		4.0			_
WATI					Boring terminated at 20 feet. REMARKS:]
		NONE	OBSERV LE DRILL HRS /	ED WHILE I _ING AFTER DRII S AFTER DR	DRILLING 1) Driller's observation LING 1)									



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			EC	UIPMEN	T <u>CME-550 w/CFA</u> ELE	VATION _	91:	3.8±		: DRILL	.ED	05)/27/1	8
		S	AMPLE				No		LABORA		EST RE	SULT	S	£
DEPTH (ft)	NUMBER	ТҮРЕ	RECOVERY (in/in)	BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
1					5" CRUSHED ROCK		8							_
_	1	SS	7/18	5 6 4	FILL: Reddish-brown and tan, fine to coarse sand with fine weathered sandstone gravel			14				45	24	- 912
3	2	SS	9/18	11 8	FILL: Reddish-brown and tan, fine to coarse sand and fat clay with fine weathered sandstone gravel			5						-
6-				16										- 909 -
_	3	SS	7/18	8 10 6				8						-
- 9 —	4	SS	13/18	3	FILL: Brown and gray, fat clay, trace fine sa			15		4.0				- 906 -
_				3										- - 903
12 —					WEATHERED SANDSTONE: Light brown									_
_					Auger refusal on sandstone at 12.5 feet.									- 900
15 —														-
- 18 —														- 897 - -
														- 894

WATER LEVEL:	REMARKS:
NONE OBSERVED WHILE DRILLING 8.5 ft WHILE DRILLING	1) Driller's observation
ft HRS AFTER DRILLING ft DAYS AFTER DRILLING	



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	\geq				Sullivan, Missouri lidwest Drilling, Inc.	HAMME	P	Aut	0	_	ET JECT N					
4						ELEVAT)/27/1		
			AMPLE								TORY					
·		3						ġ						3	€	
DEPTH (ft)	NUMBER	ТҮРЕ	RECOVERY (in/in)	BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION	-	GRAPHIC	SEE REMARK I	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)	
_				4	FILL: Brown and gray, sandy lean clay fine chert and weathered sandstone gra sand is fine to coarse sand	with avel,									- 909	
- 3-	1	SS	10/18	2 2					10		1.0				_	
-	2	SS		\ <u>50/3"</u> _/	FILL: Reddish-brown, tan and white, cla sand with fine weathered sandstone gra fine to coarse, clay is fat	ayey avel,			11						- 906	
6 —															-	
_	3	SS	14/18	3 2 3	FILL: Gray, sandy lean clay, sand is fin medium				17						- 903	
- 9 -	4	SS		2 3	FAT CLAY (CH): Brown and gray, with sand		\mathcal{I}		20		7.0				-	
-				4	Boring terminated at 10 feet.										- 900	
- 12 -															- 897	
-															-	
15 —															- 894	
- 18 — -															- - 891	
															-	

WATER LEVEL:	REMARKS:
NONE OBSERVED WHILE DRILLING 5.5 ft WHILE DRILLING ft HRS AFTER DRILLING ft DAYS AFTER DRILLING	





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	\square				Sullivan, Missouri			۸			-	1				
	_								0	_		0				
								1	1		DATE DRILLED					
		S	AMPLE					ġ		LABORATORY TEST RESULTS						
DEPTH (ft)	NUMBER	ТҮРЕ	RECOVERY (in/in)	BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION	N)	GRAPHIC	×	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)	
_				4	TITOPSOIL FILL: Brown and gray, lean clay with fa trace fine to coarse sand	 t clay,									-	
-	1	SS	7/18	4 6 8					19		>9.0				-	
3 –				18	FILL: Reddish-brown and tan, clayey sa with fine weathered sandstone gravel, f coarse, clay is fat	and fine to									- 912	
-	2	SS	12/18	14 15					6						-	
6 -				4	FILL: Brown and gray, sandy lean clay	with									- 909	
-	3	SS	8/18	3	fine to coarse chert and weathered san gravel, sand is fine to coarse	idstone			9						-	
- 9 –				10	SILT (ML): Brown and light gray			1							- 906	
-	4	SS	18/18	9 9	LEAN CLAY (CL): Brown and gray, with Boring terminated at 10 feet.	h silt			15		6.5				-	
-					J										-	
12 -															- 903 -	
-															- 900	
15 -															-	
-															-	
18															- 897 -	

WATER LEVEL:	REMARKS:
X NONE OBSERVED WHILE DRILLING ft WHILE DRILLING ft HRS AFTER DRILLING ft DAYS AFTER DRILLING	1) Driller's observation

SULLIVAN REGIONAL AIRPORT ADDENDUM NO. 1 CONSTRUCT 4-UNIT T-HANGAR, 6-UNIT EXECUTIVE T-HANGAR STATE PROJ. NOS. 18-112B-1A, 18-112B-1B

STATE WAGE RATES

Missouri Division of Labor Standards WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

Annual Wage Order No. 26

Section 036 FRANKLIN COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by

Taylor Burks, Director Division of Labor Standards

Filed With Secretary of State:

March 8, 2019

Last Date Objections May Be Filed: April 8, 2019

Prepared by Missouri Department of Labor and Industrial Relations

Building Construction Rates for FRANKLIN County

Section 036

		Basic
OCCUPATIONAL TITLE	** Date of	Hourly
	Increase	Rates
Asbestos Worker	intereduce	\$38.33
Boilermaker		\$68.11
Bricklayer		\$56.13
Carpenter		\$55.05
Lather		ψ00.00
Linoleum Layer		
Millwright		
Pile Driver		
Cement Mason		\$51.37
Plasterer		φ31.37
Communications Technician		\$23.24*
Electrician (Inside Wireman)		\$64.23
Electrician Outside Lineman		\$62.52
Lineman Operator		
Lineman - Tree Trimmer		
Groundman		
Groundman - Tree Trimmer		
Elevator Constructor		\$23.24*
Glazier		\$61.24
Ironworker		\$60.38
Laborer		\$45.41
General Laborer		
First Semi-Skilled		
Second Semi-Skilled		
Mason		\$50.21
Marble Mason		
Marble Finisher		
Terrazzo Worker		
Terrazzo Finisher		
Tile Setter		
Tile Finisher		
Operating Engineer		\$60.47
Group I		
Group II		
Group III		
Group III-A		
Group IV		
Group V		
Painter		\$48.07
Plumber	+ +	\$67.76
Pipe Fitter	+ +	ψ01.70
Roofer	+ +	\$50.97
Sheet Metal Worker	+	\$65.95
Sprinkler Fitter	+	\$64.07
Truck Driver		\$23.24*
Truck Control Service Driver	+ +	φ23.24
Group I	+ +	
	+ +	
Group II		
Group III		
Group IV		

*The Division of Labor Standards received less than 1,000 reportable hours as required by RSMo 290.257.4(b). Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center, in accordance with RSMo 290.257.2.

Heavy Construction Rates for FRANKLIN County

		Basic
OCCUPATIONAL TITLE	** Date of	Hourly
	Increase	Rates
Carpenter		\$59.17
Millwright		
Pile Driver		
Electrician (Outside Lineman)		\$62.52
Lineman Operator		
Lineman - Tree Trimmer		
Groundman		
Groundman - Tree Trimmer		
Laborer		\$44.44
General Laborer		
Skilled Laborer		
Operating Engineer		\$62.35
Group I		
Group II		
Group III		
Group IV		
Truck Driver		\$42.89
Truck Control Service Driver		
Group I		
Group II		
Group III		
Group IV		

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

*The Division of Labor Standards received less than 1,000 reportable hours as required by RSMo 290.257.4(b). Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center, in accordance with RSMo 290.257.2.

OVERTIME and HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, **"overtime work"** shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January first; The last Monday in May; July fourth; The first Monday in September; November eleventh; The fourth Thursday in November; and December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

ACKNOWLEDGEMENT

Each bidder shall acknowledge receipt of this **Addendum No. 1** of the **RE-BID** of **CONSTRUCT 4-UNIT T-HANGAR AND 6-UNIT EXECUTIVE T-HANGAR** by his/her signature affixed hereto, and shall attach this Addendum to the original bid.

CERTIFICATION BY BIDDER

SIGNATURE _____

TITLE _____

COMPANY _____

DATE _____

FAX/EMAIL TRANSMITTAL

To: Crawford, Murphy & Tilly, Inc Attention: <u>Brian Hutsell</u>

Re: Addendum #1 Fax 314.436.0723 From: (name)

(company)

Date:

To verify that all contractors are in receipt of this addendum, Contractors are asked to sign and date this acknowledgement sheet. The Contractor should fax or mail to Crawford, Murphy, & Tilly, Inc. at the number listed below by **September 27, 2019, or via email at <u>bhutsell@cmtengr.com</u> AND** <u>vursin@cmtengr.com</u>.

Crawford, Murphy, & Tilly, Inc. One Memorial Drive, Suite 500 Saint Louis, Missouri 63102

Fax: (314) 436-0723 Phone: (314) 436-5500

BY: CRAWFORD, MURPHY, & TILLY, INC.