

CITY OF COLUMBIA, MISSOURI

FINANCE DEPARTMENT PURCHASING DIVISION

NOTICE TO BIDDERS

ADDENDUM #2 to RFQ 66/2020: TAXILANE C2 RECONSTRUCTION AND EXTENSION AND APRON EXPANSION

Bidders shall note these changes to the above RFQ and *incorporate these changes in their bid*. Bidders shall attach a signed acknowledged copy of this addendum to their bid, if submitting a hard copy (via paper) or agree to the addendum electronically if submitting through the electronic bid system on-line.

This addendum consists of the inclusion of the following documents:

1) Question and Answer Pre and Post Pre-Bid Meeting:

Q: Note 8 on plan sheet CD100 states 'pavement removal shall include removal of pavement, baserock, and any unsuitable material present.' Will the unsuitable material removed, if present, be paid for by Line item P-152-4.2 UNSUITABLE EXCAVATION on the bid form? **A:** Yes.

Q: Does the Airport have a location to place all of the excess cut from earthwork operations?

A: Yes, the material shall remain on Airport Property and placed at the location as shown on the revised Drawing G-003 attached to this Addendum No. 2.

Q: What are we replacing the unsuitable material with that Bid Item P-152-4.2 refers to?

A: If unsuitable material is encountered it shall be replaced with suitable material obtained on site. The material replacing any unsuitable material shall be paid for under Item P-152-4.1 Unclassified Excavation – per cubic yard.

Q: The summary of earthwork quantities shows the cumulative cut quantity on the project is 7,577 CY, however the bid item for Unclassified excavation is for 11,920 CY. Can you please explain the discrepancy?

A: See the revised Bid Response form and revised drawings G-002, CG100, CG101, CG102, CG201, CG202, CG203 attached to this Addendum No. 2.

2) Project Manual

BID RESPONSE

Delete the Bid Response in its entirety and replace with the attached revised Bid Response form.

APPENDIX A – GEOTECHNICAL REPORT

Replace the second page (signed cover letter) with the revised second page attached to this Addendum No. 2.

3) Plans

Drawing G-002

Delete this drawing in its entirety and replace with the attached revised Drawing G-002.

Drawing G-003

Delete this drawing in its entirety and replace with the attached revised Drawing G-003.

Drawing CG100

Delete this drawing in its entirety and replace with the attached revised Drawing CG100.

Drawing CG101

Delete this drawing in its entirety and replace with the attached revised Drawing CG101.

Drawing CG102

Delete this drawing in its entirety and replace with the attached revised Drawing CG102.

Drawing CG201

Delete this drawing in its entirety and replace with the attached revised Drawing CG201.

Drawing CG202

Delete this drawing in its entirety and replace with the attached revised Drawing CG202.

Drawing CG203

Delete this drawing in its entirety and replace with the attached revised Drawing CG203.

NO OTHER ADDITIONAL CHANGES MADE

CALE TURNER PURCHASING AGENT CITY OF COLUMBIA

ACKNOWLEDGMENT

The undersigned bidder hereby certifies that the changes set forth in this	Addendum #2 have been
incorporated in their bid and are a part of the Request for Quotation 66/2020.	All other provisions of the
RFQ document, except as stated herein, shall remain in force as written.	

Firm	Date	
Signed		

BID RESPONSE

TAXILANE C2 RECONSTRUCTION AND EXTENSION AND APRON EXPANSION CITY OF COLUMBIA, MISSOURI REQUEST FOR PROPOSALS RFP 66/2020

Sealed Bids must be received in the City of Columbia's Purchasing Division, 701 East Broadway, 5^{th} Floor Columbia, MO either electronically on the City's electronic bid system or on paper, by bid closing date and time: June 3^{rd} , 2020, 2:00 pm CST. The bid bond must be physically delivered in original form or submitted electronically, through Surety2000 by bid closing date and time.

THE UNDERSIGNED BIDDER, having examined the specifications, general specifications and other proposed contract documents, and all addenda thereto; and being acquainted with and fully understanding (a) the extent and character of the work covered by this quotation; (b) the location, arrangement, and specified requirements of the proposed work; (c) local conditions relative to labor, transportation, hauling and delivery facilities; and (d) all other factors and conditions affecting or which may be affected by the work,

HEREBY PROPOSES to furnish all <u>required</u> materials, supplies, equipment, tools and plant; to perform all necessary labor and supervision; and to install, erect, equip, and complete all work stipulated in, required by, and in accordance with the proposed contract documents, specifications, and other documents referred to herein (as altered, amended, or modified by all addenda hereto) for and in consideration of the prices stated herein. All prices stated herein are firm. **Missouri Sales and Use Tax are not to be included in this pricing.**

The City reserves the right to reject any and all bids, to waive technical defects, and to select the bid(s) deemed most advantageous to the City. The undersigned certifies that the undersigned has the authority to bind this company in an agreement to supply the service or commodity in accordance with all terms and conditions specified herein. Please type or print the information below.

Company Name		Authorized Person (Print)	
Address		Signature	
City/State/Zip		Title	
Telephone #	Fax	Date Tax ID #	
E-mail		Entity Type	

Bid Closes: 06/03/2020, 2:00 pm, CST

The project will include a Base Bid with a total project duration of 60 Calendar Days. The responsive bidder shall provide a lump sum amount to complete the work for the Base Bid.

To furnish all labor, equipment, materials and supplies necessary to complete the work described in this bid document, state firm fixed unit prices for the Base Bid Items below:

BASE BID							
ITEM NO.	BID ITEM NO.	DESCRIPTION OF WORK	UNITS	ESTIMATED QUANTITY	UNIT PRICE	EXTENSION	
1	C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM	LS	1			
2	C-102-5.1	TEMPORARY SEEDING & MULCHING	AC	3.8			
3	C-102-5.2	INSTALLATION AND REMOVAL OF SILT FENCE	LF	2,150			
4	C-102-5.3	INSTALLATION AND REMOVAL OF COMPOST FILTER SOCK	LF	115			
5	C-102-5.4	STABILIZED CONSTRUCTION ENTRANCE	EA	1			
6	C-105-7.1	MOBILIZATION	LS	1			
7	C-105-7.2	ENGINEER FIELD OFFICE	MONTH	2			
8	SP-1-2.1	TRAFFIC CONTROL	LS	1			
9	P-101-5.1	BITUMINOUS PAVEMENT REMOVAL (15"±)	SY	2,671			
10	P-101-5.2	CONCRETE PAVEMENT REMOVAL (10"±)	SY	241			
11	P-101-5.3	SAW CUT FULL DEPTH	LF	405			
12	P-101-5.4	PAVEMENT MARKING REMOVAL	SF	1,120			
13	P-101-5.5	REMOVAL OF UNDERDRAINS	LF	295			
14	P-101-5.6	REMOVAL OF COMPRESSION JOINT SEALS	LF	1,010			
15	P-152-4.1	UNCLASSIFIED EXCAVATION	CY	6,985			
16	P-152-4.2	UNSUITABLE EXCAVATION	CY	1,050			
17	P-158-5.1	FLY ASH STABILIZED SUBGRADE (12")	SY	7,025			
18	P-158-5.2	FLY ASH	TON	550			
19	P-158-5.3	GEOTEXTILE FABRIC	SY	7,025			
20	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	SY	7,025			
21	P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (7")	SY	6,460			
22	P-604-5.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENTS	LF	13,805			
23	P-620-5.1	TAXIWAY MARKING (YELLOW)	SF	725			
24	P-620-5.2	TAXIWAY MARKING (BLACK)	SF	1,450			
25	P-620-5.3	SURFACE PREPARATION	SF	2,175			
26	D-705-5.1	4-INCH SMOOTH-WALL PERFORATED PVC UNDERDRAIN PIPE	LF	1,085			
27	D-705-5.2	4-INCH NON-PERFORATED UNDERDRAIN OUTLET PIPE	LF	35			

RFP 66/2020 Bid Closes: 06/03/2020, 2:00 pm, CST

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28	D-705-5.3	UNDERDRAIN CONCRETE SPLASH PAD	EA	1		
29	T-901-5.1	SEEDING	AC	3.8		
30	T-904-5.1	SODDING	SY	550		
31	T-905-5.1	TOPSOIL (OBTAINED ON SITE)	SY	12100		
32	T-908-5.1	MULCHING	AC	3.8		
33	L-108-5.1	NO. 8 AWG, 5 KV, L-824, TYPE C	LF	555		
	2 100 511	CABLE, INSTALLED IN TRENCH,				
		DUCT BANK OR CONDUIT				
34	L-108-5.2	NO. 6 AWG, SOLID, BARE	LF	520		
		COUNTERPOISE WIRE, INSTALLED IN				
		TRENCH, ABOVE THE DUCT BANK				
		OR CONDUIT, INCLUDING GROUND				
		RODS AND GROUND CONNECTORS				
35	L-110-5.1	ELECTRICAL DUCT BANK, 1-2" PVC	LF	430		
36	L-110-5.2	ELECTRICAL DUCT BANK, 2-2" PVC,	LF	85		
		CONCRETE ENCASED				
37	L-125-5.1	TAXIWAY RETROREFLECTIVE	EA	19		
		MARKERS (L-853)				
38	L-125-5.2	REMOVE TAXIWAY EDGE LIGHT	EA	11		
		FIXTURE AND STORE TO BE				
		REINSTALLED, INCLUDING				
		REMOVAL OF FOUNDATION				
39	L-125-5.3	REMOVE TAXIWAY GUIDANCE SIGN	EA	1		
		AND RETURN TO AIRPORT,				
		INCLUDING REMOVAL OF				
		FOUNDATION				
40	L-125-5.4	EXISTING L-861-T, LED, ELEVATED	EA	11		
		TAXIWAY EDGE LIGHT, BLUE LENS				
		TO BE INSTALLED ON NEW L-867-B				
		GALVANIZED BASE CAN (INCLUDES				
		FOUNDATION, FIXTURES,				
		TRANSFORMER AND BASE PLATE				
	T 105.5.5	W/GASKET)				
41	L-125-5.5	NEW GUIDANCE SIGN TO BE	EA	1		
		INSTALLED ON NEW L-867-B				
		GALVANIZED BASE CAN (INCLUDES				
		FOUNDATION, FIXTURES,				
		TRANSFORMER AND BASE PLATE				
42	L-125-5.6	WITH GASKET) UNLIGHTED TAXIWAY END SIGN	EA	1		
42	L-123-3.0	(INCLUDES FIXTURE AND	EA	1		
		FOUNDATION)				

TOTAL BASE BID:	(Numeric Fo	rmat)	\$
TOTAL BASE BID: (Written Format):	-		

Engineering Surveys & Services

Consulting Engineers, Land Surveyors, and Geoprofessionals Analytical and Materials Laboratories

1775 West Main Street Sedalia, Missouri 65301 Telephone: 660-826-8618 ess@ess-inc.com www.ess-inc.com

NUMBER

December 17, 2019

Mr. Ryan Lorton, PE Burns & McDonnell 9400 Ward Parkway Kansas City, MO 64114

RE: Geotechnical Investigation

Columbia Regional Airport

Hangar 350

Columbia, Missouri

Dear Mr. Lorton:

We have conducted a subsurface investigation and evaluated subsurface conditions for the referenced project. The following report includes the results of the investigation and evaluation and our recommendations regarding foundation design, pavement design, and construction considerations.

We appreciate the opportunity to assist you on this project and anticipate inquiries during the design phase. We stand ready to assist during the design phase and through construction with a full range of construction oriented engineering, surveying, and laboratory services. If we can be of further assistance, please do not hesitate to contact us.

Prepared by,

Cullan A. Even, EI

July A E

Reviewed by,

Joshua D. Lehmen, PE, RG

cc: email: Lorton

SUMN	MARY OF QUANTITIE	<u>ES</u>					SUMMARY	OF EARTHWO	ORK QUANTIT	<u> TIES</u>		
ITEM NO.	BID ITEM NO.	DESCRIPTION OF WORK	UNITS	ESTIMATED QUANTITY	AS-BUILT QUANTITY		STATION	CUT AREA	FILL AREA	CUMULATIVE CUT VOLUME	CUMULATIVE FILL VOLUME	NET VOLUME
1	C-100-14.1	CONTRACTOR QUALITY CONTROL PROGRAM	LS	1								
2	C-102-5.1	TEMPORARY SEEDING & MULCHING	AC	3.8			25+00	1113.24 SF	0.00 SF	0.00 CY	0.00 CY	0.00 CY
3	C-102-5.2	INSTALLATION AND REMOVAL OF SILT FENCE	LF	2150			26+00	690.63 SF	0.00 SF	3340.51 CY	0.00 CY	3340.51 CY
4	C-102-5.3	INSTALLATION AND REMOVAL OF COMPOST FILTER SOCK	LF	115								
5	C-102-5.4	STABILIZED CONSTRUCTION ENTRANCE	EA	1			27+00	111.09 SF	1.45 SF	4825.18 CY	2.68 CY	4822.50 CY
6	C-105-7.1	MOBILIZATION	LS	1			28+00	52.89 SF	0.56 SF	5128.85 CY	6.40 CY	5122.46 CY
7	C-105-7.2	ENGINEER FIELD OFFICE	MONTH	2								
8	SP-1-2.1	TRAFFIC CONTROL	LS	1			29+00	60.14 SF	0.87 SF	5338.17 CY	9.04 CY	5329.14 CY
9	P-101-5.1	BITUMINOUS PAVEMENT REMOVAL (15"±)	SY	2671			30+00	58.29 SF	0.78 SF	5557.48 CY	12.08 CY	5545.40 CY
10	P-101-5.2	CONCRETE PAVEMENT REMOVAL (10"±)	SY	241								
) 11	P-101-5.3	SAW CUT FULL DEPTH	LF	405			31+00	65.84 SF	0.21 SF	5787.35 CY	13.91 CY	5773.44 CY
12	P-101-5.4	PAVEMENT MARKING REMOVAL	SF	1120			32+00	72.67 SF	1.01 SF	6043.85 CY	16.17 CY	6027.68 CY
13	P-101-5.5	REMOVAL OF UNDERDRAINS	LF	295								
14	P-101-5.6	REMOVAL OF COMPRESSION JOINT SEALS	LF	1010			32+50	79.52 SF	1.87 SF	6184.76 CY	18.84 CY	6165.93 CY
15	P-152-4.1	UNCLASSIFIED EXCAVATION	CY	6985			33+00	59.16 SF	16.05 SF	6278.16 CY	39.70 CY	6238.46 CY
16	P-152-4.2	UNSUITABLE EXCAVATION	CY	1050								
17	P-158-5.1	FLY ASH STABILIZED SUBGRADE (12")	SY	7025			33+50	38.09 SF	1.64 SF	6363.16 CY	57.15 CY	6306.00 CY
18	P-158-5.2	FLY ASH	TON	550			34+00	28.46 SF	21.67 SF	6424.77 CY	78.73 CY	6346.04 CY
19	P-158-5.3	GEOTEXTILE FABRIC	SY	7025			01100	20.10 01	21.07 01	0121.77	10.7001	0010.0101
20	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	SY	7025								
21	P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (7")	SY	6460					~~~			~~~~
22	P-604-5.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENTS	LF	13805		- /						
23	P-620-5.1	TAXIWAY MARKING (YELLOW)	SF	725		⊣)						
24	P-620-5.2	TAXIWAY MARKING (BLACK)	SF	1450		⊣ 5						
25	P-620-5.3	SURFACE PREPARATION	SF	2175		⊣ 〈						
26	D-705-5.1	4-INCH SMOOTH-WALL PERFORATED PVC UNDERDRAIN PIPE	LF	1085		∤ ∤						
27	D-705-5.2	4-INCH NON-PERFORATED UNDERDRAIN OUTLET PIPE	LF	35		⊣)						
28	D-705-5.3	UNDERDRAIN CONCRETE SPLASH PAD	EA	1		⊣)						
30	T-901-5.1	SEEDING	AC	3.8		- \						
31	T-904-5.1	SODDING TOPSOIL (OBTAINED ON SITE)	SY	550 12100		⊣ <						
32	T-905-5.1 T-908-5.1	MULCHING	SY AC	3.8		- 						
33	L-108-5.1	NO. 8 AWG, 5 KV, L-824, TYPE C CABLE, INSTALLED IN TRENCH, DUCT BANK OR CONDUIT	LF	555		∣)						
>	L-100-3.1	NO. 6 AWG, SOLID, BARE COUNTERPOISE WIRE, INSTALLED IN TRENCH, ABOVE THE DUCT BANK OR CONDUIT,		333		⊣)						
34	L-108-5.2	INCLUDING GROUND RODS AND GROUND CONNECTORS	LF	520		\						
35	L-110-5.1	ELECTRICAL DUCT BANK, 1-2" PVC	LF	430								
36	L-110-5.2	ELECTRICAL DUCT BANK, 2-2" PVC, CONCRETE ENCASED	LF	85								
37	L-125-5.1	TAXIWAY RETROREFLECTIVE MARKERS (L-853)	EA	19								
38	L-125-5.2	REMOVE TAXIWAY EDGE LIGHT FIXTURE AND STORE TO BE REINSTALLED, INCLUDING REMOVAL OF FOUNDATION	EA	11]}						
39	L-125-5.3	REMOVE TAXIWAY GUIDANCE SIGN AND RETURN TO AIRPORT, INCLUDING REMOVAL OF FOUNDATION	EA	1								
		EXISTING L-861-T, LED, ELEVATED TAXIWAY EDGE LIGHT, BLUE LENS TO BE INSTALLED ON NEW L-867-B				\						
40	L-125-5.4	GALVANIZED BASE CAN (INCLUDES FOUNDATION, FIXTURES, TRANSFORMER AND BASE PLATE W/GASKET)	EA	11								

NEW GUIDANCE SIGN TO BE INSTALLED ON NEW L-867-B GALVANIZED BASE CAN (INCLUDES FOUNDATION,

FIXTURES, TRANSFORMER AND BASE PLATE WITH GASKET)

UNLIGHTED TAXIWAY END SIGN (INCLUDES FIXTURE AND FOUNDATION)

SUMMARY OF EARTHWORK QUANTITIES

STATION	CUT AREA	FILL AREA	CUMULATIVE CUT VOLUME	CUMULATIVE FILL VOLUME	NET VOLUME
25+00	1113.24 SF	0.00 SF	0.00 CY	0.00 CY	0.00 CY
26+00	690.63 SF	0.00 SF	3340.51 CY	0.00 CY	3340.51 CY
27+00	111.09 SF	1.45 SF	4825.18 CY	2.68 CY	4822.50 CY
28+00	52.89 SF	0.56 SF	5128.85 CY	6.40 CY	5122.46 CY
29+00	60.14 SF	0.87 SF	5338.17 CY	9.04 CY	5329.14 CY
30+00	58.29 SF	0.78 SF	5557.48 CY	12.08 CY	5545.40 CY
31+00	65.84 SF	0.21 SF	5787.35 CY	13.91 CY	5773.44 CY
32+00	72.67 SF	1.01 SF	6043.85 CY	16.17 CY	6027.68 CY
32+50	79.52 SF	1.87 SF	6184.76 CY	18.84 CY	6165.93 CY
33+00	59.16 SF	16.05 SF	6278.16 CY	39.70 CY	6238.46 CY
33+50	38.09 SF	1.64 SF	6363.16 CY	57.15 CY	6306.00 CY
34+00	28.46 SF	21.67 SF	6424.77 CY	78.73 CY	6346.04 CY

FOR BID -**NOT FOR** CONSTRUCTION

BURNS MSDONNELL

9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 LICENSEE NO. 000165

date 01-10-2020 designed J. COOPER

no. date by ckd

0 | 5/7/20 | JDC | RBL | ISSUED FOR BID

1 | 5/29/20 | JDC | RBL | ADDENDUM NO. 2

description

B. HEADY checked R. LORTON

Columbia Regional

FlyCOU.com

TAXILANE C2 RECONSTRUCTION AND AND EXTENSION AND APRON EXPANSION SUMMARY OF QUANTITIES

of 33

sheets

MoDOT Project no. project AIR 196-037A-4

G-002

6/01/2020 drawing RYAN B. LORTON CIVIL ENGINEER

E LORTON

sheet 3 LIC. NO. PE-2004017211 file 105484g-001.dwg

41 42

L-125-5.6













