

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY
RFP 2023-14
WWTP RBC Replacement
Amendment #2

SDSTA amends the subject RFP to include the following Addendum #2 from Banner Associates, Inc. and to extend the proposal due date to May 12, 2023, at 2pm. It is hereby understood that all other provisions will not be otherwise changed nor affected.

This Amendment is effective May 5, 2023.



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ADDENDUM | No. 2

PROJECT	Sanford Underground Research Facility WWTP		
PROPOSAL SUBMISSION DATE	2:00 PM	Mountain Time Zone	May 10, 2023
PROPOSAL SUBMISSION LOCATION	Sanford Underground Research Facility 630 East Summit Street Lead, SD 57754		
ISSUE DATE	May 4, 2023		

SCOPE OF THIS ADDENDUM

The following becomes a part of the original project specifications and design drawings, taking precedence over the items that may conflict. The person submitting a proposal shall note receipt and make acknowledgment of the Addendum on his/her proposal form, incorporating its provision in his/her proposal.

DRAWINGS

The following additions, changes and clarifications have been made to the Drawings.

See Electrical Addendum Attachment

NOTE

Addendums are available on the SURF website at <http://sanfordlab.org/contractors-and-vendors/contract-opportunities> by clicking on **Request for Proposal (RFP) 2023-14 WWTP RBC Replacement** link.



Project Manual and Drawing inquiries regarding the work should be directed to:

CONTACT PERSON(S)

Banner Associates, Inc. Tel 1-605-692-6342 | Toll Free 1-855-323-6342

Dennis Rebelein	Project Manager	dennisr@bannerassociates.com
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Adam Hanson	Structural Engineer	adamh@bannerassociates.com
Todd Schulz	Civil Site Engineer	todds@bannerassociates.com
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Subconsultants

Kelli Osterloo	Electrical Engineer	rikalalm@teamtsp.com
Lance Rikala	Mechanical Engineer	osterlooka@teamtsp.com



Kathryn Schmit, P.E. #7754



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Addendum

Issued:	May 4, 2023
Bids Due:	May 10, 2023
Project Name:	Sanford Underground Research Facility WWTP
TSP Project No:	03211470

The following changes or modifications are to be incorporated into and become a part of the Contract Documents. The Bidder shall note receipt and make acknowledgement of this Addendum on the Bid Proposal, incorporating these provisions in the bid.

DRAWINGS:

ITEM NO 1: Drawing 4E-101 – Blower Building Electrical Schedules:

Reference panel schedule “NEW PANELBOARD: BB-HN1”: No spare breakers are required in panel BB-HN1. Where spare breakers are shown on the schedule, provide blank spaces.

ATTACHMENTS:

- Drawings 4E-101

END OF ADDENDUM



G:\2021\03211470 SDSTA_Wastewater_Treatment\Drawings\Revit\CAD Links\Title Block.dwg,8/30/2016 2:13 PM

ADD02

NEW PANELBOARD: BB-HN1

LOCATION: BLOWER BUILDING
MOUNTING: SURFACE TYPE 1
MAIN DEVICE: 400 A MLO
BUS AMPS: 400 AMPS

VOLTAGE: 480 V. 3 ø 3 W.
A.I.C. RATING: 22,000 AMPS SYMMETRICAL
SPECIAL: SURGE PROTECTIVE DEVICE

N	LOAD DESCRIPTION	RATIN G	P	CKT	A		B		C		CKT	P	RATIN G	LOAD DESCRIPTION	N
1	BLOWER #1	100 A	3	1	14.4	14.4					2	3	100 A	BLOWER #2	1
				3			14.4	14.4			4				
				5					14.4	14.4	6				
1	BLOWER #3	100 A	3	7	14.4	3.4					8	3	80 A	T-LN1	
				9			14.4	4.3			10				
				11					14.4	1.0	12				
	SPACE	--	1	13	--	--					14	1	--	SPACE	
	SPACE	--	1	15	--	--					16	1	--	SPACE	
	SPACE	--	1	17	--	--			--	--	18	1	--	SPACE	
	SPACE	--	1	19	--	--					20	1	--	SPACE	
	SPACE	--	1	21	--	--					22	1	--	SPACE	
	SPACE	--	1	23	--	--			--	--	24	1	--	SPACE	
	SPACE	--	1	25	--	--					26	1	--	SPACE	
	SPACE	--	1	27	--	--					28	1	--	SPACE	
	SPACE	--	1	29	--	--			--	--	30	1	--	SPACE	
		TOTAL LOAD:			47 kVA		47 kVA		44 kVA						
		TOTAL AMPS:			170 A		173 A		160 A						
LOAD CLASSIFICATION		CONNECTED			DEMAND		ESTIMATED		PANEL TOTALS						
REC		1800 VA			100.00%		1800 VA								
LTG		630 VA			125.00%		788 VA		CONNECTED LOAD:				138410 VA		
SPEC		5352 VA			100.00%		5352 VA		ESTIMATED DEMAND:				149366 VA		
MTR		130696 VA			108.27%		141504 VA		CONNECTED CURRENT:				166 A		
									EST. DEMAND CURRENT:				180 A		
NOTES (N):															
1. CIRCUIT BREAKER SIZE IS BASED ON 40 HP BLOWER MOTOR. CONFIRM BREAKER SIZE WITH BLOWER HORSEPOWER PRIOR TO ORDER.															

NEW PANELBOARD: BB-LN1

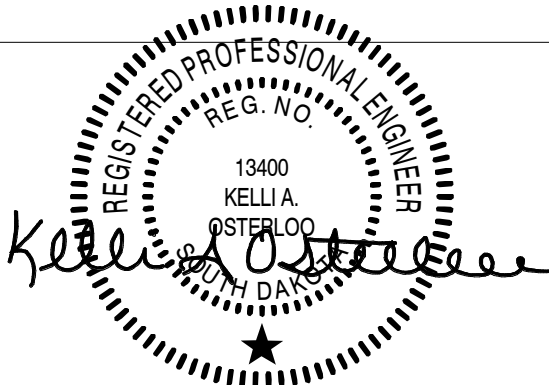
LOCATION: BLOWER BUILDING
MOUNTING: SURFACE TYPE 1
MAIN DEVICE: 100 A MCB
BUS AMPS: 100 AMPS

VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

N	LOAD DESCRIPTION	RATIN G	P	CKT	A		B		C		CKT	P	RATIN G	LOAD DESCRIPTION	N
	BLWR BLDG LTG	20 A	1	1	0.4	0.3					2	1	20 A	MBBR LTG	
	INT. CONV. RCPT	20 A	1	3			1.1	0.4			4	1	20 A	MBBR RCPT	
	EXT. RCPT	20 A	1	5					0.4	0.4	6	1	20 A	T-STAT & LOUVER	
	EF-1	20 A	3	7	0.3	0.0					8	1	20 A	SPARE	
				9			0.3	0.0			10	1	20 A	SPARE	
				11					0.3	0.0	12	1	20 A	SPARE	
D02	EUH-1	35 A	2	13	2.5	0.0					14	1	20 A	SPARE	
				15			2.5	0.0			16	1	20 A	SPARE	
	SPARE	20 A	1	17					0.0	0.0	18	1	20 A	SPARE	
	SPARE	20 A	1	19	0.0	0.0					20	1	20 A	SPARE	
	SPARE	20 A	1	21			0.0	0.0			22	1	20 A	SPARE	
	SPARE	20 A	1	23					0.0	0.0	24	1	20 A	SPARE	
	SPARE	20 A	1	25	0.0	0.0					26	1	20 A	SPARE	
	SPACE	--	1	27			--	--			28	1	--	SPACE	
	SPACE	--	1	29					--	--	30	1	--	SPACE	
	SPACE	--	1	31	--	--					32	1	--	SPACE	
	SPACE	--	1	33			--	--			34	1	--	SPACE	
	SPACE	--	1	35					--	--	36	1	--	SPACE	
	SPACE	--	1	37	--	--					38	1	--	SPACE	
	SPACE	--	1	39			--	--			40	1	--	SPACE	
	SPACE	--	1	41					--	--	42	1	--	SPACE	
		TOTAL LOAD:			3 kVA		4 kVA		1 kVA						
		TOTAL AMPS:			32 A		38 A		9 A						
LOAD CLASSIFICATION		CONNECTED			DEMAND		ESTIMATED		PANEL TOTALS						
REC		1800 VA			100.00%		1800 VA								
LTG		630 VA			125.00%		788 VA		CONNECTED LOAD:				8730 VA		
SPEC		5352 VA			100.00%		5352 VA		ESTIMATED DEMAND:				9131 VA		
MTR		1000 VA			125.00%		1250 VA		CONNECTED CURRENT:				24 A		
									EST. DEMAND CURRENT:				25 A		
NOTES (N):															

LIGHTING FIXTURE SCHEDULE - BLOWER BUILDING

TYPE	MANUFACTURER	CATALOG SERIES	DESCRIPTION	VOLTAGE	MOUNTING	LAMP	WATTAGE	EQUIVALENTS
AA	LITHONIA	WDGE2 LED P3 30K 80CRI T4M MVOLT SRM DDBXD	EXTERIOR LED WALLPACK MOUNTED AT 10'-0" AFG, 3200 LUMENS	120 V	EXTERIOR WALL	LED	18 W	OR EQUAL
EB	LITHONIA	ELM4L	BATTERY BACK-UP EMERGENCY LIGHT	120 V	WALL	LED	4 W	OR EQUAL
N1	LITHONIA	FEX L48 6000LM FPFL MD MVOLT GZ10 40K 80CRI	HEAVY DUTY, INDUSTRIAL, ENCLOSED AND GASKETED STRIP LIGHT	120 V	CHAIN HUNG	LED	40 W	OR EQUAL



DATE: 03/13/2023



PROJECT / SHEET TITLE :
SANFORD UNDERGROUND RESEARCH FACILITY WWTP
BLOWER BUILDING ELECTRICAL SCHEDULES

REV. DATE DESCRIPTION
ADD02 05/04/2023 ADDENDUM 02

JOB No.: 03211470
DATE: March, 2023
ENG / ARCH: DLB
DESIGNER: KAO
TECHNICIAN:

SHEET No. :
4E-101