



CITY OF WACO

Purchasing Services
Post Office Box 2570
Waco, Texas 76702-2570
254 / 750-6604
Fax: 254 / 750-8063
www.waco-texas.com

Date: December 15, 2022
RFB No: 2022-095
Commodity: Zoo HVAC Replacement

Closing Time: 2:00 P.M., December 20, 2022

Opening Time: 2:01 P.M., December 20, 2022

Bid Opening Location: 1415 N. 4th St. Waco, Texas (Via Zoom Video & Dial-in)

Addendum No: 1

The above-mentioned bid invitation has been changed in the following manner. **Sign and return addendum to the Purchasing Office by the closing time and date with your RFB response.** Returning this page signed by your authorized agent will serve to acknowledge this change. All other requirements of the invitation remain unchanged. If you have any questions, please call or stop by the Purchasing Office at the above address.

THE FOLLOWING IS BEING ISSUED AS ADDENDUM NO. 1

PLEASE REVIEW THE FOLLOWING PAGES

- INCLUDE ADD ALTERNATE BID. REFERENCE DRAWING SHEETS M8, E8
- REVISED BID FORM
- CONTRACTORS BE SURE TO BID TO ADDENDUM 1 BID SHEET
- 90 CALENDAR DAY PROJECT TIME WILL BEGIN AFTER DELIVERY OF EQUIPMENT

Firm: _____

Address _____

Signature of Person
Authorized to Sign Bid: _____

Signor's Name and Title
(print or type): _____

Date: _____ Telephone: _____ Fax: _____

RFB 2022-095 Zoo HVAC Replacement - ADDENDUM 1

To: Honorable Mayor and City Council
City of Waco, Texas

BID FORM A
Zoo HVAC Replacement
1701 North 4th Street
City of Waco, Texas

City of Waco RFB # 2022-095

From: _____ (Contractor Print Name Here)

I have received plans, details, and specifications for the project listed above as prepared by Reliance Architecture. I have also received Addenda Nos. _____ and have included their provisions in my bid. I have examined the documents, existing conditions and the site and submit the following bid. In submitting the bid, I agree:

1. To hold my bid open for 90 days after Bid receiving date.
2. To enter into and execute a contract, if awarded on the basis of this bid.
3. To execute the contract, if awarded, within ten (10) calendar days after notification of award, and to commence work not later than ten (10) calendar days from date of "Notice to Proceed."
4. To accomplish the work in accord with the Contract Documents.
5. **To complete the work within 90 calendar days from the Notice to Proceed.** NTP will be established after the contract is executed. If work is not completed by such time, I agree to pay to Owner as liquidated damages the sum of five hundred dollars (\$500.00) for each calendar day after such time that the work remains incomplete, calculated in accordance with the provisions of the Contract Documents. Final completion will be reached on or before fourteen days after the Certificate of Substantial Completion is issued. If work is not completed by such time, I agree to pay to the Owner additional liquidated damages of five hundred dollars (\$500.00) per day for each calendar day after such time that Final Completion is not reached.

I will perform all work of this project for the lump sum price of:

BASE BID: _____
_____ Dollars (\$ _____)

I will perform all work of this project for the lump sum price of:

ALTERNATE BID: _____
_____ Dollars (\$ _____)

[This section intentionally left blank]

RFB 2022-095 Zoo HVAC Replacement - ADDENDUM 1

To: Honorable Mayor and City Council
City of Waco, Texas

BID FORM A
Zoo HVAC Replacement
1701 North 4th Street
City of Waco, Texas

City of Waco RFB # 2022-095

Executed on _____, 2022.

Company Name

[If participant is a corporation]

Signature: _____

[complete the following]

Print Name: _____

Sole Owner, or Partner, or President of Corporation
(Delete titles inapplicable to signer)

ATTEST:

Whose address is:

(Corporate Seal)

Telephone: _____

Fax: _____

Email: _____

RFB 2022-095 Zoo HVAC Replacement - ADDENDUM 1

To: Honorable Mayor and City Council
City of Waco, Texas

BID FORM B
Zoo HVAC Replacement
1701 North 4th Street
City of Waco, Texas

City of Waco RFB # 2022-095

From: _____ (Bidding company name here)

I will adjust the contract sum in accordance with the following Unit Prices:

ITEM	DESCRIPTION	UNIT	ADD	DEDUCT
	No unit pricing requested.			

I will add for any additional work above and beyond the scope of this contract for the cost of all jobsite labor and materials furnished plus _____ percent (____%) for overhead and profit. Overhead and profit includes office personnel and expenses.

I will add for any additional work above and beyond the scope of this contract performed by a subcontractor for the cost of subcontractor plus _____ percent (____%) for overhead and profit.

I will use the following subcontractors on this work:

Trade	Subcontractor's Name	Location	MWBE Y/N
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RFB 2022-095 Zoo HVAC Replacement - ADDENDUM 1

To: Honorable Mayor and City Council
City of Waco, Texas

BID FORM B
Zoo HVAC Replacement
1701 North 4th Street
City of Waco, Texas

City of Waco RFB # 2022-095

Executed on _____, 2022.

Company Name

[If participant is a corporation]

Signature: _____

[complete the following]

Print Name: _____

Sole Owner, or Partner, or President of Corporation
(Delete titles inapplicable to signer)

ATTEST:

Whose address is:

(Corporate Seal)

Telephone: _____

Fax: _____

Email: _____

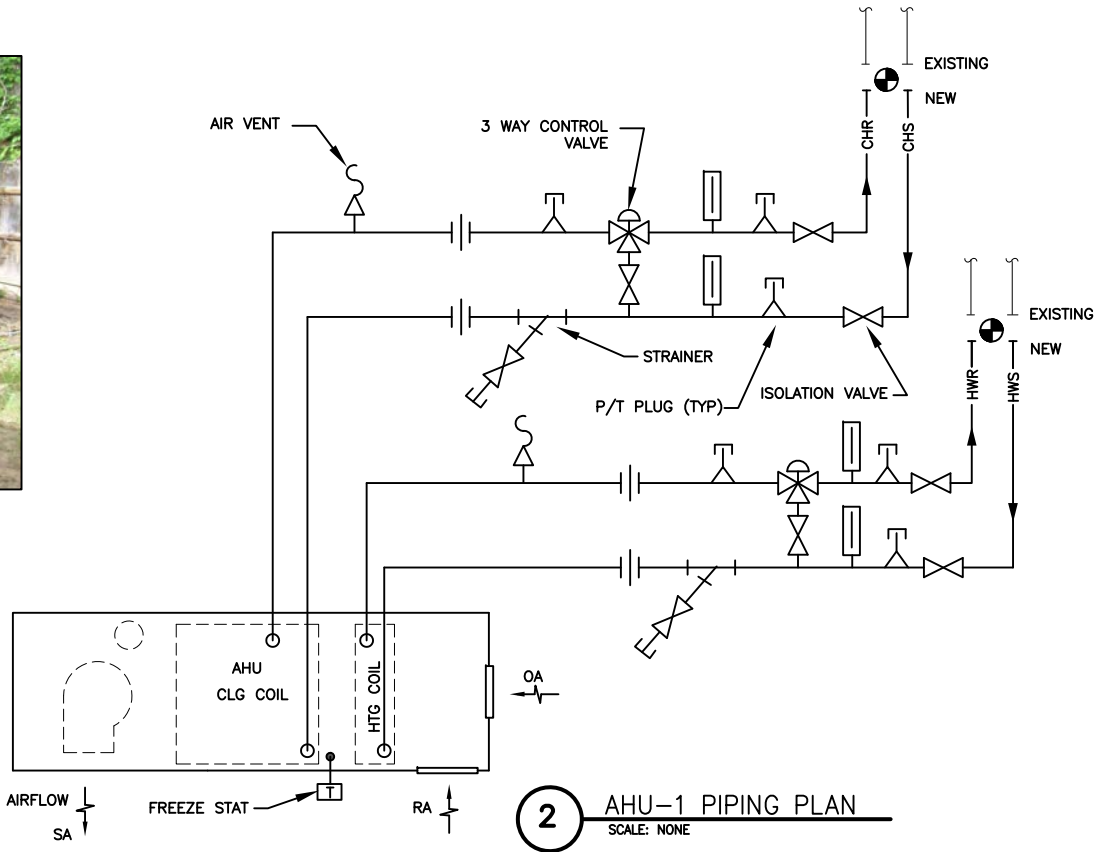
EQUIPMENT SCHEDULE									
Tempered Make-Up Air Unit								Mark: AHU-1	
Qty	Greenheck Model	Volume	External SP	Total SP	FRPM	Operating Power	Weight		
1	MSX-P120-H32	8,000 CFM	2 In. wg	3.254 In. wg	2409	8.35 hp	2,805 lb		
Motor Information						MCA	MOP		
Size	V/C/P	Enclosure	Motor with Shaft Grounding	Motor RPM	Windings				
10 hp	460/60/3	ODP	No	1775	1	17.7	30		
Heating									
Heating Type	Entering Air Temp.	Leaving Air Temp	Fluid Type	Face Velocity	Entering Fluid Temp	Leaving Fluid Temp.			
Hot Water	20.3 F	75.9 F	Water	720 ft/min	180 F	160 F			
HW Coil Model		Total Energy	Fins Per Inch	Rows Deep	Fluid Flow Rate				
HW58S02F08-39x41		482.0 MBH	8	2	49.3 GPM				
Cooling									
Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Leaving Dry Bulb	Leaving Wet Bulb	
Chilled Water	CW58S06O12-36x85	6	12	376 ft/min	742.1 MBH	426.0 MBH	52.1 F	52.1 F	
Fluid Type	Entering Fluid	Leaving Fluid	Percent Glycol	Fluid Flow	Fluid Pressure Drop	Connection Size			
Water	45 F	55.0 F	0	148 GPM	12.2 ft wg	2.5			
Outlet Sound Power By Octave Band						LwA	dBA	Sones	
62.5	125	250	500	1000	2000				
57.1	70.1	85.1	92.1	95.1	93.2	87.1	81.2	98.7	62.9
<small>* LwA - A weighted sound power level based on ANSI S1.4 * dBA - A weighted sound pressure level base on 11.1 dB attenuation per octave band at 5.0 ft. * Noise Criteria (NC) based on an average attenuation of 11.5 dB per octave band at 5.0 ft.</small>									
OPTIONS AND ACCESSORIES									
Mixing Box: with OA/RA dampers and MERV8 filters 20x25x2 - (10)									
Weatherhood: Aluminum Mesh, 20x25x2 - (6)									
Outdoor Air Intake Position: End									
Return Air Intake Position: Bottom									
Discharge Position: Top									
Coating: Hi-Pro Poly - Concrete Gray (RAL 7023)									
Alstream Cooling Coil Coating - ElectroFin									
Alstream Heating Coil Coating - ElectroFin									
Insulation: Double Wall - Entire Unit									
Recirc Control: Modulating-External 2-10 Vdc									
Supply Fan Control: VFD									
VFD Control: Constant Volume									
1 Set(s) of Spare Filters (shlps loose)									
Hinged Access									
Access Side: Right-Hand									
Control Center									
Heat Inlet Air Sensor									
Cool Inlet Air Sensor									
Unit Controls: Terminal Strip									
Temperature Control: None									
Terminal Strip									
					CONTROLS NOTE: CONTROLS SHALL BE BY RELIABLE CONTROLS CO.				
					PRICING NOTE: FOR PRICING & PURCHASING CALL RANDY BARNES (BARTOS EQUIP 469-231-2622				

GENERAL NOTES:

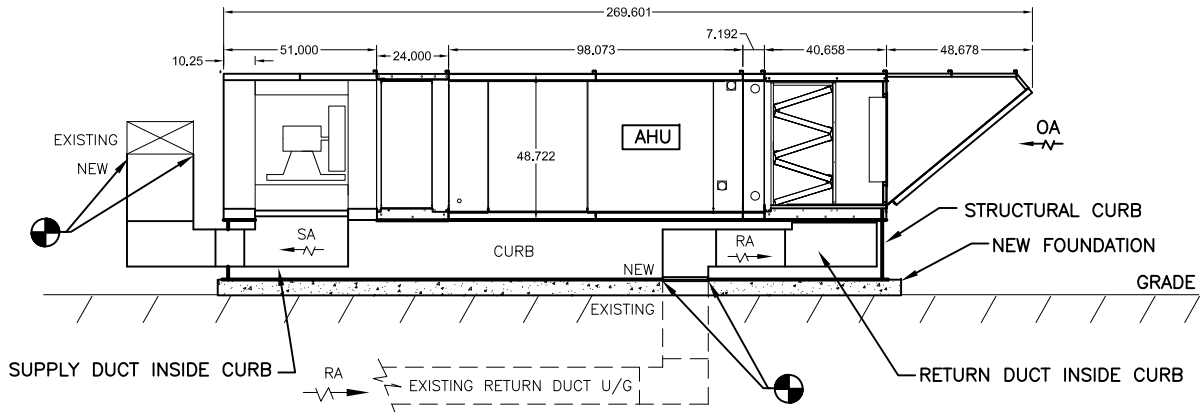
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS AND AUTHORITIES HAVING JURISDICTION.
- ALL WORK SHALL ALSO COMPLY WITH ALL ZOO REQUIREMENTS.
- CONTRACTOR SHALL VISIT THE SITE AND MAKE HIMSELF FAMILIAR WITH THE WORK PRIOR TO BID, NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE.
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN IN A NEAT AND PROFESSIONAL MANNER.
- ALL NEW EQUIPMENT SHALL BE AS SCHEDULED OR OWNER APPROVED EQUAL



1 EXISTING AHU-1
SCALE: NONE
DEMO PLAN



2 AHU-1 PIPING PLAN
SCALE: NONE



NOTE: COORDINATE EXACT DUCT DIMENSIONS & CONNECTIONS WITH AHU MANUF.

3 AHU-1 INSTALLATION PLAN
SCALE: NONE
(ADD-ALTERNATE)

BRAZOS RIVER AHU-1 REPLACEMENT SCOPE OF WORK:

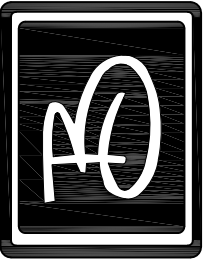
NARRATIVE:

EXISTING AHU IS ABOUT 20 YEARS OLD, IS WORN OUT, AND REQUIRES REPLACEMENT. PURPOSE OF THIS WORK IS TO REPLACE EXISTING AHU WITH A NEW CHW/HW AHU.

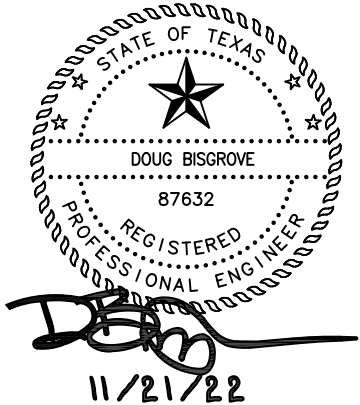
SCOPE OF WORK:

- DISCONNECT ALL PIPING & ELECTRICAL CONNECTIONS.
- REMOVE EXISTING AHU AND BASE, AND DISPOSE OF PER OWNER REQUIREMENTS.
- INSTALL NEW AHU AND BASE PER DETAILS & MANUFACTURER'S GUIDELINES.
- RE-CONNECT DUCTWORK & PIPING.
- REF. E8 PLAN FOR ELECT WORK.
- CONTRACTOR SHALL INSPECT AND RE-USE EXISTING PIPING AS IS MOST PRACTICAL. REPLACE WITH NEW TO MATCH EXISTING AS MAY BE REQUIRED.

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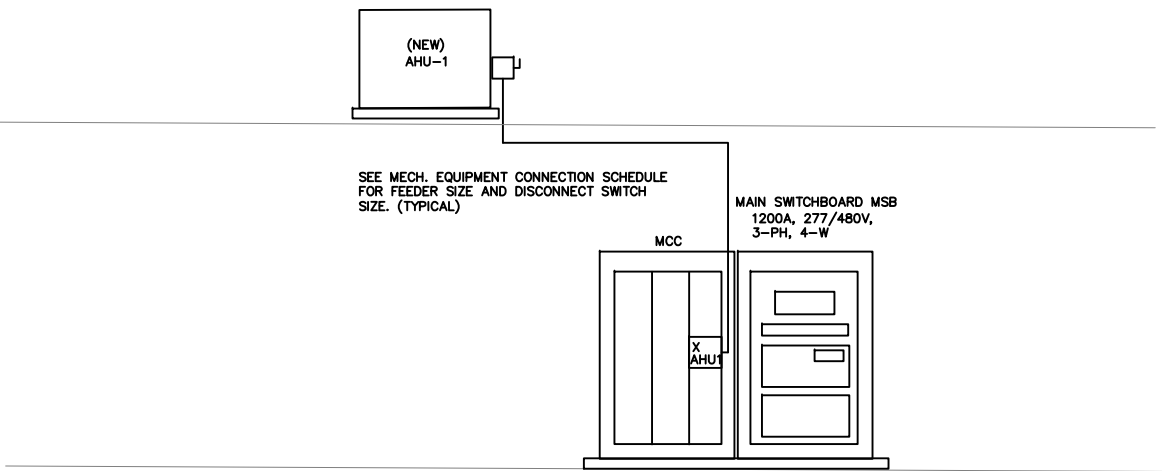


HVAC equipment replacement
project for:
BRAZOS RIVER COUNTRY
CAMERON PARK ZOO
1701 N. 4th St.
WACO, TX 76707

REVISIONS		
No.	DATE	NOTE
PO NO.		00246

ADD-ALTERNATE
AHU-1
RELACEMENT PLAN

M8



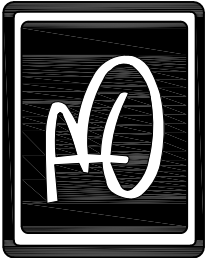
- NOTES
- 1. ALL EQUIPMENT AND FEEDERS ARE EXISTING TO REMAIN UNLESS OTHERWISE INDICATED AS (NEW).
 - 2. VERIFY IF EXISTING MOTOR STARTER BUCKET, FEEDER AND DISCONNECT SWITCH FOR NEW AHU-1 CAN BE REUSED, OTHERWISE PROVIDE NEW FEEDER AND DISCONNECT SWITCH FOR NEW AHU-1.

1

ELECTRICAL RISER DIAGRAM
SCALE: NONE

MECH. EQUIPMENT CONNECTION SCHEDULE										
SYMBOL	DESCRIPTION	LOAD	MCA AMPS	MOCP AMPS	VOLT/ PHASE	POWER SOURCE PANEL - CKT NO.	STARTER SIZE/ BREAKER	CONDUCTOR/ CONDUIT	DISCONNECT AS/P/AF/NEMA	NOTES
OTTER EXHIBIT: AHU-1 REPLACEMENT - ADD ALTERNATE										
EXISTING:										
AHU-1	TEMPERED MAKE UP AIR UNIT				460/3	MCC-	EXISTING	EXISTING	60A/3P/EX3R	2
NEW:										
AHU-1	TEMPERED MAKE UP AIR UNIT	10 HP	17.7	30	460/3	MCC-	NEMA 1/30A/3P	3 #10, #10G, 3/4"C	30/3/30/3R	
NOTES:										
1. MCA: MINIMUM CIRCUIT AMPS.			MOCP: MAXIMUN OVERCURRENT PROTECTION.				2. VERIFY SIZE OF EXISTING BREAKER AND FEEDER.			

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HVAC equipment replacement
project for:

BRAZOS RIVER COUNTRY
CAMERON PARK ZOO
1701 N. 4th St.
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ADD-ALTERNATE
AHU-1
REPLACEMENT PLAN

E8