TAMU CAMPUS PLANNING DESIGN AND CONSTRUCTION (CPDC) FACILITIES EXPENSE AUTHORIZATION FORM

January 15, 2023

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Project File Name	2022-07935 Greenhouse Renovation			
Requesting Unit	Texas A&M Forest Service	Requestor's Name	Dr. Fred Raley	
Project Name	2022-07935 Greenhouse Renovation	Project Number	2022-07935	
Budget (attach estimate)	\$350,600.00	Project Location	Bldg. 0277	
Budget Modification (attach estimate) Revised Budget (with modification(s))		Anticipated Funding Sources	% Dept.: % Other:	
Funding Account Number(s)		Estimated Start & End Dates	Feb 2023 – TBD	

Request will not be considered unless all fields are completed.

Project Description:	Furnish and install a new hoophouse structure to replace the existing including grow lights, endwalls, watering system using existing RO water system, gas heater, electrical, controls, and cooling system.
Project Justification:	Facility is not adequate for Texas A&M Forest Service needs.

Recommended for Approval by:

1/17/23 Date

Interim Director Texas A&M Forest Service

Executive Associate Vice Chancellor

Date

BUDGET WORKSHEET

Project: 2022-07935 Greenhouse Renovation

Project Number: 2022-07935

Programmed Amount:

EST	TIMATE TYPE:	Program of Requirement	nts 🗌 Preliminary Design	Detailed Design	Award	
1.	Constructio	n - Brown & R oo t	€ 100 -			\$ 295,000.00
2.	Engineering	Fee Cleary Zimmern	ອກກົ			\$ 8,400.00
3.	Constructio	n/Project Contingency	@ 10%			\$ 29,500.00
4.	Facilities Se	rvices/UES Support	(Keying/fire alarms/utilities	support/etc.)		\$ 1,000.00
5.	SSC Contra	ct Administration @ 5.0	0%			\$ 16,700.00
			•••••••••••••••••••••••••••••••••••••••	Fotal Funding Requi	red for Construction:	\$ 350,600.00

Building 0277 – Hoop House Renovation





Brown & Root

December 5, 2022

Robert White Project Manager SSC Service Solutions 600 Agronomy Rd College Station, TX 77843

Subject: Rough Order of Magnitude (ROM) Budget for Replacement of Greenhouse #0277 - Rev 1 - Additional Breakdown.

Dear Mr. White

Based on our site meeting and reviewing the end users desire to replace the greenhouse #0277, we have developed the following ROM for TAMU's consideration. The ROM is preliminary and subject to modifications once specific materials and solidified scope of work is developed and material costs and availability at the time the actual work may take place.

Greenhous #0277:

- Excavate the soils inside the greenhouse to a depth of 8". Import, place and compact 4" of select fill for a new sub grade. Install a mat of #3 rebars on 18" centers and pour 4" thick floor with 3,000 psi concrete
- Remove the existing greenhouse frame and install a new structure on top of the existing stem walls. Install a new greenhouse structure designed and manufactures by American Plant. The new structure to have greenhouse roof film and infrared roof film as well as polycarbonate walls. A door will be installed on one end with half glass window. An evaporative Kool Cel system would be installed on one end and a ventilation fan installed in the wall at the opposite end. Four (4)- circulation fans would be installed. A rack and pinon vent system and vent control panel would be installed along with a Link4 iGrow controller. A boom irrigation system would be installed. A total of twenty-four (24)- 680-watt LED grow lights would be installed on a support frame.
- Install a new 100amp electrical service in place of the current service feeding the greenhouse to ensure power availability for new greenhouse equipment. Install 1-ext light at the entry. Install 3-general lights for the structure, install 6- 110V outlets and connect and hang grow lights being supplied by the Greenhouse vendor. Install timer for the new grow lights.
- Install a new gas space heater and repair/replace the existing exposed gas line inside the structure.
- The ROM is based on the water supply line feeding the structure is currently connected to the RO unit at Greenhouse #0276

Concrete floor	\$ 33,000.00
Electrical work	\$ 58,000.00
Plumbing work	\$ 6,000.00
Greenhouse Structure	\$ 52,000.00
24-LED grow lights & brackets	\$ 35,000.00
Greenhouse equipment	\$ 55,000.00
Engineered shop drawings	\$ 3,000.00
Installation of greenhouse building & systems	\$ 53,000.00

Total ROM

\$ 295,000.00

Sincerely, Daniel Croasmun

Daniel Croasmun Project General Manager