

**UNIVERSITY OF ALABAMA SYSTEM
BOARD RULE 415
BOARD SUBMITTAL CHECKLIST CRITERIA**

**BOARD SUBMITTAL CHECKLIST NO. 4
CAPITAL PROJECT - STAGE IV SUBMITTAL ^{/1}
(Construction Contract Award)**

CAMPUS: The University of Alabama, Tuscaloosa, Alabama

PROJECT NAME: EV Bus and Charging Infrastructure

MEETING DATE: February 6 - 7, 2025

- 1. Board Submittal Checklist No. 4
- 2. Transmittal Letter to Chancellor from Campus President requesting project be placed on the agendas for the forthcoming Physical Properties Committee and Board of Trustees (or Executive Committee) Meetings
- 3. Proposed Board Resolution requesting approval of Construction Contract Award, Construction Budget and Project Budget by the Board of Trustees
- 4. Executive Summary of Proposed Capital Project with final Contract Construction Budget and Project Budget (include all proposed project funding for movable equipment and furnishings) ^{/2}
- 5. Tabulation of competitive bids – certified by Project Architect/Construction Manager
- 6. Recommendations for Contract Award by Architect/Construction Manager
- 7. Campus Map(s) showing project site
- 8. Final Business Plan (if applicable) ^{/3}

Prepared by: David Welch

Approved by: Tim Leopard
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^{/1} Reference Tab 3I - Board Rule 415 Instructional Guide
^{/2} Reference Tab 3E - Board Rule 415 Instructional Guide
^{/3} Reference Tab 3V - Board Rule 415 Instructional Guide



Office of the
President

December 17, 2024

Interim Chancellor Sid J. Trant
The University of Alabama System
500 University Boulevard East
Tuscaloosa, Alabama 35401

Dear Interim Chancellor Trant:

I am pleased to send you for approval under Board Rule 415 the attached documents for a Stage IV submittal for the EV Bus and Charging Infrastructure project.

The resolution requests authorization to award the construction contract and approval of the revised project budget and funding, as stipulated.

The item has been thoroughly reviewed and has my endorsement. With your concurrence, I ask that it be added to the agenda for The Board of Trustees at their regular meeting on February 6 – 7, 2025.

Sincerely,

A handwritten signature in black ink, appearing to read "Stuart R. Bell".

Stuart R. Bell
President

Enclosure



THE UNIVERSITY OF ALABAMA

Approving the revised project budget; granting authorization to execute a Construction Contract for the EV Bus and Charging Infrastructure

RESOLUTION

WHEREAS, on February 2, 2024, in accordance with Board Rule 415, The Board of Trustees of The University of Alabama (“Board”) approved the Stage I and Stage II submittals for the Electric Vehicle (“EV”) and Bus Charging Infrastructure project (“Project”) to be located at the Transportation Maintenance Facility on the University Services Campus of the University; and

WHEREAS, the Project will allow for the purchase of electric buses and the purchase and installation of electric bus charging equipment and related infrastructure to support the modernization of the campus transportation system and to support the campus electrification/zero emissions plan with regards to battery and traffic research; and

WHEREAS, the Project will support research in battery technology and performance, electric fleet operations, and charging infrastructure by providing University researchers access to equipment and data in a real-world environment and application; and

WHEREAS, the location for the charging is immediately adjacent to the existing Transit Maintenance Facility and bus parking, and the use is appropriate and consistent for that area of the University Services Campus as the charging will occur off-peak and it will help balance the load on the University’s electric distribution system; and

WHEREAS, Stewart Engineering, Inc., Anniston, Alabama, (“Stewart Engineering”), was engaged by the University to perform due diligence and initial studies for this Project as necessary during the grant application process related to the bus purchases and provided these services at no cost to the University; and

WHEREAS, on February 2, 2024, due to Stewart Engineering’s familiarity and knowledge of the University’s electric distribution grid and existing facilities and specific needs of the EV bus charging stations as well as their understanding of the University’s standards, design principles, and procedures which will facilitate an efficient design process and ensure coordination with the existing infrastructure and systems, the Board approved a waiver of the Consultant Selection Process and authorized the University to utilize Stewart Engineering for design services for this Project; and

WHEREAS, the University negotiated a final design fee for the Project based on 7.2% of the cost of construction with no application of the design fee to Owner Furnished Contractor Installed Equipment, which is a financial benefit to the University; and

WHEREAS, on December 12, 2024, pursuant to Title 39, Public Works provisions of the Code of Alabama, competitive bids were received for Construction and Premier Service Company, Inc. Tuscaloosa, Alabama (“Premier”), was declared the lowest responsible bidder with a base bid amount of \$1,368,769, as referenced on the certified bid tab, for the work related to the Project; and

WHEREAS, the University is requesting approval to award the construction contract to Premier for a total contract amount of \$1,368,769; and

WHEREAS, to reflect the final cost of the Electric Buses, owner furnished equipment, the construction bid results, and the associated changes to soft costs, the University is requesting approval of a Budget Revision from \$9,600,709 to \$10,780,164; and

WHEREAS, the Project location and program have been reviewed and are consistent with the University Campus Master Plan, University Design Standards and the principles contained therein; and

WHEREAS, the Project will be funded from Grant Funds in the amount of \$7,890,065, Center for Advanced Vehicle Technologies funds in the amount of \$180,000, University Central Reserves funds in the amount of \$2,230,644 and Transportation Reserves funds in the amount of \$479,455 for a total of \$10,780,164; and

WHEREAS, the execution and the performance of the Project are subject to the award of the Federal grant, which has now been awarded; and

WHEREAS, the Project will address approximately \$4,000,000, or 42% of the project cost, in campus capital renewal liability through the replacement of eight (8) of the existing bus fleet; and

WHEREAS, the revised budget for the Project is as stipulated below:

BUDGET:		REVISED
Construction	\$	1,368,769
Owner Furnished Charging/Research Equipment	\$	866,148
Owner Furnished Electrical Equipment	\$	308,071
Electric Buses	\$	7,830,192
Security/Access Control	\$	10,000
Telecommunication/Data	\$	10,000
Contingency ¹ (lump sum)	\$	118,150
UA Project Management Fee ² (4.5%)	\$	111,651
Architect/Engineer Fee ³ (7.1%)	\$	97,183
Other ⁴	\$	60,000
Escalation ⁵	\$	0
TOTAL PROJECT COST	\$	10,780,164

¹Contingency is a lump sum amount.

²UA Project Management Fee is based on 4.5% of the cost of Construction, Owner Furnished Charging Equipment (less \$180,000 for Research Equipment), Owner Furnished Electrical Equipment, and Contingency.

³Architect/Engineer Fee is based on 7.1% (updated following bid) of the cost of Construction.

⁴Other expenses include Geotech, Construction Materials Testing, Inspections, Advertising, Printing, and other associated project costs, as applicable.

⁵At the time of Project approval, escalation was based on an anticipated 1% inflation per month through September of 2024 and 0.5% per month thereafter of the subtotal project cost, excluding the cost of the Electric Buses. Therefore, escalation was calculated on a 2% basis for this project based on the anticipated bid date of April 2024 at that time. The amount has been applied to construction as appropriate.

NOW, THEREFORE, BE IT RESOLVED by The Board of Trustees of The University of Alabama that:

1. The Revised Project budget and funding, as stipulated above, are hereby approved.

BE IT FURTHER RESOLVED that Stuart R. Bell, President; Daniel T. Layzell, Vice President for Finance and Operations and Treasurer; or, those officers named in the most recent Board Resolution granting signature authority for the University be, and each hereby are authorized to act for and on behalf of the Board of Trustees to execute the aforementioned contract with Premier Service Company, Inc., Tuscaloosa, Alabama, for this Project in accordance with Board Rule 415.

**EXECUTIVE SUMMARY
PROPOSED CAPITAL PROJECT
BOARD OF TRUSTEES SUBMITTAL**

MEETING DATE: February 6 - 7, 2025

CAMPUS: The University of Alabama, Tuscaloosa, Alabama

PROJECT NAME: EV Bus and Charging Infrastructure

PROJECT NUMBER: TRN-23-3446

PROJECT LOCATION: UA Transportation Maintenance Facility, USC Campus

ARCHITECT: Stewart Engineering, Inc., Anniston, AL

<p>THIS SUBMITTAL:</p> <p><input type="checkbox"/> Stage I</p> <p><input type="checkbox"/> Stage II, Waiver</p> <p><input type="checkbox"/> Campus Master Plan Amendment</p> <p><input type="checkbox"/> Stage III</p> <p><input checked="" type="checkbox"/> Stage IV</p>	<p>PREVIOUS APPROVALS:</p> <p>February 2, 2024</p> <p>February 2, 2024</p>
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PROJECT TYPE	SPACE CATEGORIES	PERCENTAGE	GSF
<input type="checkbox"/> Building Construction			
<input type="checkbox"/> Building Addition			
<input type="checkbox"/> Building Renovation			
<input checked="" type="checkbox"/> Campus Infrastructure			
<input checked="" type="checkbox"/> Equipment			
TOTAL			N/A

BUDGET	Current	Revised
Construction	\$ 1,109,800	\$ 1,368,769
Landscaping	\$ 25,000	\$ 0
Owner Furnished Charging and Research Equipment	\$ 650,000	\$ 866,148
Owner Furnished Electrical Equipment	\$ 0	\$ 308,071
Electric Buses	\$ 7,440,065	\$ 7,830,192
Security/ Access Control	\$ 10,000	\$ 10,000
Telecommunication/Data	\$ 10,000	\$ 10,000
Contingency ¹ (lump sum)	\$ 89,240	\$ 118,150
UA Project Management Fee ² (4.5%)	\$ 84,332	\$ 111,651
Architect/Engineer Fee ³ (7.1%)	\$ 79,906	\$ 97,183
Other ⁴	\$ 60,000	\$ 60,000
Escalation ⁵	\$ 42,366	\$ 0
TOTAL PROJECT COST	\$ 9,600,709	\$ 10,780,164
Total Construction Cost per square foot – N/A		

¹Contingency is a lump sum amount.

²UA Project Management Fee is based on 4.5% of the cost of Construction, Owner Furnished Charging Equipment (less \$180,000 for Research Equipment), Owner Furnished Electrical Equipment, and Contingency.

³Architect/Engineer Fee is based on 7.1% (updated following bid) of the construction cost.

⁴Other expenses include Geotech, Construction Materials Testing, Inspections, Advertising, Printing, and other associated project costs, as applicable.

⁵At the time of Project approval, escalation was based on an anticipated 1% inflation per month through September of 2024 and 0.5% per month thereafter of the subtotal project cost, excluding the cost of the Electric Buses. Therefore, escalation was calculated on a 2% basis for this project based on the anticipated bid date of April 2024. The amount has been applied to construction as appropriate for the contract award submittal.

ESTIMATED ANNUAL OPERATING AND MAINTENANCE (O&M) COSTS:

(Utilities, Housekeeping, Maintenance, Insurance, Other)

Per GSF: gsf x ~\$/sf

\$ N/A

Total Estimated Annual O&M Costs:

\$ *

* The O&M costs for this initiative will be offset by the reduced maintenance realized from the replacement of the aging bus fleet. Diesel fuel costs will be greatly reduced, and electric costs will increase proportionally. The University realizes a significant electric rate benefit over typical commercial electric rates through the rate structure negotiated by the University’s Energy Management group.

The charging stations capture the amount of consumption so that the electric costs for charging the buses can be distinctly captured and accounted for. The buses will also be charged at off-peak periods, helping to balance the load on the system.

FUNDING SOURCE:	
	*Grant Funds \$ 7,890,065
	Center for Advanced Vehicle Technologies \$ 180,000
	University Central Reserves \$ 2,230,644
	Transportation Reserves \$ 479,455
O&M Costs:	University Annual Operating Funds \$ N/A

*Project execution and performance are subject to the award of the approved Federal grant.

NEW EQUIPMENT REQUIRED	
Electrical Equipment	\$686,148
Radios and Software (Research Equipment)	\$180,000
Electric Buses	\$7,830,192*
Total Equipment Costs:	\$8,696,340

*EV Bus Acquisition procurement information is included for reference.

PROJECT SCOPE:
<p>The EV Bus and Charging Infrastructure Project will purchase eight (8) electric buses and buy and install electric distribution infrastructure and charging equipment to support new electric bus charging, assisting in modernizing the campus Crimson Ride bus fleet. This modernization is a foundational stage in the UA Transportation Department’s “Zero-Emission Fleet Transition Plan.”</p> <p>These electric bus chargers will be located at the Transportation Maintenance Facility, adjacent to the existing bus parking area on the University Services Campus for overnight fleet charging.</p> <p>The new electric vehicle charging system and the electric bus fleet will also be utilized by the Alabama Mobility and Power (AMP) Center in multiple electric vehicle Research and Development and workforce training initiatives.</p>

PROJECT STATUS

SCHEMATIC DESIGN:	Date Initiated	September 2023
	% Complete	100%
	Date Completed	November 2023
PRELIMINARY DESIGN:	Date Initiated	November 2023
	% Complete	100%
	Date Completed	February 2024
CONSTRUCTION DOCUMENTS:	Date Initiated	February 2024
	% Complete	100%
	Date Completed	November 2024
BID DATE:	December 12, 2024	

**N/A on Stage I Projects*

RELATIONSHIP AND ENHANCEMENT OF CAMPUS PROGRAMS

This project will enhance existing programs and student enrollment by supporting the modernization of the campus transportation system, Crimson Ride, from a fossil fuel-based (diesel) operation to an electric fleet. This transition will reduce the campus's CO2 emissions, providing a cleaner and quieter academic environment for students and the greater University community.

Having an electric transportation fleet on campus also provides UA researchers access to equipment and data that can assist them in developing technologies that will shape the future of fleet electrification in the United States.

TABULATION OF BIDS



Project Name
EV Bus and Charging
Infrastructure

Bid Due
December 12, 2024 3:00 p.m. local time

Architect/Engineer
Stewart Engineering, Inc.
P. O. Box 2233 / 300 East 7th Street
Anniston, AL 36202
phone: (256) 237-0891
fax: (256) 237-1077

UA Project No.
TRN-23-3219

Bid Location
405 Cahaba Circle
Tuscaloosa, Alabama 35404

FUNDS AVAILABLE: One million, one hundred thirty-four thousand, eight hundred dollars and 00/100 (\$1,134,800.00)
BIDS SHALL BE VALID FOR: Sixty (60) Days
CONSTRUCTION DURATION: Project Completion: June 6, 2025

CONTRACTOR	Premier Service Company, Inc.	Taylor Electrical Contractors, Inc.
		1201 15th Street Tuscaloosa, AL 35401 (205) 752-6332 GC Lic. #19627
Addenda ONE - TWO	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
LICENSE # ON ENVELOPE	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
BONDING COMPANY OR BID DEPOSIT	Old Republic Surety Co.	Travelers Casualty & Surety Co. of America
BASE BID ON PROPOSAL	\$ 1,368,769.00	\$ 1,384,000.00
ENVELOPE ADJUSTMENT	-	-
TOTAL BID	\$ 1,368,769.00	\$ 1,384,000.00

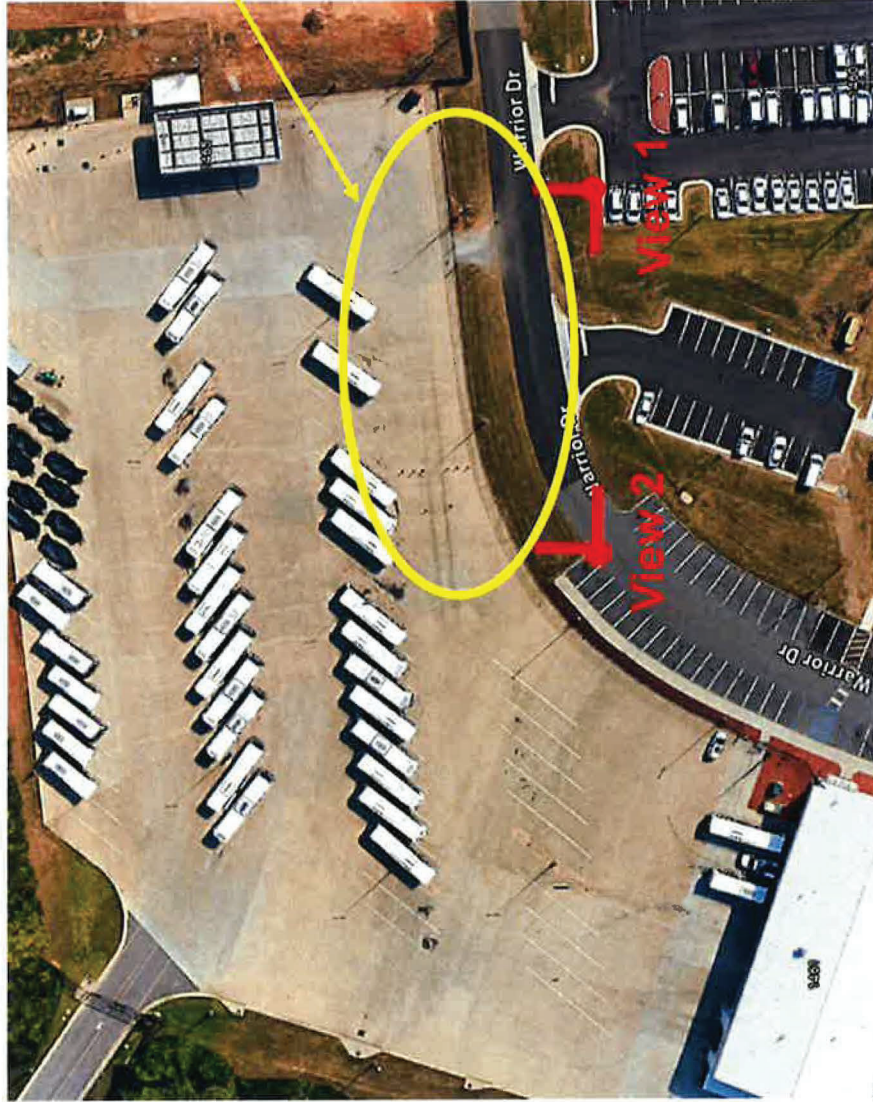
I CERTIFY THAT THIS IS A TRUE AND ACCURATE TABULATION OF THE BIDS RECEIVED ON THE CAPTIONED PROJECT.



 Jennifer A. Patrick, MA
 Contract Specialist II, Construction Contracts & Compliance
 The University of Alabama

EV BUS AND CHARGING INFRASTRUCTURE

Vantage Points



EV BUS AND CHARGING INFRASTRUCTURE

LOCATION MAP

