



PREPARED FOR:
Janetta Greenwood
Fernbank Science Center

PREPARED BY:
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FERNBANK SCIENCE CENTER

Audio-Visual Systems Proposal

RE: Fernbank Science Center AV Systems Proposal

Janetta,

Please review this proposal for AV Systems Integration for the Fernbank Science Center. Thank you again for your consideration of this proposal. TSAV recommends a follow up call to discuss this proposal take place before contracting to solidify any open items for coordination such as location of fixtures, power and infrastructure requirements, and schedule.

Base Scope AV Systems Components & Functionality

System Type 1: Audio System

This system includes two speakers and audio processing equipment to provide sound reinforcement for the zone. The speakers will be installed on the left and right side of the Video Wall. The rack equipment can be collocated with the Video Wall AV Rack Equipment. The volume for these speakers will be controlled at the AV rack location.

AV Contractor Provided Equipment

- A. Two Bose MSA12X or equivalent Powered Speakers
- B. Audio Head End Equipment

Owner Provided Equipment

- A. Audio Content associated with the presentation video.

System Type 2 – Interactive Digital Signage

This system will allow for a user to engage in a touch enabled presentation on a single 65” Portrait mounted video display.

AV Contractor Provided Equipment

- A. 65” 4K Samsung Professional Series LED Displays
- B. Articulating Display Mount over top of Electrical Contractor provided recessed wall box.
- C. Power Conditioner (Micro Format)
- D. HDMI Connection Cable

Owner Provided Equipment

- A. Content Computer and Software License

System Type 3 –136” Direct View Video Wall 1.5mm Pixel Pitch

This system is a 136” Diagonal Direct View Video Wall (1080p Resolution). It can be used to show LARGE FORMAT video content to a user, with an appropriate viewing field of approx. 5’ to up to 30’.

AV Contractor Provided Equipment

- E. 136” Planar MGP Direct View Video Wall
- F. Display Mount
- G. Power Conditioner (Micro Format)
- H. HDMI Connection Cable

Owner Provided Equipment

- B. Content Player and Software License

Work to be Completed Outside TSAV Scope

- Conduit and wall boxes to be specified by TSAV and installed by others.
- Plywood blocking for the video wall to be specified by TSAV and installed by others.
- All wall refinishing and repainting to be performed by others.
- The installed cost of the Audiovisual systems assumes the use of new professional quality equipment with a minimum of One (1) year manufacturer warranty, that is installed by a qualified audiovisual contractor, and provided with closeout documentation (including as-built systems drawings) and a One (1) Year warranty covering installation.
- Power at each location is required and will need to be installed and tested prior to installation.
 - Video wall locations require eight (8) total 120v circuits at each location.
 - Wood backing is required at each location to be installed to the studs by the Fernbank Science Center team.
- TSAV will provide a drawing detailing the infrastructure requirements for the project to be provided by Fernbank Science Center.
- An AV Rack location is required to support these systems that have conditioned air and is within 150’ (ft.) of the Video Wall Location(s).
- Active network components (ethernet switches, wireless access points, servers, server software, etc. typically provided by the owner but necessary for activation of advanced functional aspects of the av systems) are not provided for.

- Content delivery systems are not provided for (I.e. servers, distributed television signals, content computers, content creation, etc.).
- Content creation services are not included.
- Sales Tax is not Included
- The Line Item below listed as Materials/Equipment includes all installation, freight, and admin. services as requested.

Equipment

<u>Model: Description</u>	<u>QTY Totals</u>
Audio Visual Head End - Audio	2
AV Rack and accessories	2
137" Direct View LED Video Wall - NON INTERACTIVE	2
Display Wall Box	1
Steerable Line Array Speaker	4
Large Display Mount	1
65" Touch Enabled Interactive Display	1

Pricing



The following pricing reflects the scope of work described above. We look forward to the possibility of working to match immediate supply chain availability with project requirements. And while extensive effort has been made to provide this scope based on products available at the time of composition, some availability may change and we are well prepared to work with you and your team to navigate associated options.

Base Scope Technology Systems Project Costs:

System Types	Qty	Cost	Extended Cost
Audio System	2	\$11,956.87	\$23,913.74
Entry Interactive LED Display	1	\$7,481.65	\$7,481.65
LED VIDEO WALL	2	\$100,816.50	\$201,633.00
Extended Totals:			\$233,028.39
Contingency: 0%			\$0.00
Materials and Equipment			\$233,028.39

Budgets do not include payment and performance bond costs unless otherwise noted. Not included in this proposal are conduit, raceway, electrical circuits, and any other work to be performed by other trades.

Standard Details and Conditions

Training and Warranty:

It is our policy that every TSAV system includes the training necessary to ensure that our customers get the most out of their new equipment. Included with every TSAV system is 3 hours of on-site training. Also included with every TSAV system is a one-year warranty on all equipment and workmanship.

Systems neglect, abuse, or avoidable user error are not covered under this warranty. And although each individual client's requirements for training are very different, we generally recommend that a portion of that training time be reserved for a review session subsequent to the initial use of the system.

Auxiliary Services

Reasonable overages will not be billed. However, should additional time be required to complete the job due to unforeseen circumstances, change orders, or modifications to the scope of work, the following rates may apply.



Engineering:	\$150/hr
Programming:	\$140/hr
Technicians:	\$120/hr
Service:	\$130/hr
Runners:	\$65/hr
Secretarial:	\$90/hr
Accounting:	\$120/hr

Collection fees are billed at “Engineering” and “Accounting” rates. Holiday time and overtime billed as a result of change orders, modifications, or altered deadlines are billed at 150% of normal fees.

Conditions

TSAV will require full functionality of affected areas during installation. It is expected that reasonable work environment standards will be maintained including the use of the facility’s restrooms, heating and air-conditioning wherever possible, etc.

Availability of Information

It is expected that site technical information be made readily available to the contractor including but not limited to project scheduling, mechanical clearances, carpet and paint colors, union contacts, etc.

Site Access & Working Hours

Proposal provides for work to be performed during normal working hours (8-5 M-F) excluding holiday and weekends. Work will be performed according to the project schedule to be developed upon notice to proceed.

Delays outside of TSAV’s control will result in additional costs. TSAV will require access to the site during working hours. Access through all doors to the facility and any affected rooms or hallways is required. We will also require one reserved parking place as close as possible to the main entrance to the facility. Where access is limited, arrangements must be made for alternate scheduling.

Coordination with other trades

Client assumes some responsibility for some logistics involved in contractor scheduling. Delays due to problems involving other trades will result in billing of additional labor hours.

Unforeseen Hazards

Hazards involving faulty wiring, dangerous structures, or hazardous materials will affect contractor scheduling. Client assumes responsibility for notifying the contractor in cases where potential hazards may exist. Client also understands delays involved in the discovery of potentially hazardous situations.

Use of this document

This document and the recommendations herein constitute a professional design document. TSAV

engineers spend a considerable amount of time compiling recommendations and creating a customized set of recommendations for you, our client. This document is available for use in soliciting competitive bids, in which case the value of this document shall be 10% of the proposed bid or \$1000, whichever amount is greater.

Resolution of dispute

If a dispute arises relating to this agreement, or breach thereof, and if said dispute cannot be settled by negotiation, the parties agree first to try in good faith to settle the dispute by mediation under the Commercial Mediation Rules of the American Arbitration Association before resorting to arbitration, litigation or some other dispute resolution procedure. Guide to Arbitration, American Arbitration Association, New York 212.484.4000)

Force Majeure

Neither party is responsible for any failure to perform its obligations under this contract, if it is prevented or delayed in performing those obligations by an event of Force Majeure. Force Majeure, includes any war (whether declared or not), armed conflict or the serious threat of the same (including but not limited to hostile attack, blockade, military embargo), hostilities, invasion, act of a foreign enemy, extensive military mobilization; civil war, riot, rebellion, revolution, military or usurped power, insurrection, civil commotion or disorder, mob violence, act of civil disobedience; act of terrorism, sabotage or piracy; plague, epidemic, pandemic, outbreaks of infectious disease or any other public health crisis, including quarantine or other employee restrictions; act of authority whether lawful or unlawful, compliance with any law or governmental order, rule, regulation or direction, curfew restriction, expropriation, compulsory acquisition, seizure of works, requisition, nationalization; act of God or natural disaster such as but not limited to violent storm, cyclone, typhoon, hurricane, tornado, blizzard, earthquake, volcanic activity, landslide, tidal wave, tsunami, flood, damage or destruction by lightning, drought; explosion, fire, destruction of machines, equipment, factories and of any kind of installation, prolonged break-down of transport, telecommunication or electric current; general labor disturbance such as but not limited to boycott, strike and lock-out, go-slow, occupation of factories and premises; shortage or inability to obtain critical material or supplies to the extent not subject to the reasonable control of the subject Party ("Force Majeure Event").

1.1 This provision shall become effective only if the Party failing to perform notifies the other party within a reasonable time of the extent and nature of the Force Majeure Event, limits delay in performance to that required by the Event, and takes all reasonable steps to minimize damages and resume performance.

Sincerely,

Jim Hildreth
TSAV