



Project Proposal: Sound System Modernization for Livonia Public Schools

Prepared by: AFP Sound Systems

Client Contacts: Casey Conway, Arnold Muscat, Dusty Hall

Site Visit Date: November 21st 2024 and March 20th, 2025

Proposal Date: April 14, 2025

1. Introduction

AFP Sound Systems is pleased to present this proposal for the complete modernization of the audio systems at Churchill High School, Franklin High School, and Stevenson High School—three facilities within the Livonia Public Schools district. Following our site visits on November 21 and March 20th, we evaluated each venue's current audio setup and identified a number of critical areas for improvement. The existing systems are outdated, uneven in coverage, and in some cases, had components that are no longer functional. These deficiencies limit the impact of announcements and hinder the quality of the experience for spectators, athletes, and staff alike.

We understand the importance of reliable, intelligible, and easy-to-use audio systems in school environments. Our proposal reflects this understanding, offering tailored solutions for each location based on its layout, usage, and acoustic challenges. From large outdoor stadiums to reverb-heavy pools, each design takes into account your unique needs.

2. Project Goals and Approach

The goal of this project is to replace aging and inconsistent systems with modern, robust solutions that provide:

- **Clear, intelligible sound** that reaches all audience and participant areas
- **Even coverage** across large and acoustically difficult spaces
- **Reliable wireless microphone systems** for announcements and events
- **Simple, intuitive controls** that school staff can manage without specialized training



At AFP Sound Systems, we pride ourselves on using the right tools for the job—not simply what's most convenient. That philosophy has guided the designs we've prepared for this project.

3. System Designs by Location

Churchill High School

Football Field

For the football field, we recommend Community R1-94Z horn-loaded speakers. These long-throw units are ideal for wide outdoor spaces and provide crystal-clear speech projection. We'll mount four of these speakers on the home-side light poles, dividing the field into two zones—one focused on the home bleachers and the other covering the field and visitor seating. This zoning ensures even coverage with no dead spots or echoing overlap.

Power and signal will be handled by Crown CDi Series amplifiers, known for their reliability. Audio processing will be managed by a DBX ZonePro 641m unit. Wireless audio will come through Shure's SLXD24D/SM58 handheld systems, offering reliable performance with excellent vocal clarity.

Staff will control the system using a straightforward interface, with individual volume and mute controls for each source—microphones, Bluetooth, and auxiliary devices.

Competition Gym

The gym at Churchill spans three basketball courts, with retractable bleachers extending across the side courts during events. To accommodate this, our design includes a primary line of JBL AWC129 full-range speakers focused on the main bleachers and an additional row positioned over the bleachers to act as a delay line. This configuration ensures that audio remains intelligible whether the bleachers are in or out, and no matter where spectators are seated.

Signal flow, amplification, wireless mic configuration, and control system will follow the same standards as the football field for familiarity and ease of maintenance.

Pool environments are notoriously challenging due to hard surfaces and high reverb. To combat this, we propose using JBL Control 29AV-1 speakers with rotatable high-frequency horns. These speakers will be installed close to the audience seating and walkways to direct sound where it's needed most. The system will also include speakers over the starting block area so swimmers and officials can clearly hear announcements.

As with other venues, we'll include Shure wireless microphones, DBX signal processors, and Crown CDi amplification. Bluetooth and MP3 playback will be supported, and the system will feature user-friendly physical controls.

Franklin High School

Football Field

Similar to Churchill, the Franklin field will use Community R1-94Z speakers, but with an added twist. After speaking with the athletic director, it was clear there's a need to cover the area behind the north end zone. To address this, we'll add a third speaker to the north-side light pole to ensure full coverage.

Audio routing, wireless support, and control will be identical to Churchill for consistency across the district.

Competition Gym

Franklin's gym is configured with central courts and bleachers on either side. To optimize clarity, we'll divide the gym into three audio zones. Zones 1 and 3 will serve the bleachers with focused JBL AWC 129 speakers, while Zone 2 will feature ceiling-mounted JBL AWC159 units aimed directly at the court to ensure coaches, players, and referees all receive clear announcements.

The control interface will allow easy adjustment of each zone, and the system will be fully integrated with Bluetooth and physical input support.

Pool

Franklin's pool space includes a drop ceiling, which gives us the perfect opportunity for a clean ceiling speaker installation. We'll distribute JBL Control 26CT ceiling speakers along the pool deck and bleachers. Two rows of speakers will span the bleacher section, ensuring no area is left out.



We'll install a secure wall-mounted rack in the office, housing the amplification, signal processing, and Bluetooth interface. Staff will operate the system using a simple panel with labeled controls.

Stevenson High School

Football Field

The design here will mirror the approach taken at Churchill and Franklin, with Community R1-94Z horn speakers mounted on home-side poles and split into two coverage zones: one for the bleachers and one for the field and visitor seating. This provides high-fidelity projection for music and speech across the stadium.

Shure wireless microphones, DBX ZonePro processing, and Crown CDi amplification will round out the system, which will also include a straightforward volume control interface for daily use.

During our site visit it was requested that we look into getting audio to the concession stand. We've included a separate system that will receive audio from the pressbox through a Shure wireless point to point setup for reliable signal, a JBL Control 28 speaker, and a rack that lives by the concession stand for ease of access.

Competition Gym

At Stevenson, the gym system will be broken into three audio zones, served by JBL AWC129 and JBL 159 speakers. The bleacher zones will receive directional coverage, while the court zone will be covered from above.

The entire system will be installed into a AV rack located in a secure closet—providing a fully integrated solution that eliminates the need for setup or teardown before events. Additionally, per the athletic director's request, we'll include a CD player in the system for playback flexibility.

Pool

Stevenson's pool will follow a similar approach to Franklin's, utilizing the drop ceiling to house JBL Control 26CT ceiling speakers. These will be distributed evenly over the deck and bleacher areas, providing strong, intelligible sound throughout the space.

All equipment will be rack-mounted and professionally installed, and the control system will be consistent with the other schools—easy to operate and clearly labeled.



4. Installation Scope and Responsibilities

AFP Sound Systems will provide and install all audio components, including speakers, processors, amplifiers, microphones, racks, cabling, and control systems. We will handle all physical installation, tuning, and programming.

Removal and Discard of old equipment where appropriate.

Our responsibilities include:

- Delivery and installation of equipment
- All system cabling, programming, and commissioning
- End-user training and support
- Post-installation documentation

The school district is responsible for:

- Providing power
 - Handling permits or electrical upgrades (if necessary)
-

5. Testing & Training

Every system will be tested upon installation. We'll verify signal flow, calibrate EQ and delay, and ensure even coverage using both speech and music material.

Once complete, we'll host a hands-on training session for each location. Staff will learn how to operate the system, switch between inputs, adjust levels, and manage any day-to-day troubleshooting. All documentation, diagrams, and labels will be included for future reference.



6. Budget Summary

School	Venue	Estimated Cost
Churchill High School	Football Field	\$38,707.23
	Competition Gym	\$37,366.69
	Pool	\$19,741.63
Franklin High School	Football Field	\$45,351.78
	Competition Gym	28,500.48
	Pool	\$18,902.99
Stevenson High School	Football Field	\$44,325.08
	Competition Gym	\$27,974.68
	Pool	\$18902.99
Subtotal		\$279,773.57
5% Multi-School Discount on Equipment		– \$13,988.68
Total Project Cost		\$256,784.89

This estimate includes equipment, installation, shipping, configuration, and training. A detailed itemized breakdown can be provided upon request. The estimate is only good for 30 days from receipt, before it is subject to market adjustments. An equipment list has been attached for your convenience.

7. Terms

A 50% deposit is required to secure equipment, materials, and scheduling. An additional 25% payment is due upon commencement of installation. The remaining balance (25%) is due upon project completion.



8. Exclusions

This proposal does **not** cover:

- High-voltage electrical work
 - Permitting and inspection fees (if applicable)
 - Ongoing service or maintenance beyond the included 90-day support period
 - Trenching on football fields – the planned installation includes wiring suspended from bleachers to home side lighting poles
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9. Conclusion

We appreciate the opportunity to partner with Livonia Public Schools in bringing professional-grade sound systems to your athletic venues. These upgrades will significantly enhance the experience for everyone involved—athletes, coaches, staff, and the greater community. With modern, dependable audio systems, clear announcements and impactful events will become the new standard across all three schools.

We're ready to move forward when you are. If you'd like to review the full budget or need a printable version of this proposal, just let us know—we're here to help.

Prepared By:

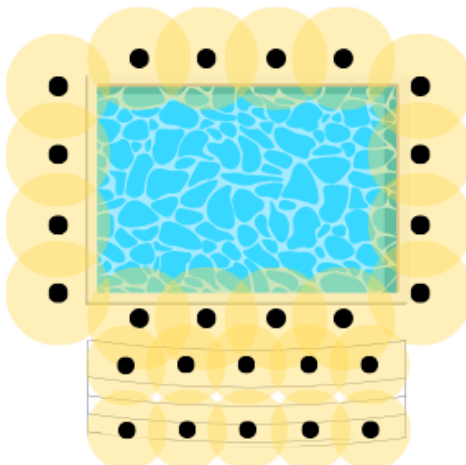
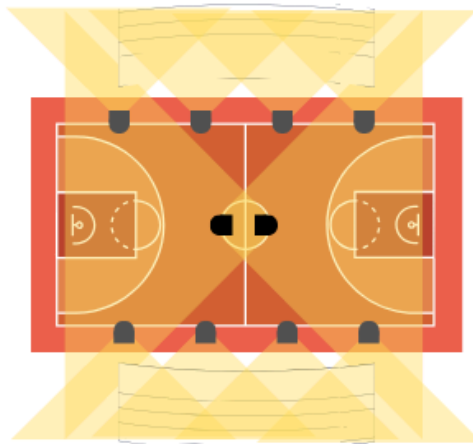
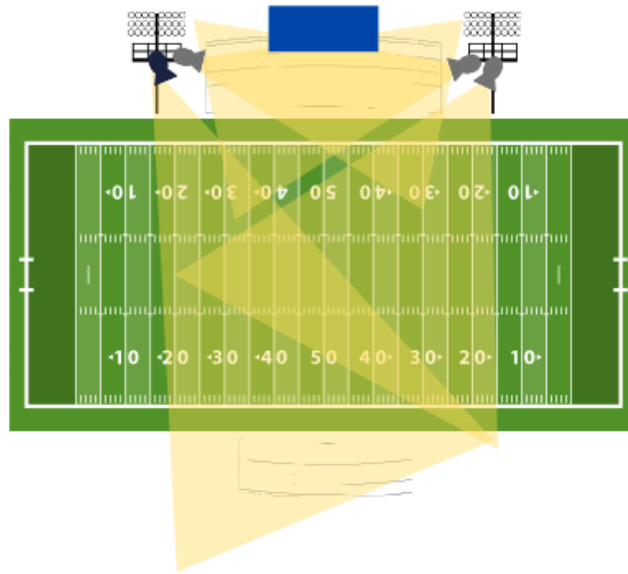
AFP Sound Systems

James Gietzen / Sean Weyers

248.669.9900

James@afpsoundsystems.com

Speaker Layout / Coverage



Equipment list

Churchill Football Field		
Item	Description	Quantity
Biamp R1-94Z 12" 2-Way Horn-Loaded Speaker with 80x35 Dispersion, Weather Resistant, Gray	The Community R1-94Z two-way full-range loudspeaker system is engineered to provide quality full-range sound projection in a variety of outdoor and indoor applications. Its wide range, smooth frequency response and high efficiency ensures both high fidelity music reproduction and superb projection of clear intelligible speech with very low distortion. The R1 loudspeakers are available in two versions. The standard version is weather-ready, with a WeatherStop™ grille and light grey finish. The BNG version, with black exterior and no grille, is more suitable for indoor applications. A weather-resistant mounting yoke is included.	4
Biamp TRC400 Line Transformer for 70V, 100V and 140V, 400W	The TRC400 is a 400 Watt line transformer used to step down the voltage and impedance of "constant voltage" audio distribution lines to the voltage level and impedance required by loudspeakers. It can also be used to step up the voltage of an amplifier to the voltage needed for a distribution line. The TRC400 has three output taps. The taps allow individual loudspeakers to be adjusted to operate at the same or different power levels compared to other loudspeakers in a system on the distribution line. The input taps on the TRC400 allow it to be used with 70V, 100V, and 140V distribution systems. The output	4

	taps of the TRC400 are designed to drive either 8 ohm or 4 ohm loudspeakers.	
Crown CDi 4000 2-Channel Power Amplifier, 1200W at 4 Ohms, 70 / 140V	The CDi 4000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 1200 W of stereo power at 4 Ω , and 70 V/140 V operation. The unit's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available	2
Adaptive Technologies Group PM-24-6UP-G	The ATM Flyware PoleStar PM-24-6UP-G UniFrame is a complete mounting solution for outdoor loudspeakers. Its design combines the attributes of the PoleStar stainless "a-la-carte" version into just two models produced in steel and then galvanized to an outdoor weather rating.	4
System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing	6

	identification with connection to the processing device.	
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		
Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1

Shure MX412D/C	The MX412D/C from Shure is a 12" Microflex Gooseneck Condenser Microphone with cardioid polar pattern and base for desktop use. It features an attached XLR preamp, shock and flange mount, and snap-fit foam windscreen. Shure Microflex® Standard Gooseneck microphones bring a whole new meaning to the word flexible with a fully adjustable gooseneck. Designed for easy replacement and available in cardioid, supercardioid and omnidirectional polar patterns, the interchangeable cartridges offer wide frequency response and accurate sound reproduction for a wide variety of applications, such as houses of worship, courtrooms and conference centers. Plus, the condenser cartridges fit every model in the Microflex product line for enhanced convenience and consistent sound.	1
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
10-2 SJOOW cable		1000ft
Churchill Gym		
Item	Description	Quantity

JBL AWC129 12" 2-Way All-Weather Coaxial Speaker	The AWC129 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system from JBL which is ideal for speech and music in a wide variety of applications. It consists of a high-power coaxial 12" (300mm) low-frequency (LF) driver and 1" (25mm) high-frequency (HF) compression driver. It comes in your choice of Black or Light Gray.	16
JBL AWC159 15" All Weather Compact Coaxial Speaker	The JBL AWC159 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system which is ideal for speech and music in a wide variety of applications, including sports facilities, racetracks, stadiums, fairgrounds, rodeos, skating rinks, themed entertainment venues, cruise ships, water parks, outdoor background music/paging systems, swimming pools, and a wide variety of other outdoor or indoor venue types.	2
Crown CDi 1000 2-Channel Power Amplifier, 500W at 4 Ohms, 70V/140V	The CDi 1000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 500 W of stereo power at four ohms, and 70 V/140 V operation. The CDi 1000's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1
Crown CDi 4000 2-Channel Power Amplifier, 1200W	The CDi 4000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 1200 W of stereo power at 4 Ω , and 70 V/140 V operation. The unit's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes	2

	crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	
System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	7
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1

Other input Devices		
Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Input Panel	Custom pannel	1
Other bluetooth for external antennae?		
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic CWR-12-21SD4 2' Cabling Wall Mount Rack, 21D	The Data Wall Rack features 12-24 threaded rack rails and a rear latch lock. Tailored for structured cabling, the CWR is a versatile solution for mounting various patch panels and voice/data equipment, ideal for limited floor and wall space.	1
West Penn 25292B 500 500' 20AWG 2-Conductor Stranded Plenum Audio Cable	Indoor within ducts, plenums and other spaces used for environmental air for:	1

Gator GRW-DRW2 2RU, 14.2" Deep Lockable Rack Drawer	The Gator Cases Rackworks GRW-DRW2 is a 2RU lockable rack drawer with a 14.2" depth and features solid steel construction	1
RDL DB-BT1A Wall-Mounted Bluetooth® Audio Format-A Interface	The D SERIES-BT1A modules are Bluetooth audio receiving modules compatible with RDL® Format-A twisted pair receivers. When paired with a compatible Bluetooth enabled device, the module receives stereo audio from the Bluetooth source. The stereo signal is sent through two Format-A pairs to any RDL Format-A receiver. A stereo/mono switch set by the installer permits summed mono audio to be sent over one switch-selected pair to the Format-A receiver.	1
RDL TX-TPR2A Active Single-Pair Receiver Format A	Add the flexibility of RDL's TX-TPR2A line-level receiver to your next install. The two-pair audio receiving module is compatible with RDL Format-A twisted pair products. Audio is input via an RJ45 jack that feeds a pair of terminal block outputs, sending balanced or unbalanced signals to the desired destination. The receiver features bridging inputs, allowing for the connection of up to nine additional Format-A twisted pair receiver outputs when connected via their Loop Out jacks, offering wide flexibility in system design. The TX-TPR2A may be powered directly from a 24 Vdc power supply. Local power connected to the module is also fed to all modules connected to the INPUT RJ45 jack. The TX-TPR2A may be remotely powered through the twisted pair cable from any other module, signal distributor, or RDL power inserter connected to the same twisted pair cable. A power supply is not included.	1

Churchill Pool		
Item	Description	Quantity
JBL Control 29AV-1 8" 2-Way Monitor Speaker	The JBL Control 29AV-1 provides improved voicing for extremely flat, high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker. The rotatable high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Consistent coverage ensures excellent sound character throughout the listening area. Moderate magnetic shielding allows use of the speaker as close as 9" to video monitors. The top-quality line distribution transformer, designed for minimal insertion loss and reduced saturation, allows use of either 70V or 100V distributed speaker lines. In bypass position, the 8 ohm impedance allows use of multiple speakers on a loudspeaker line.	14
Crown CDi 1000 2-Channel Power Amplifier	The CDi 1000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 500 W of stereo power at four ohms, and 70 V/140 V operation. The CDi 1000's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	2
JBL MTC-29UB U-Bracket for Control 29AV	JBL's MTC-29UB is an optional U-bracket designed for use with the Control 29AV loudspeaker. The U-bracket allows installation of the enclosure to flat sturdy surfaces when the included InvisiBall Mounting Structure is not appropriate. The MTC-29UB is	14

	constructed of 11 gauge steel (0.12" thick), and is finished in polyester-based black powder coating.	
System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	7
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		

Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic UD2 2RU Sliding Shelf / Rack Drawer	Drawer contents will always remain inside with the fully enclosed design of our UD series rackmountable utility drawers. Full extension ball bearing slides smoothly extend a full 14" to reveal inside dimensions measuring 15 7/8 wide by 14 1/2" deep. Storage height is only 1/2 less than the actual racking height. Each model comes with a face mounted drawer pull. A user-installed latch and keylock are optionally available. Black powder coat finish.	1

West Penn 25292B 500 500' 20AWG 2-Conductor Stranded Plenum Audio Cable	Indoor within ducts, plenums and other spaces used for environmental air for:	500ft
Franklin Football Field		
Item	Description	Quantity
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Biamp TRC400 Line Transformer for 70V, 100V and 140V, 400W	The TRC400 is a 400 Watt line transformer used to step down the voltage and impedance of "constant voltage" audio distribution lines to the voltage level and impedance required by loudspeakers. It can also be used to step up the voltage of an amplifier to the voltage needed for a distribution line. The TRC400 has three output taps. The taps allow individual loudspeakers to be adjusted to operate at the same or different power levels compared to other loudspeakers in a system on the distribution line. The input taps on the	4

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Adaptive Technologies Group PM-24-6UP-G	The ATM Flyware PoleStar PM-24-6UP-G UniFrame is a complete mounting solution for outdoor loudspeakers. Its design combines the attributes of the PoleStar stainless "a-la-carte" version into just two models produced in steel and then galvanized to an outdoor weather rating.	5
Biamp R.5COAX66T 12" 2-Way Full Range Coaxial Speaker with Transformer, Weather Resistant	Community's R.5COAX-66T high fidelity, two-way, full-range loudspeaker system is engineered to provide quality full-range sound in a variety of outdoor and indoor applications. Its wide range, smooth frequency response and high efficiency ensure both high fidelity music reproduction and superb projection of clear intelligible speech with very low distortion. Five year limited warranty.	1
System Processing		

DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	6
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Middle Atlantic EWR-16-17 16SP Wall Mount Rack at 17" Depth		1
10-2 SJOOW cable		1000ft
Franklin Gym		
Item	Description	Quantity
JBL AWC129 12" 2-Way All-Weather Coaxial Speaker	The AWC129 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system from JBL which is ideal for speech and music in a wide variety of applications. It consists of a high-power coaxial 12" (300mm) low-frequency (LF) driver and 1" (25mm) high-frequency (HF) compression driver. It comes in your choice of Black or Light Gray.	8
JBL AWC159 15" All Weather Compact Coaxial Speaker	The JBL AWC159 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system which is ideal for speech and music in a wide variety of applications, including sports facilities, racetracks, stadiums, fairgrounds, rodeos, skating rinks, themed entertainment venues, cruise ships, water parks, outdoor background music/paging systems, swimming pools, and a wide variety of other outdoor or indoor venue types.	2

Crown CDi 1000 2-Channel Power Amplifier, 500W at 4 Ohms, 70V/140V	The CDi 1000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 500 W of stereo power at four ohms, and 70 V/140 V operation. The CDi 1000's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1
Crown CDi 4000 2-Channel Power Amplifier, 1200W	The CDi 4000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 1200 W of stereo power at 4 Ω , and 70 V/140 V operation. The unit's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1
System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet	7

	away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		
Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1

Tascam CD-RW900SX CD Recorder/Player	Tascam's CD-RW900SX is a professional CD recorder and player with powerful features that make it an ideal choice for final mastering, dubbing, and archiving audio. Digital and analog input trim afford precise control over critical front-end levels allowing you to avoid distortion. Four selectable track division functions and integrated sample rate conversion give you the versatility required for any studio application. The CD-RW900SX also functions as a commercial-grade CD player. Housed in a rack-ready and rugged enclosure with shockproof memory, the unit is well suited to music and dialog playback for industrial facilities, retail and business applications, house of worship, retail environments, and more. The CD-RW900SX was designed for constant use without fail. Get yours today and book those extra sessions!	1
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic EWR-16-17 16SP Wall Mount Rack at 17" Depth		1
West Penn 25292B 500 500' 20AWG 2-Conductor Stranded Plenum Audio Cable	Indoor within ducts, plenums and other spaces used for environmental air for:	500ft

Gator GRW-DRW2 2RU, 14.2" Deep Lockable Rack Drawer	The Gator Cases Rackworks GRW-DRW2 is a 2RU lockable rack drawer with a 14.2" depth and features solid steel construction	1
Franklin pool		
Item	Description	Quantity
PA		
JBL Control 26CT 6.5" Coaxial Ceiling Speaker, 70 V / 100 V	A powerhouse ceiling speaker from JBL, the Control 26CT consists of a coaxially-mounted 6.5" woofer and ¾" titanium-coated tweeter, enabling it to deliver high sound-level over a wide coverage area, thanks to its high power handling, wide frequency response, and low distortion. JBL's exclusive SonicGuard overload protection allows higher operational levels and improved system reliability. It includes a multitap transformer for a 70 V or 100 V line distribution system, and comes packaged with grille, backcan and tile rails for quick installation.	26
Crown CDi 2000 2-Channel Power Amplifier	The CDi 2000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 800 W of stereo power at 4 Ω, and 70 V/140 V operation. The amplifier's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1

System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	7
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		



Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic EWR-16-17 16SP Wall Mount Rack at 17" Depth		1
West Penn 25292B 500 500' 20AWG 2-Conductor Stranded Plenum Audio Cable	Indoor within ducts, plenums and other spaces used for environmental air for:	500ft
Stevenson Football Field		

Item	Description	Quantity
PA		
Biamp R1-94Z 12" 2-Way Horn-Loaded Speaker with 80x35 Dispersion, Weather Resistant, Gray	The Community R1-94Z two-way full-range loudspeaker system is engineered to provide quality full-range sound projection in a variety of outdoor and indoor applications. Its wide range, smooth frequency response and high efficiency ensures both high fidelity music reproduction and superb projection of clear intelligible speech with very low distortion. The R1 loudspeakers are available in two versions. The standard version is weather-ready, with a WeatherStop™ grille and light grey finish. The BNG version, with black exterior and no grille, is more suitable for indoor applications. A weather-resistant mounting yoke is included.	4
Biamp TRC400 Line Transformer for 70V, 100V and 140V, 400W	The TRC400 is a 400 Watt line transformer used to step down the voltage and impedance of "constant voltage" audio distribution lines to the voltage level and impedance required by loudspeakers. It can also be used to step up the voltage of an amplifier to the voltage needed for a distribution line. The TRC400 has three output taps. The taps allow individual loudspeakers to be adjusted to operate at the same or different power levels compared to other loudspeakers in a system on the distribution line. The input taps on the TRC400 allow it to be used with 70V, 100V, and 140V distribution systems. The output taps of the TRC400 are designed to drive either 8 ohm or 4 ohm loudspeakers.	4

Crown CDi 4000 2-Channel Power Amplifier, 1200W at 4 Ohms, 70 / 140V	The CDi 4000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 1200 W of stereo power at 4 Ω , and 70 V/140 V operation. The unit's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available	2
Adaptive Technologies Group PM-24-6UP-G	The ATM Flyware PoleStar PM-24-6UP-G UniFrame is a complete mounting solution for outdoor loudspeakers. Its design combines the attributes of the PoleStar stainless "a-la-carte" version into just two models produced in steel and then galvanized to an outdoor weather rating.	4
System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing	6

	identification with connection to the processing device.	
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		
Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1

Shure MX412D/C Cardioid Gooseneck Mic with Desktop Base	The MX412D/C from Shure is a 12" Microflex Gooseneck Condenser Microphone with cardioid polar pattern and base for desktop use. It features an attached XLR preamp, shock and flange mount, and snap-fit foam windscreen. Shure Microflex® Standard Gooseneck microphones bring a whole new meaning to the word flexible with a fully adjustable gooseneck. Designed for easy replacement and available in cardioid, supercardioid and omnidirectional polar patterns, the interchangeable cartridges offer wide frequency response and accurate sound reproduction for a wide variety of applications, such as houses of worship, courtrooms and conference centers. Plus, the condenser cartridges fit every model in the Microflex product line for enhanced convenience and consistent sound.	1
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic EWR-12-17 12SP Wall Mount Rack at 17" Depth	The Middle Atlantic Products EWR-12-17 is an economical solution for smaller systems, this pivoting, sectional wall cabinet provides unparalleled quality at an aggressive price and is ideal for use in both secured and unsecured areas.	1
10-2 SJOOW cable		1000ft

Wireless Audio Transmission system		
Shure SBC-DC DC Volt Adapter	DC volt adapter connects a PS43 Power Supply to an SB900B-compatible bodypack.	1
Shure P9TRA+425CL In-Ear Wireless System	PSM®900 Personal Monitor Systems offer superb audio quality, robust RF performance, and category-leading features, including CueMode, which allows the monitoring of different mixes with the touch of a button. Precision front-end RF filtering significantly reduces dropouts, and the enhanced digital stereo encoder provides excellent stereo separation and audio clarity.	1
Shure PS43US Replacement 15 V In-Line Power Supply	Shure's PS43US is a 15 VDC replacement in-line power supply designed for use with various Shure wireless receivers. It adheres to energy-efficient power standards and features 2 onboard mounting tabs for easy installation.	1
Shure PA805SWB Directional Antenna	The Shure PA805SWB is a directional antenna designed for use with Shure's PSM Wireless systems and offers increased range and reduced interference as compared to omnidirectional 1/2-wave antennas. The PA805SWB can be mounted on a microphone stand or mounted to a wall using the integral swivel adapter bracket. This wide-band antenna operates in the 470 MHz - 952 MHz frequency range and ships with a 10-foot 50-Ohm BNC cable.	1

Lectrosonics 21770 Male SMA to Female BNC Coaxial Adapter for Antennas	The Lectrosonics 21770 is a male SMA to female BNC coaxial adapter. It adapts antennas with male BNC connectors to SMA jacks.	1
One For All 17421	Amplified outdoor Antenna w/ mount	1
plastic antenna cover for shure PA805S		
Concessions Stand		
JBL Control 28-1 8" 2-Way Indoor/Outdoor Install Speaker	The JBL® Control® 28-1 is an 8" 2-way indoor/outdoor speaker that offers wide and consistent coverage, rich sonic character, versatile mounting options, and a modern design that will fit with a wide range of decors. This speaker is an excellent choice for many different applications—just take a look at the "Applications" section below	1
JBL MTC-28UB-1 U-Bracket	JBL's MTC-28UB-1 U-bracket mounts JBL Control 28-1 or Control 28-1L surface-mount loudspeakers to walls, decks, and ceilings while providing swiveling capability. Available in Black or White.	1
Crown CDi 1000 2-Channel Power Amplifier	The CDi 1000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 500 W of stereo power at four ohms, and 70 V/140 V operation. The CDi 1000's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP	1

	includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	
Middle Atlantic HPM-4-915 4SP HPM Series Rack with 9-15" Adjustable Depth	Middle Atlantic's HPM-4-915 Hinged Panel Mount provides simple and straightforward wall mounting of components and can also be rackmounted to any 19" open frame rack. The hinges open to provide rear access to mounted components. Rack screws and hook and loop fasteners are included.	1
Furman M-8X2 15A Power Conditioner with 8 Outlets	From Furman, the M-8X2 Merit Series Power Conditioner is a cost effective AC power solution for any rack mount system. Install an M-8x2 in to the top slot of your rack, eight rear panel switched outlets will power up and protect all your equipment up to a 15-amp load. Designed for applications where lights are not required, this unit is ideal for instrument rigs, DJ equipment, recording, and pro audio.	1
Stevenson Gym		
Item	Description	Quantity
PA		
JBL AWC129 12" 2-Way All-Weather Coaxial Speaker	The AWC129 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system from JBL which is ideal for speech and music in a wide variety of applications. It consists of a high-power coaxial 12" (300mm) low-frequency (LF) driver	8

	and 1" (25mm) high-frequency (HF) compression driver. It comes in your choice of Black or Light Gray.	
JBL AWC159 15" All Weather Compact Coaxial Speaker	The JBL AWC159 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system which is ideal for speech and music in a wide variety of applications, including sports facilities, racetracks, stadiums, fairgrounds, rodeos, skating rinks, themed entertainment venues, cruise ships, water parks, outdoor background music/paging systems, swimming pools, and a wide variety of other outdoor or indoor venue types.	2
Crown CDi 1000 2-Channel Power Amplifier, 500W at 4 Ohms, 70V/140V	The CDi 1000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 500 W of stereo power at four ohms, and 70 V/140 V operation. The CDi 1000's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1
Crown CDi 4000 2-Channel Power Amplifier, 1200W	The CDi 4000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 1200 W of stereo power at 4 Ω , and 70 V/140 V operation. The unit's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1

System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	7
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		

Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic EWR-16-17 16SP Wall Mount Rack at 17" Depth		1
West Penn 25292B 500 500' 20AWG 2-Conductor Stranded Plenum Audio Cable	Indoor within ducts, plenums and other spaces used for environmental air for:	500ft
Gator GRW-DRW2 2RU, 14.2" Deep Lockable Rack Drawer	The Gator Cases Rackworks GRW-DRW2 is a 2RU lockable rack drawer with a 14.2" depth and features solid steel construction	1

Stevenson Pool		
Item	Description	Quantity
PA		
JBL Control 26CT 6.5" Coaxial Ceiling Speaker, 70 V / 100 V	A powerhouse ceiling speaker from JBL, the Control 26CT consists of a coaxially-mounted 6.5" woofer and ¾" titanium-coated tweeter, enabling it to deliver high sound-level over a wide coverage area, thanks to its high power handling, wide frequency response, and low distortion. JBL's exclusive SonicGuard overload protection allows higher operational levels and improved system reliability. It includes a multitap transformer for a 70 V or 100 V line distribution system, and comes packaged with grille, backcan and tile rails for quick installation.	26
Crown CDi 2000 2-Channel Power Amplifier	The CDi 2000 is a professional-grade power amplifier designed and built for installed sound applications. It's rugged and lightweight, with two channels, 800 W of stereo power at 4 Ω, and 70 V/140 V operation. The amplifier's intuitive front-panel LCD screen allows quick, easy configuration. Onboard DSP includes crossovers, EQ filters, delay, and output limiting, with up to 20 user-defined presets available.	1

System Processing		
DBX ZonePro 641m 6x4 Digital Zone Processor	With 6 inputs and 4 outputs the dbx ZonePRO® 641m provides flexible signal routing, powerful DSP processing and multiple control interfaces for commercial audio applications	1
DBX ZC-2 Zone Controller with Volume and Mute, for Driverack	The ZC-2 remote device provides computer programmable rotary potentiometer and push-button volume control and muting for the DriveRack 220i, 260, 4800/4820, and ZonePRO products. It's single gang in size and can be wall mounted up to 1000 feet away from your device, connected via Cat5 cable. It has DIP switches allowing identification with connection to the processing device.	7
Lowell D8P-ID-3 Decorator Rack Panel, 3 Rack Unit, 8 Devices	The D8P-ID-3 is a 19" (3U) steel rackmount panel with eight punched openings to hold up to eight (1-gang) Decora® style devices, and a PocketIDTM label area. The panel uses minimal rack space while providing an organized solution for mounting and identifying low-voltage devices in the front of the rack. It includes a rear lacing flange for wire management, hardware, and a mounted polycarbonate overlay with clear Pocket-IDTM area for labels. Smooth, semi-gloss, black epoxy finish. Order device controls and filler plates separately.	1
Other input Devices		



Shure SLXD24D/SM58 Dual Wireless System with 2 SLXD2/SM58	The SLXD24D/SM58 features two legendary SM58 cardioid dynamic microphone capsules on top of the SLXD2 handheld wireless transmitters.	1
Technical Pro BLUEDECK-2 Rackmount Bluetooth Audio Receiver	With its sleek design and incredible range, Technical Pro's BLUEDECK Bluetooth® Audio Receiver is designed to fit in the tightest of spaces and built with the same long lasting design that you can expect from the engineers at Technical Pro.	1
Input Panel	Custom pannel	1
Misc.		
Furman M-8S 15A Power Sequencer	From Furman, the Merit M-8S Power Sequencer is a cost-effective AC power solution for any rack mount system. Install an M-8S in your rack, eight outlets in the rear panel will power up in sequence and protect equipment up to a 15-amp load.	1
Middle Atlantic EWR-16-17 16SP Wall Mount Rack at 17" Depth		1
West Penn 25292B 500 500' 20AWG 2-Conductor Stranded Plenum Audio Cable	Indoor within ducts, plenums and other spaces used for environmental air for:	500ft