SOLUTIONZ

Your Business…
Better

The value of face-to-face technology isn't in question.
The only question is why isn't your organization utilizing it
to do everything better?

Monday, March 18, 2024
Proposal prepared by
Solutionz, Inc.
For

NSBSD

Contact:
Brian Tribble
Executive Account Manager AK, OR, WA
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404-323-4975

CORPORATE INFORMATION

Locations
- **Corporate Headquarters: 1029 N. Swarthmore Ave, Pacific Palisades, CA 90272**
- **Service Headquarters: 1215 S Mount Vernon Ave, Williamsburg, VA 23185**
- **Pasadena, CA Office: 625 Fair Oaks Avenue, Suite 260, South Pasadena, CA 91030**
- **Mickleton, NJ Office: 414 Southgate Court, Mickleton NJ 08056**
- **Philadelphia, PA Office: 140 Quaker Lane, Malvern, PA 19355**
- **Washington D.C. Office: 11800 Baltimore Ave, Suite 113, Beltsville, MD 20705**
- **Buford, GA Office: 1880 Enterprise Drive, Buford, GA 30518**
- **Atlanta, GA Office: 120 Interstate North Pkwy East Bldg 300, Suite 314, Atlanta, GA 30339**
- **Charlotte, NC Office: 5100 Old Pineville Rd. Charlotte, NC 28217**
- **Greensboro, NC Office: 309 Gallimore Dairy Road, Suite 108, Greensboro, NC 27409**
- **West Columbia, SC Office: 101 Corporate Blvd Suite 106, West Columbia, SC 29169**
- **Greenville, SC Office: 1029 Thousand Oaks Blvd, Greenville, SC 29607**
- **Denver, CO Office: 4949 Van Gordon St., Wheat Ridge, CO 80033**
- **McLean, VA Office: 7900 Westpark Drive, Suite T610, McLean, VA 22102**
- **La Mirada, CA Office: 16751 Knott Avenue, La Mirada, CA 90638**
- **San Diego, CA Office: 5939 Darwin Court, #110, Carlsbad, CA 92008 USA**
- **San Francisco, CA Office: 5159 Commercial Circle, Unit A., Concord, CA 94520 USA**
- **Phoenix, AZ Office: 1215 S Park Lane, Suite 4/5, Tempe, AZ 85281 USA**
- **Portland, OR Office/Warehouse: 2340 SE Gladstone Portland OR 97202**

Company Contacts

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Kylee Wald
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Email: kwald@solutionzinc.com

NAICS Codes

238210 Communication equipment installation
334290 Other Communications Equipment Manufacturing
334310 Audio & Video Equipment Manufacturing
423430 Computer Peripheral Equipment & Software Merchant Wholesalers
423440 Other Commercial Equipment Merchant Wholesales
517110 Wired Telecommunications Carriers
517911 Telecommunications Resellers
517919 All Other Telecommunications
541330 Engineering Services
514511 Custom Computer Programming Services
541990 All Other Professional, Scientific & Technical Services
881213 Communication Equipment Repair & Maintenance
541511 Custom Computer Programming Services
541512 Computer Systems Design Services
541513 Computer Facilities Management Services
541519 Other Computer Related Services
541611 Administrative & General Management Consulting Services

ABOUT SOLUTIONZ

Solutionz delivers the most reliable, comprehensive, and best-in-class audio visual systems that empower the way you do business. We are integrators, technologists, engineers, experts, support technicians, designers and trusted friends all committed to helping you do business…better.

Founded in 2002, Solutionz has been consistently providing end-to-end A/V solutions. As the industry has continued to evolve, so have our service offerings through a series of strategic acquisitions. Through these acquisitions, we have over six decades of combined low-voltage experience, stronger partnerships and a nationwide presence to better serve any organization, no matter the size or budget.

As a top tier partner of the nation's leading A/V manufacturers (Polycom, Cisco, Crestron, AMX/Harman, Extron, Biamp – to name just a few) and through our specialized service offerings (Integrated Maintenance, Cloud-based Solutions, Managed Services, Bridging Services, Cybersecurity, and Grant Program Services) we successfully meet the needs of Fortune 500 companies, law offices, health care providers, government agencies, education institutions, and more. Solutionz is actively adding businesses to our portfolio to maintain our dominance within the industry and to grow to be the #1 systems integrator in the nation.

Solutionz was named Commercial Integrator's 2019 "Integrator of the Year" and ranked 4th on SCN's Top 50 Systems Integrators list for 2022. Our core strengths include:

- **Audiovisual systems integration**
- **Telecommunications**
- **Infrastructure cabling**
- **Premise security**
- **Information technology services**
- **Complete post-installation support and service**
- **Cybersecurity**
- **Large-scale low voltage installations, new construction and renovation projects**

Mergers & Acquisitions

- **Spinitar – 2022**
- **Video Systems Group, Inc – 2022**
- **Total Video Products – 2021**
- **Unified Technology Systems – 2019**
- **Judge Audio Visual Systems – 2019**
- **Quintron Systems, Inc – 2018**
- **The Presentation Source – 2018**
- **Summit Systems, Inc – 2017**
- **RTS Unified Communications – 2016**

Awards

- SCN 4th Largest AV Integrator (2022)
- Los Angeles Business Journal 17th Largest Minority Owned Business (2020)
- NSCA Excellence in Business Award (2020)
- Commercial Integrator of the Year (2019)

MBE Classification

We are a minority business, Hispanic American owned enterprise.

Certifications and Accreditations

We are committed to the proficiency and education of our team so we can continue to deliver the expertise our clients know and deserve (our list of certifications). Many of our employees have AVIXA CTS, CTS-I and CTS-D certifications along with BICSI, OSHA, Crestron, DMC-D, DMC-E & DMC-T & Extron and more.

Financial

Financially, Solutionz is exceptionally strong, with sales volume exceeding $150 million and increasing every quarter since our creation. Owned by founder Kirk Fernandez, Solutionz has stable resources to execute on projects across the country, regardless of size.

Our financial strength and continuity is reflected in our growing client base of numerous Fortune 100 companies, local, state, and federal government agencies, hospitals, law firms, the many branches of the U.S. Armed Forces, the US judicial court system, and a broad array of educational institutions. Solutionz enjoys solid relationships with manufacturing partners and is actively investing in the future.

WHY CHOOSE US?

Team of Experts
Solutionz brings a full team of technology experts committed to your success. We ensure that your system is designed and executed for peak performance levels. Whether building something new or adding on to an existing system, we support the most up-to-date technology standards and provide the expertise necessary for the complex requirements of today's communications architecture. With a nationwide team of technology experts, Solutionz will empower your team to communicate and operate better.

Full Scope of Technology Solutions
As a top tier partner of the Audio Visual industry's leading manufacturers, Solutionz has the buying power to offer great pricing to our customers while maintaining the highest quality products and services. Solutionz is a one stop shop for communication and collaboration tools and the network, security and infrastructure to support them. We take the complex world of technology and build trust with our clients by presenting solutions that make their business better.

Superior Service
As a leading provider of AV/IT network infrastructure support to enterprise clients, we have built a service organization that provides world-class support. With our highly-trained service professionals, Solutionz can provide both on-site and remote support and managed services, resulting in significant cost savings for your business. Our state-of-the-art Prime Call Remote Monitoring and Management provides analytics, alerts, and in some cases, self-healing AV and UC capabilities. The ability to deliver maximum system uptime and leading-edge network security is critical to the operation of your business, but controlling your budget is essential for bottom line success. By partnering with us, you get peace of mind that our service organization will keep you running around the clock, allowing you to focus on your business…better.

An Extension of Your Team
As an extension of your team, we pride ourselves not only on our professionalism and high-quality deliverables, but also on our ability to work as a team with architects, consultants, owners' representatives and all on-site trades. Solutionz is made up of technology experts experienced in project collaboration with client teams. Our Security team is ready to work with your IT team to ensure comfort levels around network security and integration, providing tools and back up support to empower performance. When appropriate, our Grants Team is here to work with your procurement team at no charge to assess if grants are available to fund your projects. Regardless of the size of your organization, Solutionz's technology experts are here to help your teams operate better.

Training
Each employee is required to receive a minimum of 40 hours of training per year. Every month, our engineering, installation and sales staff receive manufacturers training for specific audiovisual needs and requirements. These trainings can last anywhere from one to four hours. We are proud to boast that we maintain the highest trained staff in our industry. Because of our technical expertise, we have been a beta test site for many of the manufacturers we represent. Since our designers and engineers are informed on the latest technologies and developments, our designs address these trends so that your systems will be compatible with upcoming technologies in the future.
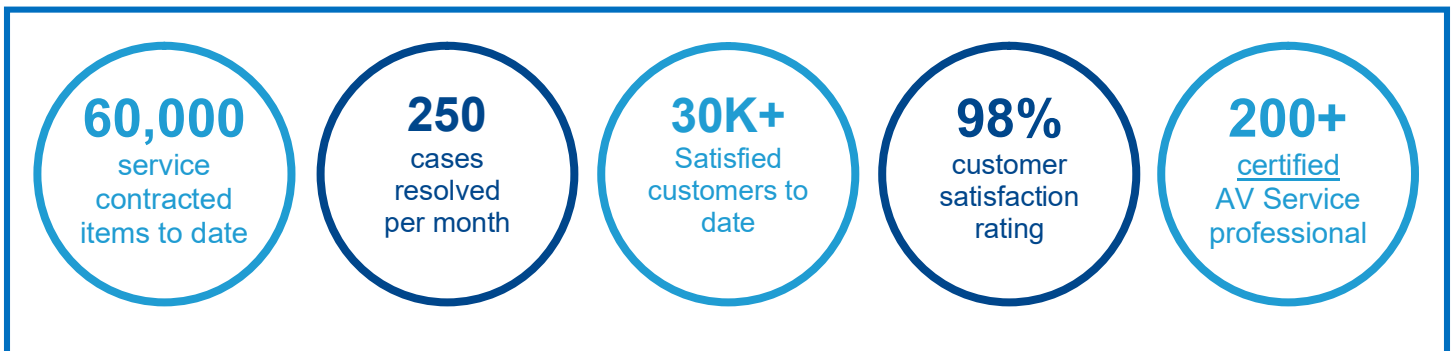
Electronic Drawing Files
Documentation and Submittals provided for the project is phased and will typically include AV architectural drawings, conduit riser and junction box schedules, standard details and electrical requirements. Drawing submittals will be provided using AutoCAD, on disc or pre-plotted. AV drawings will match an existing architectural, AutoCAD or drawing title block format already in use. These requirements need to be provided to us before drafting begins. All fees quoted for this project include one drawing package revision. Client requested revisions above this will be treated as a change order.

Testing

We utilize the highest quality testing equipment with the fullest scope of testing & configuration capabilities. Our primary audio testing equipment is Sencore. All field personnel are trained and proficient in the use of all necessary test equipment. The following is a partial listing of our test equipment:

Equipment	Brand	Model	Serial #
Sound Level Meter	Sencore	SP295C	6715325
Tone/Pink Noise Generator	Sencore	SP295C	6715325
AC Impedance Bridge	Tenma	72-6947	n/a
Oscilloscope	Fluke	123 Scope Meter	DM7114033
Multimeter	Fluke	76	67440797
Cable Tester	Megger	NA	31004639
Multi-frequency Computer RGB Test Pattern Generator	Extron	VTG-300	795977025
CAT 5 Tester	Fluke	Micro Scanner Pro	47D05C00201

98% Overall Customer Satisfaction with service and support from Prime Call Services

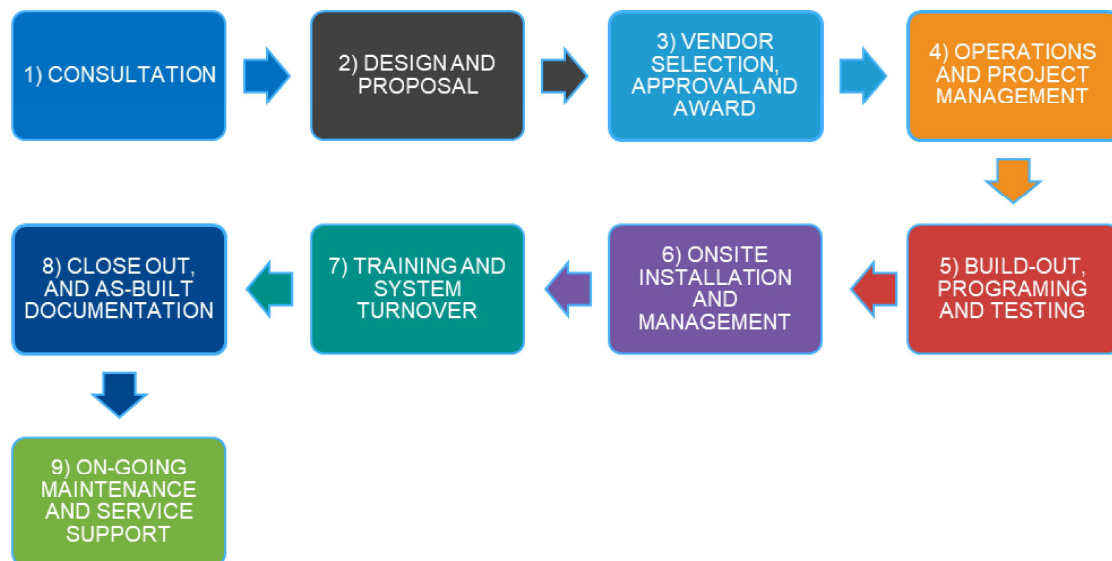| 60,000 service contracted items to date	250 cases resolved per month	30K+ Satisfied customers to date	98% customer satisfaction rating	200+ certified AV Service professional

PROCESS

Whether large or small, we approach all our projects with the same care and attention. Depending upon the client's specific needs or size of the deployment, we tailor a custom process that meets the project requirements.

Our sales team will work in conjunction with our engineering team to perform a thorough analysis of our client's needs. During this time, we will determine requirements of the system and users, challenges with the facility, and other relevant data to create a right-sized solution. Our Engineering team will put together our design, bill of materials, and all the required information to create a custom proposal. Our sales team will work with clients to refine the proposal as needed. Once an agreement has been reached, your project will be assigned to a project manager who will communicate with all stakeholders until completion. The next critical phase of our process is fully integrating, configuring, and testing your system prior to installation. When this phase is completed, and the Project Manager has signed off, our integration and operations team(s) will work through the onsite installation of your project.

After the system is installed and configured, we will perform a final test out of the system. After the final test is completed, a turnover walkthrough is scheduled with the client. During this time, we will discuss the specific functions of your system(s), available services and maintenance, and the processes for placing a service call. Once the client has been handed over the system, we will perform the final invoicing of the system.

Upon completion, Solutionz will turn over all AS-BUILT documentation, electronic literature, and uncompiled copies of all programs that were created for this project. As part of our proposal, a maintenance agreement will be offered to keep your systems running at an optimum level. Maintenance agreements are tailored to your needs with specified response times, preventative visits, varying levels of phone support, etc. By having this unified approach, all clients will receive the best experience possible, tailored to their expectations, with a system that has been designed with their needs in mind.

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1) CONSULTATION  →  2) DESIGN AND PROPOSAL  →  3) VENDOR SELECTION, APPROVAL AND AWARD  →  4) OPERATIONS AND PROJECT MANAGEMENT
                                                                                                    ↓
8) CLOSE OUT, AND AS-BUILT DOCUMENTATION  ←  7) TRAINING AND SYSTEM TURNOVER  ←  6) ONSITE INSTALLATION AND MANAGEMENT  ←  5) BUILD-OUT, PROGRAMING AND TESTING
   ↓
9) ON-GOING MAINTENANCE AND SERVICE SUPPORT
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TECHNOLOGY SOLUTIONS

Our mix of communication and collaboration solutions and services has the breadth and depth to support any company.

Audio/Visual Peripherals	AV Systems Management	Video Walls & Displays	UCC & Cloud Video	Digital Signage	UCC Audio	Network, Security, & Infrastructure

Audio/Visual Peripherals
- **Audio Speakers, Processors, Mixers, Amplifiers**
- **Microphones & Cameras**
- **Projectors & Projection Screens**
- **LCD, LED & OLED Displays**
- **Video & Audio Conferencing**
- **Digital Media Players**
- **Control Systems, Switchers**
- **AV Room Furniture**

A/V Systems Management
- **Connect and control your AV devices as one holistic system**
- **Centrally monitor and manage device status, health, and use**
- **Schedule system and room resources with integrated MS Exchange calendaring**
- **See analytics on run times, usage trends**

Video Walls & Displays
- **Immersive Visual Environments**
- **3D Visualization & Simulation**
- **Ultra HD & 4K Video Walls**
- **Projection Mapping**
- **Virtual Training & Simulation Labs**
- **Large Format Flat Panels**

UCC & Cloud Video
- **Secure HD Video, Audio, & Web Conferencing**
- **Content Sharing, Annotation**
- **Webcasting**
- **Real-time, Remote Collaboration**
- **Endpoints & Infrastructure**
- **On-premise, Private Cloud, Public Cloud, Or Hybrid**
- **Interoperable Solutions & Network Designs**

Digital Signage
- **Digital Signage & IPTV**
- **All-in-one Digital Signage Solutions**
- **Centralized Media Distribution Systems & Streaming**
- **Content Creation, Scheduling, Archiving & Management**
- **Mass Notification & Emergency Communications**

UCC Audio
- **Certified UC Headsets & Speakerphones**
- **Headset Support, Software & Services**
- **Repairs & Refurbishment**
- **MS Teams Bundles**
- **Integrated Maintenance/Device As A Service**
- **Webcams & Conference Cameras**
- **Conference Phones & Desk Phones**
- **Habitat Soundscaping**

Network, Security, & Infrastructure
- **Design, Develop, and Deploy**
- **Building Automation**
- **Lighting and Control Systems**
- **Grounding and Bonding**
- **Emergency Monitoring and Management Systems**
- **Access Control**
- **Firewall Protection**
- **Network Segmentation**
- **People counting**
- **Motion Detection**
- **Abandoned Object Detection**
- **Vehicle Tracking**
- **Identification Management Systems**
- **Visitor Management**
- **Remote and Onsite Monitoring**

PRIME CALL INTEGRATED SERVICES

Support Services

Remote Network Monitoring & Management

Adoption and Digital Training

On-site staffing and support

Prime Call Integrated Maintenance
Includes 24/7/365 helpdesk support, unlimited on-site technical support, software updates and security patches upon release, parts replacement, legacy protection, control code protection and scheduled preventive maintenance visits for all hardware components in AV enabled spaces, regardless of original integrator.

Prime Call Codec & Infrastructure Maintenance
Offering 24-hour service testing facilities, unlimited training and technical support, as well as the easiest to use service program on the market.

Prime Call Remote Monitoring & Management
Prime Call Remote Monitoring and Management (RMM) simplifies AV and UC management and saves time, money, and potential for business disruptions. Prime Call RMM capabilities are affordable, scalable, software-based services easy to install on existing networks or in the cloud.

Prime Call Adoption & Digital Training Services
Provides customized digital training skills to increase user proficiency and maximize adoption of new technologies.

Prime Call On Site
A full-time dedicated technician for onsite technical support of all AV and UC systems.

SOLUTIONZ SECUREAV

As AV integration experts, it is our responsibility to do whatever we can to protect our customers' AV (IoT) environments. Solutionz SecureAV protects your organization's data by automatically detecting, responding and blocking the malicious threats these environments are hit with daily.

What is SecureAV?

SecureAV is a powerful and easy-to-use AV security software as a service (SaaS) platform that deploys instantly and delivers enterprise-grade threat identification and protection at a fraction of the cost of equivalent options. Suitable for companies of any size, this innovative, self-contained approach to security can be deployed against your existing corporate firewall or with our SecureAV appliance. On most days, SecureAV simply monitors the network traffic between your AV/UC equipment and the rest of the Internet and is invisible to your company. However, when needed, SecureAV is standing by to stop threat actors in their tracks by identifying communications with risky or known-bad infrastructure. Everything about SecureAV is simple, streamlined, and secure. Even if you have a robust IT Team with well-instrumented security tools or a managed service provider, they will be glad to know that SecureAV is monitoring and protecting the new technology being installed on your network.

Features & Benefits
- **A dedicated AV firewall is included.**
- **Automated monitoring: We monitor (24/7/365) of every data packet that crosses the AV/UC boundary with automated response (block, ticket, notification).**
- **Automated blocking: We detect and block malicious traffic that eliminates threat exposure.**
- **Customized Block Lists: automatically implemented to internal Security Operations Center.**
- **Annual Vulnerability Scan: identify vulnerabilities that compromise the security of your entire system.**
- **Customized Reporting: monthly, quarterly or yearly detailed reports of connections viewed, muted and blocked in your AV environment and depicts the security state of the AV environment.**
- **AV/UC environment scanning: monthly or quarterly scanning (optional add-on).**
- **Encrypted Communication (optional add-on).**

Prevent   **Detect & Respond**   **Report**

GRANT PROGRAM SERVICES (GPS)

Every year, millions of dollars are awarded to schools, government agencies, healthcare organizations, and other public entities for the purchase and implementation of new technologies, including visual communication solutions. Solutionz Grant Program Services (GPS) is a value-added grant seeking service provided at no cost or obligation to grant eligible customers such as schools, libraries, museums, state and local governments and non-profit organizations.

Your Solutionz GPS team will include a Solutionz Sales Executive, Grant Program Manager, and a Grant Expert. We partner with you throughout the entire grant application process to ensure a successful outcome.

Once we identify your needs and the appropriate funding source, your Solutionz GPS team will provide you with an explanation of the overall process, including your organization's roles and responsibilities, and a schedule of activities that need to be completed to secure the funding. Your Solutionz GPS team will assist from beginning to end and help navigate and map the course.

Finding and securing viable funding sources is easier than you thought!

Solutionz GPS team specializes in programs for:
- **Healthcare**
- **First Responders**
- **Education**
- **State & Local Government**

Grant Readiness
Reviewing your organizations "grant readiness" is the first step in pursuing outside funding. Solutionz GPS targets the right grant by researching funding sources that fit your needs including:

- **Local and State Grants**
- **Federal Grants**
- **Private Foundations**
- **Existing Funding Streams**

TOP FIVE BENEFITS OF GRANT PROGRAM SERVICES (GPS)

1. Broad knowledge of funding programs

2. Expert one-on-one consultations

3. Identification of potential funding sources

4. Support through application process

5. Proposal evaluation, review, and submission

2020 GRANTS FUNDING SUCCESS
135 Clients Consulted
$9,600,000 Grants Awarded

VERTICAL MARKETS

K-12 Education

Solutionz has always had a strong presence in K-12 integration. As one of the largest K-12 integrators in the United States, Solutionz serves our Education clients at the highest levels, not only an integrator of technology, but a consultant and partner in furthering education-based technologies. With hardware, software, training support and services, we have helped school districts across the country develop strategic initiatives for hybrid learning environments.

For onsite installations, our K12 Education team has developed a process that automates and simplifies the required workflow to optimize productivity. Understanding that schools have limited time frames, we roll out technology at a pace that is easy to manage and be trained on while still hitting critical deadlines. Our commitment to all facets of technology from planning through deployment, training and maintenance gives our Education clients a complete quality experience.

Higher Education

Solutionz is a strong technology partner to colleges and universities across the nation. Whether in person or online, incorporating video and mobile technology into higher education is an important part of the overall learning experience. From lecture capture, remote learning, and hybrid classrooms, to learning labs and huddle rooms with laptop hookups, cameras, speakers and monitors, Solutionz helps higher education raise the bar with the latest technologies.

State, Local and Federal Governments

Creating a cohesive enterprise solution for government and military applications that yields tangible, reliable and secure results requires efficiency, power and simplicity. Solutionz has provided thousands of Government organizations the benefits of collaborating in AV and UC enabled environments. Whether recording a deposition, videoconferencing with the Department of Defense or broadcasting a city council meeting, government agencies rely on secure audiovisual technologies to communicate. Solutionz brings efficiency, convenience and security to legal, military and other government agencies across the globe. We have the expertise to provide solutions to those required to purchase off GSA70 and GSA58i and have provided enterprise AV solutions to some of the largest government entities.

Healthcare

As demands increase for better healthcare at lower costs, telemedicine plays a key role in making access to quality care more practical and affordable. With Solutionz's expertise, healthcare organizations depend on audiovisual solutions to reduce costs and improve care. Live digital video allows healthcare professionals to observe and diagnose illnesses in real time, without forcing patients to commute long distances. IP video networks connect specialists, clinics, consultants and patients, extending quality healthcare into remote areas. Medical professionals also appreciate the accessibility of training, professional certification classes and conferences through AV deployments. Solutionz is leading the way with partners specializing in secure telemedicine technologies, proud to help expand both the quality and reach of healthcare.

Commercial/Enterprise

Solutionz is focused on empowering businesses through customized designs, installations and services. As experts in Audio Visual technologies, we partner with our clients to best meet their needs and their budgets by providing secure solutions including tools for collaboration, conferencing, presentation, instruction, broadcast, and recording.

Our team works with our clients on all phases of the project from concept though execution. Each system is tailored to function properly in client spaces, adjusting for variables of room design, lighting and acoustics. Our in-house Project Management team allows us to efficiently leverage the expertise of our nationwide Solutionz team and our industry partners while delivering your project on time and on budget.

A FEW OF OUR CUSTOMERS

Our goal with every project is to give clients the feeling that the entire process from consultation to installation and training was an "Excellent Experience". While maintaining a competitive price, Solutionz focuses attention on the entire customer experience from the time that we are first contacted, until each customer has a complete working system that meets or exceeds their expectations and is connected to our award-winning support services.

We are committed to ensuring that each project meets our standards of professionalism, appreciation, communication, timeliness, appearance, and quality. The formula for this success certainly starts with commitment from the executive level, but no company on the planet can achieve consistent customer satisfaction without a strong foundation of highly qualified, committed, professional employees that are supported by a positive company culture. With this solid foundation in place, combined with support from our world-class manufacturing partners, we ensure the continued success of our associates and our customers.

A Few of Our Customers
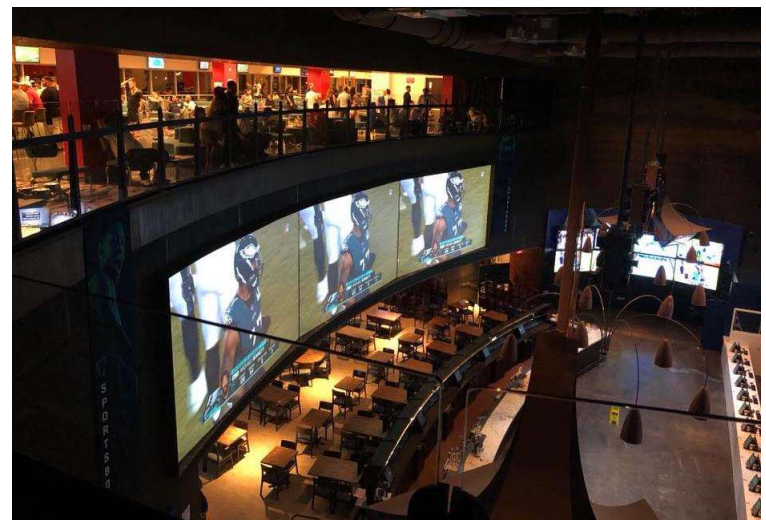

"Our Prime Call Support Engineer was AWESOME! It was very comforting to know that there are companies out there that really do care about their customers and that Customer Service is not a lost art. I truly appreciated the constant follow up calls and support at its finest." — Impiego, LLC, 2017

65% of our clients and customers are **Fortune 500** companies!

PROJECT PICTURES

Solutionz, Inc.
901 Bringham Ave.
Los Angeles, CA 90049
phone 310.571.1207

North Slope Borough School District
829 Aivik Street | Barrow, AK 99723
RUS DLT 2023 4 sites
January 24, 2023

Project #: 2301270
Quote #: 040910

System:

Wainwright Alak School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1				576 Main St, Wainwright, AK 99782		
2			EA			
3				Projector		
4	Epson	1	EA	EB-PU1008B Business Projector,WUXGA, Black	$7,826.00	$7,826.00
5	Epson	1	EA	Middle Zoom Lens #4 for Pro G7000 and L1000 Series (ELPLM11)	$1,685.00	$1,685.00
6			EA			
7				**Projector Mount**		
8	Chief	1	EA	RPA Elite Universal Projector Mount with Keyed Locking	$160.00	$160.00
9	Chief	1	EA	3-5' Adjustable Extension Column, Pole	$166.00	$166.00
10	Chief	1	EA	Threaded Pipe Coupler	$28.50	$28.50
11	Chief	1	EA	48 Inch Fixed Extension Column, Pole	$72.00	$72.00
12	Chief	1	EA	Angled Ceiling Plate	$60.00	$60.00
13	Extron	1	EA	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	$85.00	$85.00
14			EA			
15				**Control and Video Transport**		
16	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	$1,415.00	$1,415.00
17	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
18	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
19	Comprehensive	1	EA	DB9 Female to Bare Wire, 6'	$19.86	$19.86
20			EA			
21	**Media System**					
22				**Central Matrix and Controller (In Rack)**		
23	Crestron	1	EA	3-Series 4K DigitalMedia Presentation System 350	$7,858.00	$7,858.00
24	Crestron	1	EA	High-Efficiency Power Pack	$236.00	$236.00
25			EA			
26				**Stage Transmitters (Behind Stage)**		
27	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	$1,572.00	$1,572.00
28	Liberty	1	EA	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	$38.00	$38.00
29			EA			
30				**Control Room HDMI , LAN, Control, MIC Plate (In Control Room)**		
31	Extron	1	EA	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	$92.00	$92.00
32	Extron	1	EA	One XLR 3-pin Female to Solder Cup - Neutrik	$34.29	$34.29
33	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
34	Extron	1	EA	Set-up Engraving	$72.00	$72.00
35	Extron	1	EA	Engraving	$34.29	$34.29
36	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
37	Extron	1	EA	Set-up Engraving	$72.00	$72.00
38	Extron	1	EA	Engraving	$34.29	$34.29
39			EA			
40				**Wireless Presentation Gateway (Behind Stage)**		
41	Barco	1	EA	Clickshare C-10, C-10 base, 1 Gen4 Button	$1,609.00	$1,609.00
42	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	$786.00	$786.00
43	Leviton	1	EA	QuickPort Decora Insert, 1-Port, Black	$7.56	$7.56
44	Leviton	1	EA	Wall Plate Decora 2 Gang, Black	$2.00	$2.00
45	Comprehensive	1	EA	Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	$13.98	$13.98
46	Liberty	1	EA	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	$15.75	$15.75

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System:

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ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
47	Liberty	1	EA	1' Category 5e U/UTP Pre-Made Patch Cable	$1.78	$1.78
48			EA			
49				**Roku Streaming Player (Within Rack)**		
50	Roku	1	EA	Streaming Player	$143.00	$143.00
51	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
52	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
53			EA			
54				**Owner Furnished Fixed Asset PC (In Control Room)**		
55	Intel	1	EA	Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4-Core, 2.8–4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	$1,199.00	$1,199.00
56	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
57	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
58			EA			
59				**PTZ Cameras**		
60	PTZ Optics	1	EA	SuperJoy Joystick Controller	$1,029.00	$1,029.00
61	PTZ Optics	3	EA	PT30X-NDI -- 30X Move 4K (White)	$2,515.00	$7,545.00
62	PTZ Optics	3	EA	Small Universal Wall Mount (White)	$103.00	$309.00
63	Magewell	1	EA	USB Capture HDMI Gen 2	$428.00	$428.00
64	Liberty	1	EA	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	$2,033.00	$2,033.00
65			EA			
66				**Audio System**		
67				**Audio Digital Signal Processor**		
68	Biamp	1	EA	Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	$3,379.00	$3,379.00
69			EA			
70				**Audio Amplifier**		
71	Community	1	EA	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	$2,572.00	$2,572.00
72			EA			
73				**Speakers**		
74	Community	2	EA	Full-Range 2-Way 12-Inch 90 X 60 Black	$739.00	$1,478.00
75			EA			
76				**Wireless Microphones**		
77	Shure	2	EA	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	$1,015.00	$2,030.00
78	Shure	2	EA	Wireless Vocal System with SM58	$708.00	$1,416.00
79	Shure	1	EA	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	$1,053.00	$1,053.00
80	Shure	2	EA	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	$276.00	$552.00
81	Shure	2	EA	In-line antenna amplifier for remote mounting. (470-902 MHz)	$179.00	$358.00
82	Shure	2	EA	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	$32.86	$65.72
83			EA			
84				**Wired Desk Microphone in Control Room**		

Solutionz, Inc.
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North Slope Borough School District
829 Aivik Street | Barrow, AK 99723
RUS DLT 2023 4 sites
January 24, 2023

Project #: 2301270
Quote #: 040910

System:

Wainwright Alak School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
85	Shure	1	EA	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10′ XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	$342.00	$342.00
86			EA			
87						
	Control System					
88				**Tabletop Panel in Control Room, Wall Mount Behind Stage**		
89	Crestron	1	EA	10.1 in. Wall Mount Touch Screen, Black Smooth	$2,200.00	$2,200.00
90	Crestron	1	EA	10.1 in. Tabletop Touch Screen, Black Smooth	$2,358.00	$2,358.00
91				**Network Equipment**		
92	Netgear	1	EA	24x1G PoE+ 480W 2x1G and 4xSFP+ Managed Switch	$1,959.00	$1,959.00
93	Netgear	1	EA	SFP+ Transceiver, converts SFP+ ports to copper 10GBase-T	$362.00	$362.00
94	Netgear	1	EA	AXE7800 Tri-Band Cloud Managed Wi-Fi 6E Access Point	$451.00	$451.00
95			EA			
96						
	Equipment Rack					
97	Middle Atlantic	1	EA	DWR Series Pivoting Wall Rack, 24RU	$1,012.00	$1,012.00
98	SurgeX	1	EA	Sequencing Surge Eliminator and Power Conditioner with Remote & Key Lock, 1RU	$1,245.00	$1,245.00
99	CyberPower	4	EA	Power Distribution Unit	$63.00	$252.00
103			EA			
101	SOLUTIONZ	1	EA	Cables, Connectors, Misc.	$7,050.00	$7,050.00
105	SOLUTIONZ	1	EA	Onite training and unlimited remote support	$8,500.00	$8,500.00
106	SOLUTIONZ	1	EA	Cybersecurity Hardware and Software to Protect the Program	$11,200.00	$11,200.00
104	SOLUTIONZ	1	EA	Required equipment replacement for 3 years	$12,800.00	$12,800.00
108			EA			
106			EA			
107				**Total Equipment**	**$**	**99,548.79**
108						
	Install					
114				Installation		$30,550.00
117				**Install**		**$30,550.00**
118						
119						
	Shipping					
120		1.00		Shipping	$ 7,357.00	$ 7,357.00
121				**Shipping**		**$ 7,357.00**
122						
123				**Sub Total**	**$**	**137,455.79**
124				**Sales Tax (0.000%)**	**$**	**-**
125				**System Total**	**$**	**137,455.79**

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North Slope Borough School District
829 Aivik Street | Barrow, AK 99723
RUS DLT 2023 4 sites
January 24, 2023

Project #: 2301270
Quote #: 040910

System:

Barrow High School Auditorium

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1				1965 Takpuk St, Utqiagvik, AK 99723		
2						
	Primary Display					
3				**Projection Screen**		
4	Screen Innovations	1	EA	185", 16:10, Pure White 1.3, Flush Mount Projection Screen	$6,858.00	$6,858.00
5			EA			
6				Projector		
7	Epson	1	EA	EB-PU1008B Business Projector, WUXGA, Black	$7,826.00	$7,826.00
8	Epson	1	EA	Middle Zoom Lens #4 for Pro G7000 and L1000 Series (ELPLM11)	$1,685.00	$1,685.00
9			EA			
10				**Projector Mount**		
11	Chief	1	EA	RPA Elite Universal Projector Mount with Keyed Locking	$160.00	$160.00
12	Chief	1	EA	3-5' Adjustable Extension Column, Pole	$166.00	$166.00
13	Chief	1	EA	Threaded Pipe Coupler	$28.50	$28.50
14	Chief	1	EA	48 Inch Fixed Extension Column, Pole	$72.00	$72.00
15	Chief	1	EA	Angled Ceiling Plate	$60.00	$60.00
16	Extron	1	EA	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	$85.00	$85.00
17			EA			
18				**Control and Video Transport**		
19	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	$1,415.00	$1,415.00
20	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
21	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
22	Comprehensive	1	EA	DB9 Female to Bare Wire, 6'	$19.86	$19.86
23			EA			
24						
	Media System					
25				**Central Matrix and Controller (In Rack)**		
26	Crestron	1	EA	3-Series 4K DigitalMedia Presentation System 350	$7,858.00	$7,858.00
27	Crestron	1	EA	High-Efficiency Power Pack	$236.00	$236.00
28			EA			
29				**Stage Transmitters (Behind Stage)**		
30	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	$1,572.00	$1,572.00
31	Liberty	1	EA	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	$38.00	$38.00
32			EA			
33				**Control Room HDMI , LAN, Control, MIC Plate (In Control Room)**		
34	Extron	1	EA	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	$92.00	$92.00
35	Extron	1	EA	One XLR 3-pin Female to Solder Cup - Neutrik	$34.29	$34.29
36	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
37	Extron	1	EA	Set-up Engraving	$72.00	$72.00
38	Extron	1	EA	Engraving	$34.29	$34.29
39	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
40	Extron	1	EA	Set-up Engraving	$72.00	$72.00
41	Extron	1	EA	Engraving	$34.29	$34.29
42			EA			
43				**Wireless Presentation Gateway (Behind Stage)**		
44	Barco	1	EA	Clickshare C-10, C-10 base, 1 Gen4 Button	$1,609.00	$1,609.00

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January 24, 2023

Project #: 2301270
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System:

Barrow High School Auditorium

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
45	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	$786.00	$786.00
46	Leviton	1	EA	QuickPort Decora Insert, 1-Port, Black	$7.56	$7.56
47	Leviton	1	EA	Wall Plate Decora 2 Gang, Black	$2.00	$2.00
48	Comprehensive	1	EA	Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	$13.98	$13.98
49	Liberty	1	EA	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	$15.75	$15.75
50	Liberty	1	EA	1' Category 5e U/UTP Pre-Made Patch Cable	$1.78	$1.78
51			EA			
52				**Roku Streaming Player (Within Rack)**		
53	Roku	1	EA	Streaming Player	$143.00	$143.00
54	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
55	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
56			EA			
57				**Zoom Room Fixed Asset PC (In Control Room)**		
58	Intel	1	EA	Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC，Intel Core i7-1165G7 4-Core, 2.8–4.7 GHz Turbo，8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	$1,199.00	$1,199.00
59	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
60	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
61			EA			
62				**PTZ Cameras**		
63	PTZ Optics	1	EA	SuperJoy Joystick Controller	$1,029.00	$1,029.00
64	PTZ Optics	3	EA	PT30X-NDI -- 30X Move 4K (White)	$2,515.00	$7,545.00
65	PTZ Optics	3	EA	Small Universal Wall Mount (White)	$103.00	$309.00
66	Magewell	1	EA	USB Capture HDMI Gen 2	$428.00	$428.00
67	Liberty	1	EA	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	$2,033.00	$2,033.00
68			EA			
69				**Audio System**		
70				**Audio Digital Signal Processor**		
71	Biamp	1	EA	Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	$3,379.00	$3,379.00
72				Wireless Delegate Microphone System		
73	Shure	1	EA	Access Point Transceiver for US only; manages audio routing, frequency coordination, and system control for up to 125 wireless conference units; includes 10 DanteTM inputs/outputs and analog XLR inputs/outputs; requires Power-over-Ethernet. Includes paintable cover and wall/ceiling mounting plate.	$4,053.00	$4,053.00
74	Shure	15	EA	Wireless Conference Unit with 4.3 inch color touchscreen for voting, interpretation channel selection, and conference information, integrated NFC ID card reader, chairman, delegate, listener, and ambient modes, integrated loudspeaker, 10-pin microphone connector, 2 3.5mm headphone jacks with volume controls. Includes SB930 rechargeable Li-Ion battery.	$1,620.00	$24,300.00
75	Shure	15	EA	MXC 25" GOOSENECK MICROPHONE, DUAL FLEX	$225.00	$3,375.00
76	Shure	15	EA	Rechargeable Li-Ion battery with Test button and LED charge status indicators; included with MXCW640 wireless conference unit	$188.00	$2,820.00
77	Shure	15	EA	Rechargeable Li-Ion battery with Test button and LED charge status indicators; included with MXCW640 wireless conference unit	$188.00	$2,820.00
78	Shure	2	EA	NETWORKED CHARGING STATION, 10BAY SB930	$1,216.00	$2,432.00
79			EA			

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North Slope Borough School District

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RUS DLT 2023 4 sites

January 24, 2023

Project #: 2301270

Quote #: 040910

System:

Barrow High School Auditorium

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
80				**Wireless Microphones**		
81	Shure	2	EA	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	$1,015.00	$2,030.00
82	Shure	2	EA	Wireless Vocal System with SM58	$708.00	$1,416.00
83	Shure	1	EA	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	$1,053.00	$1,053.00
84	Shure	2	EA	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	$276.00	$552.00
85	Shure	2	EA	In-line antenna amplifier for remote mounting. (470-902 MHz)	$179.00	$358.00
86	Shure	2	EA	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	$32.86	$65.72
87			EA			
88				**Wired Desk Microphone in Control Room**		
89	Shure	1	EA	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10′ XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	$342.00	$342.00
90			EA			
91				**Audio Amplifier**		
92	Community	1	EA	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	$2,572.00	$2,572.00
93			EA			
94				**Speakers**		
95	Community	2	EA	Full-Range 2-Way 12-Inch 90 X 60 Black	$739.00	$1,478.00
96			EA			
97	SOLUTIONZ	1	EA	Cables, Connectors, Misc.	$8,400.00	$8,400.00
98	SOLUTIONZ	1	EA	Onite training and unlimited remote support	$9,800.00	$9,800.00
99	SOLUTIONZ	1	EA	Cybersecurity Hardware and Software to Protect the Program	$11,200.00	$11,200.00
100	SOLUTIONZ	1	EA	Required equipment replacement for 3 years	$14,600.00	$14,600.00
101			EA			
102				**Total Equipment**	**$**	**140,817.79**
103						
	Install					
109				Installation		$35,250.00
112				**Install**		**$35,250.00**
113						
114						
	Shipping					
115		1.00		Shipping	$ 9,847.00	$ 9,847.00
116				**Shipping**		**$ 9,847.00**
117						
118				**Sub Total**	**$**	**185,914.79**
119				**Sales Tax (0.000%)**	**$**	**-**
120				**System Total**	**$**	**185,914.79**

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North Slope Borough School District
829 Aivik Street | Barrow, AK 99723
RUS DLT 2023 4 sites
January 24, 2023

Project #: 2301270
Quote #: 040910

System:

Eben Hopson Middle School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1				6501 Transit St, Utqiagvik, AK 99723		
2						
3				**Primary Display**		
				Projection Screen		
4	Screen Innovations	1	EA	150", 16:9, Pure White 1.3, Flush Mount Projection Screen	$5,726.00	$5,726.00
5			EA			
6				Projector		
7	LG	1	EA	4K UHD 3840 x 2160 Laser Projector	$6,113.00	$6,113.00
8			EA			
9				**Projector Mount**		
10	Chief	1	EA	RPA Elite Universal Projector Mount with Keyed Locking	$160.00	$160.00
11	Chief	1	EA	3-5' Adjustable Extension Column, Pole	$166.00	$166.00
12	Chief	1	EA	Threaded Pipe Coupler	$28.50	$28.50
13	Chief	1	EA	48 Inch Fixed Extension Column, Pole	$72.00	$72.00
14	Chief	1	EA	Angled Ceiling Plate	$60.00	$60.00
15	Extron	1	EA	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	$85.00	$85.00
16			EA			
17				**Control and Video Transport**		
18	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	$1,415.00	$1,415.00
19	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
20	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
21	Comprehensive	1	EA	DB9 Female to Bare Wire, 6'	$19.86	$19.86
22			EA			
23						
24				**Media System**		
				Central Matrix and Controller (In Rack)		
25	Crestron	1	EA	3-Series 4K DigitalMedia Presentation System 350	$7,858.00	$7,858.00
26	Crestron	1	EA	High-Efficiency Power Pack	$236.00	$236.00
27			EA			
28				**Stage Transmitters (Behind Stage)**		
29	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	$1,572.00	$1,572.00
30	Liberty	1	EA	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	$38.00	$38.00
31			EA			
32				**Control Room HDMI , LAN, Control, MIC Plate (In Control Room)**		
33	Extron	1	EA	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	$92.00	$92.00
34	Extron	1	EA	One XLR 3-pin Female to Solder Cup - Neutrik	$34.29	$34.29
35	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
36	Extron	1	EA	Set-up Engraving	$72.00	$72.00
37	Extron	1	EA	Engraving	$34.29	$34.29
38	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
39	Extron	1	EA	Set-up Engraving	$72.00	$72.00
40	Extron	1	EA	Engraving	$34.29	$34.29
41			EA			
42				**Wireless Presentation Gateway (Behind Stage)**		
43	Barco	1	EA	Clickshare C-10, C-10 base, 1 Gen4 Button	$1,609.00	$1,609.00
44	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	$786.00	$786.00
45	Leviton	1	EA	QuickPort Decora Insert, 1-Port, Black	$7.56	$7.56

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Project #: 2301270
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System:
Eben Hopson Middle School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
46	Leviton	1	EA	Wall Plate Decora 2 Gang, Black	$2.00	$2.00
47	Comprehensive	1	EA	Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	$13.98	$13.98
48	Liberty	1	EA	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	$15.75	$15.75
49	Liberty	1	EA	1' Category 5e U/UTP Pre-Made Patch Cable	$1.78	$1.78
50			EA			
51				**Roku Streaming Player (Within Rack)**		
52	Roku	1	EA	Streaming Player	$143.00	$143.00
53	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
54	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
55			EA			
56				**Owner Furnished Fixed Asset PC (In Control Room)**		
57	Intel	1	EA	Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4-Core, 2.8–4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	$1,199.00	$1,199.00
58	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
59	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
60			EA			
61				**PTZ Cameras**		
62	PTZ Optics	1	EA	SuperJoy Joystick Controller	$1,029.00	$1,029.00
63	PTZ Optics	3	EA	PT30X-NDI -- 30X Move 4K (White)	$2,515.00	$7,545.00
64	PTZ Optics	3	EA	Small Universal Wall Mount (White)	$103.00	$309.00
65	Magewell	1	EA	USB Capture HDMI Gen 2	$428.00	$428.00
66	Liberty	1	EA	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	$2,033.00	$2,033.00
67			EA			
68				**Audio System**		
69				**Audio Digital Signal Processor**		
70	Biamp	1	EA	Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	$3,379.00	$3,379.00
71			EA			
72				**Audio Amplifier**		
73	Community	1	EA	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	$2,572.00	$2,572.00
74			EA			
75				**Speakers**		
76	Community	2	EA	Full-Range 2-Way 12-Inch 90 X 60 Black	$739.00	$1,478.00
77			EA			
78				**Wireless Microphones**		
79	Shure	2	EA	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	$1,015.00	$2,030.00
80	Shure	2	EA	Wireless Vocal System with SM58	$708.00	$1,416.00
81	Shure	1	EA	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	$1,053.00	$1,053.00
82	Shure	2	EA	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	$276.00	$552.00
83	Shure	2	EA	In-line antenna amplifier for remote mounting. (470-902 MHz)	$179.00	$358.00
84	Shure	2	EA	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	$32.86	$65.72
85			EA			

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January 24, 2023

Project #: 2301270
Quote #: 040910

System:

Eben Hopson Middle School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
86				**Wired Desk Microphone in Control Room**		
87	Shure	1	EA	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10´ XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	$342.00	$342.00
88			EA			
89						
	Control System					
90				**Tabletop Panel in Control Room, Wall Mount Behind Stage**		
91	Crestron	1	EA	10.1 in. Wall Mount Touch Screen, Black Smooth	$2,200.00	$2,200.00
92	Crestron	1	EA	10.1 in. Tabletop Touch Screen, Black Smooth	$2,358.00	$2,358.00
93				**Network Equipment**		
94	Netgear	1	EA	24x1G PoE+ 480W 2x1G and 4xSFP+ Managed Switch	$1,959.00	$1,959.00
95	Netgear	1	EA	SFP+ Transceiver, converts SFP+ ports to copper 10GBase-T	$362.00	$362.00
96	Netgear	1	EA	AXE7800 Tri-Band Cloud Managed Wi-Fi 6E Access Point	$451.00	$451.00
97			EA			
98						
	Equipment Rack					
99			EA	Owner Furnished -- Existing 24RU Rack		
100	SurgeX	1	EA	Sequencing Surge Eliminator and Power Conditioner with Remote & Key Lock, 1RU	$1,245.00	$1,245.00
101	CyberPower	4	EA	Power Distribution Unit	$63.00	$252.00
102			EA			
103	SOLUTIONZ	1	EA	Cables, Connectors, Misc.	$7,050.00	$7,050.00
104	SOLUTIONZ	1	EA	Onite training and unlimited remote support	$8,500.00	$8,500.00
105	SOLUTIONZ	1	EA	Cybersecurity Hardware and Software to Protect the Program	$11,200.00	$11,200.00
106	SOLUTIONZ	1	EA	Required equipment replacement for 3 years	$12,800.00	$12,800.00
107			EA			
108			EA			
109				**Total Equipment**		**$ 100,864.79**
110						
	Install					
116				Installation		$30,550.00
119				**Install**		**$30,550.00**
120						
121						
	Shipping					
122		1.00		Shipping	$ 7,693.00	$ 7,693.00
123				**Shipping**		**$ 7,693.00**
124						
125				**Sub Total**		**$ 139,107.79**
126				**Sales Tax (0.000%)**		**$ -**
127				**System Total**		**$ 139,107.79**

Solutionz, Inc.
901 Bringham Ave.
Los Angeles, CA 90049
phone 310.571.1207

North Slope Borough School District
829 Aivik Street | Barrow, AK 99723
RUS DLT 2023 4 sites
January 24, 2023

Project #: 2301270
Quote #: 040910

System:

Point Hope Tikigaq School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1				1837 Tikigaq Ave, Point Hope, AK 99766		
2						
	Primary Display					
3				**Projection Screen**		
4	Screen Innovations	1	EA	185", 16:10, Pure White 1.3, Flush Mount Projection Screen	$6,858.00	$6,858.00
5			EA			
6				Projector		
7	Epson	1	EA	EB-PU1008B Business Projector, WUXGA, Black	$7,826.00	$7,826.00
8	Epson	1	EA	Middle Zoom Lens #4 for Pro G7000 and L1000 Series (ELPLM11)	$1,685.00	$1,685.00
9			EA			
10				**Projector Mount**		
11	Chief	1	EA	RPA Elite Universal Projector Mount with Keyed Locking	$160.00	$160.00
12	Chief	1	EA	3-5' Adjustable Extension Column, Pole	$166.00	$166.00
13	Chief	1	EA	Threaded Pipe Coupler	$28.50	$28.50
14	Chief	1	EA	48 Inch Fixed Extension Column, Pole	$72.00	$72.00
15	Chief	1	EA	Angled Ceiling Plate	$60.00	$60.00
16	Extron	1	EA	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	$85.00	$85.00
17			EA			
18				**Control and Video Transport**		
19	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	$1,415.00	$1,415.00
20	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
21	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
22	Comprehensive	1	EA	DB9 Female to Bare Wire, 6'	$19.86	$19.86
23			EA			
24						
	Media System					
25				**Central Matrix and Controller (In Rack)**		
26	Crestron	1	EA	3-Series 4K DigitalMedia Presentation System 350	$7,858.00	$7,858.00
27	Crestron	1	EA	High-Efficiency Power Pack	$236.00	$236.00
28			EA			
29				**Stage Transmitters (Behind Stage)**		
30	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	$1,572.00	$1,572.00
31	Liberty	1	EA	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	$38.00	$38.00
32			EA			
33				**Control Room HDMI , LAN, Control, MIC Plate (In Control Room)**		
34	Extron	1	EA	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	$92.00	$92.00
35	Extron	1	EA	One XLR 3-pin Female to Solder Cup - Neutrik	$34.29	$34.29
36	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
37	Extron	1	EA	Set-up Engraving	$72.00	$72.00
38	Extron	1	EA	Engraving	$34.29	$34.29
39	Extron	1	EA	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	$85.00	$85.00
40	Extron	1	EA	Set-up Engraving	$72.00	$72.00
41	Extron	1	EA	Engraving	$34.29	$34.29
42			EA			
43				**Wireless Presentation Gateway (Behind Stage)**		
44	Barco	1	EA	Clickshare C-10, C-10 base, 1 Gen4 Button	$1,609.00	$1,609.00

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Point Hope Tikigaq School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
45	Crestron	1	EA	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	$786.00	$786.00
46	Leviton	1	EA	QuickPort Decora Insert, 1-Port, Black	$7.56	$7.56
47	Leviton	1	EA	Wall Plate Decora 2 Gang, Black	$2.00	$2.00
48	Comprehensive	1	EA	Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	$13.98	$13.98
49	Liberty	1	EA	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	$15.75	$15.75
50	Liberty	1	EA	1' Category 5e U/UTP Pre-Made Patch Cable	$1.78	$1.78
51			EA			
52				**Roku Streaming Player (Within Rack)**		
53	Roku	1	EA	Streaming Player	$143.00	$143.00
54	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
55	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
56			EA			
57				**Owner Furnished Fixed Asset PC (In Control Room)**		
58	Intel	1	EA	Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4-Core, 2.8–4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	$1,199.00	$1,199.00
59	Liberty	1	EA	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	$17.69	$17.69
60	Liberty	1	EA	5' Category 5e U/UTP Pre-Made Patch Cable	$2.90	$2.90
61			EA			
62						
	PTZ Cameras					
63	PTZ Optics	1	EA	SuperJoy Joystick Controller	$1,029.00	$1,029.00
64	PTZ Optics	3	EA	PT30X-NDI -- 30X Move 4K (White)	$2,515.00	$7,545.00
65	PTZ Optics	3	EA	Small Universal Wall Mount (White)	$103.00	$309.00
66	Magewell	1	EA	USB Capture HDMI Gen 2	$428.00	$428.00
67	Liberty	1	EA	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	$2,033.00	$2,033.00
68			EA			
69						
	Audio System					
70				**Audio Digital Signal Processor**		
71	Biamp	1	EA	Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	$3,379.00	$3,379.00
72			EA			
73				**Audio Amplifier**		
74	Community	1	EA	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	$2,572.00	$2,572.00
75			EA			
76				**Speakers**		
77	Community	2	EA	Full-Range 2-Way 12-Inch 90 X 60 Black	$739.00	$1,478.00
78			EA			
79				**Wireless Microphones**		
80	Shure	2	EA	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	$1,015.00	$2,030.00
81	Shure	2	EA	Wireless Vocal System with SM58	$708.00	$1,416.00
82	Shure	1	EA	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	$1,053.00	$1,053.00
83	Shure	2	EA	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	$276.00	$552.00
84	Shure	2	EA	In-line antenna amplifier for remote mounting. (470-902 MHz)	$179.00	$358.00

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Project #: 2301270
Quote #: 040910

System:

Point Hope Tikigaq School

ITEM	BRAND	QTY	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
85	Shure	2	EA	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	$32.86	$65.72
86			EA			
87				**Wired Desk Microphone in Control Room**		
88	Shure	1	EA	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10´ XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	$342.00	$342.00
89			EA			
90				**Control System**		
91				**Tabletop Panel in Control Room, Wall Mount Behind Stage**		
92	Crestron	1	EA	10.1 in. Wall Mount Touch Screen, Black Smooth	$2,200.00	$2,200.00
93	Crestron	1	EA	10.1 in. Tabletop Touch Screen, Black Smooth	$2,358.00	$2,358.00
94				**Network Equipment**		
95	Netgear	1	EA	24x1G PoE+ 480W 2x1G and 4xSFP+ Managed Switch	$1,959.00	$1,959.00
96	Netgear	1	EA	SFP+ Transceiver, converts SFP+ ports to copper 10GBase-T	$362.00	$362.00
97	Netgear	1	EA	AXE7800 Tri-Band Cloud Managed Wi-Fi 6E Access Point	$451.00	$451.00
98			EA			
99				**Equipment Rack**		
100			EA	Owner Furnished -- Existing 24RU Rack		
101	SurgeX	1	EA	Sequencing Surge Eliminator and Power Conditioner with Remote & Key Lock, 1RU	$1,245.00	$1,245.00
102	CyberPower	4	EA	Power Distribution Unit	$63.00	$252.00
103			EA			
104	SOLUTIONZ	1	EA	Cables, Connectors, Misc.	$7,050.00	$7,050.00
105	SOLUTIONZ	1	EA	Onite training and unlimited remote support	$8,500.00	$8,500.00
106	SOLUTIONZ	1	EA	Cybersecurity Hardware and Software to Protect the Program	$11,200.00	$11,200.00
107	SOLUTIONZ	1	EA	Required equipment replacement for 3 years	$12,800.00	$12,800.00
108			EA			
109			EA			
110				**Total Equipment**		**$ 105,394.79**
111						
				Install		
117				Installation		$30,550.00
120				**Install**		**$30,550.00**
121						
122						
				Shipping		
123		1.00		Shipping	$ 7,693.00	$ 7,693.00
124				**Shipping**		**$ 7,693.00**
125						
126				**Sub Total**		**$ 143,637.79**
127				**Sales Tax (0.000%)**		**$ -**
128				**System Total**		**$ 143,637.79**

SOLUTIONZ

Statement of Work

North Slope Borough School District

2024 RUS Grant

Barrow High School
1965 Takpuk St.
Utqiagvik, AK 99723

Eben Hopson Middle School
6501 Transit St.
Utqiagvik, AK 99723

Wainwright Alak School
576 Main St.
Wainwright, AK 99782

Point Hope Tikigaq School
1837 Tikigaq Ave.
Point Hope, AK 99766

Project Overview

North Slope Borough School District has asked Solutionz, Inc. to provide a proposal for AV systems in their Barrow High School Auditorium, Eben Hopson Middle School Multipurpose Room, Wainwright Alak School Gym, and Point Hope Tikigaq School Gym. Solutionz, Inc. has reviewed the user requirements and proposes the following AV systems.

This proposal is valid for fourteen (14) days from date of delivery of Statement of Work. This proposal includes installation of Solutionz, Inc.'s specified equipment and Owner Furnished Equipment (OFE). Solutionz, Inc. will provide equipment identified in the estimates, post-sale engineering support, project management, installation, testing, and orientation of the system once installed.

Solutionz, Inc. assumes all required items not in our scope of work will be completed by the owner, or owner supplied contractor, and in the specified time frame. Any delay, or changes, could increase the time frame to complete the project, and increase the installation cost.

The below Statement of Work assumes all work to be performed by a Solutionz Technician. Any additional need for outside technicians, to include but not limited to, union labor or other 3rd party licensed contractors, could increase the installation cost. Solutionz, Inc.'s normal working hours are from 8am to 5pm, local time. Solutionz, Inc. expects to start basic installs within two (2) to five (5) weeks and advanced installs within six (6) to eight (8) weeks from the order being completely processed by Solutionz, Inc. Any changes to the above time frames will need to be approved prior to the start of the project and could increase the installation cost.

AV System Descriptions

Barrow High School Auditorium:

AV System Description:

The Auditorium will showcase a 13000 Lumen WUXGA projector and 16:10 255" diagonal electric ceiling projection screen. The projector will provide meeting participants with video content from virtual meetings or user presentations. A control room 27" monitor will provide video content to the AV system controller. There is also an HDMI output connection in the stage left wing to allow for a user to send content to an owner furnished mobile display on the stage.

The video conferencing system will feature a Zoom Room dedicated compute device, Logitech Tap tabletop 10" touch panel, and three PTZ Optics PT30X-NDI pan, tilt, zoom (PTZ) cameras. The Zoom Room touch panel will be in the control room. A PTZ camera will be mounted on either side of the stage. The third PTZ camera will be mounted at the back of the house. The dedicated compute device and touch panel will be configured to native Zoom Room mode. The native Zoom Room graphic user interface (GUI) provides a simple and familiar platform with features such as one-touch join, content sharing, camera options, and meeting management.

An Extron SMP 351 live streaming device will be provided for steaming of content to YouTube, Facebook, Twitch, or any other streaming platform. The live streaming device has an HDMI input for user content and one for a camera feed. It will allow users to show just the content, show just the camera feed, or show the content and provide a picture in picture of a camera feed.

The audio system will feature fifteen wireless conference units with gooseneck microphones, four wireless handheld microphones, two surface mounted speakers, and any other speakers we can get to function. The wireless conference units will be used for meetings on the stage and will not be used for sound reinforcement. The surface mount speakers will provide audio reinforcement for virtual meetings, program audio, and voice lift of the wireless microphones. The audio will be mixed, processed, and routed using a Biamp audio digital signal processor (DSP).

Users will have four options to present content to a virtual meeting, streaming platform, and/or the room video destinations. The first two options are to use one of the two HDMI connection in the stage left wing. The third option is an HDMI connection in the control room. The fourth option is to use the Mersive Solstice pod to present wirelessly. A 4x1 HDMI auto switcher will be provided to allow multiple devices to be connected at the same time at either the stage left wing or control room.

The AV system will be controlled by an Extron tabletop 10" touch panel in the Control room. This touch panel will allow users to route the video signals, control microphones audio, and turn on/off the AV system. A PTZ Optics camera controller will be provided to allow users to control the cameras using a joystick. The Extron control user interface can also be controlled using an owner furnished iPad.

The main head-end equipment will be installed in the two existing 18RU equipment racks.

System Notes:
- This AV system requires a Zoom Room license purchased and configured by the owner.
- A network switch may be required by the owner to meet the client network requirements of the equipment rack.
- This location has two scissor lifts that can be used for this installation.
- The projection screen will be brought to the installation locations by the owner's team.
- The existing projection screen will be taken down by Solutionz. This proposal does not include labor to remove the projection screen from the site or dispose of the projection screen.
- The projection screen will be mounted on an existing stage batten. It is up to the owner to verify that the batten can handle the weight of the projection screen.

- A mobile display for the stage is not provided in the proposal.
- The Mersive Solstice Pod wireless presentation requires a wired network connection between the wireless presentation device and an external Wi-Fi wireless access point (not included).
- This installation will require a scissor lift.
- The HDMI auto switcher will need to be controlled manually if users would like to switch between sources.

Eben Hopson Middle School Multipurpose Room:

AV System Description:

The Multipurpose Room will showcase an 8500 Lumen WUXGA projector and 16:9 184" diagonal electric wall projection screen. The projector will provide meeting participants with video content from virtual meetings or user presentations. A control room 27" monitor will provide video content to the AV system controller.

The video conferencing system will feature a Zoom Room dedicated compute device, Logitech Tap tabletop 10" touch panel, and two PTZ Optics PT30X-NDI pan, tilt, zoom (PTZ) cameras. The Zoom Room touch panel will be in the control room. A PTZ camera will be mounted on the stage left wall. The second PTZ camera will be mounted at the back of the house wall. The dedicated compute device and touch panel will be configured to native Zoom Room mode. The native Zoom Room graphic user interface (GUI) provides a simple and familiar platform with features such as one-touch join, content sharing, camera options, and meeting management.

An Extron SMP 351 live streaming device will be provided for steaming of content to YouTube, Facebook, Twitch, or any other streaming platform. The live streaming device has an HDMI input for user content and one for a camera feed. It will allow users to show just the content, show just the camera feed, or show the content and provide a picture in picture of a camera feed.

The audio system will feature four wireless handheld microphones, one auxiliary audio bodypack microphone, Bluetooth receiver, and two ceiling mounted speakers. The Bluetooth receiver will be mounted on a control room wall. The ceiling mounted speakers will provide audio reinforcement for virtual meetings, program audio, and voice lift of the wireless microphones and bodypack. The audio will be mixed, processed, and routed using a Biamp audio digital signal processor (DSP).

Users will have four options to present content to a virtual meeting, streaming platform, and/or the room video destinations. The first two options are to use one of the two HDMI wall plates in the stage left wing. The third option is an HDMI connection in the control room. The fourth option is to use the Mersive Solstice pod to present wirelessly.

The AV system will be controlled by an Extron tabletop 10" touch panel in the Control room. This touch panel will allow users to route the video signals, control microphones audio, and turn on/off the AV system. A PTZ Optics camera controller will be provided to allow users to control the cameras using a joystick.

The main head-end equipment will be installed in an existing 24RU wall mounted equipment racks.

System Notes:
- This AV system requires a Zoom Room license purchased and configured by the owner.
- A network switch may be required by the owner to meet the client network requirements of the equipment rack.
- The projection screen will be brought to the installation locations by the owner's team.
- The existing projection screen will be taken down by Solutionz. This proposal does not include labor to remove the projection screen from the site or dispose of the projection screen.
- The projection screen will be mounted in the same location as the existing projection screen. The electrical connection to the projection screen will need to be moved by an Electrical Contractor.
- The Mersive Solstice Pod wireless presentation requires a wired network connection between the wireless presentation device and an external Wi-Fi wireless access point (not included).

Wainwright Alak School Gym:

AV System Description:

The Wainwright Alak School Gym will showcase an existing projector and existing electric wall projection screen. The projector will provide meeting participants with video content from virtual meetings or user presentations. A control room rack-mount dual 9.7" monitors will provide video content to the AV system controller.

The video conferencing system will feature a Zoom Room dedicated compute device, Logitech Tap tabletop 10" touch panel, and two PTZ Optics PT30X-NDI pan, tilt, zoom (PTZ) cameras. The Zoom Room touch panel will be on a slide out shelf in the equipment rack. A PTZ camera will be mounted on the left side of the projection screen. The second PTZ camera will be mounted opposite the projection screen. The dedicated compute device and touch panel will be configured to native Zoom Room mode. The native Zoom Room graphic user interface (GUI) provides a simple and familiar platform with features such as one-touch join, content sharing, camera options, and meeting management.

An Extron SMP 351 live streaming device will be provided for steaming of content to YouTube, Facebook, Twitch, or any other streaming platform. The live streaming device has an HDMI input for user content and one for a camera feed. It will allow users to show just the content, show just the camera feed, or show the content and provide a picture in picture of a camera feed.

The audio system will feature four wireless handheld microphones, one auxiliary audio bodypack, Bluetooth receiver, rack speaker, and two existing surface mounted speakers. The Bluetooth receiver will be in the equipment rack. The surface mount speakers will provide audio reinforcement for virtual meetings, program audio, and voice lift of the wireless microphones and bodypack. The audio will be mixed, processed, and routed using a Biamp audio digital signal processor (DSP).

Users will have two options to present content to a virtual meeting, streaming platform, and/or the room video destinations. The first option is an HDMI connection in the control room. The second option is to use the Mersive Solstice pod to present wirelessly.

The AV system will be controlled by an Extron rackmount 10" touch panel in the Control room. This touch panel will allow users to route the video signals, control microphones audio, and turn on/off the AV system. A PTZ Optics camera controller will be provided to allow users to control the cameras using a joystick. The PTZ Optics camera controller will be on a slide out shelf in the equipment rack.

The main head-end equipment will be installed in a new 44RU locking equipment rack.

System Notes:
- This AV system requires a Zoom Room license purchased and configured by the owner.
- A network switch may be required by the owner to meet the client network requirements of the equipment rack.
- The Mersive Solstice Pod wireless presentation requires a wired network connection between the wireless presentation device and an external Wi-Fi wireless access point (not included).
- This installation will require a scissor lift.

Point Hope Tikigaq School Gym:

AV System Description:

The Point Hope Tikigaq School Gym will showcase a 13000 Lumen WUXGA projector and existing 16:10 226" diagonal electric wall projection screen. The projector will provide meeting participants with video content from virtual meetings or user presentations. A control room rack-mount dual 9.7" monitors will provide video content to the AV system controller. An owner furnished Blu-ray player will be integrated into the system to allow for the playback of Blu-Ray discs.

The video conferencing system will feature a Zoom Room dedicated compute device, Logitech Tap tabletop 10" touch panel, and two PTZ Optics PT30X-NDI pan, tilt, zoom (PTZ) cameras. The Zoom Room touch panel will be on a slide out shelf in the equipment rack. A PTZ camera will be mounted on the left side of the projection screen. The second PTZ camera will be mounted opposite the projection screen. The dedicated compute device and touch panel will be configured to native Zoom Room mode. The native Zoom Room graphic user interface (GUI) provides a simple and familiar platform with features such as one-touch join, content sharing, camera options, and meeting management.

An Extron SMP 351 live streaming device will be provided for steaming of content to YouTube, Facebook, Twitch, or any other streaming platform. The live streaming device has an HDMI input for user content and one for a camera feed. It will allow users to show just the content, show just the camera feed, or show the content and provide a picture in picture of a camera feed.

The audio system will feature four wireless handheld microphones, one auxiliary audio bodypack, Bluetooth receiver, rack speaker, and existing Soundsphere audio system. The Bluetooth receiver will be in the equipment rack. The Soundsphere speakers will provide audio reinforcement for virtual meetings, program audio, and voice lift of the wireless microphones and bodypack. The audio will be mixed, processed, and routed using a Biamp audio digital signal processor (DSP).

Users will have two options to present content to a virtual meeting, streaming platform, and/or the room video destinations. The first option is an HDMI connection in the control room. The second option is to use the Mersive Solstice pod to present wirelessly.

The AV system will be controlled by an Extron rackmount 10" touch panel in the Control room. This touch panel will allow users to route the video signals, control microphones audio, and turn on/off the AV system. A PTZ Optics camera controller will be provided to allow users to control the cameras using a joystick. The PTZ Optics camera controller will be on a slide out shelf in the equipment rack. The Blu-ray player will be controlled using the transport controllers on the player.

The main head-end equipment will be installed in a new 44RU locking equipment rack.

System Notes:
- This AV system requires a Zoom Room license purchased and configured by the owner.
- A network switch may be required by the owner to meet the client network requirements of the equipment rack.
- The Mersive Solstice Pod wireless presentation requires a wired network connection between the wireless presentation device and an external Wi-Fi wireless access point (not included).
- This installation will require a scissor lift.
- A power outlet will need to be installed at the projector location by an Electrical Contractor.

Scope of Work

In Scope – Responsibility of Solutionz, Inc.
Out of Scope – Responsibility of owner or other trade contractor
Existing – Existing items that are required for the project but do not need to be delivered by any party.

- All documentation will be provided in PDF, Excel, or Word format.

AV Installation

Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Installation	Provide a complete installation of the AV equipment provided by the owner and in the bill of materials.	☒	☐	☐
Project Manager	Provide an audiovisual project manager for the duration of the project to coordinate audiovisual work with the owner and other trades.	☒	☐	☐
Engineer	Provide an audiovisual industry certified engineer.	☒	☐	☐
Shipping	Coordinate materials delivery.	☒	☐	☐
Demolition	Removal of any existing equipment and/or wire. – All removed equipment and material will be returned to the owner. Any material that does not need to be recycled will be disposed of on-site at the owner's request.	☒	☐	☐
Equipment Removal	Remove all decommissioned audiovisual equipment from the site. – Typically, equipment will be returned to the owner.	☐	☒	☐
Permits and Inspections	Obtain and pay for permits and inspections required for the work.	☐	☒	☐
Warehousing	Receive, obtain, test, and protect any devices, wiring, etc. in a Solutionz, Inc. facility then deliver or ship to the installation site.	☐	☒	☐
Low Voltage Cable Pulls	Furnish, Install, Label, Terminate and Test all AV low voltage cable that are run through floors, walls, ceilings, riser spaces, etc.	☒	☐	☐
Pre-fabrication - racks	Assemble project equipment racks. Install, configure, and test rack equipment before delivering to installation site.	☐	☒	☐
Pre-fabrication - furniture	Assemble project cabinets, credenzas, lecterns, AV carts or other AV furniture. Install, configure, and test furniture equipment before delivering to installation site.	☐	☒	☐
Pre-fabrication - plates	Fabrication, labeling and installation of any connection plates to be installed in the field including wall and floor plates before delivering to installation site.	☐	☒	☐
Site cleaning	Clean any dust, debris and rubbish created by audiovisual installation.	☒	☐	☐

AV Engineering

Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Map drawings	Provide engineered technical drawing(s) showing the location of all rooms on a floor plan.	☐	☒	☐

Infrastructure drawings	Provide engineered technical drawing(s) most often detailing conduit, rough-in, blocking, etc. requirements for the project for use by other trades in coordination with the system(s). – Requires an architecture AutoCAD drawing from the owner.	☐	☒	☐
Floor plan drawings	Provide engineered technical drawing(s) detailing the locations of AV devices on an architecture floor plan. – Requires an architecture AutoCAD drawing from the owner.	☐	☒	☐
Reflected Ceiling plan drawings	Provide engineered technical drawing(s) detailing the locations of AV devices on an architecture reflected ceiling plan. – Requires an architecture AutoCAD drawing from the owner.	☐	☒	☐
Riser drawings	Provide engineered technical drawing(s) detailing low voltage cabling in the system(s)	☐	☒	☐
Elevation drawings	Provide engineered technical drawing(s) detailing the elevation and location of all devices on the wall(s).	☐	☒	☐
Flow schematic drawings	Provide engineered technical drawing(s) showing the schematic design of the system including device connections, signal types, and equipment parts, etc.	☒	☐	☐
Rack drawings	Provide engineered technical drawing(s) detailing the layout of any equipment racks, cabinets, lecterns, etc.	☒	☐	☐
I/O Plate drawings	Provide engineered technical drawing(s) detailing any connection plates for the project to be installed in the field or on any equipment rack, including specific plate labeling.	☐	☒	☐
Detail drawings	Provide engineered technical drawing(s) detailing any custom or specialty work, including but not limited to custom mounts, rigging, console design, lectern layout, furniture, etc.	☐	☒	☐
System Commissioning	Configure and setup system for proper operation as coordinated with customer and/or specifications.	☒	☐	☐
Wireless configuration	Setup and configuration of wireless presentation gateway devices enabling connection of sources using Wi-Fi or other wireless technology.	☒	☐	☐
Provisioning, registration, and back-end management	Provide any provisioning, registration and back-end management for Unified Communication, Video Codecs or VoIP services	☐	☒	☐
IP Schedule	Provide IP schedule with a list of fixed or static IP addresses, ISDN numbers and telephone numbers used for audiovisual equipment.	☒	☐	☐
Frequency Schedule	Provide a list of frequencies and/or channels used for wireless microphone and assistive listening systems.	☐	☒	☐
Infrastructure requirement document	Provide an infrastructure requirement document	☒	☐	☐
Additional Install support documents	Provide installation support documents - Cable pull schedules, wall weight calculations, rack power calculations, rack heat dissipation calculations, etc.	☐	☒	☐

AV Control Programming				
Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Programming	Develop and test any custom system programming for proper operation as coordinated with customer and/or specifications	☒	☐	☐

Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Programming preview documents	Provide a preliminary layout of all remote-control devices (touch panels, remote controls, etc.), submitted electronically.	☒	☐	☐
Pre-programming review	Review of user interface with the owner to ensure proper control functions.	☒	☐	☐

System Testing and Verification				
Item	**Description**	**In Scope**	**Out of Scope**	**Existing/ Not Applicable**
System Testing	Verification of system functionality and completeness of system configurations including software version verification operational accuracy	☒	☐	☐
Testing documentation	Provide documentation of testing results.	☐	☒	☐

Training				
Item	**Description**	**In Scope**	**Out of Scope**	**Existing/ Not Applicable**
On-site Training – key customer personnel	Provide on-site training with key customer personnel as specified and required by the project	☒	☐	☐
On-site Training – End-users	Provide on-site training with key end-users as specified and required by the project	☐	☒	☐
Remote Training	Provide online training, either self-paced or instructor guided as specified and required by the project.	☐	☒	☐
User documentation	Provide comprehensive user training materials, typically in electronic (PDF) format, as specified and required by the project.	☐	☒	☐

Project Closeout				
Item	**Description**	**In Scope**	**Out of Scope**	**Existing/ Not Applicable**
Engineering support	Post-sale engineering support	☒	☐	☐
Drawing Set	Provide a complete set of all engineered drawings reflecting the complete system as installed, which may have varied from the originally engineered set of drawings based on unique changes/adds/deletions during the installation period.	☒	☐	☐
Equipment data/cut sheets	Provide a complete set of data/cut sheets for all primary/major pieces of equipment being supplied for the project showing brand/make & model along with the detailed technical specifications submitted prior to project deployment.	☐	☒	☐
Equipment numbers	Equipment list for each room with manufacturer, model number, serial number, client tracking number (if applicable), and other unique equipment numbers for installed equipment in spreadsheet format.	☐	☒	☐
Operation guides	A complete set of manufacturer's operations and/or owner's manuals for all primary/major pieces of equipment submitted during the closeout period of the project.	☐	☒	☐
Replacement parts	A list of necessary and recommended replacement parts for a normal maintenance period of one year.	☐	☒	☐
Warranty	Include the terms of the warranty and the appropriate contact phone numbers for service.	☒	☐	☐

Software and configuration files	Software files for graphical user interface, source code, DSP, and equipment settings on non-volatile electronic media. Provide electronic copies of compiled and un- compiled programming files	☒	☐	☐

General Contractor Work				
Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Millwork	Any millwork modifications for credenza and/or table to install components or cabling.	☐	☒	☐
Lift and scaffolding	If necessary, provide a lift and/or scaffolding capable of safely reaching and lifting required personnel and equipment to correct mounting/wiring positions.	☐	☒	☐
Blocking	Provide appropriate blocking and/or structural support for wall mounted equipment cabinets and/or specialty field devices like large format displays, large format speakers, projectors, etc. as specified and required by the project.	☐	☒	☐
Rough-in	Cutting, patching, and painting of walls and/or ceilings, including ceiling tiles and grid.	☐	☒	☐
Conduit	Install cable conduit.	☐	☒	☐
Structure above ceiling	Installation of any structure attached to the deck above finished ceiling, including but not limited to channel, threaded rod, and other hardware as required to support projectors, lifts, projection screens, and ceiling speakers	☐	☒	☐
Repair after installation	Repair any ceiling support structure that is required to be modified by Solutionz to install any in-ceiling component such as loudspeakers, projector and display mounts, and projection screens.	☐	☒	☐

Electrical Work				
Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Power outlets	Provide power as specified at all required locations including equipment racks and field devices.	☐	☒	☐
Backboxes	Backboxes as specified at all locations as required for the project	☐	☒	☐
Wall boxes	Wall boxes as specified at all locations as required by the project.	☐	☒	☒
Mud rings	Mud rings as specified at all locations as required by the project.	☐	☒	☐
Floor boxes	Floor boxes as specified at all locations as required by the project.	☐	☒	☐

Telecom Work				
Item	Description	In Scope	Out of Scope	Existing/ Not Applicable
Data outlets	Provide local and/or broadband network circuits and connections	☐	☒	☐
Network administration	Provide a network admin to work with the Solutionz technician on any network issues that may arise, i.e., Codec NAT, VoIP card registration, etc. Note: Solutionz cannot update the owners' network infrastructure.	☐	☒	☐

Owners Responsibilities				
Item	**Description**	**In Scope**	**Out of Scope**	
Working hours	Provide adequate access to the install location during working hours.	☒	☐	
PoC (Point of Contact)	Provide a PoC (Point of Contact) to be available and able to answer any questions that the Solutionz technician has during the installation.	☒	☐	
Public internet	Provide access to the public internet for the download of firmware or control system program and/or drivers if required.	☒	☐	
Local assistance	Provide a capable assistant to assist the Solutionz technician with mounting any displays or other heavy objects.	☐	☒	
Disposal area	Provide access to refuse disposal area.	☒	☐	
Provisioning, registration, and back-end management	Provide any provisioning, registration and back-end management for Unified Communication, Video Codecs or VoIP services	☒	☐	
End user orientation	End users will be on-site and available and orientation, to be performed at the end of the install.	☒	☐	
Sign-off on system acceptance	An owner's representative will be on-site and available to sign-off on system acceptance upon the completion of orientation/demonstration.	☒	☐	

Statement of Work written by:

Terence Migas | Audio-Visual Engineer
Solutionz, Inc.
(425) 985-9120 | tmigas@solutionzinc.com

Acknowledgements:
I confirm that I have read, understand, and agree to comply with the above Statement of Work.

Customer Acceptance:

_____

Signature   Date

<u>References</u>

Kodiak Area Native Association

RUS DLT 2022 Distance Learning Project

R. Chad Burnside

chad.burnside@kodiakhealthcare.org

IT Director

D: (907) 486-9809 | C: (907) 539-6762 | chad.burnside@kodiakhealthcare.org

3449 Rezanof Drive East | Kodiak, Alaska 99615

Project Descripion-10 Distance Learning Rooms with interactive displays, integrated audio/video, zoom rooms, installation and maintenance.

North Slope Borough School District

Reggie Santos

reginald.santos@nsbsd.org

IT Director

907-787-9227

829 Aivik St Utqiagvik, AK 99723-0169

Project Description- Multiple Distance Learning Rooms at 11 schools and 1 district office. Solution included interactive displays, integrated audio/video, zoom rooms, installation, and maintenance.

Alaska Court System

Scott Rankin

srankin@akcourts.gov

Audio and Video Specialist

820 W 4th Ave

Anchorage, AK 99501-2005

907.264.0817

Project Descriptions- For over 7 years provided ongoing design build for courtrooms and business offices. The most recent (December 2023) being the Snowden Training Center which was over a $170,000project. This completed project consisted of a 135" video wall, 3 additional monitors, 2 cameras, and a full Biamp DSP and Shure audio solution. Solutionz has recently done the entire design for a 170-courtroom refresh which will be an estimated $6.5 million job. This design has taken over a year.