

Maple Grove Hockey Rink 1 Audio Upgrade

Maple Grove Park and Recreation

Revision: 1
Modified: 5/13/2022



Presented By:

Audio Logic Systems

7512 Washington Ave. South
Eden Prairie, MN 55344 USA
952-400-2222



PROPOSAL SUMMARY

Maple Grove Hockey Rink 1 Audio Upgrade

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| System | Installed Price |
|------------------------------------|---------------------|
| TERMS | \$0.00 |
| Bleacher Speakers Best | \$25,708.74 |
| Ice Speakers Best | \$25,708.74 |
| System Processor | \$3,520.38 |
| Control Touch Screen | \$3,415.70 |
| Rink 1 Inputs | \$2,212.50 |
| Office Inputs | \$175.00 |
| Loft Inputs & Control | \$1,237.99 |
| Lift, Infrastructure, Cable, Labor | \$22,831.25 |
| Admin & Training | \$17,900.00 |
| Project Subtotal: | \$102,710.30 |

SCOPE OF WORK

ALS Shall:

- 1) install new speakers covering the ice area of Rink 1
- 2) install new speakers covering the bleacher area of Rink 1
- 3) Install a new system processor that integrates Rink 1, Rink 2, office and Loft systems
- 4) Install a new control system to control Rink 1, Rink 2, office and Loft systems
- 5) Install new inputs in Rink 1
- 6) Install new inputs in Office
- 7) Install new inputs in the Loft area
- 8) Reuse and reconfigure the two AV equipment racks in the office
- 9) Remove and Recycle old and unused equipment
- 10) Estimated install length is 2 two weeks from the beginning of work

Client shall:

- 1) supply a personnel lift capable of reaching all point of the arena ceiling
- 2) provide any additional electrical power required by project.



1 ALS Installs Disclaimer- Client Lift
 Client shall provide personnel lift capable of reaching install positions throughout the room. If Client cannot provide a lift, ALS will provide a lift and invoice Client.



1 ALS Installs Disclaimer Electrical
 Customer is responsible for all high voltage electrical work and materials required by this proposal. This proposal does not include high voltage equipment or high voltage installation labor.



1 ALS Installs Disclaimer First Shift, Non-Prevailing wage
 All labor is quotes as first Shift (between 6am and 5pm). Quoted labor does not qualify for prevailing wage projects. If prevailing wage labor or 2nd or 3rd shift labor is required ALS will provide a quote for those additional costs.



1 ALS Installs Disclaimer Sales Tax
 This proposal does not include federal, state, county, or city sale/use tax. Client is responsible for any applicable sales or use tax relating to this purchase.



1 ALS Installs TERMS 1
 If installation of the system can not be substantially completed by Nov. 4, 2022, Audio Logic will provide a similar system to invoice # 14361 dated 2/09/22 for the period of Nov. 2022 through March 2023 at a reduced the cost of \$1,500. Payment for the rental shall be part of 15% project allowance.

TERMS Total

\$0.00

* Price Includes Accessories

This system is the same manufacture and comparable in performance and output to the 2021-2022 rental system that was used to cover the bleachers. This system would be cable of projecting full range music and announcements over any crowd size.



- 1 ALS Rigging Hardware**
Misc Rigging Hardware / Shop Supplies



- 1 ALS Installs Connectors**
Misc Connectors / Shop Supplies



- 1 ALS Installs Shipping**
Normal ground shipping charges



- 4 d&b audiotechnik Z1611.000 24S-D Loudspeaker**
24S-D Loudspeaker



- 4 d&b audiotechnik Z5553.000 24S Flying bracket
24S Flying bracket



- 1 d&b audiotechnik Z2770.500 30D Amplifier**
30D Amplifier US / CA / KR

Bleacher Speakers Best Total

\$25,708.74

* Price Includes Accessories

This system is the same manufacture and comparable in performance and output to the 2021-2022 rental system that was used to cover the bleachers. This system would cover the ice area and would be used for music and announcements.



1 ALS Rigging Hardware
Misc Rigging Hardware / Shop Supplies



1 ALS Installs Connectors
Misc Connectors / Shop Supplies



1 ALS Installs Shipping
Normal ground shipping charges



4 d&b audiotechnik Z1611.000 24S-D Loudspeaker
24S-D Loudspeaker



4 d&b audiotechnik Z5553.000 24S Flying bracket
24S Flying bracket



1 d&b audiotechnik Z2770.500 30D Amplifier
30D Amplifier US / CA / KR

Ice Speakers Best Total

\$25,708.74

* Price Includes Accessories

This system processors replaces all processing for Rink 1 and communicates with the Rink 2 system. It is the same line and family of system processors as is currently in Rink 2.



- 1 ALS Installs Connectors**
Misc Connectors / Shop Supplies



- 1 ALS Installs Shipping**
Normal ground shipping charges



- 1 BSS BLU-100 BSSBLU100M**
I/O device

- 1 Netgear GSM4230PX-100NAS NGR-GSM4230PX100NAS**
Netgear M4250 26G4XF POE+ MNGD SWITCH

System Processor Total

\$3,520.38

* Price Includes Accessories

This section puts a 7 inch touch screen to system control of all parts of the audio system. This section also puts a similar control box as currently in Rink 2 in Rink 1.



1 ALS Installs Connectors
Misc Connectors / Shop Supplies



1 ALS Installs Programming
Programming Costs



1 AMX MT-702 FG5969-53
MT-702



1 AMX NX-1200 FG2106-01
NX-1200



1 AMX AVB-VSTYLE-RMK-1U FG1010-720-01
AVB-VSTYLE-RMK-1U

1 AMX PSR5.4 FG423-48
PSR5.4



1 BSS EC-4BV-WHT-US BSSEC4BV-WHT-M
Ethernet Controller

Control Touch Screen Total

\$3,415.70

* Price Includes Accessories

Rink 1 Inputs

This section replaces the mixer in the Rink 1 scorers box.



- 1 ALS Installs Connectors**
Misc Connectors / Shop Supplies



- 1 QSC unD6IO-BT unD6IO-BT**
4x2 Channel 2 Gang US, Dante/AES67 Wall Plate w/Bluetooth, RCA, 3.5 mm I/O, PoE (white and black faceplates included).



- 1 QSC unDX4I unDX4I**
4x2 Channel Dual Gang, Dante/AES67 US Wall Plate 4 Mic/Line In (XLR), Phoenix I/O, PoE.

Rink 1 Inputs Total

\$2,212.50

Office Inputs

Add inputs for the current office equipment tuner and tape /CD player



- 1 ALS Installs Connectors**
Misc Connectors / Shop Supplies

Office Inputs Total

\$175.00

Loft Inputs & Control

Updates the existing loft inputs and control to work with the new system



- 1 ALS Installs Connectors**
Misc Connectors / Shop Supplies



- 1 BSS EC-4BV-WHT-US BSSEC4BV-WHT-M**
Ethernet Controller



- 1 QSC unDX4I unDX4I**
4x2 Channel Dual Gang, Dante/AES67 US Wall Plate 4 Mic/Line In (XLR), Phoenix I/O, PoE.

Loft Inputs & Control Total

\$1,237.99

* Price Includes Accessories



1 ALS Installs Connectors
Misc Connectors / Shop Supplies



1 ALS Installs Disclaimer- Client Lift
Client shall provide personnel lift capable of reaching install positions throughout the room. If Client cannot provide a lift, ALS will provide a lift and invoice Client.



1 ALS Installs Install Labor
Installation Commercial Labor



1 ALS Installs Programming
Programming Costs

1 ALS Installs Shop Labor
Shop Prep Labor



1 ALS Installs Wire Pulling
Wire pulling for project



2500 West Penn Wire-cdt 227BK1000 227
1P 12G STRD USHLD PVC JKT



2000 West Penn Wire-cdt 4245EZBK1000 4245
4P 24G SLD CAT 5E PVC



500 West Penn Wire-cdt 454BK1000 10454
1P 22G STR B/SHLD PVC-BLK

Lift, Infrastructure, Cable, Labor Total

\$22,831.25

* Price Includes Accessories



1 ALS Installs Design

Design Costs



1 ALS Installs Misc Allowance

15% allowance for equipment price increases, shipping cost increases, and rental equipment contingency. ALS will itemize any allowance amount used during the project on the final invoice or as a change order. Unused amounts will be deducted from the final invoice.



1 ALS Installs Project Management

Project Manager



1 ALS Installs System Commissioning

System Commissioning and Final System Check
 - Both Rink 1 & Rink 2 tuning (2 Days)

Admin & Training Total

\$17,900.00

Project Subtotal:

\$102,710.30

* Price Includes Accessories

PROJECT SUMMARY

| | |
|---------------------------|--------------|
| Total Installation Price: | \$102,710.30 |
|---------------------------|--------------|

| | |
|---------------------|---------------------|
| Grand Total: | \$102,710.30 |
|---------------------|---------------------|

Client: Paul Liebenow

Date

Contractor: Audio Logic Systems

Date