

Lakeville

ARENAS

APRIL 19, 2023 BOARD MEETING

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| Resolution 4192023.1 | 57-58 |
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| Apex Energy Report | 86-137 |

Lakeville Arenas Board Meeting Agenda
Wednesday April 19, 2023
3:30 p.m. Ames Arena Meeting Room

1) **Meeting Call to Order**

2) **Consent Agenda**

Approval of Lakeville Arenas Board Minutes for the March 15, 2023.

Receipt of Lakeville Arenas Financial Report for March 2023.

Receipt of Lakeville Arenas Budget Report for March 2023.

Receipt of Lakeville Arenas Check Register for March 2023.

Receipt of Lakeville Arenas Portfolio Holdings for March 2023.

Action(s) Needed: Motion to approve the consent agenda for the April 19, 2023, board meeting.

3) **Arenas Manager's Report**

a) **Arenas Manager Report Review/Discussion.**

i) Customer & Special Event Updates

ii) Operations

iii) Repairs & Maintenance

iv) Project Management

v) Financials

b) **Acknowledgements/Approvals detailed in Managers Report.**

i) Nick Ames – New Operations Manager

ii) New Point of Sale Platform

iii) Dasher Board Purchase for Outdoor Rink – Motion Needed

iv) Hasse Outdoor Rink Submittals: Rink Tec Invoices 5 & 6, SCR Change Order.

v) Copy of the Hasse Indoor Rink Dasher Board Inspection & Repair Quote

Action(s) Needed:

Motion to accept the Arena Managers Reports and Acknowledgements/Approvals as submitted.

4) **Apex Energy Savings Project Energy Improvement Debt Payment Update**

Discussion.

Action(s) Needed: None at this time.

5) **Resolution 4192023.1 Amending the 2023 Reserve Fund Budget to purchase a new set of dasher boards for Hasse Arena.**

Discussion.

Action(s) Needed: Motion to approve Resolution 4192023.1 Amending the 2023 Reserve Fund Budget to purchase a new set of dasher boards for Hasse Arena.

6) **2024 Proposed Budget**

Discussion.

Action(s) Needed: Motion to send the proposed budget to the City Council and School Board for review and comment.

7) **Other Business**

8) **Signatures Required**

a) Lakeville Arenas Board Meeting Minutes for March 15, 2023.

b) Resolution 4192023.1 if approved.

9) **Adjourn**

Lakeville Arenas Board of Directors Meetings

Every 3rd Wednesday of the month at 3:30pm, Ames Arena Meeting Room, 19900 Ipava Ave. Lakeville MN 55044

Lakeville

ARENAS

CONSENT AGENDA FOR APRIL 19, 2023 BOARD MEETING

| | |
|-----------------------------------|--------------|
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Lakeville Arenas Board Meeting Minutes
Wednesday March 15, 2023
3:30 p.m. Ames Arena Meeting Room

Meeting Call to Order

Meeting was called to order at 3:30 by Ms. Keliher.

Board Members Present: Keliher, Miller, Volk

Absent: VanZyl, Patterson

Other Present: Jerilyn Erickson - City of Lakeville Finance Director, Joe Bergquist – Lakeville Arenas Manager

Appointment of Officers

2022 Chair: Judy Keliher

2023 Chair: Judy Keliher

2022 Vice Chair: Michelle Volk

2023 Vice Chair: Michelle Volk

2022 Secretary: Troy Patterson

2023 Secretary: Troy Patterson

Board members discussed the 2023 officer position and agreed to have them remain the same for 2022.

A motion was made by Mr. Miller to appoint Judy Miller to Chair, Michelle Volk to Vice Chair, and Troy Patterson to Secretary, motion was seconded by Ms. Volk. There was no further discussion and the motion carried 3-0.

Consent Agenda

Approval of Lakeville Arenas Board Minutes for the January 18, 2022, meeting.

Receipt of Lakeville Arenas Check Register for December 2022.

Receipt of Lakeville Arenas Financial Report for January 2023.

Receipt of Lakeville Arenas Budget Report for January 2023.

Receipt of Lakeville Arenas Check Register for January 2023.

Receipt of Lakeville Arenas Portfolio Holdings for January 2023.

Receipt of Lakeville Arenas Financial Report for February 2023.

Receipt of Lakeville Arenas Budget Report for February 2023.

Receipt of Lakeville Arenas Check Register for February 2023.

Receipt of Lakeville Arenas Portfolio Holdings for February 2023.

A motion to approve the consent agenda for the March 15, 2023, board meeting was made by Ms. Volk, motion was seconded by Mr. Miller. There was no further discussion and the motion carried 3-0.

Arenas Manager's Report

Acknowledgements/Approvals detailed in Managers Report.

Approval of Rink 2 Overhead Door Replacement: Approximately \$17,000.00 (Not Currently Budgeted)

Approval of Hasse Zamboni Battery Pack Replacement: Approximately \$12,000.00 (Not Currently Budgeted)

Discussion

Mr. Bergquist Reviewed the Arenas Managers Report with the board. Discussion took place regarding the proposed resolution to for the arena's financial contribution towards the Apex energy improvement debt service. Mr. Bergquist discussed his concerns with determining the true energy savings without individual monitoring of all the affected equipment before and after the project because of no actual dollar savings can be seen in the electric bills, which was expected for the financial commitment towards the debt. Mr. Bergquist informed the board that the preliminary report from Apex was showing a savings of approximately \$74,000 and was expecting it to increase as a month was missing in the report. Apex is currently updating their report and will be re-submitting it within the next week. Mr. Bergquist is also waiting on a reply from Xcel Energy for actual usage reports to help with determining actual savings. Discussion continued between the board members, Jerilyn Erickson from the City's Finance Department, and Mr. Bergquist regarding actual savings and the budget impact of the debt service commitment.

A motion to accept the Arenas Managers Report and acknowledgements and approvals as submitted was made by Ms. Volk, seconded by Mr. Miller. There was no further discussion and the motion carried 3-0.

Resolution 3152023.1 Amending the 2022 Budget Expenses

Jerilyn Erickson from the Finance Department explained the reason for the 2022 budget amendment was due to a recommendation by the auditors to re-classify some expense that had been coded against a revenue account that they believed should be recognized within an expense account on the general ledger. This change caused year end actual expenses to exceed the budgeted expenses, which requires an amendment to the 2022 budget to comply with state law. There is no financial impact to the outcome of the year end financials.

Motion to approve Resolution 3152023.1 Amending the Lakeville Arenas 2022 Budget was made by Mr. Miller, seconded by Ms. Volk. There was no further discussion, and the motion carried 3-0.

Apex Energy Savings Project Energy Improvement Debt

The board agreed to table Resolution 3152023.2 for Lakeville Arenas financial contribution towards energy improvement debt until the revised Apex report and Excel Energy usage reports are received and analyzed.

Other Business

There was no new business.

Adjourn

Motion to adjourn was made by Ms. Volk, seconded by Mr. Miller. There was no further discussion, and the motion carried 3-0.

Lakeville Arenas Board of Directors Meetings

Every 3rd Wednesday of the month at 3:30pm, Ames Arena Meeting Room, 19900 Ipava Ave. Lakeville MN 55044



Memorandum

To: Lakeville Arenas Board
From: Joseph Bergquist, Arenas Manager
Suzette Hall, Financial Analyst
Copy: Jerilyn Erickson, Finance Director
Date: April 12, 2023
Subject: March 31, 2023 Monthly Financial Statements (unaudited)

The March 2023 monthly financial report covers the period starting January 1, 2023 through March 31, 2023.

STATEMENT OF NET ASSETS
Operating & Capital Project Funds
(Unaudited)

| | |
|-----------------------------|---------------------|
| Assets | |
| Cash | \$ 1,429 |
| Cash on hand | 2,000 |
| Investments | 1,087,703 |
| Market Value Adjustment | (16,412) |
| Interest receivable | 4,852 |
| Accounts receivable | 13,028 |
| Accounts receivable - Other | 15,638 |
| Inventory | 8,153 |
| Prepaid expenses | 11,977 |
| Total assets | <u>\$ 1,128,368</u> |
| Liabilities | |
| Salaries payable | \$ 12,650 |
| Accounts payable | 31,305 |
| Sales tax payable | 2,442 |
| Deferred revenue | 31,550 |
| Total liabilities | <u>77,947</u> |
| Net assets | <u>\$ 1,050,421</u> |

As of March, the Lakeville Arenas had cash balances of \$3,429 and an investment balance of \$1,087,703. Cash and investment balances reflect the need for liquidity due to impending expenditures.

At the end of March, there were nineteen investments held by Lakeville Arenas. The overall investment strategy is based on cash flow projections. Money not required for short term operations is invested in a manner that ensures safety, liquidity and public trust while maximizing yield.

See the attached investment portfolio as of March 31, 2023.

Accounts receivable at March 31, 2023 amounted to \$13,027.90. The table below shows a breakdown of the accounts receivable.

| Days | 0-30 | 31-60 | 61-90 | >90 | Total |
|-------------|-------------|--------------|--------------|---------------|--------------|
| Amount | 13,028 | 0 | 0 | 0 | 13,028 |
| Percentage | 100% | 0% | 0% | 0% | 100% |

| <u>ACCOUNTS RECEIVABLE @ 3/31/2023</u> | | <u>PER</u> | <u>Accts Rec.</u> | <u>Late</u> | <u>Accts Rec.</u> | <u>Payment</u> |
|--|---------|--------------|-------------------|-------------|-------------------|----------------|
| | | <u>ABOVE</u> | <u>Sales Tax</u> | <u>Fees</u> | <u>Rental</u> | <u>Date</u> |
| HOCKEY FINDER | (03/23) | 2,100.00 | 149.63 | | 2,249.63 | |
| HERITAGE FIGURE SKATING CLUB (HFSC) | (03/23) | 4,200.00 | - | | 4,200.00 | |
| HFSC - SHOW ICE | (03/23) | 3,225.01 | - | | 3,225.01 | |
| FARMINGTON YOUTH HOCKEY | (03/23) | 1,500.00 | - | | 1,500.00 | |
| SKATE WITH WEEZY | (03/23) | 900.00 | 64.13 | | 964.13 | |
| SEAN WALKER | (03/23) | 180.00 | 12.82 | | 192.82 | |
| MN MENACE - 2009's | (03/23) | 650.00 | 46.31 | | 696.31 | |
| | | - | - | - | - | - |
| Total Accounts Receivable | | 12,755.01 | 272.89 | - | 13,027.90 | - |

Inventory is comprised of pro-shop merchandise and concessions at the Ames and Hasse Arenas.

Prepaid expenses include workers compensation (2nd, 3rd, and 4th quarters 2023).

Salaries payable of \$ 12,650, represents wages earned through March 31, 2023 to be paid in the following month.

STATEMENTS OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE

General Fund

The statement of revenues and expenses and changes in fund balance is presented on page four (4) and only reports activity in the “General (Operating) Fund.”

STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE

GENERAL FUND

FOR THE THREE-MONTH PERIOD ENDING MARCH 31, 2023

(unaudited)

| | <u>Adopted Budget</u> | <u>3/31/2023 Actual</u> | <u>Variance From Adopted Budget Pos / (Neg)</u> | <u>%</u> | <u>3/31/2022 Actual</u> | <u>Variance from 2022 Actual Pos / (Neg)</u> |
|-------------------------------------|---------------------------|-----------------------------|---|--------------|-----------------------------|--|
| Operating Revenues | | | | | | |
| Arena rental | \$ 1,106,813 | \$ 402,993 | \$ (703,820) | 36.4% | \$ 385,166 | \$ 17,827 |
| Learn to skate | 91,773 | 28,060 | (63,713) | 30.6% | 25,471 | 2,589 |
| Admissions-public skating | 32,391 | 14,194 | (18,197) | 43.8% | 6,198 | 7,996 |
| Arena Programming | 109,296 | 6,632 | (102,664) | 0.0% | - | 6,632 |
| Event admissions (net of ISD reimb) | 47,148 | 26,268 | (20,880) | 55.7% | 31,108 | (4,840) |
| Concession sales (net) | 97,165 | 65,523 | (31,642) | 67.4% | 33,333 | 32,190 |
| Proshop sales (net) | 2,500 | 1,296 | (1,204) | 51.8% | 281 | 1,015 |
| Skate sharpening | 9,727 | 3,271 | (6,456) | 33.6% | 1,200 | 2,071 |
| Skate rental | 8,122 | 2,193 | (5,929) | 27.0% | 1,883 | 310 |
| Vending machines | - | 1,590 | 1,590 | | 596 | 994 |
| Other - advertising contract | 30,000 | 14,317 | (15,683) | 47.7% | 6,561 | 7,756 |
| Other / donations | 2,000 | 481 | (1,519) | 0.0% | 445 | 36 |
| Interest income | 10,000 | 4,163 | (5,837) | 41.6% | 517 | 3,646 |
| Net Chg in FV of Investments | - | 381 | 381 | 0.0% | (8,481) | 8,862 |
| Total revenues | <u>1,546,935</u> | <u>571,362</u> | <u>(975,573)</u> | <u>36.9%</u> | <u>484,278</u> | <u>87,084</u> |
| Operating Expenses | | | | | | |
| Personnel | 611,030 | 158,475 | 452,555 | 25.9% | 129,383 | (29,092) |
| Commodities | 78,628 | 11,086 | 67,542 | 14.1% | 4,988 | (6,098) |
| Utilities | 329,102 | 80,286 | 248,816 | 24.4% | 88,559 | 8,273 |
| Contractual | 181,816 | 32,610 | 149,206 | 17.9% | 44,606 | 11,996 |
| Other | 104,051 | 59,722 | 44,329 | 57.4% | 56,189 | (3,533) |
| Debt service | 76,335 | 6,750 | 69,585 | 0.0% | 7,375 | 625 |
| Capital reserve fund | 140,000 | 35,000 | 105,000 | 25.0% | 35,000 | - |
| Total Expenses | <u>1,520,962</u> | <u>383,929</u> | <u>1,137,033</u> | <u>25.2%</u> | <u>366,100</u> | <u>(17,829)</u> |
| Change in fund balance | 25,973 | 187,433 | 161,460 | | 118,178 | 69,255 |
| Fund balance - January 1, 2023 | | <u>462,882</u> | | | | |
| Fund balance - March 31, 2023 | | <u>\$ 650,315</u> | | | | |

Capital Maintenance Reserve Fund

The following statement of revenues and expenses and changes in fund balance reflects activity for the “Capital Maintenance Reserve Fund.”

**STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE
CAPITAL MAINTENANCE RESERVE FUND
FOR THE THREE-MONTH PERIOD ENDING MARCH 31, 2023
(unaudited)**

| | 2023 Amended Budget | 3/31/2023 Actual | Variance from Amended Budget Positive(Negative) |
|--------------------------------|------------------------------------|-----------------------------|--|
| Revenues | | | |
| From General Fund | \$ 140,000 | \$ 35,000 | \$ 105,000 |
| Interest Revenue | <u>331</u> | <u>2,696</u> | <u>(2,365)</u> |
| Total Revenues | 140,331 | 37,696 | 102,635 |
| Expenses | <u>25,000</u> | <u>-</u> | <u>25,000</u> |
| Change in fund balance | 115,331 | 37,696 | 77,635 |
| Fund balance - January 1, 2023 | | <u>362,410</u> | |
| Fund balance - March 31, 2023 | | <u>\$ 400,106</u> | |

No capital projects are planned for 2023. An amendment was made to the Capital expenses for a down payment for a Zamboni.

A transfer is made from the General Fund to the Capital Maintenance Reserve Fund each year. This transfer finances future capital acquisitions and building improvements.

ARENA DEBT

The Hasse Arena construction was originally financed with a Lease Revenue Bond issued by the Lakeville Housing and Redevelopment Authority in 2006. The debt is repaid with property taxes levied by the City of Lakeville and Independent School District 194. The 2006 bonds were advance refunded by HRA Lease Revenue Refunding Bonds, Series 2016A. The HRA2016A debt was refunded in April 2022. See details below.

In June 2020, the Lakeville City Council authorized the issuance of debt (approximately \$770,000) for the Ames Arena parking lot improvements. The competitive sale took place on July 20 and closed on August 13. The bonds were issued with a premium of \$145,777 which were used to reduce the amount of debt issued to \$620,000. True interest cost was 0.83%. The debt principal will be paid by contributions from the Lakeville Hockey Association (LHA) and the Heritage Figure Skating Club (HFSC). The interest will be paid by Lakeville Arenas. Staff will be calculating an allocation of the premium so LHA and HFSC will be paying the par plus premium.

On November 16, 2020, the Lakeville City Council authorized the issuance of debt (approximately \$8 million) to fund the APEX energy savings improvement projects at both the Hasse and Ames Arenas. The competitive sale took place on January 19, 2021 and closed on February 16, 2021. The bonds were issued with a premium of \$313,284 which was used to reduce the amount of debt issued to \$7,770,000. True interest cost was 1.48%. The debt will be repaid using property taxes and revenues received from Independent School District #194 per a Joint Powers Agreement approved in August 2020. Per the JPA the debt and debt-related costs are paid 50/50 by the City and ISD#194.

On February 7, 2022, the City Council authorized the issuance of Taxable General Obligation Bonds, Series 2022B, to refund the HRA Lease Revenue Refunding Bonds, Series 2016A (noted above) and provide funding for constructing a new outdoor rink at the Hasse Arena. The sale of the bonds was held on March 7, 2022 and closed on April 5, 2022. True interest cost was 2.69%. The refunding resulted in savings of approximately \$130,000 over the term of the bonds. An amended and restated joint powers agreement to address the payment of the refunding portion of the 2022B bonds was approved by ISD#194 and the City of Lakeville in February 2022. Agreements have been approved with Lakeville Hockey Association (LHA) and Heritage Figure Skating Club (HFSC) for additional contributions to be used for debt repayment of the bonds issued for the new outdoor rink.

CAPITAL CONTRIBUTIONS NOT REFLECTED IN ARENA FINANCIAL REPORTS

In 2019, the City of Lakeville entered into gaming revenue/facility use agreements with Lakeville Hockey Association (LHA) and Heritage Figure Skating Club (HFSC). Per the agreements, funds received are recorded in a separate City capital projects fund.

The first amendment to the gaming revenue agreements was approved with both the Lakeville Hockey Association and the Heritage Figure Skating Club on August 15, 2022. The following chart is a summary of the agreements:

| Organization | Revised Term | Payments | Total Payments Anticipated |
|--------------|---|--|----------------------------|
| LHA | Twenty-three (23) years; 08/02/2019 – 08/01/2043 | 2020-2023: \$70,000/year 2024-2043: \$88,500/year | \$2,050,000 |
| HFSC | Twenty-three (23) years; 08/02/2019 – 08/01/2043 | 2019-2023: \$10,000/year 2024-2043: \$11,500/year | \$280,000 |

The Lakeville Hockey Association and the Heritage Figure Skating Club have both made their first half 2023 contributions.

RECOMMENDATION

Lakeville Arena Board “acknowledges” the receipt of the March 31, 2023 Financial Report.



LAKEVILLE ARENAS
Financial Statements as of 03/31/23
(Preliminary and Unaudited)

| ASSETS | OPERATIONS | CAPITAL PROJECTS | COMBINED |
|--|-------------------|---------------------|---------------------|
| Current Assets | | | |
| Cash & Investments | \$ 692,984 | \$ 398,148 | \$ 1,091,132 |
| Market Value Adjustment | (16,412) | - | (16,412) |
| Interest Receivable | 2,894 | 1,958 | 4,852 |
| Accounts Receivable - Customers | 13,028 | - | 13,028 |
| Accounts Receivable - Other | 15,638 | - | 15,638 |
| Inventory | 8,153 | - | 8,153 |
| Prepaid Expenses | 11,977 | - | 11,977 |
| Total Current Assets | 728,262 | 400,106 | 1,128,368 |
| | | | |
| Total Assets | \$ 728,262 | \$ 400,106 | \$ 1,128,368 |
| | | | |
| LIABILITIES AND RETAINED EARNINGS | | | |
| Current Liabilities | | | |
| Wages Payable | \$ 12,650 | \$ - | \$ 12,650 |
| Accounts Payable | 31,305 | - | 31,305 |
| Sales Tax Payable | 2,442 | - | 2,442 |
| Deferred Revenue - Advertising | 31,550 | - | 31,550 |
| Total Current Liabilities | 77,947 | - | 77,947 |
| | | | |
| Retained Earnings | | | |
| Reserved for Future Capital Purchases | - | 400,106 | 400,106 |
| Unreserved | 650,315 | - | 650,315 |
| Total Retained Earnings | 650,315 | 400,106 | 1,050,421 |
| | | | |
| Total Liabilities and Retained Earnings | \$ 728,262 | \$ 400,106 | \$ 1,128,368 |



LAKEVILLE ARENAS
Financial Statements as of 03/31/2023
(Preliminary and Unaudited) - Operations Only

| | 2023 | | Variance from | | | Variance from |
|---|------------------|-------------------|----------------------------|----------------|-------------------|----------------------------|
| | Adopted | 3/31/2023 | Amended Budget | Actual | 3/31/2022 | 2022 Actual |
| | Budget | Actual | Positive (Negative) | Percent | Actual | Positive (Negative) |
| Operating Revenues | | | | | | |
| Ice Rental | \$ 1,092,713 | \$ 402,946 | \$ (689,767) | 36.9% | \$ 384,982 | \$ 17,964 |
| Dry Floor Activities | 14,100 | 47 | (14,053) | 0.3% | 184 | (137) |
| Learn to Skate | 91,773 | 28,060 | (63,713) | 30.6% | 25,471 | 2,589 |
| Admissions-Public Skating | 32,391 | 14,194 | (18,197) | 43.8% | 6,198 | 7,996 |
| Arena Programming | 109,296 | 6,632 | (102,664) | 6.1% | - | 6,632 |
| Event Admissions(Net of ISD Reimb) | 47,148 | 26,268 | (20,880) | 55.7% | 31,108 | (4,840) |
| Concession Sales (Net) | 97,165 | 65,523 | (31,642) | 67.4% | 33,333 | 32,190 |
| Proshop Sales (Net) | 2,500 | 1,296 | (1,204) | 51.8% | 281 | 1,015 |
| Skate Sharpening | 9,727 | 3,271 | (6,456) | 33.6% | 1,200 | 2,071 |
| Skate Rental | 8,122 | 2,193 | (5,929) | 27.0% | 1,883 | 310 |
| Vending Machines | - | 1,590 | 1,590 | - | 596 | 994 |
| Other - Advertising Contract | 30,000 | 14,317 | (15,683) | 47.7% | 6,561 | 7,756 |
| Donations/Other | 2,000 | 481 | (1,519) | 24.1% | 445 | 36 |
| Interest Income | 10,000 | 4,163 | (5,837) | 41.6% | 517 | 3,646 |
| Net Chg in FV of Investments | - | 381 | 381 | 0.0% | (8,481) | 8,862 |
| Total Revenues | 1,546,935 | 571,362 | (975,573) | 36.9% | 484,278 | 87,084 |
| Operating Expenses | | | | | | |
| Salaries - Full Time | 323,503 | 58,273 | 265,230 | 18.0% | 53,583 | (4,690) |
| Salaries - Full Time - Overtime | 29,333 | 7,857 | 21,476 | 26.8% | - | (7,857) |
| Salaries - Part Time | 114,000 | 66,550 | 47,450 | 58.4% | 52,741 | (13,809) |
| Pera | 24,263 | 6,758 | 17,505 | 27.9% | 5,681 | (1,077) |
| FICA | 33,469 | 10,146 | 23,323 | 30.3% | 8,126 | (2,020) |
| Hospitalization | 53,790 | 4,580 | 49,210 | 8.5% | 5,802 | 1,222 |
| Life and Disability | 896 | 36 | 860 | 0.0% | 152 | 116 |
| Long Term Disability | 788 | 108 | 680 | 13.7% | 100 | (8) |
| FSA Plan | - | 14 | (14) | 0.0% | 12 | (2) |
| Dental Insurance | 3,180 | 161 | 3,019 | 5.1% | 325 | 164 |
| Workers Compensation | 13,944 | 3,992 | 9,952 | 28.6% | 2,861 | (1,131) |
| Salary Contingency | 13,864 | - | 13,864 | 0.0% | - | - |
| Office Supplies | 1,000 | 924 | 76 | 92.4% | 833 | (91) |
| Operating Supplies | 30,640 | 2,644 | 27,996 | 8.6% | 1,989 | (655) |
| Motor Fuels | 1,500 | 120 | 1,380 | 8.0% | 163 | 43 |
| Cleaning Supplies | 11,000 | 4,723 | 6,277 | 42.9% | 1,397 | (3,326) |
| Clothing | 2,500 | - | 2,500 | 0.0% | 36 | 36 |
| Safety Supplies | 788 | 456 | 332 | 57.9% | 541 | 85 |
| Equipment Parts/Building Supplies | 28,700 | 2,218 | 26,482 | 7.7% | 29 | (2,189) |
| Small Tools/Equipment | 2,500 | - | 2,500 | 0.0% | - | - |
| Computer Supplies | 5,000 | 381 | 4,619 | 0.0% | - | (381) |
| Fiscal Management Fee | 35,542 | 9,828 | 25,714 | 27.7% | 9,147 | (681) |
| Bank Charges | 15,500 | 8,069 | 7,431 | 52.1% | 4,588 | (3,481) |
| Audit | 6,554 | 5,000 | 1,554 | 76.3% | 5,000 | - |
| Use of Personal Auto | 303 | - | 303 | 0.0% | - | - |
| Advertising | 6,220 | - | 6,220 | 0.0% | 10,074 | 10,074 |
| Insurance | 25,637 | 8,805 | 16,832 | 34.3% | 4,979 | (3,826) |
| Electric Service | 239,917 | 46,716 | 193,201 | 19.5% | 64,293 | 17,577 |
| Gas Service | 89,185 | 33,570 | 55,615 | 37.6% | 24,266 | (9,304) |
| Utility Energy Savings (APEX) | (63,460) | - | (63,460) | 0.0% | - | - |
| Water and Sewer Service | 19,119 | 1,845 | 17,274 | 9.7% | 7,338 | 5,493 |
| Waste Disposal | 10,459 | 2,936 | 7,523 | 28.1% | 3,585 | 649 |
| Telephone/Pager | 3,436 | 714 | 2,722 | 20.8% | 722 | 8 |
| Other Contractual/Landscaping | 73,772 | 17,107 | 56,665 | 23.2% | 22,459 | 5,352 |
| Equipment Repair and Maintenance | 20,231 | 1,420 | 18,811 | 7.0% | 428 | (992) |
| Building Repair and Maintenance | 87,813 | 14,083 | 73,730 | 16.0% | 21,719 | 7,636 |
| Contract Cleaning | - | 1,922 | (1,922) | 0.0% | - | (1,922) |
| Debt Service Payments - Major Maintenance | 76,335 | 6,750 | 69,585 | 8.8% | 7,375 | 625 |
| Schools and Conferences | 5,000 | 400 | 4,600 | 8.0% | - | (400) |
| Dues/Subscriptions/Licenses | 16,881 | 4,971 | 11,910 | 29.4% | 1,797 | (3,174) |
| Snow Removal | 17,860 | 13,288 | 4,572 | 74.4% | 8,959 | (4,329) |
| Capital Outlay | - | 1,564 | (1,564) | - | - | (1,564) |
| Capital Reserve Fund | 140,000 | 35,000 | 105,000 | 25.0% | 35,000 | - |
| Total Expenses | 1,520,962 | 383,929 | 1,137,033 | 25.2% | 366,100 | (17,829) |
| Net Income (Loss) | \$ 25,973 | \$ 187,433 | \$ 161,460 | 0.0% | \$ 118,178 | \$ 69,255 |

Note: Payment amount may not reflect the actual amount due to data sequencing and/or data selection.

Council Check Summary

3/1/2023 - 3/31/2023

| Check # | Date | Amount | Supplier / Explanation | PO# | Doc No | Inv No | BU | Obj | Sub | Subledger | Account Description | BU Description | Co | Dept | Div | |
|--------------|------------------|----------|---|-----|--------|-------------------|------|------|-----|-----------|---------------------------|------------------------|-------|------|-----|--|
| 12526 | 3/15/2023 | | 120939 ABDO LLP | | | | | | | | | | | | | |
| | | 5,000.00 | ARENAS AUDIT YE 12/31/22 | | 413631 | 467903 | 8970 | 6221 | | | AUDIT | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 5,000.00 | | | | | | | | | | | | | | |
| 12541 | 3/15/2023 | | 133853 CINTAS | | | | | | | | | | | | | |
| | | 22.63 | RUG SERVICE 2/27/23 | | 413629 | 4147746451 | 8979 | 6280 | | | OTHER CONTRACTUAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 22.63 | | | | | | | | | | | | | | |
| 12553 | 3/15/2023 | | 110535 DALCO ENTERPRISES INC | | | | | | | | | | | | | |
| | | 285.28 | JANITORIAL SUPPLIES | | 413628 | 4049626 | 8970 | 6123 | | | CLEANING SUPPLIES | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 285.28 | | | | | | | | | | | | | | |
| 12554 | 3/15/2023 | | 100303 DICK'S SANITATION | | | | | | | | | | | | | |
| | | 377.83 | MAR 2023 SERVICE | | 413624 | 8834104T460 | 8979 | 6275 | | | WASTE DISPOSAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 376.51 | MAR 2023 SERVICE | | 413625 | 8832680T460 | 8989 | 6275 | | | WASTE DISPOSAL | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 754.34 | | | | | | | | | | | | | | |
| 12556 | 3/15/2023 | | 128385 DRIESSEN WATER INC | | | | | | | | | | | | | |
| | | 331.20 | FEB 2023 SERVICE | | 413627 | 10000802-02282023 | 8979 | 6280 | | | OTHER CONTRACTUAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 381.70 | FEB 2023 SERVICE | | 413626 | 10159178-02282023 | 8989 | 6280 | | | OTHER CONTRACTUAL | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 712.90 | | | | | | | | | | | | | | |
| 12560 | 3/15/2023 | | 100387 ECOLAB PEST ELIM | | | | | | | | | | | | | |
| | | 110.95 | PEST CONTROL 2/24/23 | | 413623 | 8854262 | 8979 | 6280 | | | OTHER CONTRACTUAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 110.95 | | | | | | | | | | | | | | |
| 12562 | 3/15/2023 | | 114176 FASTENAL COMPANY | | | | | | | | | | | | | |
| | | 1,435.14 | CLEANING SUPPLIES INVENTORY | | 413621 | MNLAK196440 | 8970 | 6123 | | | CLEANING SUPPLIES | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 1,232.67 | CLEANING SUPPLIES-INVENTORY | | 413622 | MNLAK196076 | 8970 | 6123 | | | CLEANING SUPPLIES | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 2,667.81 | | | | | | | | | | | | | | |
| 12563 | 3/15/2023 | | 127542 FBG SERVICE CORPORATION | | | | | | | | | | | | | |
| | | 1,179.00 | RR CLEANING SERV FEB 2023 | | 413620 | 943104 | 8979 | 6280 | | | OTHER CONTRACTUAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 743.00 | RR CLEANING SERV FEB 2023 | | 413620 | 943104 | 8989 | 6280 | | | OTHER CONTRACTUAL | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 1,922.00 | | | | | | | | | | | | | | |
| 12584 | 3/15/2023 | | 100253 JEFF REISINGER LAWN SERVICE INC | | | | | | | | | | | | | |
| | | 2,414.00 | FEB 2023 SNOW REMOVAL | | 413617 | 14693 | 8979 | 6322 | | | SNOW REMOVAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 1,995.00 | FEB 2023 SNOW REMOVAL | | 413616 | 14694 | 8989 | 6322 | | | SNOW REMOVAL | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 4,409.00 | | | | | | | | | | | | | | |
| 12607 | 3/15/2023 | | 121801 MEI TOTAL ELEVATOR SOLUTIONS | | | | | | | | | | | | | |
| | | 206.53 | MAR 2023 SERVICE | | 413615 | 1008795 | 8989 | 6283 | | | CONTRACT BUILDING REPAIR | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 206.53 | | | | | | | | | | | | | | |
| 12622 | 3/15/2023 | | 100474 R & R SPECIALTIES INC | | | | | | | | | | | | | |
| | | 342.95 | ZAM PARTS-BATTERY CAPS(6)TIPS | | 413613 | 0078316-IN | 8979 | 6131 | | | EQUIPMENT PARTS | AMES GENERAL | 08970 | 90 | 90 | |
| | | 60.00 | ZAM BLADE SHARPENING | | 413614 | 0078315-IN | 8979 | 6282 | | | CONTRACT EQUIPMENT REPAIR | AMES GENERAL | 08970 | 90 | 90 | |

Note: Payment amount may not reflect the actual amount due to data sequencing and/or data selection.

Council Check Summary

3/1/2023 - 3/31/2023

| Check # | Date | Amount | Supplier / Explanation | PO# | Doc No | Inv No | BU | Obj | Sub | Subledger | Account Description | BU Description | Co | Dept | Div | |
|-----------------|------------------|-----------|---|-----|--------|---------------|------|------|-----|-----------|----------------------------|------------------------|-------|------|-----|--|
| | | 277.17 | ARENAS-COPIER MAINT | | 413825 | 495944803 | 8979 | 6110 | | | OFFICE SUPPLIES | AMES GENERAL | 08970 | 90 | 90 | |
| | | 277.17 | | | | | | | | | | | | | | |
| 318240 | 3/14/2023 | | 141019 WILKUS PIZZA COMPANY, INC | | | | | | | | | | | | | |
| | | 168.00 | CONCESSIONS INVENTORY | | 413610 | 1026 | 8970 | 5532 | | | ICE ARENA CONCESSIONS COGS | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 168.00 | | | | | | | | | | | | | | |
| 318244 | 3/14/2023 | | 102661 XCEL ENERGY | | | | | | | | | | | | | |
| | | 13,711.02 | AMES ARENA | | 413700 | 817418262 | 8979 | 6271 | | | ELECTRIC SERVICE | AMES GENERAL | 08970 | 90 | 90 | |
| | | 7,424.08 | AMES SOLAR CREDITS | | 413700 | 817418262 | 8979 | 6271 | | | ELECTRIC SERVICE | AMES GENERAL | 08970 | 90 | 90 | |
| | | 6,286.94 | | | | | | | | | | | | | | |
| 318246 | 3/14/2023 | | 102661 XCEL ENERGY | | | | | | | | | | | | | |
| | | 9,607.69 | HASSE ARENA | | 413702 | 817459224 | 8989 | 6271 | | | ELECTRIC SERVICE | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 4,374.44 | HASSE ARENA SOLAR CR | | 413702 | 817459224 | 8989 | 6271 | | | ELECTRIC SERVICE | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 5,233.25 | | | | | | | | | | | | | | |
| 318415 | 3/28/2023 | | 100621 CHARTER COMMUNICATIONS | | | | | | | | | | | | | |
| | | 8.42 | MAR 2023 CABLE TV SERVICE | | 414486 | 0508574030623 | 8979 | 6280 | | | OTHER CONTRACTUAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 8.42 | | | | | | | | | | | | | | |
| 318416 | 3/28/2023 | | 137994 CHEMAQUA | | | | | | | | | | | | | |
| | | 512.23 | COOLING TOWER WATER TREATMENT | | 414481 | 8152831 | 8979 | 6280 | | | OTHER CONTRACTUAL | AMES GENERAL | 08970 | 90 | 90 | |
| | | 512.23 | | | | | | | | | | | | | | |
| 318418 | 3/28/2023 | | 100025 CITY OF LAKEVILLE | | | | | | | | | | | | | |
| | | 3,276.00 | ARENAS MAR 2023 FISCAL AGENT | | 414484 | 33881 | 8970 | 6214 | | | FISCAL CONSULTANT FEES | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 3,276.00 | | | | | | | | | | | | | | |
| 318459 | 3/28/2023 | | 139118 HERITAGE FIGURE SKATING CLUB | | | | | | | | | | | | | |
| | | 80.35 | HFSC CONC STAFF FUNDRAISER1/31 | | 414482 | 20230228A | 8970 | 6280 | | | OTHER CONTRACTUAL | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 80.35 | | | | | | | | | | | | | | |
| 318487 | 3/28/2023 | | 119725 MN ENERGY RESOURCES CORP | | | | | | | | | | | | | |
| | | 6,367.37 | AMES ARENA | | 414538 | 202302 | 8979 | 6272 | | | GAS SERVICE | AMES GENERAL | 08970 | 90 | 90 | |
| | | 5,107.93 | HASSE ARENA | | 414538 | 202302 | 8989 | 6272 | | | GAS SERVICE | HASSE GENERAL | 08970 | 90 | 90 | |
| | | 11,475.30 | | | | | | | | | | | | | | |
| 20230103 | 3/1/2023 | | 139123 MINNESOTA HEALTHCARE CONSORTIUM | | | | | | | | | | | | | |
| | | 715.42 | MAR 2023 PREMIUM | | 413851 | 202303 | 8970 | 6051 | | | HOSPITALIZATION INSURANCE | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 715.42 | | | | | | | | | | | | | | |
| 20230118 | 3/8/2023 | | 132424 FIDELITY SECURITY LIFE INSURANCE CO | | | | | | | | | | | | | |
| | | 4.53 | MAR 2023 EYEMED PREMIUM | | 413846 | 165678447 | 8970 | 1371 | | | PREPAID EXPENSES | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |
| | | 4.53 | | | | | | | | | | | | | | |
| 20230119 | 3/9/2023 | | 136242 WELLS FARGO PCARD-ARENAS | | | | | | | | | | | | | |
| | | 597.90 | SPARX-SKATE SHARPENING WHEELS | | 413864 | 202302 | 8970 | 6120 | | | OPERATING SUPPLIES | LAKEVILLE ARENAS ADMIN | 08970 | 90 | 90 | |

City of Lakeville
Portfolio Holdings
Investment Portfolio - by Portfolio
Report Format: By Transaction
Group By: Portfolio Name
Average By: Face Amount / Shares
Portfolio / Report Group: Lakeville - Arenas
As of 3/31/2023

| Description | CUSIP/Ticker | Settlement Date | YTM @ Cost | Face Amount/Shares | Cost Value | Book Value | Market Value | Maturity Date | Days To Maturity | Accrued Interest | % of Portfolio |
|---|--------------|-----------------|------------|--------------------|--------------|--------------|--------------|---------------|------------------|------------------|----------------|
| Lakeville - Arenas | | | | | | | | | | | |
| 4M General LGIP | LGIP6101M | 4/1/2019 | 4.683 | 287,702.17 | 287,702.17 | 287,702.17 | 287,702.17 | N/A | 1 | | 26.45 |
| Morgan Stanley Bank 2.55 6/13/2023 | 61690UHD5 | 6/13/2019 | 2.550 | 50,000.00 | 50,000.00 | 50,000.00 | 49,747.83 | 6/13/2023 | 74 | 377.26 | 4.60 |
| Barclays Bank, Wilmington DE 4.6 6/14/2023 | 06740KRJ8 | 12/14/2022 | 4.600 | 50,000.00 | 50,000.00 | 50,000.00 | 49,952.45 | 6/14/2023 | 75 | 674.25 | 4.60 |
| Ally Bank, Midvale UT 3.95 7/6/2023 | 02007GZQ9 | 10/6/2022 | 3.950 | 40,000.00 | 40,000.00 | 40,000.00 | 39,874.85 | 7/6/2023 | 97 | 761.86 | 3.68 |
| BMO Harris Bank, N.A. 3 8/11/2023 | 05600XHW3 | 8/11/2022 | 3.000 | 40,000.00 | 40,000.00 | 40,000.00 | 39,691.59 | 8/11/2023 | 133 | 762.74 | 3.68 |
| JP MORGAN CHASE BANK 3.1 8/16/2023-22 | 46593LDW6 | 8/16/2022 | 3.100 | 50,000.00 | 50,000.00 | 50,000.00 | 49,640.89 | 8/16/2023 | 138 | 182.60 | 4.60 |
| Transportation Alliance Bank 0.25 9/11/2023 | 89388CEA2 | 9/11/2020 | 0.250 | 40,000.00 | 40,000.00 | 40,000.00 | 39,156.63 | 9/11/2023 | 164 | 5.48 | 3.68 |
| Truist Bank, Charlotte NC 4.6 9/22/2023 | 89788HCC5 | 12/23/2022 | 4.600 | 50,000.00 | 50,000.00 | 50,000.00 | 49,883.72 | 9/22/2023 | 175 | 617.53 | 4.60 |
| BMW Bank, N.A. 0.25 10/16/2023 | 05580AZG2 | 4/16/2021 | 0.250 | 25,000.00 | 25,000.00 | 25,000.00 | 24,363.04 | 10/16/2023 | 199 | 28.42 | 2.30 |
| Charles Schwab Bank, Westlake TX 4.75 2/2/2024 | 15987UAN8 | 2/2/2023 | 4.750 | 40,000.00 | 40,000.00 | 40,000.00 | 39,861.59 | 2/2/2024 | 308 | 296.71 | 3.68 |
| BMO Harris Bank, N.A. 4.7 2/29/2024 | 05600XLN8 | 1/31/2023 | 4.700 | 40,000.00 | 40,000.00 | 40,000.00 | 39,848.99 | 2/29/2024 | 335 | 303.89 | 3.68 |
| Luana Savings Bank, Luana IA 0.3 7/1/2024 | 549104VB0 | 12/30/2020 | 0.300 | 50,000.00 | 50,000.00 | 50,000.00 | 47,134.18 | 7/1/2024 | 458 | 36.99 | 4.60 |
| Ally Bank, Sandy UT 3.35 8/12/2024-23 | 02007GXT5 | 8/11/2022 | 3.350 | 40,000.00 | 40,000.00 | 40,000.00 | 39,108.18 | 8/12/2024 | 500 | 176.22 | 3.68 |
| Morgan Stanley Bank, N.A. 4.9 9/3/2024 | 61690U2D1 | 3/2/2023 | 4.900 | 50,000.00 | 50,000.00 | 50,000.00 | 49,901.21 | 9/3/2024 | 522 | 194.66 | 4.60 |
| Luana Savings Bank, Luana IA 0.25 10/7/2024 | 549104XE2 | 4/7/2021 | 0.250 | 40,000.00 | 40,000.00 | 40,000.00 | 37,238.30 | 10/7/2024 | 556 | 47.95 | 3.68 |
| Burke & Herbert B&T, Alexandria VA 4.6 8/6 | 121331AQ5 | 2/6/2023 | 4.600 | 50,000.00 | 50,000.00 | 50,000.00 | 49,559.74 | 8/6/2025 | 859 | 157.53 | 4.60 |
| BMW Bank, N.A. 5.1 9/17/2025 | 05580AX58 | 3/17/2023 | 5.100 | 40,000.00 | 40,000.00 | 40,000.00 | 40,158.33 | 9/17/2025 | 901 | 78.25 | 3.68 |
| Luana Savings Bank, Luana IA 0.45 10/7/2025 | 549104XD4 | 4/7/2021 | 0.450 | 40,000.00 | 40,000.00 | 40,000.00 | 35,807.92 | 10/7/2025 | 921 | 86.30 | 3.68 |
| Live Oak Banking, Wilmington NC 0.65 10/20/2025 | 538036PS7 | 4/20/2021 | 0.650 | 25,000.00 | 25,000.00 | 25,000.00 | 22,440.16 | 10/20/2025 | 934 | 13.36 | 2.30 |
| Discover Bank, Greenwood DE 5.1 3/23/2026 | 2546733A2 | 3/22/2023 | 5.100 | 40,000.00 | 40,000.00 | 40,000.00 | 40,217.92 | 3/23/2026 | 1,088 | 50.30 | 3.68 |
| Sub Total / Average Lakeville - Arenas | | | 3.529 | 1,087,702.17 | 1,087,702.17 | 1,087,702.17 | 1,071,289.69 | | 316 | 4,852.30 | 100.00 |
| Total / Average | | | 3.529 | 1,087,702.17 | 1,087,702.17 | 1,087,702.17 | 1,071,289.69 | | 316 | 4,852.30 | 100 |

Lakeville

ARENAS

APRIL 2023 MANAGER'S REPORT

Date: April 17, 2023
To: Lakeville Arenas Board of Directors
From: Joe Bergquist – Lakeville Arenas General Manager
Re: Lakeville Arenas Manager’s April Report

I. CUSTOMER & SPECIAL EVENT UPDATES

A. Lakeville Hockey Association

LHA has approved up to 100,000 for a variety of projects, which include security upgrade to the Ames Training Center, installation of a new training center at Hasse Arena, landscaping for an area between the outdoor rink and indoor which includes gas fire pits, benches, in a gathering area, and the purchase and remodeling of 2 shipping containers to be used as locker rooms for the outdoor rink.

B. ISD 194 High School Hockey

No news to report.

C. Heritage Figure Skating Club

No news to report.

D. Learn to Skate.

Final registrations for the spring sessions at 310 registrations.

E. Dry Floor Events.

April 22: Perfectly Unique Craft Show.

April 29: Home Show - Setup Friday, Show Sat.

II. OPERATIONS

A. Staffing

We are planning to hire Nick Ames as our New Operations Manager later this fall. Nick will be training for the position while performing his current duties as a Facility Supervisor. Nick has proven himself to be reliable, trustworthy, and dedicated member of our supervisory team. His dedication and performance as a supervisor have consistently been above and beyond. We are excited and looking forward to him serving in his new role later this year. Ryan Larkin submitted his resignation as a full-time supervisor in March and his last day was March 21st. We are holding off on replacing the 2 vacant full time supervisory positions until this fall. More details regarding staffing are included in the 2024 proposed budget.

B. Welcome Center Operations

We are changing over to a new Point of Sale platform starting on May 1st. The system is a new module within our Finnly Sport platform that we currently use for scheduling and selling ice. The new module costs much less than our current system at \$1,500 per year compared to \$7,200.

C. Cleaning Services

We have discontinued our outside cleaning services for the restrooms to make room in the budget for the new debt payment we will be making towards the Apex Energy Project. Staff has taken over the responsibilities, which will result in some additional expense in labor but overall, we should save at least half or 15-20k per year of the money previously spent on the cleaning service.

D. Other Operations

We currently have a salt delivery service that delivers salt for our water softeners. We are adding a roof over our trash enclosure area at Ames which has 8' high walls to create a cold storage area, in which there will be plenty of room for both the trash containers and salt that we will now purchase ourselves by the pallet. This will save us \$3 per bag plus yield an extra 10lbs per bag, ultimately cutting our overall costs by approximately 50%.

III. FACILITY REPAIR & MAINTENANCE

A. Building and Equipment Repair Expenses

1. (MAR) R&R - Hasse Zam repairs \$1,09
2. (MAR) Rink Tec – Rink 1 pump repairs \$1,477

B. Upcoming Expenses

1. Rink Tec – Compressor 3 repairs (Under warranty except for labor)

IV. PROJECT MANAGEMENT

A. Hasse Rink 4 Project

1. **Construction Updates:** We were recently informed that the outdoor rink would not require a sprinkler system, which means that it will free up some of the money in the contract that can be used for items that had to be removed, which include a scoreboard, sound system, wind barriers, bleachers, and radiant heaters above the player boxes and fan bleachers. Sheehy is working on getting us the amount that will be made available.
2. **Becker Arena Products**
Staff has selected a dasher board system for the new outdoor rink to be purchased and installed by Becker Arena Products. A copy of the agreement and a cover memo to the city council recommending approval is attached. Management is recommending the Arenas Board make a make a motion to approve the agreement and send it to the council for approval as described in the memo.
3. **Current Submittals & Change Orders:**
 - Rink Tec – Invoice # 5 = \$85,500
 - Rink Tec – Invoice # 6 = \$55,000
 - Change Order: Needed to have SCR move the building management system which was in the refrigeration room. This was an oversight on the bid specs which indicated that everything inside of the room was to be removed and demoed.

B. Current & Upcoming Staff Projects

1. **Ames Concessions Renovations:** In May, a doorway will be installed that will allow staff to directly access the dry storage room from the concessions. This will free up space in the cooler & refrigeration room providing more food prep area for our expanded menu starting this next season. We are also adding an upright ice cream freezer in the lobby next to the pop cooler and expanding those sales that were very popular last summer.
2. **Ames WIFI Lock Controls:** We finally received a test transmitter that was on back order so we can install the wireless network for our new keyless locks throughout the facilities. This will allow us to assign and change codes and key fobs to better control access and security of the facilities. We will be running cables and installing them at Ames in May and at Hasse this summer.
3. **Ames New Camera System:** The new cameras that were purchased last year are also being installed in May at Ames. Hasse cameras will be installed this summer.
4. **Vestibule Entrances:** The new Waterhog carpeting is getting installed at Ames this month. The floor has been leveled and carpet will be going in at the end of April. This will greatly reduce salt tracked into the building and on the rubber in the lobbies, extending their life. It will also allow us to eliminate our current rug service.

V. FINANCIALS

During the budget process management updated the budgeting workbook to provide monthly budgeting and tracking compared to just annual. The spreadsheet also allows management to create a profit and loss report each month that can now be compared to a monthly budget, as well as prior year like we have done with the Arena Manager's current P&L spreadsheet that only allows prior year comparisons. This will help management better manage the budget and take immediate action to try and correct negative budget trends and variances before the end of the year when its too late.

A. **Attached: Manager's New P&L Reports for January-March 2023 Attached.**

Please note that 2023 monthly budget amounts are based on a calculation using the annual budgeted dollar amount multiplies by percentage spent in 2022 which may reduce accuracy of the monthly budget numbers.

B. **March Financial Results**

1. **Revenue**

- Ice Rentals were up slightly both monthly and year to date over last year and budgeted.
- Programming revenues were up significantly by 8k monthly over prior yr. and 7k over budget. YTD is up 17k over last year and 15k over budget.
- Net concessions are up by 8k monthly over prior and 9k over budgeted. YTD is up 32k over prior yr. and 21k over budgeted.
- Misc. Revenues: Advertising is up 2k over prior year and 2.5k over budget monthly. YTD is 7.7k over prior yr. and 9.2k over budget.
- Total revenue monthly was 113,130 for March, which is 33k over prior yr. and 29k over budgeted. YTD total revenue was 570,263 in March, up 86k over prior year of 484,194, and 61k over budget.

2. **Salaries & Benefits**

Total Salaries and Benefits in March were 38,023, up 2.2k over prior yr. and 6.7k below budget. YTD is 158,575k, which is 29k over prior yr. and 8.8k below budget. We will not be replacing the 2 supervisor vacancies which occurred in Jan and the end of Mar until this fall.

3. **Commodities**

Total commodities for March were 700 over prior year and 1k over budget, YTD are over prior yr. by 6k, and budget by 4k. Cleaning supplies are the primary reason for the discrepancy as we ended the season extremely low or out of stock and we had some large purchases to get us caught up. We are also switching our supplier and using the local Fastenal who we get NHL pricing through, which is much cheaper than what we are paying now for cleaning supplies. They will be setting up an inventory control system at Both Ames and Hasse in which they will stop in once a month to check and order inventory. Building supplies accounts for 2k of the overage from repairs to the ice plant room that froze up this winter.

4. **Admin & Overhead**

Total Overhead expenses were 3k below prior year and budget for the month. YTD is 4k over prior year and budget. The primary cause is from credit card fees, which makes sense with the large increase in concessions and public admissions.

5. **Contracted Expenses**

Building Repairs and Maintenance is down 15k over prior year and 17 under budget, snow removal is not booked yet. We had far less repairs in March this year. TYD is slightly down by 5k over prior year and 13k under budget. Most repairs so far this year have been from the failing Hasse Ice Plant and the Zamboni that needs the batteries replaced.

6. **Utilities**

March Total Utilities were down in March at 27k compared to 33k prior year and 34k budgeted. YTD utilities are down 15k over prior yr. and 22k under budget. Hopefully, this trend will continue but utilities are difficult to gauge because of inconsistencies as to when our solar credits are booked.

7. **Total Expenses**

Total expenses in March were 97,459 compared to 118,607 prior year and 131,028 budgeted. Total YTD expenses were up 20.5k over prior YTD but 32k under budget, which could be the result of the

way the month budget is calculated this year as noted earlier.

8. Net Income

Net income both monthly and YTD is trending very positive, which is good for cash flow because of the estimated expenses in the upcoming months is expected to be high due to renovations and improvements planned during the slower months. March net income was 15,671 compared to negative loss of 38k last year and a negative 46k budgeted based for this year based on prior year percentages. YTD net revenue is currently 187,798, which is 65.5k over 2022 which was at 122,263 this time last year. We are over budget by 94k YTD this year.

VI. Replacement of the Hasse Indoor Dasher Boards

Staff was originally planning to purchase a new set of dasher boards for Hasse in 2023. However, when the outdoor rink construction was approved it produced a need for second Zamboni, which has been ordered in place of purchasing the new boards for Hasse. However, when the order was placed recently, we were informed that the lead time and delivery for it was a year and a half or more. So, we do not expect delivery until late 2024 or Jan 2025. While working on the budget we reached out for an inspection and quote to repair the boards to get us through another year or two with the current set. The inspection discovered far more unsafe defects than expected and the costs to repair all the deficiencies is approximately 58,000 which we do not have room for in the operating budget.

Staff is recommending that due to the poor and unsafe condition of the current boards and the late arrival of the new Zamboni that the 2023 capital reserve budget be amended to purchase and install a new set of dasher boards at Hasse Arena in 2023 while the ice it still out for construction. The cost is approximately 320,000.

- A. Copy of Inspection Report Attached.
- B. Copy of Repair Quote Attached.

VII. APEX Energy Savings Improvement Project Debt Commitment – Update

- A. **New updated report from Apex.** Apex has corrected and updated their energy savings report. Due to the 2024 budgeting management has not had time to review the report or collect data from our energy bills to analyze and compare the data yet. Management plans to have this completed by the May board meeting.
- B. **Budget Impact:** Management has included the minimum guaranteed savings amount in the 2023 estimate and 2024 budget. If the board decides to increase that amount, we can still do so before the budget is adopted in June.

Manager's Report
Respectfully Submitted



Joe Bergquist
Lakeville Arenas Manager

Lakeville

ARENAS

MANAGER'S REPORT ATTACHEMENTS

| | |
|----------------------------------|---------------|
| January P&L | 27-29 |
| February P&L | 30-32 |
| March P&L | 33-35 |
| Hasse Boards Inspection | 36-49 |
| Hasse Boards Repair Quote | 50-53 |
| Hasse Boards Resolution | 58-59 |
| 2024 Budget Proposed | 59-85 |
| Apex Energy Report | 86-137 |

Lakeville ARENAS

**Financial Statement
(Preliminary and Unaudited)
- Operations Use Only**

| | January 2022 Actual | January 2023 Actual | January 2023 Budget | January 2022 YTD Actual | January 2023 YTD Actual | January 2023 YTD Budget |
|---|---------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| OPERATING REVENUE | | | | | | |
| <i>Ice & Facility Rentals</i> | | | | | | |
| 5211 Ice Rental - LHA | 92,234 | 102,298 | 92,462 | 92,234 | 102,298 | 92,462 |
| 5212 Ice Rental - ISD 194 | 59,741 | 67,583 | 59,889 | 59,741 | 67,583 | 59,889 |
| 5213 Ice Rental Other | 15,587 | 14,127 | 15,626 | 15,587 | 14,127 | 15,626 |
| 5216 ISD 194 HS Game Gate Share | 24,696 | | 26,493 | 24,696 | - | 26,493 |
| 5223 Dry floor Rentals | 75 | (13) | 53 | 75 | (13) | 53 |
| Total Ice & Facility Rentals | 192,333 | 183,996 | 194,522 | 192,333 | 183,996 | 194,522 |
| <i>Programing & Public Events Revenue</i> | | | | | | |
| 5214 Learn to Skate | 3,855 | 5,908 | 4,150 | 3,855 | 5,908 | 4,150 |
| 5215 Admissions-Public Skating | 2,116 | 4,010 | 1,905 | 2,116 | 4,010 | 1,905 |
| 5221 Arena Programming | - | 139 | - | - | 139 | - |
| Total Programing & Events Revenue | 5,971 | 10,057 | 6,055 | 5,971 | 10,057 | 6,055 |
| <i>Concessions Sales</i> | | | | | | |
| 5218 Gross Food & Beverage Sales | 22,464 | 44,457 | 30,112 | 22,464 | 44,457 | 30,112 |
| 5532 (Cost of Goods Sold) | - | - | - | - | - | - |
| Concessions Net Revenue | 22,464 | 44,457 | 30,112 | 22,464 | 44,457 | 30,112 |
| <i>Pro Shop Products & Services</i> | | | | | | |
| 5219 Gross Pro Shop Product Sales | 197 | 936 | 194 | 197 | 936 | 194 |
| 5531 Pro Shop Cost of Goods Sold | - | - | - | - | - | - |
| Net Pro Shop Revenue | 197.00 | 936 | 194 | 197 | 936 | 194 |
| 5220 Skate Sharpening | 540 | 1,523 | 994 | 540 | 1,523 | 994 |
| 5222 Skate Rental | 909 | 1,126 | 1,415 | 909 | 1,126 | 1,415 |
| Total Pro Shop Products & Services | 1,646 | 3,585 | 2,604 | 1,646 | 3,585 | 2,604 |
| <i>Other Misc. Arena Revenues</i> | | | | | | |
| 5022 Games-Vending Machines | 231 | 943 | - | 231 | 943 | - |
| 5217 Advertising Sales / Other | - | 6,242 | - | - | 6,242 | - |
| 4390 Rebates & Dividends | - | - | - | - | - | - |
| 5026 Donations/Other Misc. | 444 | - | 143 | 444 | - | 143 |
| 4910 Interest on Investments | 162 | 1,142 | 375 | 162 | 1,142 | 375 |
| 4912 Net Change in FV of Investments | (1,866) | 263 | - | (1,866) | 263 | - |
| 5024 Cash Over/(Short) | - | - | - | - | - | - |
| Total Other Arena Revenues | (1,029) | 8,590 | 518 | (1,029) | 8,590 | 518 |
| TOTAL OPERATING REVENUE | 221,385 | 250,685 | 233,812 | 221,385 | 250,685 | 233,812 |
| OPERATING EXPENDITURES | | | | | | |
| PERSONNEL SERVICES | | | | | | |
| <i>Employee Salary Expenses</i> | | | | | | |
| 6012 Salaries - Full Time | 15,785 | 22,779 | 22,181 | 15,785 | 22,779 | 22,181 |
| 6015 Salaries - Full Time - Overtime | 1,201 | 3,533 | 1,782 | 1,201 | 3,533 | 1,782 |
| 6030 Salaries - Part Time/Temporary | 24,015 | 31,302 | 19,362 | 24,015 | 31,302 | 19,362 |
| Total Employee Salaries | 41,001 | 57,614 | 43,326 | 41,001 | 57,614 | 43,326 |
| <i>Employee Benefit Expenses</i> | | | | | | |
| 6041 Pera (State Retirement Pension) | 2,004 | 2,658 | 2,027 | 2,004 | 2,658 | 2,027 |
| 6051 Hospitalization Insurance | 2,665 | 3,250 | 6,998 | 2,665 | 3,250 | 6,998 |
| 6052 Life and Disability | 72 | 14 | 467 | 72 | 14 | 467 |
| 6053 Long Term Disability | 66 | 41 | 114 | 66 | 41 | 114 |
| 5057 FSA Plan | 5 | - | - | 5 | - | - |

Lakeville ARENAS

Financial Statement
(Preliminary and Unaudited)
- Operations Use Only

| | January 2022 Actual | January 2023 Actual | January 2023 Budget | January 2022 YTD Actual | January 2023 YTD Actual | January 2023 YTD Budget |
|--|---------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| 6054 Dental Insurance | 110 | 54 | 270 | 110 | 54 | 270 |
| Total Employee Benefits | 4,922 | 6,017 | 9,877 | 4,922 | 6,017 | 9,877 |
| Employee Withholdings-Other Expenses | | | | | | |
| 6044 FICA | 3,134 | 4,397 | 3,507 | 3,134 | 4,397 | 3,507 |
| 6055 Workers Compensation Insurance | 954 | 982 | 1,123 | 954 | 982 | 1,123 |
| 6058 Salary Contingency | - | - | 13,864 | - | - | 13,864 |
| Employee Withholdings/Other | 4,088 | 5,379 | 18,494 | 4,088 | 5,379 | 18,494 |
| Total Salary & Benefit Expenses | 50,011 | 69,010 | 71,696 | 50,011 | 69,010 | 71,696 |
| | 23% | 28% | 31% | 23% | 28% | 31% |
| COMMODITIES | | | | | | |
| 6110 Office Supplies / Equipment | 275 | 352 | 74 | 275 | 352 | 74 |
| 6120 Operating Supplies & Equipment | 254 | 1,354 | 247 | 254 | 1,354 | 247 |
| 6121 Motor Fuels | 163 | 41 | 280 | 163 | 41 | 280 |
| 6123 Cleaning Supplies / Equipment | 384 | 1,206 | 513 | 384 | 1,206 | 513 |
| 6124 Clothing | - | - | - | - | - | - |
| 6126 Chemicals (Condensing Towers) | - | - | - | - | - | - |
| 6127 Safety Supplies & Equipment | - | 379 | - | - | 379 | - |
| 6131 Equipment Parts & Supplies | - | - | - | - | - | - |
| 6132 Tires | - | - | - | - | - | - |
| 6133 Building Repair Supplies & Equipment | - | 1,662 | - | - | 1,662 | - |
| 6134 Parking Lot Maintenance Supplies | - | - | - | - | - | - |
| 6135 Landscaping Materials & Equipment | - | - | - | - | - | - |
| 6136 Signs (Advertising Sales Sign Expenses) | - | - | - | - | - | - |
| 6140 Small Tools/Equipment | - | - | - | - | - | - |
| 6180 Computer Supplies | - | 105 | - | - | 105 | - |
| Total Commodities | 1,076 | 5,099 | 1,115 | 1,076 | 5,099 | 1,115 |
| OTHER CHARGES & SERVICES | | | | | | |
| Admin & Overhead Expenses | | | | | | |
| Professional Services Expenses | | | | | | |
| 6210 Professional Fees | - | - | - | - | - | - |
| 6211 Attorney Fees | - | - | - | - | - | - |
| 6214 Fiscal Management Fee | 3,049 | 3,276 | 2,962 | 3,049 | 3,276 | 2,962 |
| 6218 Bank Charges | 1,625 | 1,967 | 1,520 | 1,625 | 1,967 | 1,520 |
| 6221 Audit | - | - | - | - | - | - |
| 6255 Advertising (Old Dashers/New Media Expense) | 968 | - | 940 | 968 | - | 940 |
| 6261 Insurance | 2,095 | 2,157 | 2,137 | 2,095 | 2,157 | 2,137 |
| 6277 Postage & Shipping | - | - | - | - | - | - |
| Total Professional Expenses | 7,737 | 7,400 | 7,559 | 7,737 | 7,400 | 7,559 |
| Training & Education Expenses | | | | | | |
| 6308 Tuition Reimbursement | - | - | - | - | - | - |
| 6311 Schools and Conferences | - | - | - | - | - | - |
| Total Education Expenses | - | - | - | - | - | - |
| Other Admin & Overhead Expenses | | | | | | |
| 6231 Travel Expenses | - | - | - | - | - | - |
| 6234 Use of Personal Auto | - | - | - | - | - | - |
| 6312 Misc. Expenses (Commissions-Donations) | - | - | - | - | - | - |
| 6313 Dues/Subscriptions | 1,446 | 3,772 | 1,662 | 1,446 | 3,772 | 1,662 |
| 6314 Licenses & Taxes | - | - | - | - | - | - |
| Total Other Overhead Expenses | 1,446 | 3,772 | 1,662 | 1,446 | 3,772 | 1,662 |
| Total Overhead Expenses | 9,183 | 11,172 | 9,221 | 9,183 | 11,172 | 9,221 |

Lakeville ARENAS

Financial Statement
(Preliminary and Unaudited)
- Operations Use Only

| | January 2022 Actual | January 2023 Actual | January 2023 Budget | January 2022 YTD Actual | January 2023 YTD Actual | January 2023 YTD Budget |
|---|------------------------------------|------------------------------------|------------------------------------|--|--|--|
| Contracted Expenses | | | | | | |
| 6280 Other Contractual | 3,116 | 6,975 | 3,673 | 3,116 | 6,975 | 3,673 |
| 6281 Contract Auto Repair | - | - | - | - | - | - |
| 6282 Equipment Repair and Maintenance | 75 | 135 | 89 | 75 | 135 | 89 |
| 6283 Building Repair and Maintenance | 5,033 | 9,786 | 6,008 | 5,033 | 9,786 | 6,008 |
| 6285 Contract Landscaping | - | - | - | - | - | - |
| 6286 Contract Cleaning | - | - | - | - | - | - |
| 6322 Snow Removal | 2,438 | 8,879 | 2,107 | 2,438 | 8,879 | 2,107 |
| Total Contracted Expenses | 10,662 | 25,775 | 11,877 | 10,662 | 25,775 | 11,877 |
| Utility Service Expenses | | | | | | |
| 6271 Electric Service | 23,372 | 17,007 | 26,434 | 23,372 | 17,007 | 26,434 |
| 6272 Gas Service | 13,123 | 12,094 | 12,212 | 13,123 | 12,094 | 12,212 |
| 6274 Water | 2,000 | 600 | 1,513 | 2,000 | 600 | 1,513 |
| 6275 Waste Disposal | 1,501 | 1,232 | 2,309 | 1,501 | 1,232 | 2,309 |
| 6276 Telephone/IS | 237 | 443 | 269 | 237 | 443 | 269 |
| Total Utility Expenses | 40,233 | 31,376 | 42,737 | 40,233 | 31,376 | 42,737 |
| Gross Operating Expenses | 111,165 | 142,432 | 136,646 | 111,165 | 142,432 | 136,646 |
| Earnings before Interest-Debt-Capital | 110,220 | 108,253 | 97,166 | 110,220 | 108,253 | 97,166 |
| Interest and Debt Expenses | | | | | | |
| 6295 Debt Service Payments - Major Maintenance (Ame (APEX) Energy Savings Project - Debt Commitmen | - | 6,750 | - | - | 6,750 | - |
| 6613 Debt Service | - | - | - | - | - | - |
| 6420 Bad Debts | - | - | - | - | - | - |
| Total Debt & Other Fiscal Expenses | - | 6,750 | - | - | 6,750 | - |
| Capital Expenses | | | | | | |
| 6520 Capital Outlay Buildings | - | 1,564 | - | - | 1,564 | - |
| 6540 Capital Outlay Machinery & Equipment | - | - | - | - | - | - |
| 6541 Capital Outlay Other Improvements | - | - | - | - | - | - |
| 6542 Capital Outlay Computers | - | - | - | - | - | - |
| 7417 Transfer to Capital Reserve Fund | 11,667 | 11,667 | 11,667 | 11,667 | 11,667 | 11,667 |
| Total Capital Expenses | 11,667 | 13,231 | 11,667 | 11,667 | 13,231 | 11,667 |
| Total Expenses | 122,832 | 162,413 | 148,313 | 122,832 | 162,413 | 148,313 |
| Net Income (Loss) | 98,553 | 88,272 | 85,499 | 98,553 | 88,272 | 85,499 |
| | 45% | 35% | 37% | 45% | 35% | 37% |

Lakeville ARENAS

**Financial Statement
(Preliminary and Unaudited)**
- Operations Use Only

| | February 2022 Actual | February 2023 Actual | February 2023 Budget | February 2022 YTD Actual | February 2023 YTD Actual | February 2023 YTD Budget |
|--|----------------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|
| OPERATING REVENUE | | | | | | |
| <i>Ice & Facility Rentals</i> | | | | | | |
| 5211 Ice Rental - LHA | 87,536 | 98,775 | 87,753 | 179,770 | 201,073 | 180,215 |
| 5212 Ice Rental - ISD 194 | 45,690 | 41,704 | 45,803 | 105,431 | 109,288 | 105,692 |
| 5213 Ice Rental Other | 13,984 | 13,561 | 14,019 | 29,571 | 27,688 | 29,644 |
| 5216 ISD 194 HS Game Gate Share | 18,452 | 26,268 | 19,795 | 43,148 | 26,268 | 46,288 |
| 5223 Dry floor Rentals | 50 | 60 | 35 | 125 | 47 | 88 |
| Total Ice & Facility Rentals | 165,712 | 180,368 | 167,404 | 358,045 | 364,364 | 361,927 |
| <i>Programming & Public Events Revenue</i> | | | | | | |
| 5214 Learn to Skate | 200 | - | 215 | 4,055 | 5,908 | 4,365 |
| 5215 Admissions-Public Skating | 1,621 | 5,467 | 1,460 | 3,737 | 9,477 | 3,365 |
| 5221 Arena Programming | - | 1,027 | - | - | 1,166 | - |
| Total Programming & Events Revenue | 1,821 | 6,494 | 1,675 | 7,792 | 16,551 | 7,730 |
| <i>Concessions Sales</i> | | | | | | |
| 5218 Gross Food & Beverage Sales | 12,140 | 14,212 | 16,273 | 34,604 | 58,669 | 46,385 |
| 5532 (Cost of Goods Sold) | - | - | - | - | - | - |
| Concessions Net Revenue | 12,140 | 14,212 | 16,273 | 34,604 | 58,669 | 46,385 |
| <i>Pro Shop Products & Services</i> | | | | | | |
| 5219 Gross Pro Shop Product Sales | (188) | 218 | (185) | 9 | 1,154 | 9 |
| 5531 Pro Shop Cost of Goods Sold | - | - | - | - | - | - |
| Net Pro Shop Revenue | (188.00) | 218 | (185) | 9 | 197 | 197 |
| 5220 Skate Sharpening | 555 | 1,164 | 1,022 | 1,095 | 2,687 | 2,016 |
| 5222 Skate Rental | 706 | 997 | 1,099 | 1,615 | 2,123 | 2,514 |
| Total Pro Shop Products & Services | 1,073 | 2,379 | 1,936 | 2,719 | 5,007 | 4,727 |
| <i>Other Misc. Arena Revenues</i> | | | | | | |
| 5022 Games-Vending Machines | 365 | 334 | - | 596 | 1,277 | - |
| 5217 Advertising Sales / Other | 4,083 | 3,650 | 3,129 | 4,083 | 9,892 | 3,129 |
| 4390 Rebates & Dividends | - | - | - | - | - | - |
| 5026 Donations/Other Misc. | 1 | - | 0 | 445 | - | 143 |
| 4910 Interest on Investments | 160 | 1,241 | 370 | 322 | 2,383 | 745 |
| 4912 Net Change in FV of Investments | (3,019) | (1,131) | - | (4,885) | (868) | - |
| 5024 Cash Over/(Short) | - | - | - | - | - | - |
| Total Other Arena Revenues | 1,590 | 4,094 | 3,499 | 561 | 12,684 | 4,017 |
| TOTAL OPERATING REVENUE | 182,336 | 207,547 | 190,787 | 403,721 | 457,275 | 424,787 |
| OPERATING EXPENDITURES | | | | | | |
| PERSONNEL SERVICES | | | | | | |
| <i>Employee Salary Expenses</i> | | | | | | |
| 6012 Salaries - Full Time | 13,976 | 16,092 | 19,639 | 29,761 | 38,871 | 41,820 |
| 6015 Salaries - Full Time - Overtime | 2,638 | 2,656 | 3,915 | 3,839 | 6,189 | 5,697 |
| 6030 Salaries - Part Time/Temporary | 19,314 | 24,743 | 15,572 | 43,329 | 56,045 | 34,934 |
| Total Employee Salaries | 35,928 | 43,491 | 39,126 | 76,929 | 101,105 | 82,451 |
| <i>Employee Benefit Expenses</i> | | | | | | |
| 6041 Pera (State Retirement Pension) | 1,899 | 2,221 | 1,921 | 3,903 | 4,879 | 3,948 |
| 6051 Hospitalization Insurance | 1,900 | 665 | 4,989 | 4,565 | 3,915 | 11,987 |

Lakeville ARENAS

| Financial Statement (Preliminary and Unaudited) - Operations Use Only | February 2022 Actual | February 2023 Actual | February 2023 Budget | February 2022 YTD Actual | February 2023 YTD Actual | February 2023 YTD Budget |
|---|----------------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|
| 6052 Life and Disability | 73 | 11 | 474 | 145 | 25 | 941 |
| 6053 Long Term Disability | - | 33 | - | 66 | 74 | 114 |
| 5057 FSA Plan | 3 | 8 | - | 8 | 8 | - |
| 6054 Dental Insurance | 107 | 107 | 263 | 217 | 161 | 533 |
| Total Employee Benefits | 3,982 | 3,045 | 7,647 | 8,904 | 9,062 | 17,524 |
| Employee Withholdings-Other Expenses | | | | | | |
| 6044 FICA | 2,747 | 3,326 | 3,074 | 5,881 | 7,723 | 6,580 |
| 6055 Workers Compensation Insurance | 954 | 1,680 | 1,123 | 1,908 | 2,662 | 2,246 |
| 6058 Salary Contingency | - | - | - | - | - | 13,864 |
| Employee Withholdings/Other | 3,701 | 5,006 | 4,197 | 7,789 | 10,385 | 22,690 |
| Total Salary & Benefit Expenses | 43,611 | 51,542 | 50,970 | 93,622 | 120,552 | 122,666 |
| | 24% | 25% | 27% | 23% | 26% | 29% |
| COMMODITIES | | | | | | |
| 6110 Office Supplies / Equipment | 279 | 278 | 75 | 554 | 630 | 148 |
| 6120 Operating Supplies & Equipment | 847 | (455) | 825 | 1,101 | 899 | 1,072 |
| 6121 Motor Fuels | - | - | - | 163 | 41 | 280 |
| 6123 Cleaning Supplies / Equipment | 639 | 3,355 | 854 | 1,023 | 4,561 | 1,367 |
| 6124 Clothing | 36 | - | 2,500 | 36 | - | 2,500 |
| 6126 Chemicals (Condensing Towers) | - | - | - | - | - | - |
| 6127 Safety Supplies & Equipment | - | - | - | - | 379 | - |
| 6131 Equipment Parts & Supplies | - | - | - | - | - | - |
| 6132 Tires | - | - | - | - | - | - |
| 6133 Building Repair Supplies & Equipment | 11 | 343 | 8 | 11 | 2,005 | 8 |
| 6134 Parking Lot Maintenance Supplies | - | - | - | - | - | - |
| 6135 Landscaping Materials & Equipment | - | - | - | - | - | - |
| 6136 Signs (Advertising Sales Sign Expenses) | - | - | - | - | - | - |
| 6140 Small Tools/Equipment | - | - | - | - | - | - |
| 6180 Computer Supplies | - | - | - | - | 105 | - |
| Total Commodities | 1,812 | 3,521 | 4,262 | 2,888 | 8,620 | 5,377 |
| OTHER CHARGES & SERVICES | | | | | | |
| Admin & Overhead Expenses | | | | | | |
| Professional Services Expenses | | | | | | |
| 6210 Professional Fees | - | - | - | - | - | - |
| 6211 Attorney Fees | - | - | - | - | - | - |
| 6214 Fiscal Management Fee | 3,049 | 3,276 | 2,962 | 6,098 | 6,552 | 5,924 |
| 6218 Bank Charges | 1,715 | 2,442 | 1,604 | 3,340 | 4,409 | 3,124 |
| 6221 Audit | - | 5,000 | - | - | 5,000 | - |
| 6255 Advertising (Old Dashers/New Media Expense) | 440 | - | 427 | 1,408 | - | 1,367 |
| 6261 Insurance | 2,095 | 2,158 | 2,137 | 4,190 | 4,315 | 4,274 |
| 6277 Postage & Shipping | - | - | - | - | - | - |
| Total Professional Expenses | 7,299 | 12,876 | 7,130 | 15,036 | 20,276 | 14,689 |
| Training & Education Expenses | | | | | | |
| 6308 Tuition Reimbursement | - | - | - | - | - | - |
| 6311 Schools and Conferences | - | - | - | - | - | - |
| Total Education Expenses | - | - | - | - | - | - |
| Other Admin & Overhead Expenses | | | | | | |
| 6231 Travel Expenses | - | - | - | - | - | - |

Lakeville

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| Financial Statement (Preliminary and Unaudited) - Operations Use Only | February 2022 Actual | February 2023 Actual | February 2023 Budget | February 2022 YTD Actual | February 2023 YTD Actual | February 2023 YTD Budget |
|---|----------------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|
| 6234 Use of Personal Auto | - | - | - | - | - | - |
| 6312 Misc. Expenses (Commissions-Donations) | - | - | - | - | - | - |
| 6313 Dues/Subscriptions | 351 | - | 403 | 1,797 | 3,772 | 2,065 |
| 6314 Licenses & Taxes | - | - | - | - | - | - |
| <i>Total Other Overhead Expenses</i> | <u>351</u> | <u>0</u> | <u>403</u> | <u>1,797</u> | <u>3,772</u> | <u>2,065</u> |
| Total Overhead Expenses | <u>7,650</u> | <u>12,876</u> | <u>7,534</u> | <u>16,833</u> | <u>24,048</u> | <u>16,754</u> |
| Contracted Expenses | | | | | | |
| 6280 Other Contractual | 17,402 | 8,065 | 20,510 | 20,518 | 15,040 | 24,183 |
| 6281 Contract Auto Repair | - | - | - | - | - | - |
| 6282 Equipment Repair and Maintenance | 188 | 835 | 223 | 263 | 970 | 312 |
| 6283 Building Repair and Maintenance | 2,160 | 2,515 | 2,578 | 7,193 | 12,301 | 8,587 |
| 6285 Contract Landscaping | - | - | - | - | - | - |
| 6286 Contract Cleaning | - | - | - | - | - | - |
| 6322 Snow Removal | 2,383 | 4,409 | 2,060 | 4,821 | 13,288 | 4,167 |
| Total Contracted Expenses | <u>22,133</u> | <u>15,824</u> | <u>25,372</u> | <u>32,795</u> | <u>41,599</u> | <u>37,249</u> |
| Utility Service Expenses | | | | | | |
| 6271 Electric Service | 22,108 | 14,723 | 25,005 | 45,480 | 31,730 | 51,439 |
| 6272 Gas Service | - | 10,780 | - | 13,123 | 22,874 | 12,212 |
| 6274 Water | 2,500 | 620 | 1,891 | 4,500 | 1,220 | 3,404 |
| 6275 Waste Disposal | 1,394 | 950 | 2,144 | 2,895 | 2,182 | 4,453 |
| 6276 Telephone/IS | 243 | 100 | 276 | 480 | 543 | 544 |
| Total Utility Expenses | <u>26,245</u> | <u>27,173</u> | <u>29,316</u> | <u>66,478</u> | <u>58,549</u> | <u>72,053</u> |
| Gross Operating Expenses | <u>101,451</u> | <u>110,936</u> | <u>117,453</u> | <u>212,616</u> | <u>253,368</u> | <u>254,098</u> |
| Earnings before Interest-Debt-Capital | 80,885 | 96,611 | 73,335 | 191,105 | 203,907 | 170,689 |
| Interest and Debt Expenses | | | | | | |
| 6295 Debt Service Payments - Major Maintenance (A (APEX) Energy Savings Project - Debt Commitm | 7,375 | - | 6,722 | 7,375 | 6,750 | 6,722 |
| 6613 Debt Service | - | - | - | - | - | - |
| 6420 Bad Debts | - | - | - | - | - | - |
| Total Debt & Other Fiscal Expenses | <u>7,375</u> | <u>-</u> | <u>6,722</u> | <u>7,375</u> | <u>6,750</u> | <u>6,722</u> |
| Capital Expenses | | | | | | |
| 6520 Capital Outlay Buildings | - | - | - | - | 1,564 | - |
| 6540 Capital Outlay Machinery & Equipment | - | - | - | - | - | - |
| 6541 Capital Outlay Other Improvements | - | - | - | - | - | - |
| 6542 Capital Outlay Computers | - | - | - | - | - | - |
| 7417 Transfer to Capital Reserve Fund | 11,666 | 11,666 | 11,666 | 23,333 | 23,333 | 23,334 |
| Total Capital Expenses | <u>11,666</u> | <u>11,666</u> | <u>11,666</u> | <u>23,333</u> | <u>24,897</u> | <u>23,334</u> |
| Total Expenses | <u>120,492</u> | <u>122,602</u> | <u>135,841</u> | <u>243,324</u> | <u>285,015</u> | <u>284,154</u> |
| Net Income (Loss) | <u>61,844</u> | <u>84,945</u> | <u>54,946</u> | <u>160,397</u> | <u>172,260</u> | <u>140,633</u> |
| | 34% | 41% | 29% | 40% | 38% | 33% |

Lakeville ARENAS

Financial Statement
(Preliminary and Unaudited)
- Operations Use Only

| March 2022 Actual | March 2023 Actual | March 2023 Budget | March 2022 YTD Actual | March 2023 YTD Actual | March 2023 YTD Budget |
|-------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|
|-------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|

OPERATING REVENUE

Ice & Facility Rentals

| | | | | | | |
|---|---------------|---------------|---------------|----------------|----------------|----------------|
| 5211 Ice Rental - LHA | 45,274 | 43,187 | 45,386 | 225,044 | 244,260 | 225,601 |
| 5212 Ice Rental - ISD 194 | - | - | - | 105,431 | 109,288 | 105,692 |
| 5213 Ice Rental Other | 24,936 | 21,710 | 24,998 | 54,507 | 49,398 | 54,642 |
| 5216 ISD 194 HS Game Gate Share | (12,040) | - | (12,916) | 31,108 | 26,268 | 33,372 |
| 5223 Dry floor Rentals | 59 | - | 42 | 184 | 47 | 130 |
| Total Ice & Facility Rentals | 58,229 | 64,897 | 57,509 | 416,274 | 429,261 | 419,436 |

Programing & Public Events Revenue

| | | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| 5214 Learn to Skate | 21,416 | 22,152 | 23,054 | 25,471 | 28,060 | 27,419 |
| 5215 Admissions-Public Skating | 2,461 | 4,717 | 2,216 | 6,198 | 14,194 | 5,581 |
| 5221 Arena Programming | - | 5,466 | - | - | 6,632 | - |
| Total Programing & Events Revenue | 23,877 | 32,335 | 25,270 | 31,669 | 48,886 | 33,000 |

Concessions Sales

| | | | | | | |
|----------------------------------|----------------|--------------|----------------|---------------|---------------|---------------|
| 5218 Gross Food & Beverage Sales | (1,271) | 6,854 | (1,704) | 33,333 | 65,523 | 44,682 |
| 5532 (Cost of Goods Sold) | - | - | - | - | - | - |
| Concessions Net Revenue | (1,271) | 6,854 | (1,704) | 33,333 | 65,523 | 44,682 |

Pro Shop Products & Services

| | | | | | | |
|---|---------------|------------|------------|--------------|--------------|--------------|
| 5219 Gross Pro Shop Product Sales | 272 | 142 | 268 | 281 | 1,296 | 277 |
| 5531 Pro Shop Cost of Goods Sold | - | - | - | - | - | - |
| Net Pro Shop Revenue | 272.00 | 142 | 268 | 197 | 197 | 197 |
| 5220 Skate Sharpening | 105 | 584 | 193 | 1,200 | 3,271 | 2,209 |
| 5222 Skate Rental | 268 | 70 | 417 | 1,883 | 2,193 | 2,932 |
| Total Pro Shop Products & Services | 645 | 796 | 879 | 3,280 | 5,661 | 5,338 |

Other Misc. Arena Revenues

| | | | | | | |
|--------------------------------------|---------------|----------------|---------------|----------------|----------------|----------------|
| 5022 Games-Vending Machines | - | 313 | - | 596 | 1,590 | - |
| 5217 Advertising Sales / Other | 2,478 | 4,425 | 1,899 | 6,561 | 14,317 | 5,028 |
| 4390 Rebates & Dividends | - | - | - | - | - | - |
| 5026 Donations/Other Misc. | - | 481 | - | 445 | 481 | 143 |
| 4910 Interest on Investments | 195 | 1,780 | 452 | 517 | 4,163 | 1,197 |
| 4912 Net Change in FV of Investments | (3,596) | 1,249 | - | (8,481) | 381 | - |
| 5024 Cash Over/(Short) | - | - | - | - | - | - |
| Total Other Arena Revenues | (923) | 8,248 | 2,351 | (362) | 20,932 | 6,368 |
| TOTAL OPERATING REVENUE | 80,557 | 113,130 | 84,305 | 484,194 | 570,263 | 508,824 |

OPERATING EXPENDITURES

PERSONNEL SERVICES

Employee Salary Expenses

| | | | | | | |
|--------------------------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| 6012 Salaries - Full Time | 19,080 | 19,402 | 26,811 | 48,841 | 58,273 | 68,632 |
| 6015 Salaries - Full Time - Overtime | 903 | 1,668 | 1,340 | 4,742 | 7,857 | 7,037 |
| 6030 Salaries - Part Time/Temporary | 9,412 | 10,605 | 7,588 | 52,741 | 66,650 | 42,523 |
| Total Employee Salaries | 29,395 | 31,675 | 35,740 | 106,324 | 132,780 | 118,191 |

Employee Benefit Expenses

| | | | | | | |
|--------------------------------------|-------|-------|-------|-------|-------|--------|
| 6041 Pera (State Retirement Pension) | 1,778 | 1,879 | 1,799 | 5,681 | 6,758 | 5,747 |
| 6051 Hospitalization Insurance | 1,237 | 665 | 3,248 | 5,802 | 4,580 | 15,236 |
| 6052 Life and Disability | 7 | 11 | 45 | 152 | 36 | 987 |

Lakeville ARENAS

| Financial Statement (Preliminary and Unaudited) - Operations Use Only | March 2022 Actual | March 2023 Actual | March 2023 Budget | March 2022 YTD Actual | March 2023 YTD Actual | March 2023 YTD Budget |
|---|-------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|
| 6053 Long Term Disability | 34 | 34 | 59 | 100 | 108 | 172 |
| 5057 FSA Plan | 4 | 6 | - | 12 | 14 | - |
| 6054 Dental Insurance | 108 | - | 265 | 325 | 161 | 799 |
| Total Employee Benefits | 3,168 | 2,595 | 5,416 | 12,072 | 11,657 | 22,940 |
| Employee Withholdings-Other Expenses | | | | | | |
| 6044 FICA | 2,245 | 2,423 | 2,512 | 8,126 | 10,146 | 9,092 |
| 6055 Workers Compensation Insurance | 953 | 1,330 | 1,122 | 2,861 | 3,992 | 3,368 |
| 6058 Salary Contingency | - | - | - | - | - | 13,864 |
| Employee Withholdings/Other | 3,198 | 3,753 | 3,634 | 10,987 | 14,138 | 26,324 |
| Total Salary & Benefit Expenses | 35,761 | 38,023 | 44,790 | 129,383 | 158,575 | 167,456 |
| | 44% | 34% | 53% | 27% | 28% | 33% |
| COMMODITIES | | | | | | |
| 6110 Office Supplies / Equipment | 279 | 294 | 75 | 833 | 924 | 223 |
| 6120 Operating Supplies & Equipment | 888 | 1,745 | 865 | 1,989 | 2,644 | 1,937 |
| 6121 Motor Fuels | - | 79 | - | 163 | 120 | 280 |
| 6123 Cleaning Supplies / Equipment | 374 | 162 | 500 | 1,397 | 4,723 | 1,867 |
| 6124 Clothing | - | - | - | 36 | - | 2,500 |
| 6126 Chemicals (Condensing Towers) | - | - | - | - | - | - |
| 6127 Safety Supplies & Equipment | 541 | 77 | 314 | 541 | 456 | 314 |
| 6131 Equipment Parts & Supplies | - | - | - | - | - | - |
| 6132 Tires | - | - | - | - | - | - |
| 6133 Building Repair Supplies & Equipment | 18 | 213 | 14 | 29 | 2,218 | 22 |
| 6134 Parking Lot Maintenance Supplies | - | - | - | - | - | - |
| 6135 Landscaping Materials & Equipment | - | - | - | - | - | - |
| 6136 Signs (Advertising Sales Sign Expenses) | - | - | - | - | - | - |
| 6140 Small Tools/Equipment | - | - | - | - | - | - |
| 6180 Computer Supplies | - | 276 | - | - | 381 | - |
| Total Commodities | 2,100 | 2,846 | 1,768 | 4,988 | 11,466 | 7,145 |
| OTHER CHARGES & SERVICES | | | | | | |
| Admin & Overhead Expenses | | | | | | |
| Professional Services Expenses | | | | | | |
| 6210 Professional Fees | - | - | - | - | - | - |
| 6211 Attorney Fees | - | - | - | - | - | - |
| 6214 Fiscal Management Fee | 3,049 | 3,276 | 2,962 | 9,147 | 9,828 | 8,886 |
| 6218 Bank Charges | 1,248 | 3,660 | 1,167 | 4,588 | 8,069 | 4,292 |
| 6221 Audit | 5,000 | - | 4,895 | 5,000 | 5,000 | 4,895 |
| 6255 Advertising (Old Dashers/New Media Expense) | 3,129 | - | 3,038 | 4,537 | - | 4,405 |
| 6261 Insurance | 2,095 | 2,935 | 2,137 | 6,285 | 7,250 | 6,411 |
| 6277 Postage & Shipping | - | - | - | - | - | - |
| Total Professional Expenses | 14,521 | 9,871 | 14,199 | 29,557 | 30,147 | 28,887 |
| Training & Education Expenses | | | | | | |
| 6308 Tuition Reimbursement | - | - | - | - | - | - |
| 6311 Schools and Conferences | - | 400 | - | - | 400 | - |
| Total Education Expenses | - | 400 | - | - | 400 | - |
| Other Admin & Overhead Expenses | | | | | | |
| 6231 Travel Expenses | - | - | - | - | - | - |
| 6234 Use of Personal Auto | - | - | - | - | - | - |
| 6312 Misc. Expenses (Commissions-Donations) | - | - | - | - | - | - |

Lakeville ARENAS

| Financial Statement (Preliminary and Unaudited) - Operations Use Only | March 2022 Actual | March 2023 Actual | March 2023 Budget | March 2022 YTD Actual | March 2023 YTD Actual | March 2023 YTD Budget |
|--|-------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|
| 6313 Dues/Subscriptions | 180 | 1,199 | 207 | 1,977 | 4,971 | 2,272 |
| 6314 Licenses & Taxes | - | - | - | - | - | - |
| <i>Total Other Overhead Expenses</i> | <u>180</u> | <u>1,199</u> | <u>207</u> | <u>1,977</u> | <u>4,971</u> | <u>2,272</u> |
| Total Overhead Expenses | <u>14,701</u> | <u>11,470</u> | <u>14,405</u> | <u>31,534</u> | <u>35,518</u> | <u>31,160</u> |
| Contracted Expenses | | | | | | |
| 6280 Other Contractual | 1,941 | 2,067 | 2,288 | 22,459 | 17,107 | 26,470 |
| 6281 Contract Auto Repair | - | - | - | - | - | - |
| 6282 Equipment Repair and Maintenance | 165 | 450 | 196 | 428 | 1,420 | 508 |
| 6283 Building Repair and Maintenance | 14,526 | 1,782 | 17,340 | 21,719 | 14,083 | 25,927 |
| 6285 Contract Landscaping | - | - | - | - | - | - |
| 6286 Contract Cleaning | - | 1,922 | - | - | 1,922 | - |
| 6322 Snow Removal | 4,138 | - | 3,577 | 8,959 | 13,288 | 7,744 |
| Total Contracted Expenses | <u>20,770</u> | <u>6,221</u> | <u>23,401</u> | <u>53,565</u> | <u>47,820</u> | <u>60,649</u> |
| Utility Service Expenses | | | | | | |
| 6271 Electric Service | 18,695 | 14,986 | 21,145 | 64,175 | 46,716 | 72,584 |
| 6272 Gas Service | 11,143 | 10,696 | 10,370 | 24,266 | 33,570 | 22,582 |
| 6274 Water | 2,838 | 625 | 2,147 | 7,338 | 1,845 | 5,550 |
| 6275 Waste Disposal | 690 | 754 | 1,061 | 3,585 | 2,936 | 5,515 |
| 6276 Telephone/IS | 242 | 171 | 275 | 722 | 714 | 819 |
| Total Utility Expenses | <u>33,608</u> | <u>27,232</u> | <u>34,997</u> | <u>100,086</u> | <u>85,781</u> | <u>107,050</u> |
| Gross Operating Expenses | <u>106,940</u> | <u>85,792</u> | <u>119,361</u> | <u>319,556</u> | <u>339,160</u> | <u>373,459</u> |
| Earnings before Interest-Debt-Capital | (26,383) | 27,338 | (35,056) | 164,638 | 231,103 | 135,365 |
| Interest and Debt Expenses | | | | | | |
| 6295 Debt Service Payments - Major Maintenance (A (APEX) Energy Savings Project - Debt Commitment | - | - | - | 7,375 | 6,750 | 6,722 |
| 6613 Debt Service | - | - | - | - | - | - |
| 6420 Bad Debts | - | - | - | - | - | - |
| Total Debt & Other Fiscal Expenses | - | - | - | <u>7,375</u> | <u>6,750</u> | <u>6,722</u> |
| Capital Expenses | | | | | | |
| 6520 Capital Outlay Buildings | - | - | - | - | 1,564 | - |
| 6540 Capital Outlay Machinery & Equipment | - | - | - | - | - | - |
| 6541 Capital Outlay Other Improvements | - | - | - | - | - | - |
| 6542 Capital Outlay Computers | - | - | - | - | - | - |
| 7417 Transfer to Capital Reserve Fund | 11,667 | 11,667 | 11,667 | 35,000 | 35,000 | 35,001 |
| Total Capital Expenses | <u>11,667</u> | <u>11,667</u> | <u>11,667</u> | <u>35,000</u> | <u>36,564</u> | <u>35,001</u> |
| Total Expenses | <u>118,607</u> | <u>97,459</u> | <u>131,028</u> | <u>361,931</u> | <u>382,474</u> | <u>415,182</u> |
| Net Income (Loss) | <u>(38,050)</u> | <u>15,671</u> | <u>(46,723)</u> | <u>122,263</u> | <u>187,789</u> | <u>93,642</u> |
| Percent of Revenue | -47% | 14% | -55% | 25% | 33% | 18% |

Dasher Board Inspection Report



Inspection Report Date: March 29th, 2023

Inspection Address: Hasse Arena

8525 215th St W, Lakeville, MN 55044

Client Name: Joseph Bergquist

Phone: 952-985-2179

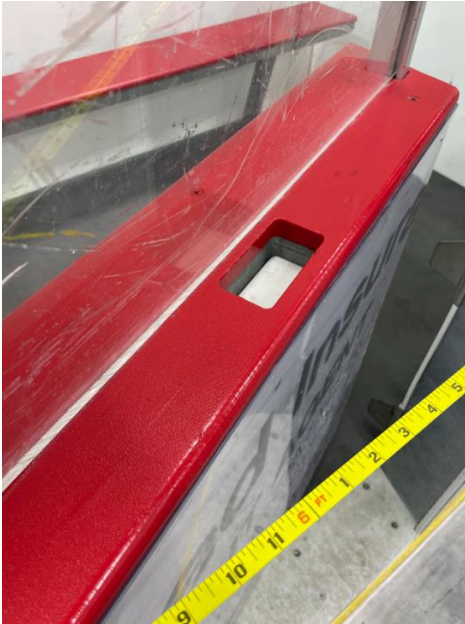
E-mail Address: jbergquist@lakevillemn.gov

Present during inspection: Joseph Bergquist

Manufacturer: Rink Systems

Year Built: 2007

Inspector: Todd Close



#1 Penalty gate door push button sticks / loose fasteners.



#2 Glass leaning into rink.



#3 Dasher boards leaning into rink.



#4 Broken Lexan at gate door panel.



#5 Players gate hit with Zam. Frame bent.



#6 Door frame bent.



#7 Bent door hitting poly threshold.



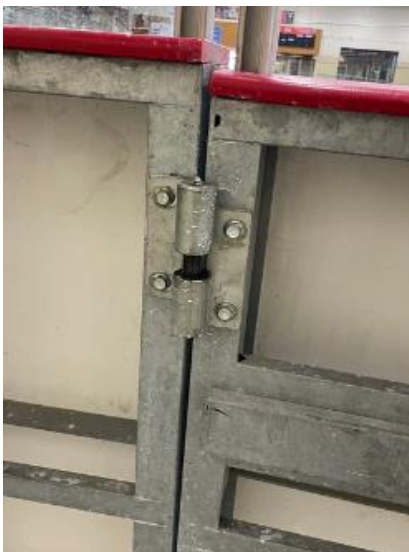
#8 Loose gate fasteners (All Gates)



#9 Dasher boards leaning into rink.



#10 Equipment gate hardware failing.



#11 Equipment gate not aligned.



#12 Equipment gate slide bar not aligned.



#13 Equipment Gate hinges not installed correctly.



#14 Equipment gate casters are failing.



#15 Penalty Gate push button sticks (loose fasteners).



#16 Players gate not aligned.



#17 Dasher boards leaning into rink.



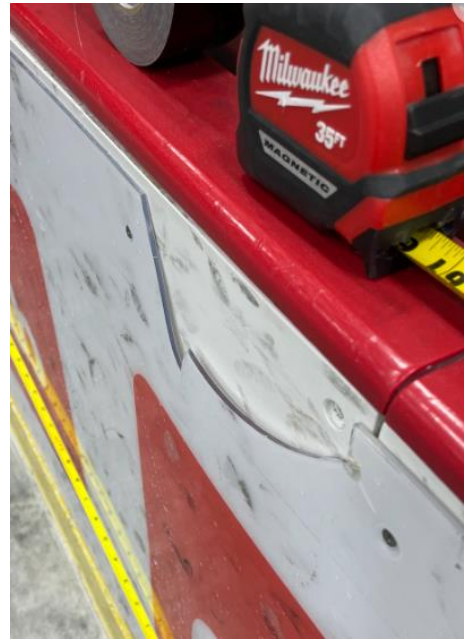
#18 Dasher boards leaning into, and back of rink.



#19 Boards dented in mutiple locations



#20 Termination Shielding Supports not aligned



#21 Broken Lexan at Cub Ad



#22 Cracked facing at seams in multiple locations



#24 Access Gate push button sticks (loose fasteners).



#25 Glass Leaning into rink.



#26 Dasher Boards leaning into rink.



#27 Board bent from Zam hit.



#28 Board bent from Zam hit.



#29 Board bent from Zam hit.



#30 Loose fasteners in multiple locations.



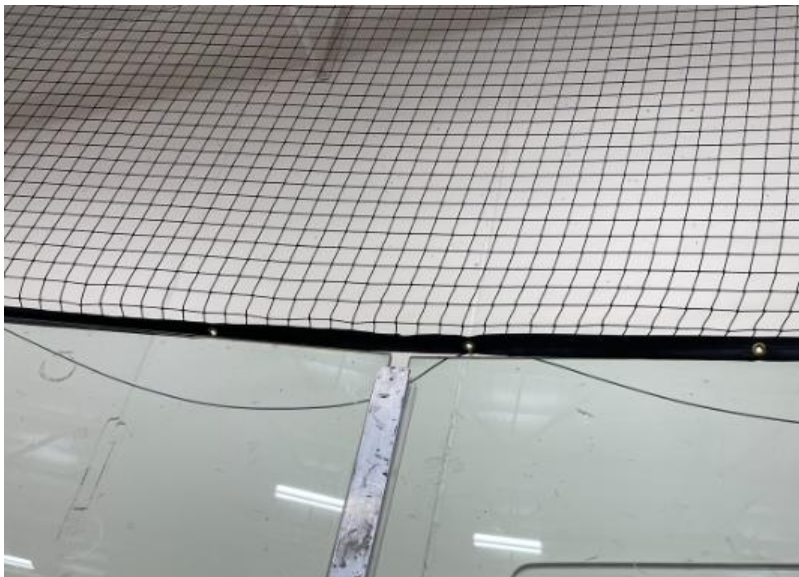
#31 Missing EQ Threshold



#32 Suction cups not attached.



#33 3 Holes in netting lobby end.



#34 Loose cable opposite lobby.



#35 Loose cap rail fasteners.

DasherBoard Inspection Report

A=Acceptable

MI=Minor or
Maintenance

M=Moderate

S=Significant

| A | MI | M | S |
|---|----|---|---|
|---|----|---|---|

| | | A | MI | M | S |
|----|---|---|----|---|---|
| 1 | Dasher Board Facing: 1/2" White HDPE | | X | X | |
| 2 | Dasher Board Cap Rail: 3/4" Red HDPE | | X | X | |
| 3 | Dasher Board Kick Plate: 1/2" Yellow HDPE | | X | X | |
| 4 | Dasher Board Alignment | | | X | |
| 5 | Players Bench Alignment | | X | | |
| 6 | Dasher Board Welded Steel Frames | | X | X | |
| 7 | Gate Hardware | | | | X |
| 8 | Containment Netting | | X | | |
| 9 | Dasher Board Anchors | | X | X | |
| 10 | Dasher Board panel connecting bolts | | X | X | |
| 11 | Dasher Board facing fasteners | | X | | |
| 12 | Dasher Board shielding termination posts | | X | X | |
| 13 | Dasher Board Glass | | X | | |
| 15 | Player/Penalty/Score Keeper rubber flooring | | X | X | |
| 16 | Lexan Supportless glass clips | | X | | |
| 17 | Post Pads | | X | | |
| 18 | Equipment Gate Threshold | | | | X |



Todd Close | Site Technical Services
Becker Arena Products

(952) 567-7714 Direct
(612) 669-5009 Mobile
beckerarena.com

REPORT DETAILS:

#1 Penalty gate door push button sticks.

Level & plumb door. Adjust hardware. Tighten fasteners.

#2 Glass leaning.

Level & plumb. Shim where needed.

#3 Dasher boards leaning.

Level & plumb. Shim where needed.

#4 Broken Lexan.

Replace Lexan.

#5-7 Bent players gate door frame.

Replace door frame. Level & plumb. Shim where needed.

#8 Loose fasteners.

Tighten/replace fasteners where needed.

#9 Dasher boards leaning.

Level & plumb. Shim where needed.

#10 – 14 Equipment Gate hardware needs to be replaced.

Replace hinges with bolt-on adjustable hinges. Install new caster wheels. Install 2 external support posts.

#15 Penalty gate push button sticks.

Level & plumb door. Adjust hardware. Tighten fasteners.

#16 Players Gate door not aligned.

Level & plumb. Shim where needed.

#17 & #18 Dasher boards leaning in.

Level & plumb. Shim where needed.

#19 Dented dasher frames.

Repair or replace flame.



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#20 Sheild supports not aligned.

Level & plumb. Shim where needed.

#21 Broken Lexan

Replace Lexan.

#22 Cracked facing at panel seams.

Replace facing.

#24 Access gate push button sticks.

Level & plumb door. Adjust hardware. Tighten fasteners.

#25 Glass leaning

Level, plumb and shim.

#26 Dasher panles leaning.

Level, plumb and shim.

#27 Bent dasher panel.

Replace dasher frame.

#28 & 29 Bent dasher frames.

Replace dasher frame.

#30 Loose/missing facing fasteners

Tighten and add fasteners. 20-30 (Type F)

#31 Missing threshold.

Install new threshold. 10'-5/8" x 1-1/2" X 7"

#32 Suction cups not attached.

Re-attach suction cups

#33 Holes in netting

Repair holes with plastic ties.

#34 Loose cable

Tighten cable.

#35 Loose cap rail fasteners Tighten where needed.



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SUMMARY OPINION: The dasher system is Fair to Poor.

Poor hardware at nearly every gate. Stanchions, facing, and Kick plate are fair to poor with repair/replacement recommended. Multiple locations of cracked poly facings discovered and should be replaced. Glass/Panel adjustments and replacements needed. Dasher corrections at access gates recommended for safety. Misalignments in dasher panels and shielding supports most likely cause negative impacts to game situations. Overall, the dasher board system is fair to poor condition.

Report Ratings: Fair to Poor:

Visual appearance is low on scale and although operable, contains opportunities for injury due to gate alignments, hinge operability, and missing/broken hardware. There is typical aging and wear combined with damage from Zamboni collisions significant enough to warrant replacement. Minor/maintenance: Requires some maintenance, repair, or service.

Customer #: 206506
Sourcewell ID: 32442
Quotation #: Hasse Rink Repairs
Revision #:
Date: April 12, 2023
Proposal Expiration Date: May 12, 2023
Sales Consultant: Dan Mehren

Prepared For:
Joe Bergquist
Lakeville Arenas
8525 215th St West
Lakeville MN 55044

Project Location:
Hasse Ice Arena
8525 215th St West
Lakeville MN 55044

Thank you for considering Becker Arena Products, Inc., we appreciate the opportunity...

Benefits of Choosing to Partner with Becker Arena Products

- A stable and reliable company since 1988
- A staff with in-depth knowledge of the industry and products
- Quality products that last
- Experienced and professional installers
- Excellent customer service
- Worry Free Projects – Guaranteed
- Manufactured in Minnesota

This system is available through the Sourcewell Cooperative Purchasing Program at discounted pricing. BECKER ARENA PRODUCTS, INC – VENDOR CONTRACT #120320 - ATH

- Sourcewell is a municipal contracting government agency that serves education and government agencies nationally through competitively bid and awarded contract purchasing solutions. Over 47,000 Member agencies enjoy the value and commitment of the world-class Sourcewell awarded Vendors. Take advantage of the cooperative purchasing discounts shown here in this quotation mentioning our contract **#120320 - ATH** when ordering. You must be a member and contracting authority. Ask your salesperson for a copy of the Sourcewell Contract Purchasing information

Per your request, please find the below pricing to repair the existing dasher system at Hasse Ice Arena. Estimated time onsite would be five days, four-man crew. All recommendations based on rink inspection conducted March 29, 2023.

Rink Dimensions – 200' x 84'11" x 28' radius.

BAP to Furnish Material and Labor to repair or replace the following:

- Replace 9 dasher frame sections. BAP 6.0 steel, w/white poly facing and yellow kickplate, red cap rail
 - 6 along lobby end zone and radius
 - 2 on either side of EQ gate
 - 1 at far spectator radius
- Replace the facing along the entire spectator side approximately 140'
- Replace cap rail along home team player bench
- Replace one player gate frame

- Add hand holds to all push button gates
- Replace 6 advertising panels, 96"x33" 1/8" Lexan
- Repair and adjust all 10 player access gates. New lift latches to be installed in player boxes
- Plumb and level all framing/shielding supports
- Replace netting cable at EQ gate end
- Reattach netting and cable at lobby end
- Tighten all loose hardware and fasteners
- Equipment gate:
 - Install two new external support posts
 - Install four new hinges
 - Install new 1.5" poly threshold
 - Install two new swivel casters
 - Install new slide bar handle

INSTALLATION

Becker Arena Products, Inc. will furnish a crew for the complete installation and repair of the existing system as described above. Price includes installation labor (**Non-union labor/non-prevailing wage rate**), and all equipment as required.

Total Price (material, labor, freight)

Accept _____ \$ 57,694.00

Please Note: Taxes are the responsibility of the purchaser. Prices do not include special insurance requirements, bonding, or applicable permits and/or license fees. Prices subject to site visit and/or receipt of final construction drawings and specifications. If sales tax is applicable, it will be added to the proposal totals and noted on a Contract Summary Sheet that will be sent back with your executed contract.

All payment terms are based on credit approval.

Our Standard Payment terms are:

| | |
|---------------------------------|----------|
| 50% due upon placement of order | \$ _____ |
| 50% due upon completion | \$ _____ |

Material Price Escalation & De-Escalation Clause (Due to the volatility of all components of the above dasher board system)

- In the event that the price of any of the material(s) used in the Becker Arena Products, Inc. production of the above product increase or decrease by 5% or greater from the price used for that material(s) at the time the quote was signed, then the price for the material(s) in the contract between Becker Arena Products, Inc. and the purchaser shall be increased or decreased to reflect the additional or reduced cost to obtain that material or materials. Purchaser agrees that Becker Arena Products, Inc. shall be entitled to an adjustment to the contract price to reflect and price increases of material(s) that occur because of Becker Arena Products, Inc. incurring additional costs when ordering materials.

The above payment amounts will be filled in based on total contract price and any applicable sales tax and sent back on the Contract Summary Sheet with your executed contract.

We are looking forward to the opportunity of working with you on your project and if we can be of further assistance please do not hesitate to call.

This proposal is subject to Becker Arena Products, Inc. Standard Terms and Conditions and Limited Warranty and may be withdrawn without penalty at any time before contract execution. If accepted, please sign, and return this copy to Becker Arena Products. When approved and signed by one of our officers a fully executed copy will be forwarded for your records. This proposal is subject to change, withdrawal, or cancellation until accepted by you. If Becker Arena Products, Inc. have not received your acceptance within 60 days from the date hereof, this proposal shall automatically expire. Becker Arena Products, Inc. retains a security interest in all products covered in this agreement until all payment terms have been met. In addition, the purchaser agrees to sign any additional documents for Becker Arena Products, Inc. to perfect its security interest in the products.

Proposal/Contract **Hasse Rink Repairs** is accepted with initialed options:

Purchaser Signature

Arenas Manager _____
Title

Joe Bergquist _____
Print Name

Date

32442 _____
Sourcewell ID

Becker Arena Products, Inc.

General Manager _____
Title

Jeff Brosz _____
Print Name

Date

#120320 - ATH _____
Sourcewell Contract ID

BECKER ARENA PRODUCTS INC. STANDARD TERMS AND CONDITIONS OF SALE - EFFECTIVE JANUARY 2021

1. Definitions. In these terms "Seller" means the seller of the Goods as defined herein; "Buyer" means the entity purchasing the Goods, including any successors thereof; "Goods" means the goods, products and materials manufactured, imported, supplied and/or delivered for or by Seller to Buyer, as such were approved by Seller in reply to Buyer's order and accordingly listed in the Approval of Order; "Approval of Order", in respect of any Buyer's order, means the instrument issued by Seller, bearing the same reference number of such order and specifying, *among any other terms*, the items of Goods, including their respective price and quantity, which shall be supplied to Buyer upon such order; "Contract" means the contract for the supply of Goods which have been ordered by Buyer and specified in Seller's Approval of Order, which contract is concluded based on these Terms and Conditions of Sale unless otherwise specified in the Approval of Order.

2. Payment. Payment for Goods shall be due on or prior to the delivery date of Goods and no discount may be taken. Payments received after the due date thereof shall bear a service charge from their due date, at the maximum lawful interest rate applicable, and if none – at the annual rate of 5% above the base rate from time to time of the central bank of the place of Buyer's incorporation. All payments shall be made to Seller's designated bank account in the same currency and for the same amounts as specified in the Approval of Order.

3. Prices, Duties and Taxes. Prices specified in the Approval of Order are net, excluding packaging, and shall be deemed Ex-works (Incoterms 2000 as amended). Prices are based, inter alia, on production costs for supplies, labor, deliveries, duties, and services current on the order date. In the event of material increase in any such costs, Seller reserves the right either to adjust the prices for Goods accordingly, or to cancel any certain part of the sales relating to undelivered Goods. Duties, taxes, fees, levies and other compulsory payments applicable to the sale of Goods any time, as well as freight, express, insurance and delivery charges, shall all be borne and paid in full by Buyer, unless otherwise expressly stipulated.

4. Delivery. Delivery dates noted on the Approval of Order are estimates only, and are not guaranteed, and are all subject to adjustment as determined by the Seller acting reasonably. The acceptance of shipment by a common carrier or by any licensed public truckman shall constitute proper delivery. Risk associated with the Goods shall pass to Buyer on delivery or with the passing of title in the Goods, whichever occurs first; provided however, that where delivery is delayed due to circumstances caused by or within the responsibility of Buyer, risk of loss shall pass to Buyer upon Seller's notification that Goods are ready for dispatch.

5. Retention of Title. Title shall pass to Buyer only upon full payment by Buyer for the Goods and following payment of any other outstanding debt by Buyer to Seller. Buyer shall, at Seller's request, take any measures necessary under applicable law to protect Seller's title in the Goods, and lawfully notify Buyer's present or potential creditors of Seller's title on and interest in the Goods. Buyer acknowledges that so long as title has not been transferred in the Goods, it holds the Goods as bailee and fiduciary agent for the Seller and shall safely and securely store and keep the Goods separate and in good condition, clearly showing the Seller's ownership of the Goods and shall respectively record the Seller's ownership of the Goods in its books. Notwithstanding the above, Buyer may use Goods for its own use, or sell Goods, as fiduciary agent for the Seller, to a third party in the normal course of business by bona fide sale at market value, whereby proceeds of such usage or sale of Goods, as the case may be, shall, to the extent of the amount being owed by Buyer to Seller at the time of receipt of such proceeds, be held by Buyer on trust for Seller and specifically ascertained, until payment in full for all payable debts by Buyer to Seller.

6. Warranty.

a) If applicable, Seller warrants that Goods as set out in the warranty applicable thereto given by Seller to Buyer, subject always to the terms and conditions thereof, and subject to use, storage and application thereof in accordance with and based on Seller's standard tolerances, instructions of use and recommendations. b) Unless otherwise restricted by mandatory applicable law, THE WARRANTY SET FORTH HEREIN IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY AND ALL WARRANTIES OF MERCHANTABILITY, QUALITY AND FITNESS FOR USE AND FOR PURPOSE, ANY ADVICE AND RECOMMENDATION AND ANY OBLIGATIONS OR LIABILITIES WHICH MAY BE IMPUTED TO SELLER, ANY AND ALL OF WHICH ARE HEREBY EXPRESSLY DISCLAIMED, DENIED AND EXCLUDED. BUYER EXPRESSLY AGREES THAT NO WARRANTY THAT IS NOT SPECIFICALLY STATED IN THIS AGREEMENT WILL BE CLAIMED OR OTHERWISE ADHERED TO BY BUYER AND/OR BY ANYONE ACTING ON BUYER'S BEHALF AND/OR BY ANYONE DERIVING THE LEGALITY OF ITS CLAIM FROM BUYER, NOR THAT WILL ANY SUCH WARRANTY BE VALID. SELLER NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, USE OR HANDLING OF ANY AND ALL GOODS SPECIFIED OR CONTEMPLATED BY THIS CONTRACT. NO WARRANTY IS MADE WITH RESPECT TO ANY OF THESE GOODS WHICH HAVE BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATION, IMPROPER CARE, IMPROPER STORAGE, IMPROPER MAINTENANCE, ABUSE OR MISUSE.

7. Claims and Liability.

a) Unless Seller shall within 30 days after delivery of the Goods, receive from Buyer written notice of any matter or thing by reason whereof it is alleged that Goods are not in accordance with the Contract, Goods delivered shall be deemed to have been supplied, delivered and accepted in all respects in full conformity with the Contract and Buyer shall be entitled neither to reject the same nor to raise any claim for damages or for other remedy in respect of any alleged negligence and/or breach of warranty and/or any condition. b) In any claim, brought subject to the conditions above, Buyer must prove to the satisfaction of Seller that it followed Seller's instructions for use, care, storage, maintenance, handling and application of the Goods. c) Unless otherwise specifically restricted by mandatory applicable law, Seller's liability under any claim and in connection with any possible allegation, whether based on negligence, contract, or any other cause of action, shall, if the Seller shall be liable hereunder, be limited to either (i) the replacement of the Goods or the supply of equivalent goods; (ii) the repair, or payment of the cost of repair, of the Goods; or (iii) credit in an amount equal to the purchase price specified in Seller's pertinent invoice, or in an amount of equivalent goods, all at Seller's sole option. Buyer acknowledges that the remedy available to him as specified herein, is in lieu of any remedies that may be otherwise available to him, now or in the future, whether in law or in equity, relating to any loss or damage, whether directly or indirectly, arising from the purchase and/or the use of Goods, including without limitation, any actual or contingent damages, loss of production, loss of profit, loss of use, loss of contracts or any other consequential or indirect loss whatsoever, whether pecuniary or non-pecuniary, and it is acknowledged and agreed by Buyer that in no circumstances shall Seller be liable for any such damages. Should any limitation on Seller's liability hereunder be held ineffective under applicable law, than Seller's liability shall in any event be limited to the minimum amount of damages to which Seller may limit its liability, where such is greater than the purchase price as specified in Seller's pertinent invoice. Additionally, any action against Seller must be commenced within one year after the cause of action accrues. d) Buyer, for himself and for any other party which may claim either under or through Buyer, or independently of Buyer, including Buyer's employees, directors, officers, representatives and personnel, shall indemnify and hold Seller harmless, from and against any claim or liability for damages in any way relating to the supply or use of the Goods, including claims for negligence and including but not limited to, any claim in connection with the design, manufacture, use, care, storage, delivery, application or maintenance of any Goods sold hereunder, whether alleged to have been committed by Seller or by any other person whatsoever. Buyer's undertaking as specified in this subsection shall extend and inure to the benefit of Seller and of Seller's successors at any time, as well as to Seller's personnel, representatives, managers, directors and officers. Nothing contained herein shall take effect to exclude or limit liability where liability may not be excluded or limited under applicable law, including, without limitation, for death, personal injury and fraudulent misrepresentations. e) Any and all warranties, undertakings, guarantees, or assurances provided herein by Seller, are specifically limited to Buyer herein, and not imputed by Seller, whether directly or indirectly, expressly or impliedly, to any other person or entity, including any subsequent buyer or user, bailee, licensee, assignee, employee and agent of Buyer.

8. Default. Upon failure of Buyer to pay any amounts due to Seller, or in the event of any breach or anticipated breach by Buyer of any Contract with Seller, or if Buyer shall either (i) become insolvent, (ii) call a meeting of its creditors, or (iii) make any assignment for the benefit of creditors, or if (iv) a bankruptcy, insolvency, reorganization, receivership or reorganization proceeding shall be commenced by or against Buyer, then, in each such occasion, Seller may, at its sole discretion, opt to (1) cancel this and any other Contract with Buyer (without waiving any of Seller's rights to pursue any remedy against Buyer); (2) claim return of any Goods in the possession of Buyer, the title of which has not passed to Buyer, and enter Buyer's premises (or the premises of any associated company or agent where such Goods are located), without liability for trespass or any alleged damage, to retake possession of such Goods; (3) defer any shipment hereunder; (4) declare forthwith due and payable all outstanding bills of Buyer under this or any Contract; and/or (5) sell all or part of the undelivered Goods, without notice at public and/or on private sale, while Buyer shall be responsible for all costs and expenses of such sale and be liable to Seller for any shortfall in the discharge of the amounts due to Seller. **9. Independent Delivery.** Each delivery of Goods shall (without prejudice to Seller's rights under clause 8 hereinabove) be considered a separate contract and the failure of any delivery shall not vitiate any contract as to deliveries of other Goods and payment therefor.

10. Cancellation. Orders manufactured in whole or in part, pursuant to Buyer's specifications, may not be cancelled except with Seller's prior written consent, on terms which will compensate Seller for any resulting losses.

11. No-Assignment. No rights or obligations of Buyer arising out of this Contract may be assigned without the express prior written consent of Seller.

12. Force Majeure. Should Seller be prevented from effecting deliveries of the Goods or any of them by reason of either an act of god, insurrection, riot, war hostilities, terror attacks, warlike operations, piracy, arrests, restraints or detentions by any competent authority, strikes or combinations or lock-out of workmen, fire, floods, droughts, earthquakes, permanent or temporary delay or inability to obtain labor, material or services through Seller's usual and regular sources, or any other circumstances (whether of a nature similar to those specified, or not) beyond the absolute control of the Seller, then, in each such cases, the obligation of the Seller to effect deliveries hereunder shall be suspended until after such prevention shall cease to continue. Should any deliveries under this Contract be suspended under this clause for more than 90 days – either party may withdraw from this Contract and be relieved from any liability; provided however, that Buyer shall nevertheless accept delivery and pay for such Goods once the Seller is able to deliver in accordance with the period(s) of shipment named in this Contract. Seller shall not be liable for, and be relieved from, any loss or damages of any kind resulting from the causes mentioned hereinabove.

13. Advice. Any provisions specified or implied by herein or elsewhere notwithstanding, any advice, recommendation, information, assistance or service provided by Seller in relation to the Goods or in respect of their use or application is given in good faith, shall be deemed accepted by Buyer without imputation of any liability to Seller, and it shall be the responsibility of Buyer to confirm the accuracy and reliability of the same in light of the use of which Buyer makes or intends to make of the Goods.

14. Entire Agreement. This Contract merges the entire terms and conditions for sale of the Goods. In the event of any conflict between the terms herein and any provisions included in the Approval of Order, the latter shall govern and prevail. Subject to the foregoing, nothing specified in, or referred to by, any other document, record or instrument whatsoever, which relates to and/or which otherwise subsists in connection with the sale of Goods herein, whether expressly or impliedly, including any written order, request or other standard or specific terms of any entity, shall or may be interpreted to attribute to Seller and/or to Seller's affiliates or representatives (i) any liability, obligation, commitment and/or undertaking, and/or (ii) any waiver in connection with or of any right, whether contractual, proprietary, in-person and/or equitable, including but not limited to, any and all intellectual property rights in connection with the Goods, which are and shall always remain in the Seller's exclusive and complete ownership under all circumstances whatsoever, notwithstanding any sale of Goods hereunder and whether the Goods shall be standard Goods or manufactured to a specific order. No modification or waiver of any provision hereof shall become valid and effective except upon a written instrument duly signed beforehand by Seller. No waiver by either party of any default of the other party shall be deemed a waiver of any subsequent or other default. If any provision of this Contract becomes or is declared by a court of competent jurisdiction to be illegal, unenforceable, or void, the balance of this Contract shall continue in full force and effect without the provision.

15. Law and Arbitration. This Contract shall be governed by and construed in accordance with the laws of the state of Seller's incorporation. Any dispute arising out of or in connection with this Contract shall, if so determined by the Seller, be finally settled by arbitration in accordance with the Rules of Conciliation and Arbitration of the International Chamber of Commerce ("ICC"), as shall be in effect from time to time, and if so determined, the balance of this Section shall apply. The arbitration shall be held at such location in the state of Seller's incorporation as shall be determined by Seller, in its sole discretion. The arbitrator shall be mutually appointed by Seller and Buyer within 21 (twenty-one) days following a written demand for arbitration by either of the parties. Failing to reach an agreement regarding the nomination of an arbitrator, the head of the relevant ICC national committee (located in the Seller's country of incorporation; and absent such local committee in that specific country – the ICC UK Committee (www.iccuk.net)) shall appoint an arbitrator at the request of any of the parties, a copy of which request for the appointment of an arbitrator shall be provided by the requesting party to the other party. Awards may be enforced in accordance with the 1958 New York Convention and judgment may be entered upon any award in any court having jurisdiction over the parties and/or their assets. The arbitrator's fees shall be paid by both parties in equal parts unless otherwise determined by the arbitrator. This provision shall survive any termination of any of the terms and conditions herein and shall be deemed to constitute an independent arbitration agreement between Buyer and Seller for all purposes and intents.

16. Dasher Board Systems

1. Seller may choose whether or not to produce the rink according to its production schedule. If they produce the rink on schedule, it will be stored at Becker Arena Product's location of business and storage fees will be charged to the Purchaser at the rate of US \$300 per week. All payments will be due according to the terms from the original ship date. If the Seller chooses to delay production to coincide with the new ship date, no storage fees will apply, and payment will be due according to the terms from the original ship date. If contract terms are paid in full prior to shipping, the time will start from the original ship date and not the adjusted ship date.
2. A new shipping installation date will be coordinated with Seller's installation department and confirmed with the Purchaser. The Seller will reschedule the installation for the next available date according to the Seller's installation schedule. In some cases, the site delay may cause additional charges. This includes, but is not limited to, wages, remobilization, and equipment rental, to be paid by the Purchaser.
3. If the Purchaser's site is not ready when the Seller's installation crew arrives, additional costs will be charged to the Purchaser. This includes, but is not limited to wages, travel, lodging, meals, equipment rental and changes in Becker Arena Product's installation schedule.

17. General Site Requirements.

The following criteria must be met, or extra charges may apply, and delays will be incurred, if the site is not in compliance when Seller is ready to deliver and install the goods:

1. Concrete and Floor Work: All concrete work is to be completed and allowed to cure, according to job specifications and/or refrigeration contractors requirements, before the date installation is scheduled to begin.
2. The levelness of the perimeter concrete, where the rink is to be installed, must be within 1/8" of levelness for every 10' in length and no more than 1/4" difference in height over the length and width of the perimeter surface.
3. For sand floors, the first 6" from the front of the curb, where the rink is to be installed, must be within 1/16" of flatness from the inside edge outward and meet the levelness and flatness conditions specified above, Sand floors are not to be final graded prior to dasher board installation.
4. Expansion joints, which are to be covered completely by the rink, are to be within 1/2" of straightness from end to end and side to side. The distance from side to side and end to end of the outside edge of the expansion joint is to be within 1/2" of the required dimension for the frame to cover it.
5. If, upon arrival, the perimeter concrete is inspected and does not meet the specifications for levelness, flatness, straightness and size, the following will occur:
6. Seller's Representative will determine if rink can be shimmed or adjusted/cut to achieve desired levelness, fit and/or expansion joint coverage while maintaining the structural integrity of the rink. If so, the additional time and materials to do this will be paid by the Purchaser. A change order must be filled out by the Seller's Representative and signed by the Purchaser before any work commences.
7. If the rink cannot be shimmed or adjusted to the desired levelness and/or coverage while maintaining the structural integrity of the rink, the Purchaser will be responsible for fixing the surface to meet specifications. All associated costs for this are the sole responsibility of the Purchaser.
8. The Seller will accept contracts that are retrofit projects with the understanding that the condition of the underlying perimeter concrete work meets the specifications stated above. If, after removal of the existing rink, the concrete does not meet these conditions, points "1" and "2" from above will apply.

18. Requirements for Rink Installations:

(Refer to the enclosed Site Requirements)

1. Walk Through Inspection. When Seller's work is complete or near complete, Purchaser or the Purchaser's Representative (including general contractors and architects) must be available for a final walk-through inspection with the Seller's Representative. Any parties who do not attend the walk through will forfeit their right to submit punch list items. A final punch list of items to be completed or repaired will be prepared as a result of this walk through. Any item not included on the final "punch list" will not be the responsibility of the Seller unless it is covered by the Seller's Warranty.
2. Shop Drawings and Non-standard Shielding. Preparation of shop drawings will not commence until after the signed contract has been delivered to Seller. Production will not commence until Seller receives approved shop drawings. Field measured; tempered glass (non-standard sizes) may require an additional 3-4 weeks for delivery after completion of installation. Any field measured tempered glass to be installed by purchaser.
3. Polyethylene. All polyethylene used to manufacture the rink shall be virgin material. All colors shall match within manufacturer's tolerance.
4. Seller will not be responsible for replacing polyethylene that conforms to manufacturers color tolerance. During manufacturing, all panels shall have the polyethylene overhang past the frame a minimum of 1/16" on each end to allow for contraction of the material due to temperature change in the field. Seller shall not be responsible for material contraction gaps between panels due to temperature change if it adheres to these manufacturing requirements.
5. Material Check-in. (Installation supervision and supply only contracts) The Purchaser shall be responsible to verify the shipment for quantities and any damage caused from shipping for jobs that include installation supervision or are supply only. Any quantity variances and/or damage must be noted and reported to the Project Manager by filling out the Material Check-in Form and faxing it to the Project Manager. Missing/damaged items must be reported within 24 hours of receipt to receive credit. All boxes will be clearly marked by the Seller. The Ship list will clearly identify the contents and quantities of the shipment. It is the responsibility of the Purchaser to verify that all box numbers in the hardware crate are accounted for, not to open and count each individual item per box. The Purchaser must count anything that is not boxed.



Memorandum

To: Lakeville Arenas Board
From: Joe Bergquist, Arenas Manager
Copy: Jerilyn Erickson, Finance Director
Date: April 19, 2023
Subject: **Resolution 4192023.1 Amending the Capital Reserve Fund Budget**

Introduction

The Capital Reserve Fund Adopted Budget for 2023 contained zero expenditures. The budget was amended in January of 2023 to add 25,000 for the deposit on the purchase of a new Zamboni for Hasse Arena. That deposit is no longer needed as the company does not require a deposit from a municipal government entity.

Staff was originally planning to purchase a new set of dasher boards for Hasse in 2023. However, when the outdoor rink construction was approved it produced a need for second Zamboni, which has been ordered in place of purchasing the new boards for Hasse. However, when the order was placed recently, we were informed that the lead time and delivery for it was a year and a half or more. So, we do not expect delivery until late 2024 or Jan 2025. While working on the budget we reached out for an inspection and quote to repair the boards to get us through another year or two with the current set. The inspection discovered far more unsafe defects than expected and the costs to repair them is approximately 58,000 which we do not have room for in the operating budget.

Staff is recommending that due to the poor and unsafe condition of the current boards and the late arrival of the new Zamboni that the 2023 capital reserve budget be amended to purchase and install a new set of dasher boards at Hasse Arena in 2023 while the ice it still out for construction.

Recommendation

Approve Resolution 4192023.1 Amending the 2023 Capital Reserve Fund Budget to remove the Zamboni deposit and add the purchase of a new set of dasher boards.

LAKEVILLE ARENAS

RESOLUTION NO. 4192023.1

RESOLUTION 4192023.1 AMENDING THE 2023 RESERVE FUND BUDGET TO PURCHASE A NEW SET OF DASHER BOARDS FOR HASSE ARENA.

BE IT RESOLVED, by the Board of Directors of the Lakeville Arenas, Lakeville, Minnesota as follows:

The 2023 budget for the Capital Reserve Fund is hereby amended for the fiscal year ending December 31, 2023, as follows hereto.

| LAKEVILLE ARENAS CAPITAL RESERVE FUND BUDGET | 2023 Adopted | Change | Jan-23 Amended | Change | Apr-23 Amended |
|---|-------------------------|-------------------|---------------------------|-------------------|---------------------------|
| | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| Revenues | | | | | |
| Transfers from Operating Fund | 140,000 | 0 | 140,000 | 0 | 140,000 |
| Interest on investments | <u>331</u> | <u>0</u> | <u>331</u> | <u>0</u> | <u>331</u> |
| Total revenues | <u>140,331</u> | <u>0</u> | <u>140,331</u> | <u>0</u> | <u>140,331</u> |
| Expenditures | | | | | |
| Down Payment for New Zamboni | 0 | 25,000 | 25,000 | (25,000) | 0 |
| New Dasher Boards Hasse Arena | <u>0</u> | <u>0</u> | <u>0</u> | <u>320,000</u> | <u>320,000</u> |
| Total expenditures | <u>0</u> | <u>25,000</u> | <u>25,000</u> | <u>295,000</u> | <u>320,000</u> |
| Net increase/(decrease) | <u>140,331</u> | <u>(25,000)</u> | <u>115,331</u> | <u>(295,000)</u> | <u>(179,669)</u> |
| Balance January 1, 2023 | <u>345,508</u> | | <u>345,508</u> | | <u>345,508</u> |
| Balance Ending December 31, 2023 | <u>485,839</u> | <u>(25,000)</u> | <u>460,839</u> | <u>(295,000)</u> | <u>190,839</u> |

ADOPTED by the Lakeville Arenas Board of Directors this 19th day of April 2023.

LAKEVILLE ARENAS

By: _____
Lakeville Arenas Board Chair

ATTEST:

By: _____

Lakeville

ARENAS



2024 Budget

Proposed April 19, 2023

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Lakeville ARENAS

April 19, 2023

Lakeville Arenas Board members

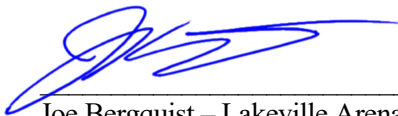
The Joint Powers Agreement requires the Board to approve an annual budget on a calendar year basis. The budget must set forth projected expenditures and revenues necessary to finance lease payments, fund the capital maintenance reserve and to maintain, operate, and manage the Arena Complexes. The budget must be submitted to the City and School District prior to June 1st. The Board must approve the budget prior to July 1. As such the proposed 2024 budget is hereby presented to the Board for their consideration and approval.

The budget is comprised of the following funds for Lakeville Arenas to effectively manage its financial resources.

- General (Operating) Fund. The General Fund accounts for the overall operations of the Lakeville Arenas.
- Capital Reserve Fund. The Capital Reserve Fund was established to provide the financing of future equipment replacements and major facility repairs and improvements.

The salient issues relative to the proposed budget for each of the respective funds are discussed in the sections attached hereto.

Respectfully Submitted,



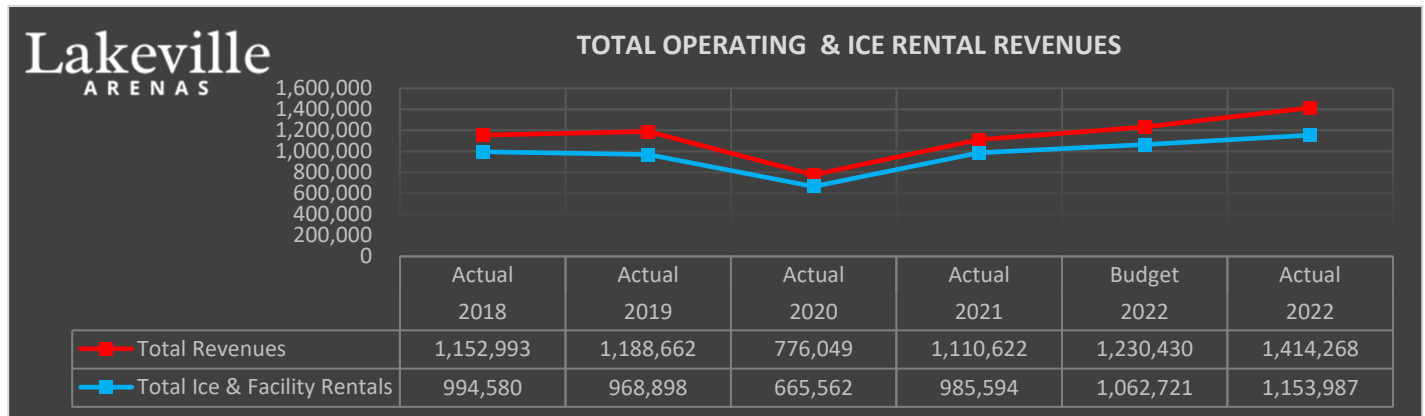
Joe Bergquist – Lakeville Arenas General Manager

2022 Financial Summary

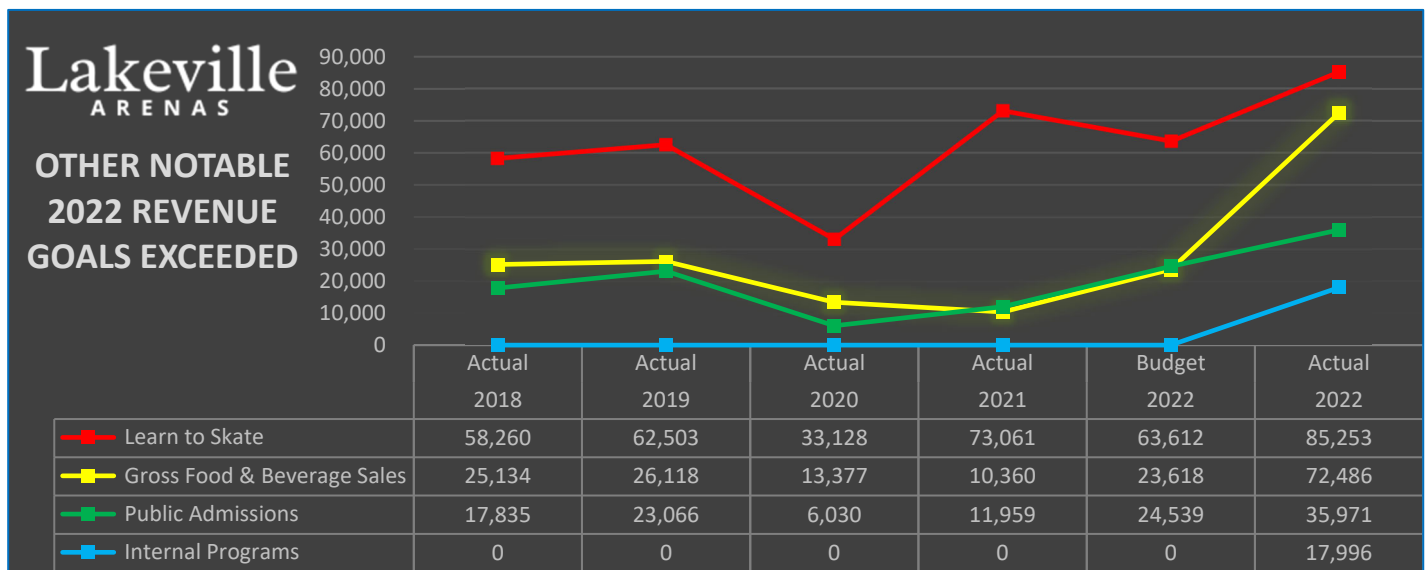
The 2022 fiscal year marked the 15th full year of joint operation of both the Ames and Hasse Arenas. The joint operation has enabled the Lakeville Arenas organization to continue to offer new and expanded opportunities to better serve our customers and the community. Some of the highlights and initiatives are as follows.

REVENUES

2022 marked the first year of new revenue expansion goals designed to improve the programs, amenities, and facilities provided to customers and residents. 2022 was very successful in regard to increasing overall revenue, which was fueled by increased ice sales, public admissions, concession sales and internal programing. The original budget for 2022 was set in early 2021 during the pandemic and with the uncertainty of when we would return to normal. 2019 actual results were used as a benchmark for the 2022 budget. In 2022 Management implemented several operational improvements and revenue expansion goals designed to provide additional revenue that would provide facility and staffing improvements. The success of these new initiatives can be seen in the vast budget variances in both revenue and expenses.



Total revenues in 2022 were \$119,808 higher than budget of \$1,110,622 and \$303,646 higher compared to 2021 actual. The largest gain in revenue was in ice sales which was \$77,127 higher than budget and \$168,393 higher than the original adopted budget. The total hours rented in 2022 were 5,044 compared to 4,570 in 2021. Both ice rental revenue and total hours sold in 2022 were all-time records.



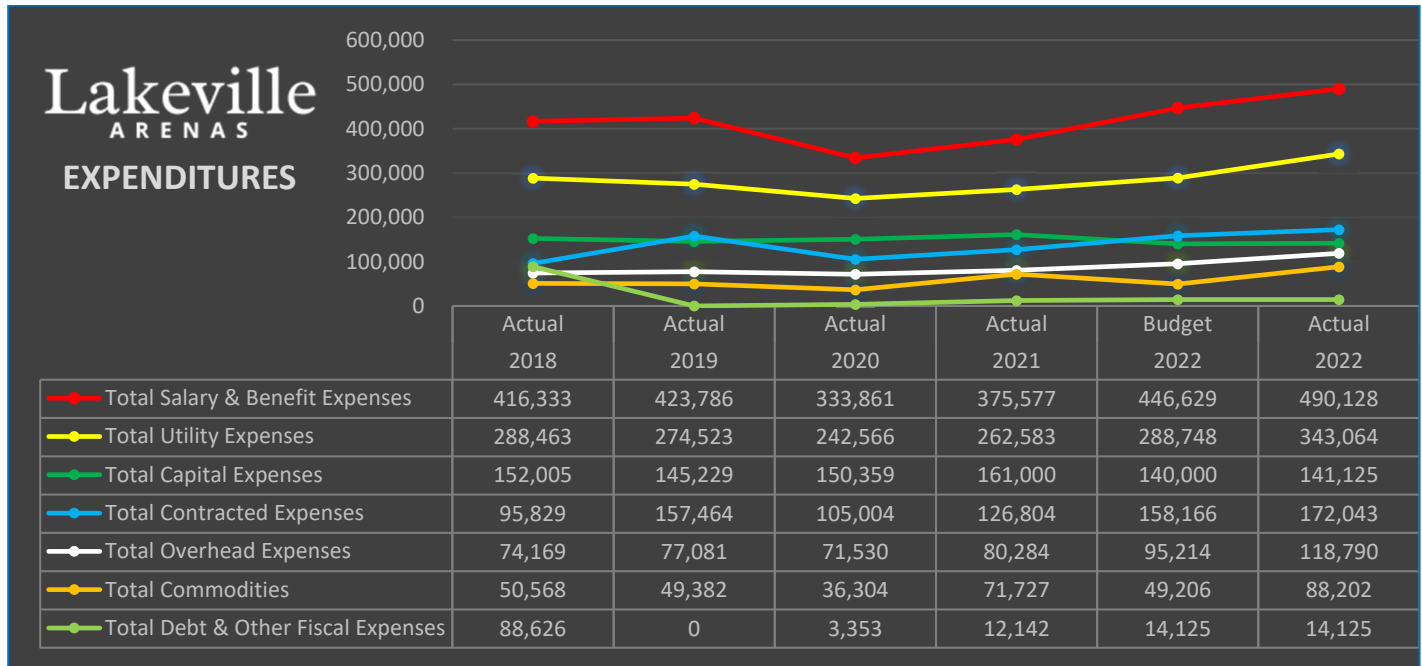
Other notable revenue goals exceeding the budget and set by management included concessions and pro-shop sales, learn to skate programming, advertising sales, new internal programs, and public admissions, all of which also set all-time records.

OPERATING REVENUE

| | 2019 | 2020 | 2021 | 2022 | 2022 | 2022 |
|---|------------------|----------------|------------------|------------------|------------------|-----------------|
| | Actual | Actual | Actual | Amended Budget | Actual | Budget Variance |
| Ice & Facility Rentals | | | | | | |
| Ice Rental - LHA | 429,757 | 370,475 | 483,260 | 539,960 | 477,840 | (62,120) |
| Ice Rental - ISD 194 | 196,751 | 197,062 | 254,064 | 220,392 | 210,124 | (10,268) |
| Ice Rental Other | 287,498 | 61,172 | 228,408 | 341,606 | 402,052 | 60,446 |
| ISD 194 HS Game Gate Share | 37,339 | 27,608 | 14,749 | 46,193 | 43,950 | (2,243) |
| Dry floor Rentals | 17,553 | 9,245 | 5,113 | 19,378 | 20,021 | 643 |
| Total Ice & Facility Rentals | 968,898 | 665,562 | 985,594 | 1,167,529 | 1,153,987 | (13,542) |
| Increase/decrease | (25,682) | (303,336) | 320,032 | 181,935 | 168,393 | |
| Programing & Events Revenue | | | | | | |
| Learn to Skate | 62,503 | 33,128 | 73,061 | 79,507 | 85,253 | 5,746 |
| Public Admissions | 23,066 | 6,030 | 11,959 | 39,922 | 35,971 | (3,952) |
| Internal Programs | - | - | - | - | 17,996 | 17,996 |
| Total Programs & Events Revenue | 85,569 | 39,158 | 85,020 | 119,429 | 139,220 | 19,791 |
| Increase/decrease | 9,474 | (46,411) | 45,862 | 34,409 | 54,200 | |
| Concessions Sales | | | | | | |
| Gross Food & Beverage Sales | 26,118 | 13,377 | 10,360 | 80,282 | 72,486 | (7,796) |
| (Cost of Goods Sold) | - | - | - | - | - | - |
| Concessions Net Revenue | 26,118 | 13,377 | 10,360 | 80,282 | 72,486 | (7,796) |
| Increase/decrease | 984 | (12,741) | (3,017) | 69,922 | 62,126 | |
| Pro Shop Products & Services | | | | | | |
| Gross Pro Shop Product Sales | - | - | - | 936 | 2,535 | 1,599 |
| Pro Shop Cost of Goods Sold | - | - | - | - | - | - |
| Net Pro Shop Revenue | - | - | - | 936 | 2,535 | 1,599 |
| Skate Sharpening | 5,964 | 2,700 | 637 | 5,477 | 5,283 | (194) |
| Skate Rental | 8,554 | 3,570 | 2,808 | 5,333 | 5,217 | (116) |
| Total Pro Shop Products & Services | 14,518 | 6,270 | 3,445 | 11,746 | 13,035 | 1,289 |
| Increase/decrease | (29) | (8,248) | (2,825) | 8,301 | 9,590 | |
| Other Misc. Arena Revenues | | | | | | |
| Games-Vending Machines | 6,376 | 5,146 | 881 | 1,122 | 1,677 | 555 |
| Advertising Sales / Other | 22,718 | 4,966 | 5,673 | 30,708 | 39,147 | 8,439 |
| Donations/Other Misc. | 51,189 | 31,304 | 24,465 | 7,962 | 6,202 | (1,760) |
| Interest on Investments | - | - | - | 3,917 | 4,317 | 400 |
| Net Change in FV of Investments | 13,276 | 10,266 | (4,816) | (19,727) | (15,802) | 3,925 |
| Cash Over/(Short) | - | - | - | - | - | - |
| Total Other Arena Revenues | 93,559 | 51,682 | 26,203 | 23,982 | 35,541 | 11,559 |
| Increase/decrease | 50,922 | (41,877) | (25,479) | (2,221) | 9,338 | |
| Total Revenues | 1,188,662 | 776,049 | 1,110,622 | 1,402,968 | 1,414,268 | 11,300 |
| Increase/decrease | 35,669 | (412,613) | 334,573 | 292,346 | 303,646 | |

EXPENDITURES

The additional revenues of 2022 were used for a wide variety of improvements such as purchasing new concessions and pro shop equipment for expanding sales and making repairs and improvements to the buildings and equipment at both Ames and Hasse. Management was also able to increase salary plans to be more competitive during the recent labor shortage and expand full time positions that will allow Lakeville Arenas to better clean the facilities, maintain the buildings and equipment, offer new programs and opportunities, and better serve our customers and residents overall. Most importantly we have been able to absorb some of the steep increases that we have been seeing for supplies, energy, and other services during the current inflationary period. Increase of revenue and expenses were consistent with one another in 2022. Expenditures were up overall similar to revenues and 97% of revenue as budgeted.



All expense categories increased comparatively to revenues and ended the year within 1% of their budgeted percent of revenue goals. While some of the increases in expenses were from improvements and competitive salary adjustments made with the additional revenues of 2022, many of the increases were also driven by inflation and higher operating costs. Fortunately, the success of the new expanded operations and revenue goals helped absorb some of these higher costs. Had we not had the increased revenues from expansion, many of the improvements would not have been completed and most likely would have seen a loss for the year in net revenue due to the inflation we experienced from our supplies and services.

Salary & benefit expenses increased due to salary plan increases, added workloads in concessions, expanded hours for ice sales, and simply being the first year since the pandemic started that we were fully staffed all year.

Utilities were the second largest expense category at 54,000 higher than budget and \$81,000 compared to 2021. Electric was slightly higher than budget by \$1,200 but \$33,000 compared to 2021. Gas was higher than budget by \$48,000 and \$38,950 compared to 2021.

Contracted expenses were higher than budget by \$14,000, which was due to equipment repairs and upgrades completed with the additional revenues from 2022. The failing Hasse ice plant also accounted for some added uncommon repair expenses. There were also expenses for cleaning services not included in the budget.

Commodity expenses were also higher due to using some of the additional revenues for upgraded equipment in the concessions stands, new ceiling tiles at Ames, new carpet for the vestibules, and other facility improvements.

Overhead expenses were up primarily due to credit card processing fees as we have transitioned the sales of our products and services to digital payments to keep current with public needs and demands.

| OPERATING EXPENSES | 2019 | 2020 | 2021 | 2022 | 2022 | 2022 |
|---|----------------|----------------|----------------|-----------------------|----------------|------------------------|
| | Actual | Actual | Actual | Amended Budget | Actual | Budget Variance |
| Employee Salary Expenses | | | | | | |
| Salaries - Full Time | 191,079 | 157,428 | 155,819 | 228,913 | 230,289 | 1,376 |
| Overtime | - | - | - | 21,957 | 19,767 | (2,190) |
| Salaries - Part Time | 148,379 | 103,871 | 153,135 | 144,377 | 141,394 | (2,983) |
| Total Employee Salaries | 339,458 | 261,299 | 308,954 | 395,247 | 391,450 | (3,797) |
| Employee Benefit Expenses | | | | | | |
| PERA | 14,348 | 18,205 | 17,635 | 22,091 | 23,986 | 1,895 |
| Hospitalization | 33,718 | 23,368 | 16,874 | 22,378 | 20,484 | (1,894) |
| Life and Disability | 99 | 96 | 151 | 147 | 138 | (9) |
| Long Term Disability | 383 | 324 | 300 | 451 | 457 | 6 |
| Dental Insurance | 1,856 | 1,439 | 1,345 | 1,548 | 1,294 | (254) |
| FSA | - | - | - | 71 | 93 | 22 |
| Total Employee Benefits | 50,404 | 43,432 | 36,305 | 46,686 | 46,452 | (234) |
| Employee Withholdings-Other Expenses | | | | | | |
| FICA | 25,162 | 19,509 | 23,625 | 29,063 | 29,912 | 849 |
| Workers Compensation | 8,762 | 9,380 | 6,693 | 11,446 | 11,846 | 400 |
| Unemployment Compensation | - | 241 | - | 10,468 | 10,468 | - |
| Payroll Contingency | - | - | - | - | - | - |
| Employee Withholdings/Other | 33,924 | 29,130 | 30,318 | 50,977 | 52,226 | 1,249 |
| Total Salary & Benefit Expenses | 423,786 | 333,861 | 375,577 | 492,910 | 490,128 | (2,782) |
| Increase/decrease | 7,453 | (89,925) | 41,716 | 117,333 | 114,551 | |
| % of Revenue | 36% | 43% | 34% | 35% | 35% | |
| COMMODITIES | | | | | | |
| Office Supplies / Equipment | 3,005 | 3,419 | 3,716 | 3,640 | 3,731 | 91 |
| Operating Supplies & Equipment | 15,475 | 10,572 | 19,958 | 32,327 | 31,460 | (867) |
| Motor Fuels | 565 | 223 | 463 | 951 | 872 | (79) |
| Cleaning Supplies / Equipment | 10,708 | 8,802 | 5,617 | 11,224 | 8,231 | (2,993) |
| Clothing | 2,473 | - | 4,851 | 1,036 | 36 | (1,000) |
| Chemicals (Condensing Towers) | - | - | - | - | - | - |
| Safety Supplies & Equipment | - | 11,495 | 1,973 | 1,282 | 1,356 | 74 |
| Equipment Parts & Supplies | 2,688 | 541 | 2,549 | 3,524 | 758 | (2,766) |
| Building Repair Supplies & Equipment | 14,012 | 952 | 20,284 | 28,673 | 32,562 | 3,889 |
| Parking Lot Maintenance Supplies | - | - | - | - | - | - |
| Landscaping Materials & Equipment | - | - | - | - | - | - |
| Signs (Advertising Sales Sign Expenses) | - | - | - | - | - | - |
| Small Tools/Equipment | 305 | 260 | 5,432 | 10,378 | 4,957 | (5,421) |
| Computer Supplies | 151 | 40 | 6,884 | 5,000 | 4,239 | (762) |
| Total Commodities | 49,382 | 36,304 | 71,727 | 98,035 | 88,202 | (9,833) |
| Increase/decrease | (1,186) | (13,078) | 35,422 | 26,308 | 16,475 | |
| % of Revenue | 4% | 5% | 6% | 7% | 6% | |
| OTHER CHARGES & SERVICES | | | | | | |
| Admin & Overhead Expenses | | | | | | |
| Professional Services Expenses | | | | | | |
| Professional Fees | - | - | - | - | - | - |
| Attorney Fees | - | 1,470 | - | - | - | - |
| Fiscal Management Fee | 33,792 | 34,500 | 34,896 | 36,588 | 36,588 | - |
| Bank Charges | 2,133 | 1,288 | 1,967 | 16,274 | 16,570 | 296 |
| Audit | 6,125 | 6,300 | 6,500 | 6,695 | 6,695 | - |
| Advertising (Old Dashers/New Media Expense) | 6,247 | 1,169 | 4,985 | 17,067 | 6,407 | (10,660) |
| Insurance | 19,151 | 19,792 | 19,335 | 25,137 | 25,134 | (3) |
| Postage & Shipping | 16 | - | - | - | - | - |
| Total Professional Expenses | 67,464 | 64,519 | 67,683 | 101,761 | 91,394 | (10,367) |
| Training & Education Expenses | | | | | | |
| Tuition Reimbursement | - | - | - | - | - | - |
| Schools and Conferences | - | - | - | 662 | 662 | - |
| Total Education Expenses | - | - | - | 662 | 662 | - |

| | 2019 Actual | 2020 Actual | 2021 Actual | 2022 Amended Budget | 2022 Actual | 2022 Budget Variance |
|---|------------------|------------------|------------------|------------------------|------------------|-------------------------|
| Other Admin & Overhead Expenses | | | | | | |
| Travel Expenses | - | - | - | - | - | - |
| Use of Personal Auto | 230 | 12 | - | 122 | 122 | - |
| Misc. Expenses (Commissions-Donations) | - | - | - | 11,925 | 11,925 | - |
| Dues/Subscriptions/Licenses | 9,387 | 6,999 | 12,601 | 13,620 | 14,687 | 1,067 |
| Licenses & Taxes | - | - | - | - | - | - |
| Total Other Overhead Expenses | 9,617 | 7,011 | 12,601 | 25,667 | 26,734 | 1,067 |
| Total Overhead Expenses | 77,081 | 71,530 | 80,284 | 128,090 | 118,790 | (9,300) |
| Increase/decrease | 2,912 | (5,551) | 8,754 | 47,806 | 38,506 | |
| % of Revenue | 6% | 9% | 7% | 9% | 8% | |
| Contracted Expenses | | | | | | |
| Other Contractual | 10,939 | 8,838 | 20,880 | 54,318 | 59,029 | 4,711 |
| Contract Auto Repair | - | - | - | - | - | - |
| Equipment Repair and Maintenance | 3,402 | 12,873 | 15,464 | 15,373 | 17,059 | 1,686 |
| Building Repair and Maintenance | 122,114 | 72,231 | 72,912 | 72,921 | 73,561 | 640 |
| Contract Landscaping | 690 | 318 | 260 | - | 1,733 | 1,733 |
| Contract Cleaning | - | - | - | - | - | - |
| Snow Removal | 20,319 | 10,744 | 17,288 | 19,028 | 20,661 | 1,633 |
| Total Contracted Expenses | 157,464 | 105,004 | 126,804 | 161,640 | 172,043 | 10,403 |
| Increase/decrease | 61,635 | (52,460) | 21,800 | 34,836 | 45,239 | |
| % of Revenue | 13% | 14% | 11% | 12% | 12% | |
| Utility Service Expenses | | | | | | |
| Electric Service | 187,768 | 171,312 | 179,093 | 217,573 | 212,123 | (5,450) |
| Gas Service | 57,458 | 41,714 | 56,885 | 87,616 | 95,835 | 8,219 |
| Utility Energy Savings (APEX) | - | - | - | (63,460) | - | 63,460 |
| Water | 16,076 | 16,510 | 18,744 | 22,025 | 25,278 | 3,253 |
| Waste Disposal | 11,241 | 9,734 | 4,546 | 7,316 | 6,799 | (517) |
| Telephone/IS | 1,980 | 3,296 | 3,315 | 3,045 | 3,029 | (16) |
| Total Utility Expenses | 274,523 | 242,566 | 262,583 | 274,115 | 343,064 | 68,949 |
| Increase/decrease | (13,940) | (31,957) | 20,017 | 11,532 | 80,481 | |
| % of Revenue | 23% | 31% | 24% | 20% | 24% | |
| Gross Operating Expenses | 982,236 | 789,265 | 916,974 | 1,154,790 | 1,212,227 | 57,437 |
| Earnings before Interest-Debt-Capital | 206,426 | (13,216) | 193,648 | 248,178 | 202,041 | (46,137) |
| Increase/decrease | (21,205) | (219,642) | 206,864 | 54,530 | 8,394 | |
| % of Revenue | 17% | -2% | 17% | 18% | 14% | |
| Interest and Debt Expenses | | | | | | |
| Debt Service Payments - Major Maintenance | - | - | 12,142 | 14,124 | 14,125 | 1 |
| (APEX) Energy Savings Project - Debt Commitment | - | - | - | 63,460 | - | (63,460) |
| Debt Service | - | - | - | - | - | - |
| Bad Debts | - | 3,353 | - | - | - | - |
| Total Debt & Other Fiscal Expenses | - | 3,353 | 12,142 | 77,584 | 14,125 | (63,459) |
| Increase/decrease | (88,626) | 3,353 | 8,789 | 65,442 | 1,983 | |
| % of Revenue | 0% | 0% | 1% | 6% | 1% | |
| Capital Expenses | | | | | | |
| Capital Outlay Buildings | 2,200 | - | 26,000 | - | - | - |
| Capital Outlay Machinery & Equipment | 13,029 | 15,853 | - | - | - | - |
| Capital Outlay Other Improvements | - | - | - | - | - | - |
| Capital Outlay Computers | - | 4,506 | - | - | 1,125 | 1,125 |
| Transfer to Capital Reserve Fund | 130,000 | 130,000 | 135,000 | 140,000 | 140,000 | - |
| Total Capital Expenses | 145,229 | 150,359 | 161,000 | 140,000 | 141,125 | 1,125 |
| Increase/decrease | (6,776) | 5,130 | 10,641 | (21,000) | (19,875) | |
| % of Revenue | 0 | 0 | 0 | 0 | 0 | |
| Total Expenditures | 1,127,465 | 942,977 | 1,090,116 | 1,372,374 | 1,367,477 | (4,897) |
| Increase/decrease | (38,528) | (184,488) | 147,139 | 282,258 | 277,361 | |
| % of Revenue | 95% | 122% | 98% | 98% | 97% | |
| NET INCOME | 61,197 | (166,928) | 20,506 | 30,594 | 46,791 | 16,197 |
| Increase/decrease | 74,197 | (228,125) | 187,434 | 10,088 | 26,286 | |
| % of Revenue | 5% | -22% | 2% | 2% | 3% | |
| Fund Balance Beginning of Year | 501,313 | 562,510 | 395,582 | 462,879 | 416,088 | |
| Fund Balance End of Year | 562,510 | 395,582 | 416,088 | 493,473 | 462,879 | |

2023 Financial Estimate and 2024 Proposed Budget

During the budgeting process for the upcoming year, management prepares an estimate and forecast for the current budget cycle to assist with preparing the upcoming year's budget. Current actual financial results are used and combined with expected upcoming market conditions, unexpected expenses, or other factors that may have changed since the original budget was approved and adopted one year earlier. At the time that the 2023 budget was prepared the construction of the outdoor rink at Hasse was uncertain due to new cost estimates and other concerns. The current adopted budget was prepared without construction and additional revenue expansion goals planned for Hasse to stay open year-round for new internal programming such as tournaments.

There are currently several significant situations that have occurred since the 2023 budget was developed, which have a significant impact to the current 2023 budget. The first is the substantial increase in revenue and expenses in 2022 that have an impact on multiple revenue and expense lines, second is the impact that the construction of the outdoor rink, and third is the addition of a debt service payment using savings from the Apex Energy Improvements Project to be paid towards the bond payments for the project. The payment was not included in the 2023 budget because the amount of savings and payment was not yet known. Management is proposing that the following 2023 financial estimate and details be used to amend the 2023 budget to address these impacts on the original 2023 budget. The Lakeville Arenas Board has full authority over the financial affairs of the Organization. The Board adopts an annual budget for the Organization. During the budget year, supplemental appropriations and deletions may be authorized by the Organization. The amounts shown in the financial statements as 'adopted Budget' represent the original budgeted amounts. Any changes in the budget must be approved by a majority vote of the Board.

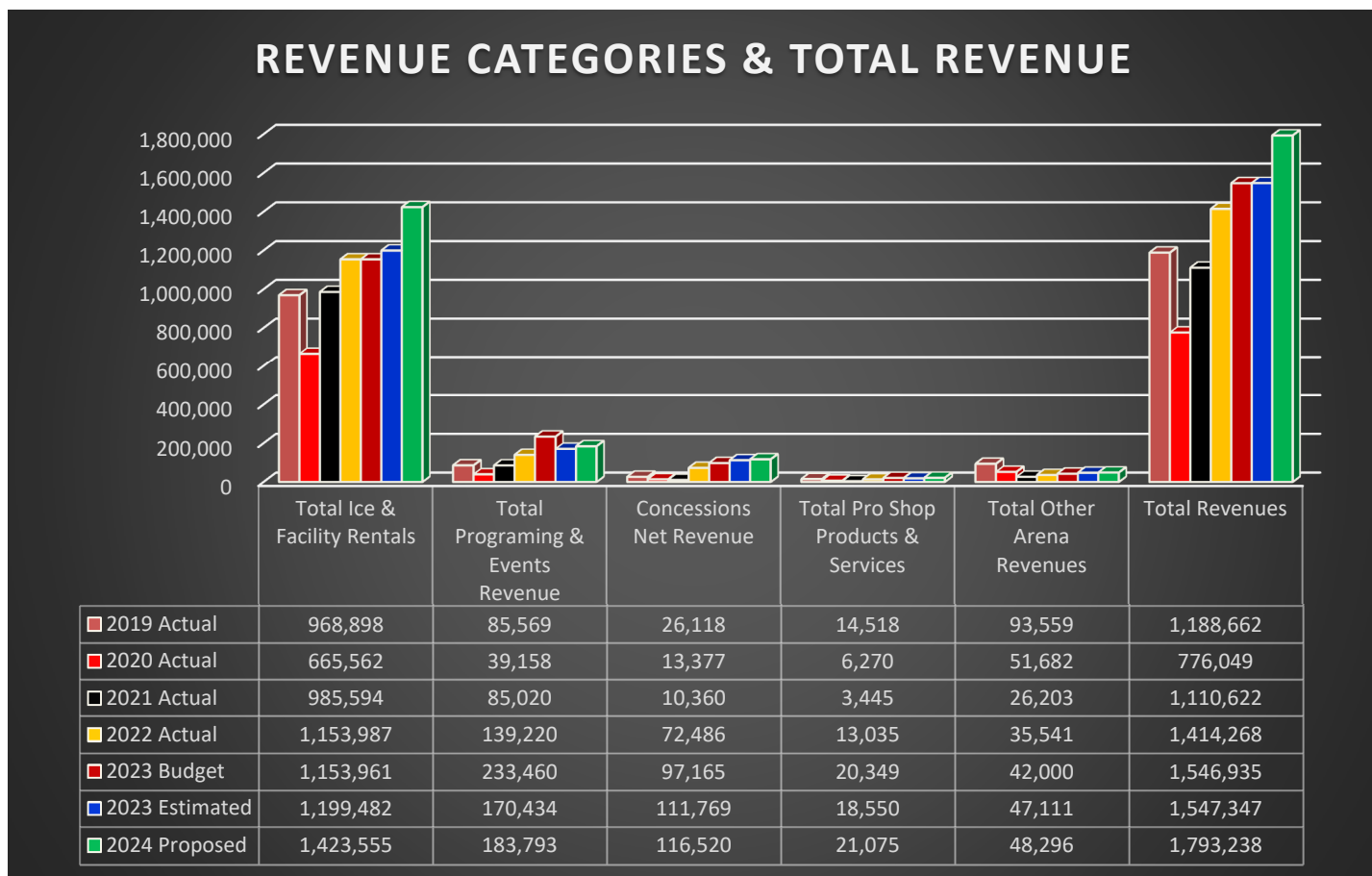
The 2024 budget has significant increases in rental revenues primarily from the addition of the new covered outdoor pavilion rink that is scheduled to open in 2024 and from having Hasse open year-round for ice rentals starting in 2024. The new revenue has been budgeted conservatively because there is no historical history or trends. The new internal programming revenue originally planned in 2023 for tournaments but delayed because of construction will be planned for 2024, but they are not included in the 2024 budget because of the unpredictability of their success at this time. They will be included in next year's budget estimate when the registrations will be known, and the actual revenues and expenses can be better forecasted.

2024 budget expenses are expected to increase comparatively to revenue and have been budgeted using historical actual expenses, percent of revenue trends, and actual forecasted expenses. Additional expenses from the new outdoor sheet and year-round operation of Hasse have been budgeted forecasted and added to the budget as well. The full-time driver staffing model to address increased year-round operations at Hasse Arena, additional programming expansion, as well as staffing shortages for part time drivers that was put on hold this past year because of construction will be implemented this fall and in all of 2024. The new staffing model will have 6 FTE positions. Current positions planned include 1 General Manager, 1 Operations Manager, 2 Supervisor/Drivers, and 2 Driver-Lead worker positions.

Also included in this report is the proposed capital reserve fund budget. The capital reserve fund is used to provide a financial framework for replacement of the arena infrastructure as it ages. Before construction was approved for the new outdoor rink at Hasse, the aging dasher board system inside was planned to be replaced in 2023 using capital reserve funds. However, after construction of the new rink was approved the need for an additional Zamboni was a priority and placed in front of the dasher board system for capital reserve funds. Due to this, management asked Becker Arenas Systems to perform an inspection of the indoor dasher system and prepare a quote for repairing the deficiencies so that the boards could be used safely for another couple years. As we expected the quote report pointed out many of the same deficiencies that we were aware of as well as many others and the quote to make the boards usable and safe is \$57,694. Recently when we placed our order for the new Zamboni, we were informed that manufacturing and delivery was out approximately a year and a half or longer, which puts delivery at the end of 2024 or early 2025. Management is recommending that the new dasher board system for the inside rink at Hasse be moved ahead of the Zamboni and be purchased and installed this summer while the ice is already out for construction. This will not only save the \$58k in repairs it will save the additional costs to remove the ice again and the loss of revenue while doing so. The 2023 capital reserve fund budget will need to be amended to add the new dasher system this summer. There are currently no other capital projects budgeted in 2023. The new Zamboni will be tentatively budgeted for in 2025, but if it arrives late in 2024, we will amend the reserve fund budget at that time to include it.

The following is a detailed summary of the actual results so far this year combined with the expected changes and impacts from the above-mentioned items affecting the 2023 and 2024 budgets.

2023 ESTIMATED & 2024 BUDGET REVENUE



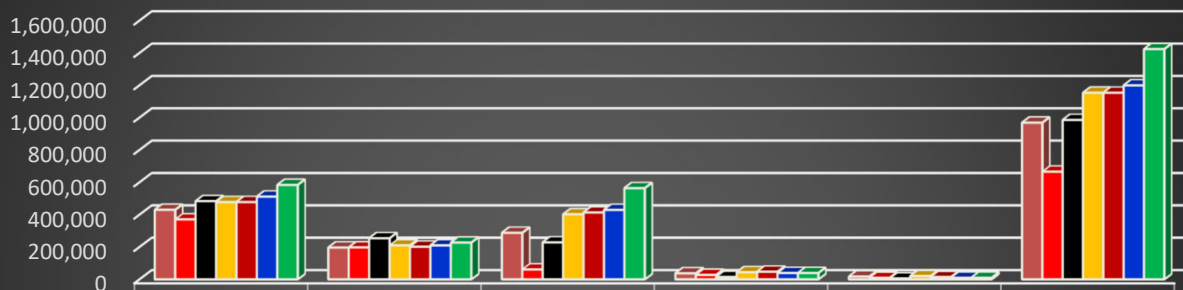
Total Ice & Facility Revenues: Ice and facility rentals are the core business and revenue streams for Lakeville Arenas and equal 80% of all revenues. 2023 ice rentals are estimated to exceed the budget even though having Hasse open year-round was pushed back to 2024 due to construction. Some of the reasons include the expanded availability with before school ice sales, improved scheduling and ice sales, growth within LHA with a need for more ice, and rate increases. Ice sales in 2024 will see the largest revenue increase with the opening of a new outdoor rink at Hasse Arena and the indoor rink going from 5 months of operations and sales to 12 months.

Programming & Events Revenue: Estimated 2023 programming and events revenue will be down substantially due to our expansion of hosting off-season tournaments being pushed back due to construction at Hasse Arena. There is significant growth in public admissions in 2023 and budgeted in 2024 also. Additional details for these areas are below in this report.

Welcome Center Operations Revenue: Our new Welcome Center operations which merged our concessions, pro shop, and front desk operations into one location and operation is one of our revenue expansion goals that launched in 2022. This area continues to exceed expectations and budgets. More details on both the concessions and pro shop budgets are below.

Total Other Revenues: Most of the revenue in this category is advertising sales, which is currently exceeding budgets and expectations. We are planning new advertising opportunities for 2023 and 2024 as most of our current ones are currently sold out. Other uncommon streams in this category are large donations or grants, which are represented within the 2019 & 2020 results.

ICE RENTAL REVENUE



| | Ice Rental - LHA | Ice Rental - ISD 194 | Ice Rental Other | ISD 194 HS Game Gate Share | Dry floor Rentals | Total Ice & Facility Rentals |
|----------------|------------------|----------------------|------------------|----------------------------|-------------------|------------------------------|
| 2019 Actual | 429,757 | 196,751 | 287,498 | 37,339 | 17,553 | 968,898 |
| 2021 Actual | 370,475 | 197,062 | 61,172 | 27,608 | 9,245 | 665,562 |
| 2021 Actual | 483,260 | 254,064 | 228,408 | 14,749 | 5,113 | 985,594 |
| 2022 Actual | 477,840 | 210,124 | 402,052 | 43,950 | 20,021 | 1,153,987 |
| 2023 Budget | 477,919 | 201,712 | 413,082 | 47,148 | 14,100 | 1,153,961 |
| 2023 Estimated | 511,550 | 209,778 | 429,295 | 39,110 | 9,749 | 1,199,482 |
| 2024 Proposed | 583,853 | 226,919 | 563,911 | 39,110 | 9,762 | 1,423,555 |

2023 estimated ice & facility rentals include actual January through March 2023 results, current reservations booked and confirmed April through August, and forecasted rentals for September through December based on 2022 actual rentals. 2024 revenues are based on the current 2023 estimate and 2022 actual results.

Ice rental revenues beginning in October of 2023 include a recommended annual ice rental rate increase of \$10 per hour or 4%. Our prime rate for the upcoming winter season will increase from \$250 to \$260 per hour and the prime summer rate in 2024 will increase from \$180 per hour to \$190 per hour. Additional non-prime rate details are included later in this budget report.

The ice rental rate increases will help with increased expenses such as annual cost of living increases for employees, the new full time staffing model being implemented in 2023 & 2024, new debt commitment payments for the \$7.9 million apex energy improvements project, and overall inflationary expenses to our energy costs and other expenses.

This rate increase for our prime winter rate will keep our rates the same as our closest competitor, who is Farmington. Burnsville's rates and other nearby competitors are expected to be between \$250 and \$260 per hour based on recent surveys. Lakeville Arenas has historically had one of the higher ice rental rates due to our ownership entity as a joint powers agreement, which requires us to pay for all operating expenses with the revenues taken in. In addition, our local primary users receive other benefits with their ice rentals that are usually charged for by arenas such as free conference room rentals, free lease space for areas like training facilities, dedicated year-round locker rooms, and storage space.

LHA Ice Rentals: 2023 rentals are estimated to be slightly higher, which reflects the before mentioned combination of schedules and ice rate increases. Increased estimates also include the recent growth and teams added for the 2022-2023 season. 2024 includes additional rentals from the outdoor pavilion rink as well as annual rate increases.

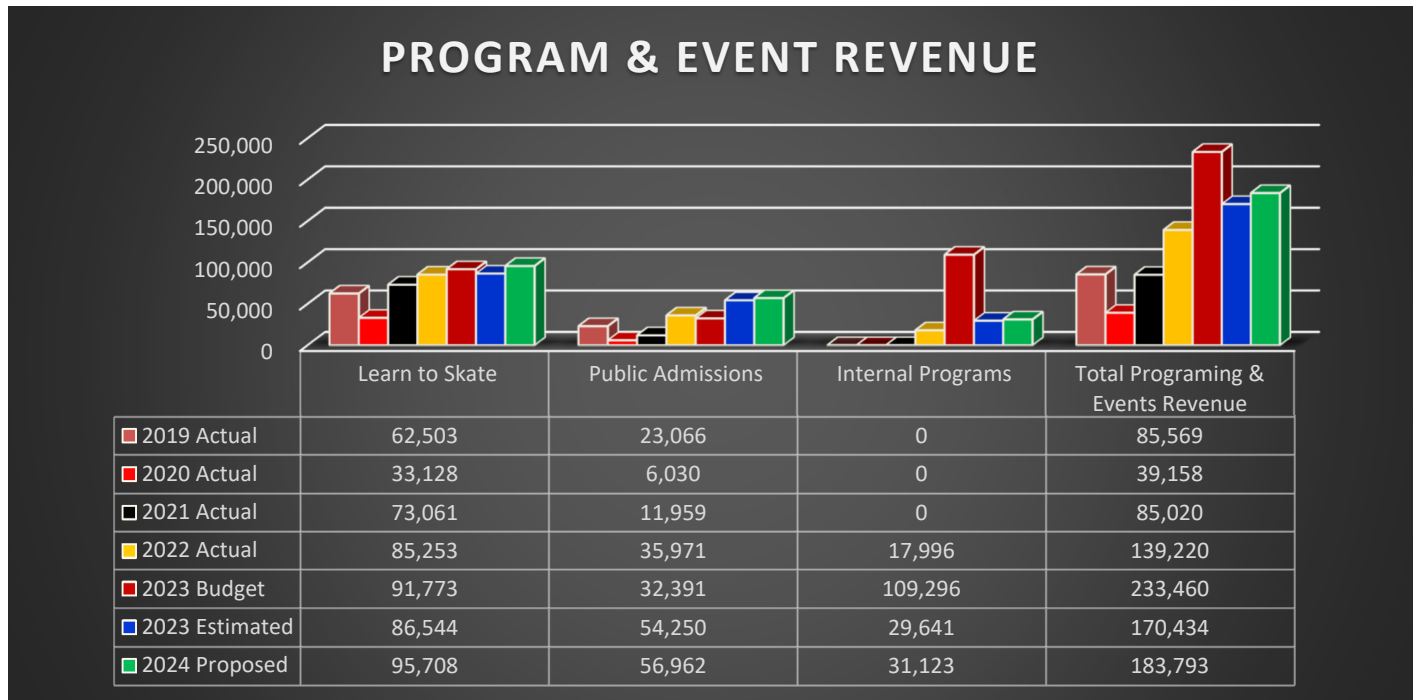
ISD 194 Ice Rentals: Overall sales for 2023 are expected to remain consistent and primarily reflect annual rate increases. 2024 revenue includes rate increases and a holiday tournament being added by the South Girls Program.

Ice Rentals Other: Other ice rentals in 2023 reflect increased hours from before school rentals and rate increase this fall. 2024 includes new rentals from the new outdoor sheet as well as new sales from Hasse remaining open year-round, which adds an additional 5 months of ice sales. Sales for the new additional months are budgeted conservatively at 50% of what

we currently sell at one of the sheets at Ames during those additional months, but the expectations are that we will most likely exceed this amount.

Gate Share Revenue: Gate share revenues in 2023 are reduced due to online ticket sales fees as well as some reduction in attendance which spiked in 2021 following covid.

Dry-Floor Rentals: The 2023 estimate is actual scheduled events taking place this spring. We do anticipate a substantial increase from added programming on the new outdoor pavilion rink in 2024 but have not yet determined the programming that will take place yet. Activities and events being considered are roller hockey, pickleball, possible turf events, concerts, festivals and other community rentals and events. Those revenues will be added to the 2024 estimate next year.



Total estimated programs and events revenue will be down significantly from budget due to the construction at Hasse Arena. Originally when the 2023 budget was planned the Hasse expansion had not yet been finalized or considered in the 2023 budget. The original budget called for Hasse being open year-round and tournaments being added to our internal programs. We are tentatively planning to add tournaments in 2024 but have chosen to not add them at this time and wait until the 2024 estimate when we have a better idea of their success due to registrations.

Learn to Skate: Over the past several years Learn to skate has seen significant growth in participants and revenue. We have been consistently in the top five for programs in Minnesota. Estimated revenue will be down slightly due to shorter sessions this spring because of available calendar dates and availability of instructors. We will be instituting a \$.50-cent increase per session for the 2024 budget and credit card processing fees will now be paid by the participants when they register starting with 2023 summer registrations.

Public Admissions: Public Admissions (Open Skate & Hockey) have seen a substantial increase this past year since introducing a new club program and adding before and school open stick and puck ice. 2023 estimated is based on our current actual trends. We are budgeting 2024 the same as 2023, but we expect our ice club memberships to grow, which affects our public walk-in sales.

Internal Programs: Estimated internal programs have been reduced significantly due to our new tournament business plans getting pushed back due to construction. As mentioned earlier we are waiting to add tournament revenue during the 2024 estimated budget next year.

Learn to Skate Detail**2024 Budget**

| Session | Kids | Rate | Sessions | Gross | Staff | Gross Profit | Ice Hrs | Ice Cost | Net Profit |
|----------------------|------------|------|----------|-----------------|-----------------|-----------------|------------|-----------------|----------------|
| Winter - Dec Revenue | 295 | 12.5 | 8 | \$29,500 | \$11,941 | \$17,559 | 56 | \$14,560 | \$2,999 |
| Spring - Mar Revenue | 302 | 12.5 | 8 | \$30,200 | \$8,991 | \$21,209 | 56 | \$10,640 | \$10,569 |
| Summer - Jun Revenue | 150 | 12.5 | 8 | \$15,000 | \$7,361 | \$7,639 | 24 | \$4,560 | \$3,079 |
| Fall - Sep Revenue | 210 | 12.5 | 8 | \$21,000 | \$13,199 | \$7,801 | 56 | \$14,840 | (\$7,039) |
| Total | 957 | | | \$95,700 | \$41,491 | \$54,209 | 192 | \$44,600 | \$9,609 |

2023 Estimated

| Session | Kids | Rate | Sessions | Gross | Staff | Gross Profit | Ice Hrs | Ice Cost | Net Profit |
|----------------------|------------|------|----------|-----------------|-----------------|-----------------|------------|-----------------|----------------|
| Winter - Dec Revenue | 295 | 12 | 8 | \$28,320 | \$11,593 | \$16,727 | 56 | \$14,000 | \$2,727 |
| Spring - Mar Revenue | 302 | 12 | 6.5 | \$23,556 | \$8,729 | \$14,827 | 56 | \$10,080 | \$4,747 |
| Summer - Jun Revenue | 150 | 12 | 8 | \$14,400 | \$7,146 | \$7,254 | 24 | \$4,320 | \$2,934 |
| Fall - Sep Revenue | 210 | 12 | 8 | \$20,160 | \$12,814 | \$7,346 | 56 | \$14,560 | (\$7,214) |
| Total | 957 | | | \$86,436 | \$40,283 | \$46,153 | 192 | \$42,960 | \$3,194 |

2022 Actual

| Session | Kids | Rate | Sessions | Gross | Staff | Gross Profit | Ice Hrs | Ice Cost | Net Profit |
|--------------|------------|------|----------|-----------------|-----------------|-----------------|------------|-----------------|----------------|
| Winter | 275 | 12 | 8 | \$26,400 | \$12,925 | \$13,475 | 56 | \$13,720 | (\$245) |
| Spring | 273 | 12 | 8 | \$26,208 | \$8,475 | \$17,733 | 56 | \$9,800 | \$7,933 |
| Summer | 144 | 12 | 8 | \$13,824 | \$6,938 | \$6,886 | 24 | \$4,200 | \$2,686 |
| Fall | 207 | 12 | 8 | \$19,872 | \$12,441 | \$7,431 | 56 | \$14,000 | (\$6,569) |
| Total | 899 | | | \$86,304 | \$40,779 | \$45,525 | 192 | \$41,720 | \$3,805 |

2021 Actual

| Session | Kids | Rate | Sessions | Gross -P&R | Staff | Net | Ice Hrs | Ice Cost | Net Profit |
|--------------|------------|-------|----------|-----------------|-----------------|-----------------|------------|-----------------|------------------|
| Winter | 185 | 11.38 | 8 | \$16,835 | \$6,253 | \$10,582 | 56 | \$13,720 | (\$3,138) |
| Spring | 195 | 11.38 | 8 | \$17,745 | \$5,434 | \$12,311 | 56 | \$9,800 | \$2,511 |
| Summer | 108 | 11.38 | 8 | \$9,828 | \$5,093 | \$4,735 | 24 | \$4,200 | \$535 |
| Fall | 235 | 11.38 | 8 | \$21,385 | \$15,774 | \$5,611 | 56 | \$14,000 | (\$8,389) |
| Total | 723 | | | \$65,793 | \$32,554 | \$33,239 | 192 | \$41,720 | (\$8,481) |

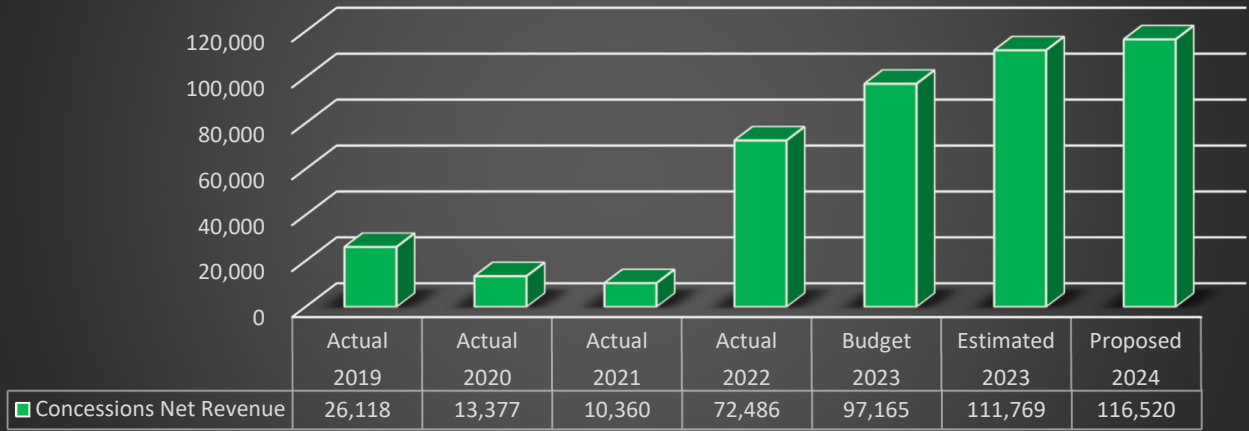
2020 Actual

| Session | Kids | Rate | Sessions | Gross -P&R | Staff | Net | Ice Hrs | Ice Cost | Net Profit |
|--------------|------------|-------|----------|-----------------|-----------------|-----------------|-----------|-----------------|------------------|
| Winter | 318 | 11.12 | 8 | \$22,642 | \$8,494 | \$14,148 | 56 | \$13,160 | \$988 |
| Spring | 0 | 11.12 | 8 | \$0 | \$0 | \$0 | 0 | \$0 | \$0 |
| Summer | 38 | 11.12 | 8 | \$2,706 | \$2,887 | (\$181) | 24 | \$4,080 | (\$4,261) |
| Fall | 0 | 11.12 | 8 | \$0 | \$0 | \$0 | 0 | \$0 | \$0 |
| Total | 356 | | | \$25,347 | \$11,381 | \$13,967 | 80 | \$17,240 | (\$3,273) |

2019 Actual

| Session | Kids | Rate | Sessions | Gross -P&R | Staff | Net | Ice Hrs | Ice Cost | Net Profit |
|--------------|------------|-------|----------|-----------------|-----------------|-----------------|------------|-----------------|------------------|
| Winter | 292 | 11.12 | 8 | \$20,790 | \$5,952 | \$14,838 | 56 | \$12,880 | \$1,958 |
| Spring | 232 | 11.12 | 8 | \$16,518 | \$6,235 | \$10,283 | 56 | \$9,240 | \$1,043 |
| Summer | 84 | 11.12 | 8 | \$5,981 | \$4,255 | \$1,726 | 24 | \$3,960 | (\$2,234) |
| Fall | 213 | 11.12 | 8 | \$15,166 | \$9,210 | \$5,956 | 56 | \$13,160 | (\$7,204) |
| Total | 821 | | | \$58,455 | \$25,652 | \$32,803 | 192 | \$39,240 | (\$6,436) |

CONCESSIONS REVENUE



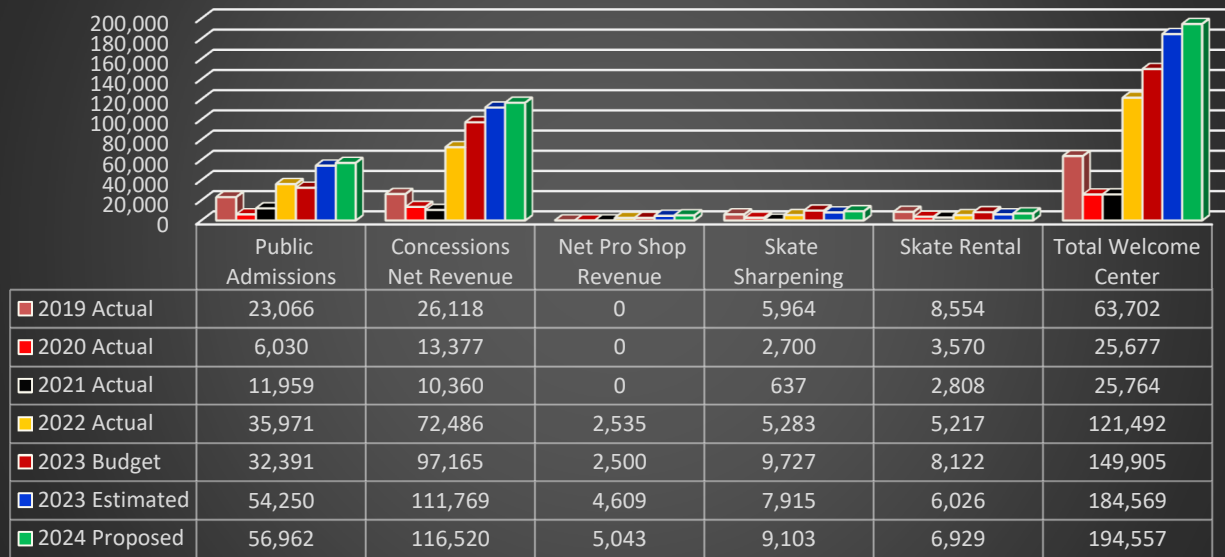
Concessions expansion at Ames & Hasse will continue with renovations and product expansion designed to further increase revenue and profits. 2023 estimated will exceed budget and is based on current actual results and trends. 2024 is budgeted conservatively at a 15% increase in net revenue but should exceed those expectations with the new outdoor rink and expanded indoor season at Hasse Arena. Net revenue = sales less cost of goods, it does not include labor.

PRO SHOP REVENUE



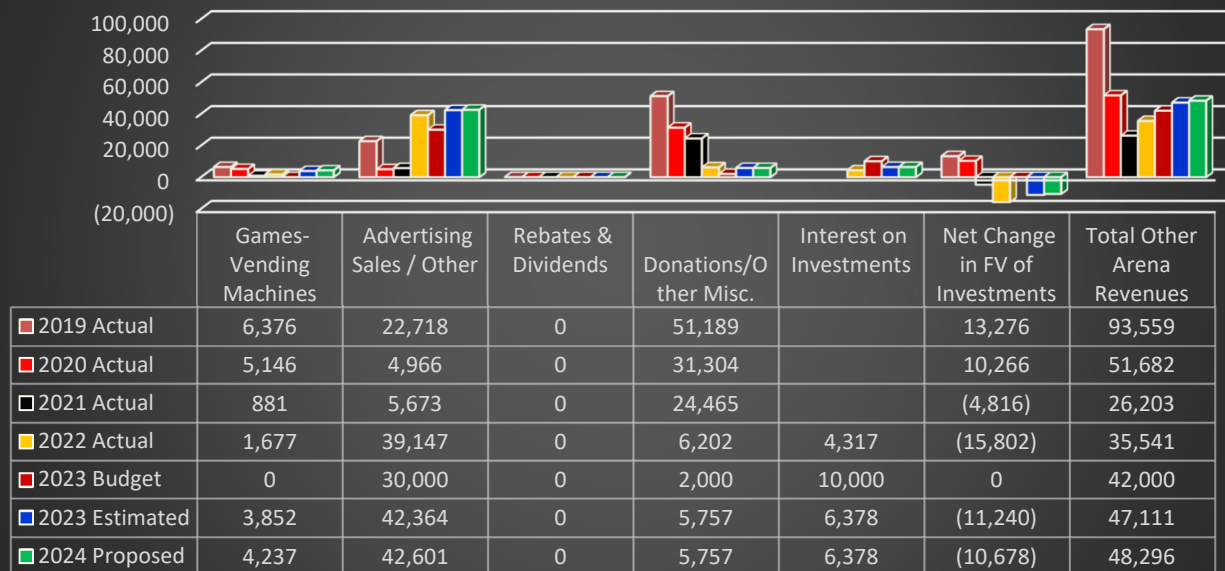
Pro Shop Operations in 2023 were below expectations for various reasons, but ultimately concessions took off much stronger and faster than expected even though there was a lack of time and focus to expand this area of our welcome center operations. Therefore, the estimated revenue is expected to be below budget. 2024 revenue is budgeted with a 15% increase over 2023 estimated revenue.

COMBINED WELCOME CENTER REVENUES



Prior to 2021, the pro-shop and concessions were operated from separate locations at each of the arenas. In 2021 we centralized both operations in one location to reduce the amount of part time employees needed to operate and keep those employees busy and productive. In 2022, we started expanding these areas with new hours, equipment, products, and services, and setting new aggressive revenue goals. In 2022, we nearly doubled the revenue from the all-time high of 63k set in 2019. 2023 Estimated revenues are expected to exceed budget by approximately 35,000 for a high of \$184,000. 2024 is being budgeted conservatively at \$195,000 and will be adjusted in the 2024 estimate when we have a better idea of what the actual increase will be from improvements to these areas and the expanded outdoor rink and seasons at Hasse Arena. The goal of the new welcome center was and is to generate enough revenue and profits to cover the cost of all part-time employees and cleaning services necessary to provide the highest level of customer service, cleanliness, products, amenities, and services for our customers.

OTHER MISCELLANEOUS REVENUES

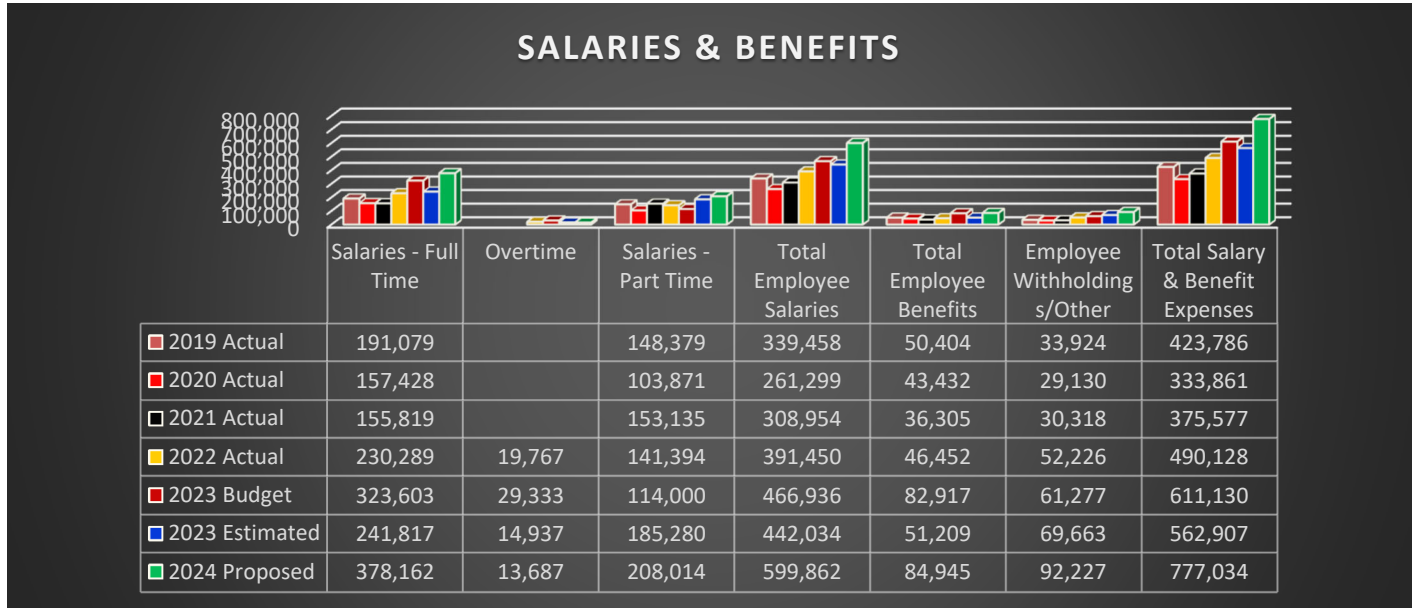


Our new advertising program has been very successful and well received by advertisers. We now donate 15% of the revenue in the advertiser's name to our local anchor customers, who include LHA, Heritage Figure Skating, and the booster clubs for both the north and south boys & girls high school hockey teams. We are budgeting conservatively in 2024 as we do expect some turnover to begin as most of the current leases that were sold after covid and will be ending in 2024. Advertising rates will also be increasing.

REVENUE DETAIL

| | 2019 | 2020 | 2021 | 2022 | 2022 | 2022 | 2023 | 2023 |
|---|------------------|----------------|------------------|------------------|------------------|-----------------|------------------|------------------|
| | Actual | Actual | Actual | Amended Budget | Actual | Budget Variance | Budget | Estimated |
| Ice & Facility Rentals | | | | | | | | |
| Ice Rental - LHA | 429,757 | 370,475 | 483,260 | 539,960 | 477,840 | (62,120) | 477,919 | 511,550 |
| Ice Rental - ISD 194 | 196,751 | 197,062 | 254,064 | 220,392 | 210,124 | (10,268) | 201,712 | 209,778 |
| Ice Rental Other | 287,498 | 61,172 | 228,408 | 341,606 | 402,052 | 60,446 | 413,082 | 429,295 |
| ISD 194 HS Game Gate Share | 37,339 | 27,608 | 14,749 | 46,193 | 43,950 | (2,243) | 47,148 | 39,110 |
| Dry floor Rentals | 17,553 | 9,245 | 5,113 | 19,378 | 20,021 | 643 | 14,100 | 9,749 |
| Total Ice & Facility Rentals | 968,898 | 665,562 | 985,594 | 1,167,529 | 1,153,987 | (13,542) | 1,153,961 | 1,199,482 |
| Increase/decrease | (25,682) | (303,336) | 320,032 | 181,935 | 168,393 | | (26) | 45,521 |
| Programing & Events Revenue | | | | | | | | |
| Learn to Skate | 62,503 | 33,128 | 73,061 | 79,507 | 85,253 | 5,746 | 91,773 | 86,544 |
| Public Admissions | 23,066 | 6,030 | 11,959 | 39,922 | 35,971 | (3,952) | 32,391 | 54,250 |
| Internal Programs | - | - | - | - | 17,996 | 17,996 | 109,296 | 29,641 |
| Total Programs & Events Revenue | 85,569 | 39,158 | 85,020 | 119,429 | 139,220 | 19,791 | 233,460 | 170,434 |
| Increase/decrease | 9,474 | (46,411) | 45,862 | 34,409 | 54,200 | | 94,240 | (63,026) |
| Concessions Sales | | | | | | | | |
| Gross Food & Beverage Sales | 26,118 | 13,377 | 10,360 | 80,282 | 72,486 | (7,796) | 97,165 | 146,669 |
| (Cost of Goods Sold) | - | - | - | - | - | - | - | (34,900) |
| Concessions Net Revenue | 26,118 | 13,377 | 10,360 | 80,282 | 72,486 | (7,796) | 97,165 | 111,769 |
| Increase/decrease | 984 | (12,741) | (3,017) | 69,922 | 62,126 | | 24,679 | 14,604 |
| Pro Shop Products & Services | | | | | | | | |
| Gross Pro Shop Product Sales | - | - | - | 936 | 2,535 | 1,599 | 2,500 | 7,884 |
| Pro Shop Cost of Goods Sold | - | - | - | - | - | - | - | (3,275) |
| Net Pro Shop Revenue | - | - | - | 936 | 2,535 | 1,599 | 2,500 | 4,609 |
| Skate Sharpening | 5,964 | 2,700 | 637 | 5,477 | 5,283 | (194) | 9,727 | 7,915 |
| Skate Rental | 8,554 | 3,570 | 2,808 | 5,333 | 5,217 | (116) | 8,122 | 6,026 |
| Total Pro Shop Products & Services | 14,518 | 6,270 | 3,445 | 11,746 | 13,035 | 1,289 | 20,349 | 18,550 |
| Increase/decrease | (29) | (8,248) | (2,825) | 8,301 | 9,590 | | 7,314 | (1,799) |
| Other Misc. Arena Revenues | | | | | | | | |
| Games-Vending Machines | 6,376 | 5,146 | 881 | 1,122 | 1,677 | 555 | - | 3,852 |
| Advertising Sales / Other | 22,718 | 4,966 | 5,673 | 30,708 | 39,147 | 8,439 | 30,000 | 42,364 |
| Donations/Other Misc. | 51,189 | 31,304 | 24,465 | 7,962 | 6,202 | (1,760) | 2,000 | 5,757 |
| Interest on Investments | - | - | - | 3,917 | 4,317 | 400 | 10,000 | 6,378 |
| Net Change in FV of Investments | 13,276 | 10,266 | (4,816) | (19,727) | (15,802) | 3,925 | - | (11,240) |
| Cash Over/(Short) | - | - | - | - | - | - | - | - |
| Total Other Arena Revenues | 93,559 | 51,682 | 26,203 | 23,982 | 35,541 | 11,559 | 42,000 | 47,111 |
| Increase/decrease | 50,922 | (41,877) | (25,479) | (2,221) | 9,338 | | 6,459 | 5,111 |
| Total Revenues | 1,188,662 | 776,049 | 1,110,622 | 1,402,968 | 1,414,268 | 11,300 | 1,546,935 | 1,547,347 |
| Increase/decrease | 35,669 | (412,613) | 334,573 | 292,346 | 303,646 | | 132,667 | 412 |

2023 ESTIMATED & 2024 BUDGET EXPENDITURES

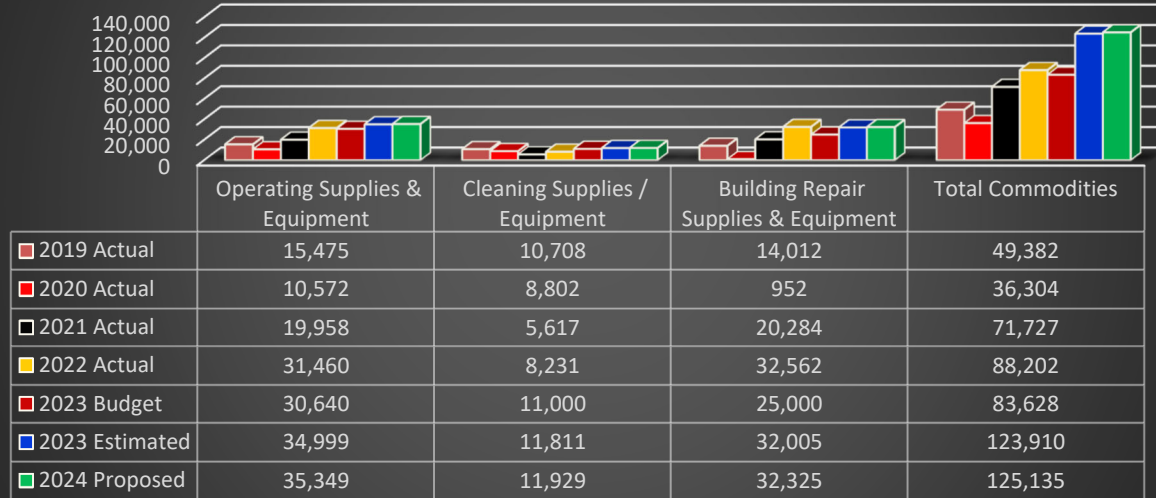


After the pandemic, the labor shortage that occurred and continues today has affected Lakeville Arenas significantly. Hiring for part time driver positions has been especially difficult and continues today, even after the 2021 increases made to the salary plans to be more competitive in the marketplace. One of the reasons for the now successful revenue expansion goals started in 2022 and moving forward is to provide year-round workloads so that we can transition from seasonal temporary supervisors and drivers to full-time. This will help us resolve our labor shortage for drivers but more importantly provide a much more consistent, experienced, and knowledgeable workforce that can better maintain our facilities and equipment, as well as meet our customer's needs.

In 2022, we transitioned to full-time driver supervisors but held off on the driver-lead worker positions because of the upcoming construction. Those positions will now be added at the end of 2023, which will result in the 2023 estimated labor being approximately \$50,000 below the 2023 budget. The 2024 budget has 6 FTEs, which will begin to operate both Ames and Hasse year-round in 2024. The 6 positions will include a General Manager, an Operations Manager, 2 Supervisor-Drivers, and 2 Driver-Lead Operations workers.

| SALARIES AND BENEFIT DETAIL | 2019 Actual | 2020 Actual | 2021 Actual | 2022 Actual | 2023 Budget | 2023 Estimated | 2024 Proposed |
|---|----------------|----------------|----------------|----------------|----------------|-------------------|------------------|
| Employee Salary Expenses | | | | | | | |
| Salaries - Full Time | 191,079 | 157,428 | 155,819 | 230,289 | 323,603 | 241,817 | 378,162 |
| Overtime | - | - | - | 19,767 | 29,333 | 14,937 | 13,687 |
| Salaries - Part Time | 148,379 | 103,871 | 153,135 | 141,394 | 114,000 | 185,280 | 208,014 |
| Total Employee Salaries | 339,458 | 261,299 | 308,954 | 391,450 | 466,936 | 442,034 | 599,862 |
| Employee Benefit Expenses | | | | | | | |
| PERA | 14,348 | 18,205 | 17,635 | 23,986 | 24,263 | 20,756 | 29,757 |
| Hospitalization | 33,718 | 23,368 | 16,874 | 20,484 | 53,790 | 26,531 | 47,220 |
| Life and Disability | 99 | 96 | 151 | 138 | 896 | 267 | 528 |
| Long Term Disability | 383 | 324 | 300 | 457 | 788 | 912 | 1,824 |
| Dental Insurance | 1,856 | 1,439 | 1,345 | 1,294 | 3,180 | 2,515 | 5,136 |
| FSA | - | - | - | 93 | - | 228 | 480 |
| Total Employee Benefits | 50,404 | 43,432 | 36,305 | 46,452 | 82,917 | 51,209 | 84,945 |
| Employee Withholdings-Other Expenses | | | | | | | |
| FICA | 25,162 | 19,509 | 23,625 | 29,912 | 33,469 | 34,708 | 46,198 |
| Workers Compensation | 8,762 | 9,380 | 6,693 | 11,846 | - | 10,468 | 10,468 |
| Unemployment Compensation | - | 241 | - | 10,468 | 13,944 | 13,905 | 17,444 |
| Payroll Contingency | - | - | - | - | 13,864 | 10,582 | 18,117 |
| Employee Withholdings/Other | 33,924 | 29,130 | 30,318 | 52,226 | 61,277 | 69,663 | 92,227 |
| Total Salary & Benefit Expenses | 423,786 | 333,861 | 375,577 | 490,128 | 611,130 | 562,907 | 777,034 |
| Increase/decrease | 7,453 | (89,925) | 41,716 | 114,551 | 121,002 | (48,223) | 214,127 |

COMMODITIES



Commodities represent supplies and equipment that are necessary to operate as well as supplies for repair and maintenance that is performed by Arenas Staff. There are 3 major categories, the first is operating supplies & equipment, which include rink supplies such as ice paint and nets, learn to skate supplies for classes and instructors, concessions and pro shop equipment and repair supplies, and general supplies for programming and events. Cleaning supplies is the second major category, and third is building repair supplies & equipment.

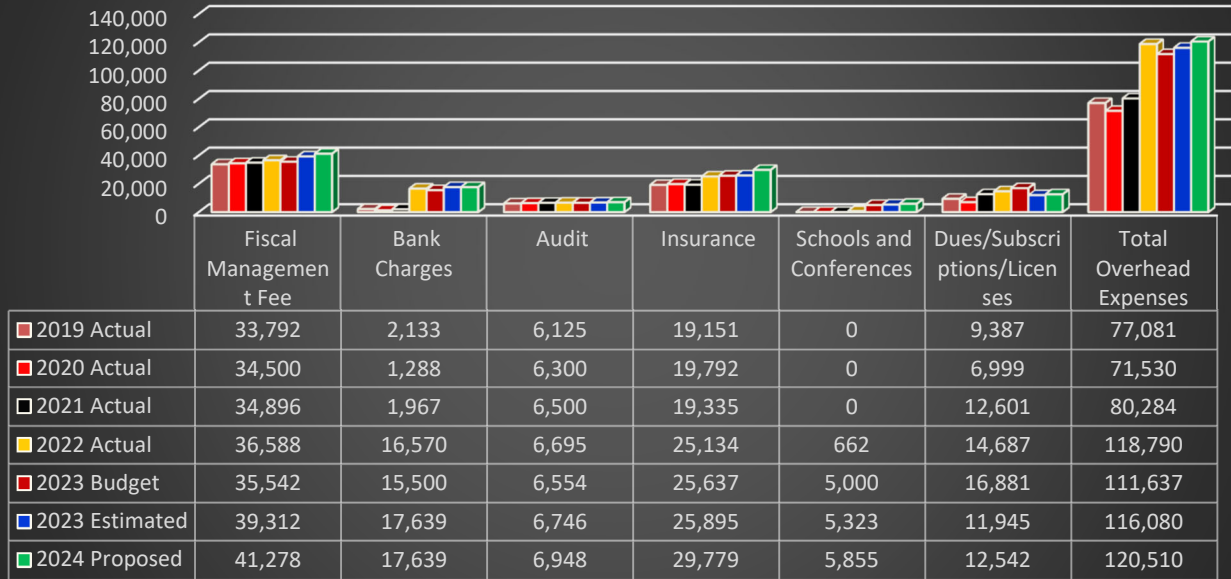
Another benefit to our expanded revenue goals and successful growth has been the ability to repair, update, and replace aging equipment and building components without the need for additional capital or paying higher contractor prices. Starting in 2021 when the increased revenues began, we have been able to make many improvements throughout the facilities ourselves that have benefited our customers as well as helped us increase our revenues even further.

In 2023, we will be making renovations and adding equipment to both the Ames and Hasse concessions, which will help increase revenue even further. We are installing new waterhog carpeting in the entrances at both Ames and Hasse which will eliminate the old unsanitary slotted floors and will better prevent corrosive slat from getting into the buildings and on our rubber floors. We have paint and building supplies included to rebrand Hasse in south colors like we did Ames in north colors during the 2021 renovations. In 2024 we have budgeted for similar projects.

COMMODITIES DETAIL

| | 2019 Actual | 2020 Actual | 2021 Actual | 2022 Actual | 2023 Budget | 2023 Estimated | 2024 Proposed |
|---|----------------|----------------|----------------|----------------|----------------|-------------------|------------------|
| COMMODITIES | | | | | | | |
| Office Supplies / Equipment | 3,005 | 3,419 | 3,716 | 3,731 | 1,000 | 3,839 | 3,877 |
| Operating Supplies & Equipment | 15,475 | 10,572 | 19,958 | 31,460 | 30,640 | 34,999 | 35,349 |
| Motor Fuels | 565 | 223 | 463 | 872 | 1,500 | 1,291 | 1,304 |
| Cleaning Supplies / Equipment | 10,708 | 8,802 | 5,617 | 8,231 | 11,000 | 11,811 | 11,929 |
| Clothing | 2,473 | - | 4,851 | 36 | 2,500 | 2,500 | 2,525 |
| Chemicals (Condensing Towers) | - | - | - | - | - | 6,000 | 6,060 |
| Safety Supplies & Equipment | - | 11,495 | 1,973 | 1,356 | 788 | 1,379 | 1,379 |
| Equipment Parts & Supplies | 2,688 | 541 | 2,549 | 758 | 3,700 | 1,200 | 1,212 |
| Tires | - | - | - | - | - | - | - |
| Building Repair Supplies & Equipment | 14,012 | 952 | 20,284 | 32,562 | 25,000 | 32,005 | 32,325 |
| Parking Lot Maintenance Supplies | - | - | - | - | - | - | - |
| Landscaping Materials & Equipment | - | - | - | - | - | 7,000 | 7,070 |
| Signs (Advertising Sales Sign Expenses) | - | - | - | - | - | 6,000 | 6,060 |
| Small Tools/Equipment | 305 | 260 | 5,432 | 4,957 | 2,500 | 11,500 | 11,615 |
| Computer Supplies | 151 | 40 | 6,884 | 4,239 | 5,000 | 4,386 | 4,430 |
| Total Commodities | 49,382 | 36,304 | 71,727 | 88,202 | 83,628 | 123,910 | 125,135 |
| Increase/decrease | (1,186) | (13,078) | 35,422 | 16,475 | (4,574) | 40,282 | 1,225 |

ADMINISTRATION & OVERHEAD EXPENSES

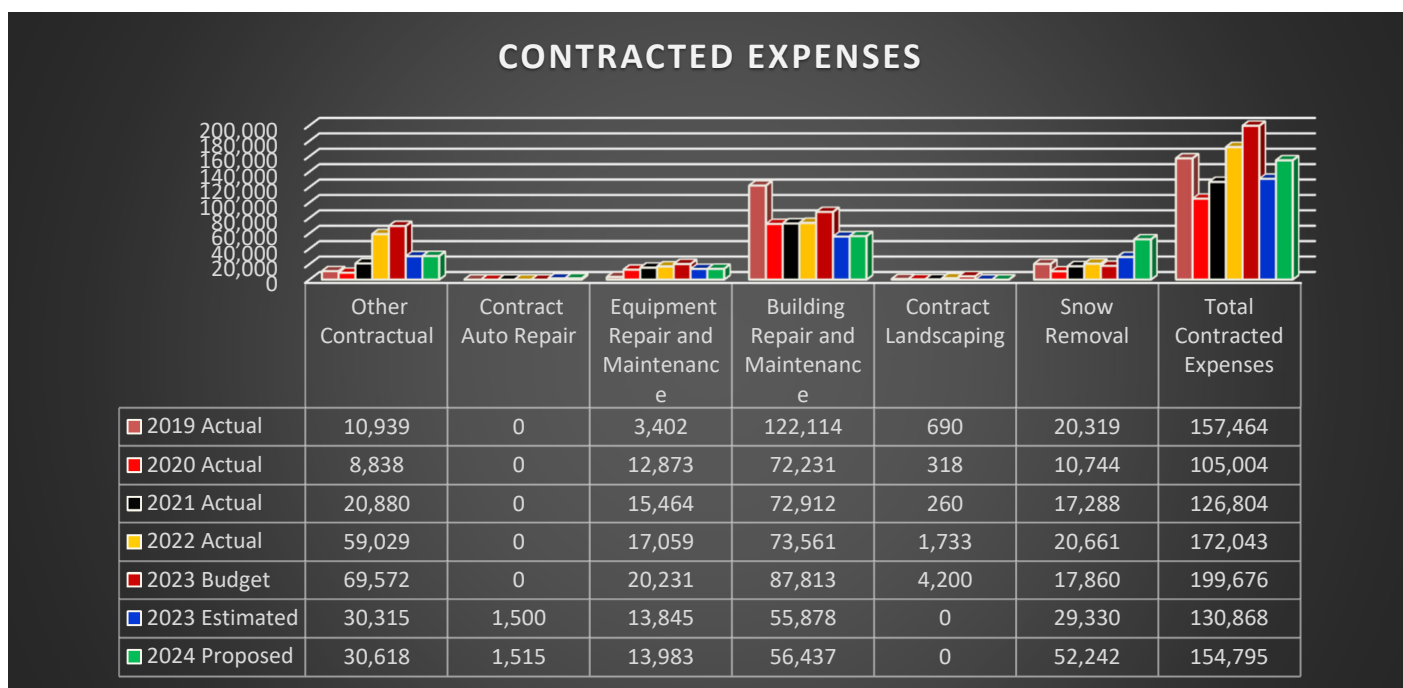


The primary administration and overhead expenses for Lakeville Arenas consist of a fiscal management fee that Lakeville Arenas pays to the City of Lakeville to provide accounting & HR management oversight, auditing, and reporting, bank charges from credit card processing fees, annual audit expenses, insurance, and dues and subscriptions, which consist of items such as our ice scheduling platform, point of sale system, and other subscription-based services. Other areas include schools and training expenses, conferences, and licenses.

Bank charges became a significant expense in 2022 due to credit card processing fees associated with online learn to skate registrations, increased concessions sales, and pro-shop sales. We are changing to a new cheaper point of sale platform in 2023 to help reduce some of these fees and our Learn to Skate participants will now pay for their credit card processing fees when they register online. Because of the expected and continued revenue growth offsetting the savings we are expecting from these changes we are not estimating or budgeting a reduction but rather planning for the expense to hold steady in 2024.

Our insurance premiums saw a significant increase in 2022 after the renovations and upgrades that were done during the 2021 Apex Energy Improvement Renovations. We are budgeting a similar increase in 2024 due to the Hasse rink addition and ice plant upgrade taking place this year.

| ADMINISTRATION AND OVERHEAD DETAIL | 2019 | 2020 | 2021 | 2022 | 2023 | 2023 | 2024 |
|---|---------------|---------------|---------------|----------------|----------------|----------------|----------------|
| | Actual | Actual | Actual | Actual | Budget | Estimated | Proposed |
| Professional Services Expenses | | | | | | | |
| Professional Fees | - | - | - | - | - | - | - |
| Attorney Fees | - | 1,470 | - | - | - | - | - |
| Fiscal Management Fee | 33,792 | 34,500 | 34,896 | 36,588 | 35,542 | 39,312 | 41,278 |
| Bank Charges | 2,133 | 1,288 | 1,967 | 16,570 | 15,500 | 17,639 | 17,639 |
| Audit | 6,125 | 6,300 | 6,500 | 6,695 | 6,554 | 6,746 | 6,948 |
| Advertising (Old Dashers/New Media Expense) | 6,247 | 1,169 | 4,985 | 6,407 | 6,220 | - | - |
| Insurance | 19,151 | 19,792 | 19,335 | 25,134 | 25,637 | 25,895 | 29,779 |
| Postage & Shipping | 16 | - | - | - | - | - | - |
| Total Professional Expenses | 67,464 | 64,519 | 67,683 | 91,394 | 89,453 | 89,592 | 95,644 |
| Training & Education Expenses | | | | | | | |
| Tuition Reimbursement | - | - | - | - | - | - | - |
| Schools and Conferences | - | - | - | 662 | 5,000 | 5,323 | 5,855 |
| Total Education Expenses | - | - | - | 662 | 5,000 | 5,323 | 5,855 |
| Other Admin & Overhead Expenses | | | | | | | |
| Use of Personal Auto | 230 | 12 | - | 122 | 303 | 712 | 712 |
| Misc. Expenses (Commissions-Donations) | - | - | - | 11,925 | - | 4,236 | 4,279 |
| Dues/Subscriptions/Licenses | 9,387 | 6,999 | 12,601 | 14,687 | 16,881 | 11,945 | 12,542 |
| Licenses & Taxes | - | - | - | - | - | 2,823 | - |
| Total Other Overhead Expenses | 9,617 | 7,011 | 12,601 | 26,734 | 17,184 | 21,166 | 19,011 |
| Total Overhead Expenses | 77,081 | 71,530 | 80,284 | 118,790 | 111,637 | 116,080 | 120,510 |
| Increase/decrease | 2,912 | (5,551) | 8,754 | 38,506 | (7,153) | 4,443 | 4,430 |



Contracted expenses include repairs, maintenance, and other services that are performed by outside contractors.

Other contractual includes expenses such as inspections for fire alarm and sprinkler systems, salt service for our water softeners, cleaning services, and other miscellaneous agreements such as our fundraising agreement with Heritage Figure Skating Club to provide workers for our concessions stands during high school games and tournaments. In 2023 and 2024 we are cutting our outside restroom and bleacher cleaning services and will have our staff taking over these responsibilities. That expense in 2022 was approximately \$30,000.

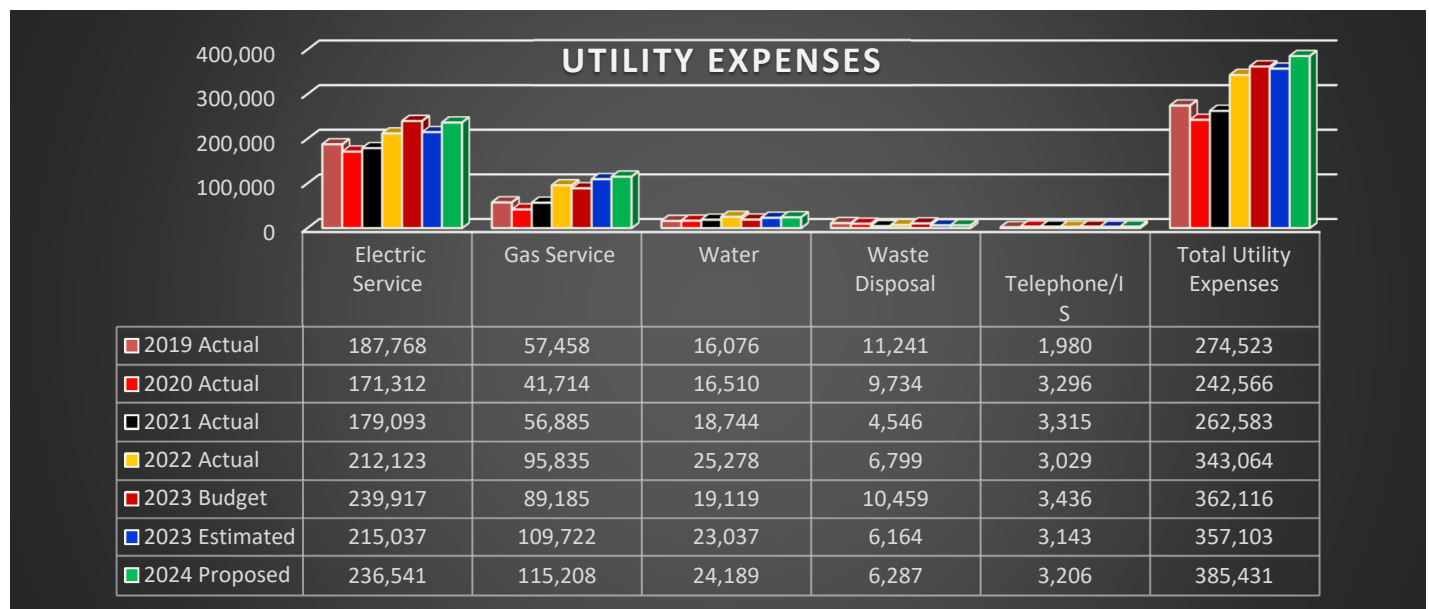
Equipment repairs are estimated and budgeted lower because we are replacing the battery packs in one of our Zambonis, which resulted in multiple emergency service calls this past winter and a spike in equipment expenses in 2022. The new battery packs are also over \$5,000 and will be accounted for under other capital equipment as recommended by our auditors.

Building repair and maintenance is also expected to be down similar to equipment repairs due to increased emergency repairs to the Hasse ice plant the past couple years and the replacement of one of our Zamboni garage doors that has failed, which will also be accounted for under other building capital improvements.

Snow removal is estimated using last season's actuals with higher-than-normal snowfalls and has impacted 2023 significantly this year. 2024 has additional expense budgeted for the snow removal for the outdoor rink and moving the snow being dumped outside by the Zamboni.

CONTRACTED DETAIL

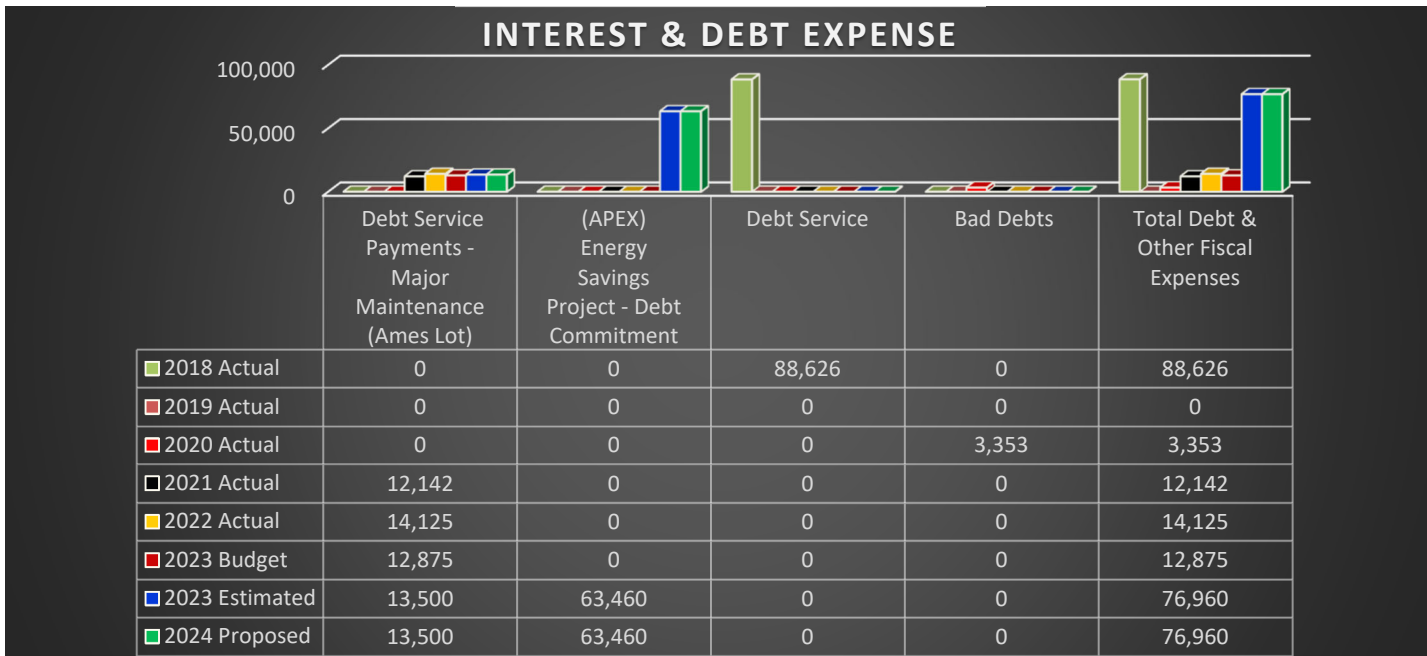
| | 2019 Actual | 2020 Actual | 2021 Actual | 2022 Actual | 2023 Budget | 2023 Estimated | 2024 Proposed |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|------------------|
| Contracted Expenses | | | | | | | |
| Other Contractual | 10,939 | 8,838 | 20,880 | 59,029 | 69,572 | 30,315 | 30,618 |
| Equipment Repair and Maintenance | 3,402 | 12,873 | 15,464 | 17,059 | 20,231 | 13,845 | 13,983 |
| Building Repair and Maintenance | 122,114 | 72,231 | 72,912 | 73,561 | 87,813 | 55,878 | 56,437 |
| Contract Landscaping | 690 | 318 | 260 | 1,733 | 4,200 | - | - |
| Snow Removal | 20,319 | 10,744 | 17,288 | 20,661 | 17,860 | 29,330 | 52,242 |
| Total Contracted Expenses | 157,464 | 105,004 | 126,804 | 172,043 | 199,676 | 130,868 | 154,795 |
| Increase/decrease | 61,635 | (52,460) | 21,800 | 45,239 | 27,633 | (68,808) | 23,927 |



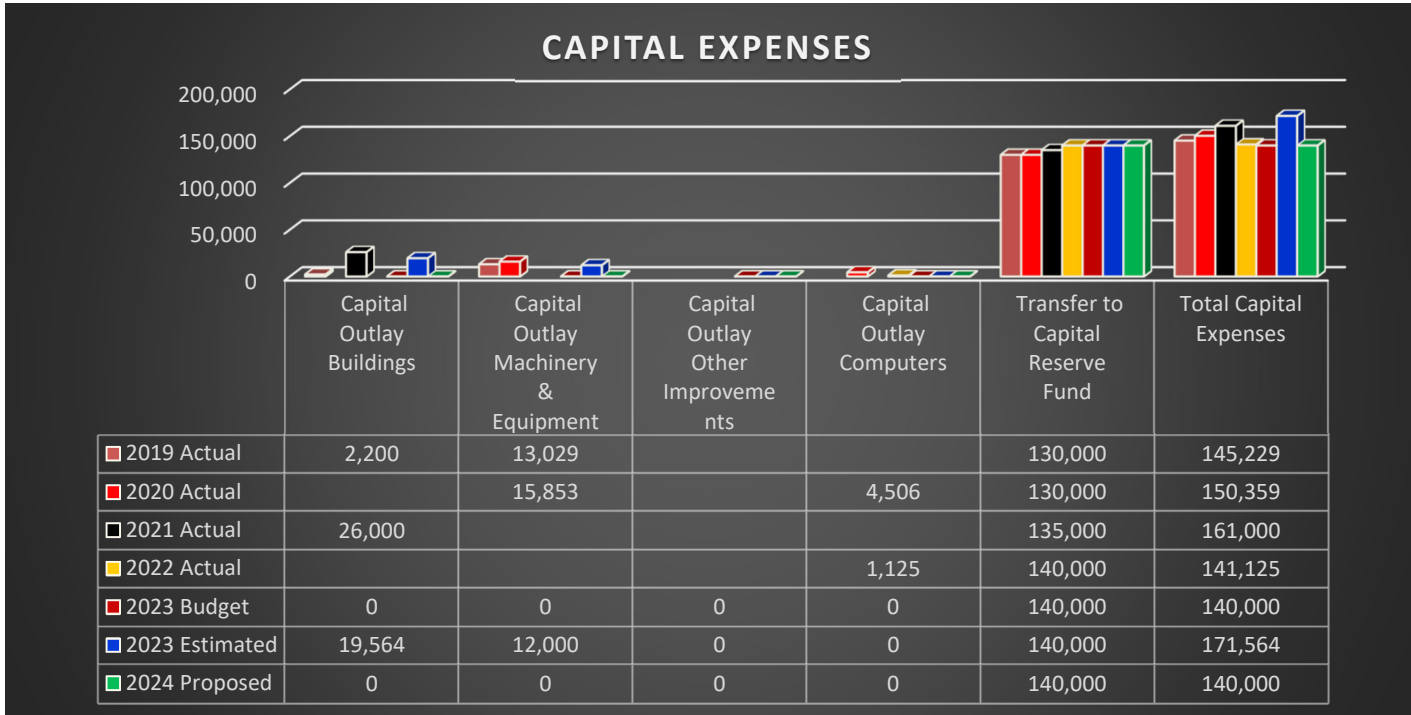
Electric, gas, and water expenses all saw significant increases in 2022. We are estimating a 5% increase in 2023. In 2024, we are budgeting a 10% increase in electric to account for the added expense of the new outdoor rink. The new ammonia ice plant will also create some savings so with that we believe the 10% increase should be sufficient to cover extra refrigeration expenses that we will incur at Hasse in 2024.

Utility Service Expenses

| | | | | | | | |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Electric Service | 187,768 | 171,312 | 179,093 | 212,123 | 239,917 | 215,037 | 236,541 |
| Gas Service | 57,458 | 41,714 | 56,885 | 95,835 | 89,185 | 109,722 | 115,208 |
| Utility Energy Savings (APEX) | - | - | - | - | - | (63,460) | - |
| Water | 16,076 | 16,510 | 18,744 | 25,278 | 19,119 | 23,037 | 24,189 |
| Waste Disposal | 11,241 | 9,734 | 4,546 | 6,799 | 10,459 | 6,164 | 6,287 |
| Telephone/IS | 1,980 | 3,296 | 3,315 | 3,029 | 3,436 | 3,143 | 3,206 |
| Total Utility Expenses | 274,523 | 242,566 | 262,583 | 343,064 | 362,116 | 293,643 | 385,431 |
| Increase/decrease | (13,940) | (31,957) | 20,017 | 80,481 | 19,052 | (68,473) | 91,788 |

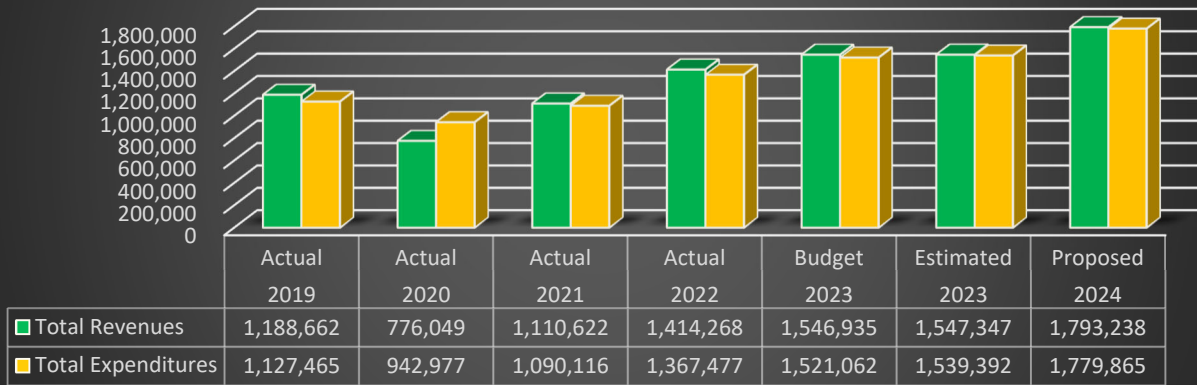


In 2023, we are adding a debt service commitment payment in the amount of 63,400 which was the guaranteed savings amount of the Apex energy Improvement Project completed in 2021. This payment was agreed to by the board when the project was approved and will help the city and school district make the bond payments for the project.

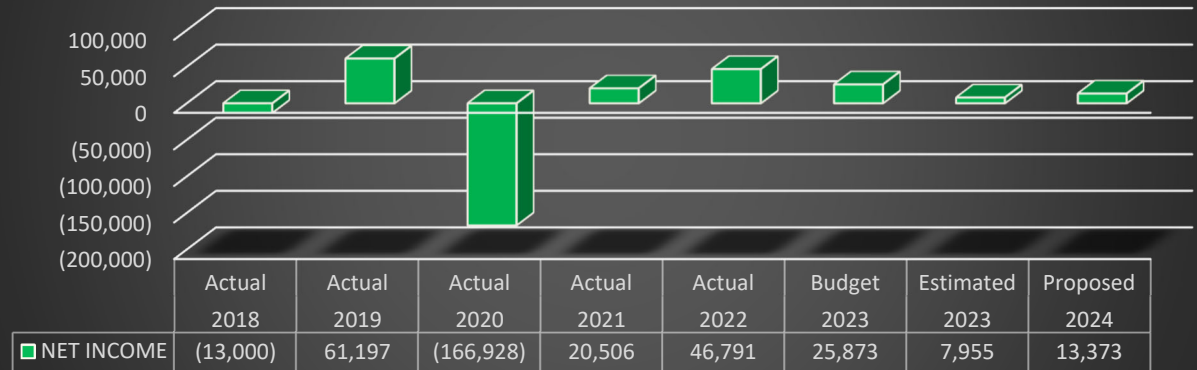


The 2023 expense estimated for the Zamboni door at Ames being replaced is added to capital outlay buildings and the batteries being replaced in the Hasse Zamboni added to capital outlay equipment. The estimated and budgeted capital transfer to the reserve fund will remain at 140k for each year.

TOTAL REVENUE & EXPENSES



NET PROFIT



Operating Fund Balance

Arena revenues are highly cyclical with revenues exceeding expenditures in the months of November through April. However, in the months of May through October, expenditures tend to exceed revenues. Cash balances are at their lowest in October and early November. As such, it is important that the fund balances at the beginning of the year are adequate to provide sufficient working capital to sustain operations through the first 10 months of the year.

The proposed budget results in an estimated ending balance of \$470,834 for 2023 and \$484,207 in 2024.

| | 2019 Actual | 2020 Actual | 2021 Actual | 2022 Actual | 2023 Budget | 2023 Estimated | 2024 Proposed |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|------------------|
| Fund Balance Beginning of Year | 501,313 | 562,510 | 395,582 | 416,088 | 462,879 | 462,879 | 534,294 |
| Fund Balance End of Year | 562,510 | 395,582 | 416,088 | 462,879 | 488,752 | 534,294 | 547,667 |

Capital Reserve Fund

The purpose of the Capital Reserve Fund is to provide a financial framework for replacement of the arena infrastructure as it ages including, but not limited to, ice resurfacers, HVAC equipment, dehumidification, refrigeration systems, and other major expenses not afforded in the annual operating budget.

| LAKEVILLE ARENA RESERVE FUND | 2019 | 2020 | 2021 | 2022 | 2023 | 2023 | 2024 | 2025 |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------------|
| | Actual | Actual | Actual | Actual | Adopted | Estimate | Proposed | Projected |
| Revenues | | | | | | | | |
| Transfers from Operating Fund | 130,000 | 130,000 | 135,000 | 140,000 | 140,000 | 140,000 | 140,000 | 140,000 |
| Other/Grants | 17,641 | - | - | - | - | - | - | - |
| Interest on investments | 7,225 | 3,622 | 2,145 | 3,464 | 331 | 3,464 | 3,464 | 3,464 |
| Total revenues | 154,866 | 133,622 | 137,145 | 143,464 | 140,331 | 143,464 | 143,464 | 143,464 |
| Expenditures | | | | | | | | |
| 2019 Total Expenditures | 270,409 | - | - | - | - | - | - | - |
| 2020 Total Expenditures | - | 49,662 | - | - | - | - | - | - |
| 2021 Total Expenditures | - | - | 177,699 | - | - | - | - | - |
| 2022 Total Expenditures | - | - | - | 58,321 | - | - | - | - |
| Dasher Boards - Hasse (2023) | - | - | - | - | - | 320,000 | - | - |
| Zamboni - Ames (Jan 2025) | - | - | - | - | - | - | - | 210,000 |
| Total Capital Projects | 270,409 | 49,662 | 177,699 | 58,321 | - | 320,000 | - | 210,000 |
| Net increase/(decrease) | (115,543) | 83,960 | (40,554) | 85,142 | 140,331 | (176,536) | 143,464 | (66,536) |
| Balance January 1 | 332,503 | 216,960 | 300,920 | 260,366 | 330,626 | 330,626 | 154,090 | 297,553 |
| Balance December 31 | 216,960 | 300,920 | 260,366 | 345,508 | 470,957 | 154,090 | 297,553 | 231,017 |

Transfer to Capital Reserve Fund. The transfer of \$140,000 to the capital reserve fund will be continued in 2024.

We were originally planning to purchase a new set of dasher boards for Hasse in 2023. However, when the outdoor rink construction was approved it produced a need for second Zamboni, which has been ordered in place of purchasing the new boards for Hasse. When the order was recently placed, we were informed that the lead time and delivery for it was over a year and a half or more, so we do not expect delivery until late 2024 or Jan 2025. As we were working on the 2023 estimate and 2024 budget we reached out for an inspection and quote to repair the boards to get us through another 1-2 years. The inspection discovered far more defects than expected and the costs to repair them is approximately \$58,000, which we do not have room for in the operating budget. We are proposing that due to the late arrival of the Zamboni that we amend the 2023 budget to install a new set of dasher boards at Hasse while the ice it still out this summer for construction since the Zamboni capital will not be needed until late 2024 or early 2025.

Arena Debt

The Hasse Arena construction was originally financed with a Lease Revenue Bond issued by the Lakeville Housing and Redevelopment Authority in 2006. The debt is being repaid with property taxes levied by the City of Lakeville and Independent School District 194. The 2006 bonds were advance refunded by HRA Lease Revenue Refunding Bonds, Series 2016A. The HRA2016A debt was refunded in April 2022. See details below.

In June 2020, the Lakeville City Council authorized the issuance of debt (approximately \$770,000) for the Ames Arena parking lot improvements. The competitive sale took place on July 20 and closed on August 13. The bonds were issued with a premium of \$145,777 which were used to reduce the amount of debt issued to \$620,000. True interest cost was 0.83%. The debt principal will be paid by contributions from the Lakeville Hockey Association (LHA) and the Heritage Figure Skating Club (HFSC). The interest will be paid by Lakeville Arenas. Staff will be calculating an allocation of the premium so LHA and HFSC will be paying the par plus premium.

On November 16, 2020, the Lakeville City Council authorized the issuance of debt (approximately \$8 million) to fund the APEX energy savings improvement projects at both the Hasse and Ames Arenas. The competitive sale took place on January

19, 2021 and closed on February 16, 2021. The bonds were issued with a premium of \$313,284 which was used to reduce the amount of debt issued to \$7,770,000. True interest cost was 1.48%. The debt will be repaid using property taxes and revenues received from Independent School District #194 per a Joint Powers Agreement approved in August 2020. Per the JPA the debt and debt-related costs are paid 50/50 by the City and ISD#194.

On February 7, 2022, the City Council authorized the issuance of Taxable General Obligation Bonds, Series 2022B, to refund the HRA Lease Revenue Refunding Bonds, Series 2016A (noted above) and provide funding for constructing a new outdoor rink at the Hasse Arena. The sale of the bonds was held on March 7, 2022 and closed on April 5, 2022. True interest cost was 2.69%. The refunding resulted in savings of approximately \$130,000 over the term of the bonds. An amended and restated joint powers agreement to address the payment of the refunding portion of the 2022B bonds was approved by ISD#194 and the City of Lakeville in February 2022. Agreements are finalized with Lakeville Hockey Association (LHA) and Heritage Figure Staking Club (HFSC) for additional contributions to be used for debt repayment of the bonds issued for the new outdoor rink.

Conclusion

We are confident that we are well positioned to implement the 2024 budget as proposed and have alternate plans in place for any unforeseen circumstances that could arise and affect the outcome of the budget in a negative manner. We have expected increases to revenues from the addition of tournaments and dry-floor activities and events on the outdoor rink that have not been included in the 2024 proposed budget at this time due to the difficulty in forecasting them without historical experience or data. In addition, the new ice rental revenues expected from having Hasse open year-round were budgeted conservatively at 50% of typical use for the same reasons. Therefore, we do expect the net revenue to be higher than currently proposed and will update it next spring in the 2024 estimate.

The proposed operating budget is consistent with the purpose of the Joint Powers Agreement to "...operate and manage the Arena Complex in the best interests of the community." The organization will continue its efforts to undertake entrepreneurial endeavors to maximize the return on the public investment.

Respectfully submitted,



Joe Bergquist
Arenas General Manager

LAKEVILLE ARENAS
STATEMENT OF REVENUE AND EXPENSE

| | 2022 | 2023 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Actual | Budget | Estimated | Proposed | Projected | Projected | Projected | Projected |
| OPERATING REVENUE | | | | | | | | |
| Ice Rental - LHA | 477,840 | 477,919 | 511,550 | 583,853 | 601,368 | 619,409 | 637,991 | 657,131 |
| Ice Rental - ISD 194 | 210,124 | 201,712 | 209,778 | 226,919 | 233,726 | 240,738 | 247,960 | 255,399 |
| Ice Rental Other | 402,052 | 413,082 | 429,295 | 563,911 | 580,829 | 598,254 | 616,201 | 634,687 |
| ISD 194 HS Game Gate Share | 43,950 | 47,148 | 39,110 | 39,110 | 39,501 | 39,896 | 40,295 | 40,698 |
| Dry floor Rentals | 20,021 | 14,100 | 9,749 | 9,762 | 9,957 | 10,156 | 10,360 | 10,567 |
| Learn to Skate | 85,253 | 91,773 | 86,544 | 95,708 | 97,622 | 99,575 | 101,566 | 103,597 |
| Public Admissions | 35,971 | 32,391 | 54,250 | 56,962 | 58,102 | 59,264 | 60,449 | 61,658 |
| Internal Programs | 17,996 | 109,296 | 29,641 | 31,123 | 31,745 | 32,380 | 33,028 | 33,688 |
| Concessions Net Revenue | 72,486 | 97,165 | 111,769 | 116,520 | 118,850 | 121,227 | 123,652 | 126,125 |
| Net Pro Shop Revenue | 2,535 | 2,500 | 4,609 | 5,043 | 5,144 | 5,246 | 5,351 | 5,458 |
| Skate Sharpening | 5,283 | 9,727 | 7,915 | 9,103 | 9,285 | 9,470 | 9,660 | 9,853 |
| Skate Rental | 5,217 | 8,122 | 6,026 | 6,929 | 7,068 | 7,209 | 7,354 | 7,501 |
| Games-Vending Machines | 1,677 | - | 3,852 | 4,237 | 4,279 | 4,322 | 4,365 | 4,409 |
| Advertising Sales / Other | 39,147 | 30,000 | 42,364 | 42,601 | 43,027 | 43,457 | 43,892 | 44,331 |
| Rebates & Dividends | - | - | - | - | - | - | - | - |
| Donations/Other Misc. | 6,202 | 2,000 | 5,757 | 5,757 | 5,815 | 5,873 | 5,932 | 5,991 |
| Interest on Investments | 4,317 | 10,000 | 6,378 | 6,378 | 6,442 | 6,506 | 6,571 | 6,637 |
| Net Change in FV of Investments | (15,802) | - | (11,240) | (10,678) | (10,784) | (10,892) | (11,001) | (11,111) |
| Cash Over/(Short) | - | - | - | - | - | - | - | - |
| Total Revenues | 1,414,268 | 1,546,935 | 1,547,347 | 1,793,238 | 1,841,975 | 1,892,091 | 1,943,626 | 1,996,619 |

OPERATING EXPENSES

Employee Salary Expenses

| | | | | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Salaries - Full Time | 230,289 | 323,603 | 241,817 | 378,162 | 389,507 | 401,192 | 413,228 | 425,625 |
| Overtime | 19,767 | 29,333 | 14,937 | 13,687 | 14,097 | 14,520 | 14,956 | 15,404 |
| Salaries - Part Time | 141,394 | 114,000 | 185,280 | 208,014 | 214,254 | 220,682 | 227,302 | 234,121 |
| PERA | 23,986 | 24,263 | 20,756 | 29,757 | 30,650 | 31,569 | 32,516 | 33,492 |
| Hospitalization | 20,484 | 53,790 | 26,531 | 47,220 | 49,581 | 52,060 | 54,663 | 57,396 |
| Life and Disability | 138 | 896 | 267 | 528 | 544 | 560 | 577 | 594 |
| Long Term Disability | 457 | 788 | 912 | 1,824 | 1,879 | 1,935 | 1,993 | 2,053 |
| Dental Insurance | 1,294 | 3,180 | 2,515 | 5,136 | 5,393 | 5,662 | 5,946 | 6,243 |
| FSA | 93 | - | 228 | 480 | 480 | 480 | 480 | 480 |
| FICA | 29,912 | 33,469 | 34,708 | 46,198 | 47,584 | 49,012 | 50,482 | 51,997 |
| Workers Compensation | 11,846 | - | 10,468 | 10,468 | 10,782 | 11,106 | 11,439 | 11,782 |
| Unemployment Compensation | 10,468 | 13,944 | 13,905 | 17,444 | 17,967 | 18,506 | 19,061 | 19,633 |
| Payroll Contingency | - | 13,864 | 10,582 | 18,117 | 18,660 | 19,220 | 19,797 | 20,391 |
| Total Salary & Benefit Expenses | 490,128 | 611,130 | 562,907 | 777,034 | 801,378 | 826,504 | 852,439 | 879,210 |

COMMODITIES

| | | | | | | | | |
|---|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Office Supplies / Equipment | 3,731 | 1,000 | 3,839 | 3,877 | 3,955 | 4,034 | 4,114 | 4,197 |
| Operating Supplies & Equipment | 31,460 | 30,640 | 34,999 | 35,349 | 36,056 | 36,777 | 37,513 | 38,263 |
| Motor Fuels | 872 | 1,500 | 1,291 | 1,304 | 1,330 | 1,357 | 1,384 | 1,411 |
| Cleaning Supplies / Equipment | 8,231 | 11,000 | 11,811 | 11,929 | 12,168 | 12,411 | 12,659 | 12,912 |
| Clothing | 36 | 2,500 | 2,500 | 2,525 | 2,576 | 2,627 | 2,680 | 2,733 |
| Chemicals (Condensing Towers) | - | - | 6,000 | 6,060 | 6,181 | 6,305 | 6,431 | 6,560 |
| Safety Supplies & Equipment | 1,356 | 788 | 1,379 | 1,379 | 1,407 | 1,435 | 1,463 | 1,493 |
| Equipment Parts & Supplies | 758 | 3,700 | 1,200 | 1,212 | 1,236 | 1,261 | 1,286 | 1,312 |
| Tires | - | - | - | - | - | - | - | - |
| Building Repair Supplies & Equipment | 32,562 | 25,000 | 32,005 | 32,325 | 32,972 | 33,631 | 34,304 | 34,990 |
| Parking Lot Maintenance Supplies | - | - | - | - | - | - | - | - |
| Landscaping Materials & Equipment | - | - | 7,000 | 7,070 | 7,211 | 7,356 | 7,503 | 7,653 |
| Signs (Advertising Sales Sign Expenses) | - | - | 6,000 | 6,060 | 6,181 | 6,305 | 6,431 | 6,560 |
| Small Tools/Equipment | 4,957 | 2,500 | 11,500 | 11,615 | 11,847 | 12,084 | 12,326 | 12,572 |
| Computer Supplies | 4,239 | 5,000 | 4,386 | 4,430 | 4,518 | 4,609 | 4,701 | 4,795 |
| Total Commodities | 88,202 | 83,628 | 123,910 | 125,135 | 127,638 | 130,190 | 132,794 | 135,450 |

| | 2022 Actual | 2023 Budget | 2023 Estimated | 2024 Proposed | 2025 Projected | 2026 Projected | 2027 Projected | 2028 Projected |
|---|------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| OTHER CHARGES & SERVICES | | | | | | | | |
| Admin & Overhead Expenses | | | | | | | | |
| Professional Services Expenses | | | | | | | | |
| Fiscal Management Fee | 36,588 | 35,542 | 39,312 | 41,278 | 42,103 | 42,945 | 43,804 | 44,680 |
| Bank Charges | 16,570 | 15,500 | 17,639 | 17,639 | 17,992 | 18,352 | 18,719 | 19,093 |
| Audit | 6,695 | 6,554 | 6,746 | 6,948 | 7,087 | 7,229 | 7,374 | 7,521 |
| Insurance | 25,134 | 25,637 | 25,895 | 29,779 | 30,375 | 30,982 | 31,602 | 32,234 |
| Schools and Conferences | 662 | 5,000 | 5,323 | 5,855 | 5,972 | 6,092 | 6,213 | 6,338 |
| Travel Expenses | - | - | 1,450 | 1,479 | 1,509 | 1,539 | 1,570 | 1,601 |
| Use of Personal Auto | 122 | 303 | 712 | 712 | 726 | 740 | 755 | 770 |
| Misc. Expenses (Commissions-Donations) | 11,925 | - | 4,236 | 4,279 | 4,364 | 4,452 | 4,541 | 4,631 |
| Dues/Subscriptions/Licenses | 14,687 | 16,881 | 11,945 | 12,542 | 12,793 | 13,049 | 13,310 | 13,576 |
| Licenses & Taxes | - | - | 2,823 | - | - | - | - | - |
| Total Overhead Expenses | 118,790 | 111,637 | 116,080 | 120,510 | 122,921 | 125,379 | 127,886 | 130,444 |
| Contracted Expenses | | | | | | | | |
| Other Contractual | 59,029 | 69,572 | 30,315 | 30,618 | 31,230 | 31,855 | 32,492 | 33,142 |
| Contract Auto Repair | - | - | 1,500 | 1,515 | 1,545 | 1,576 | 1,608 | 1,640 |
| Equipment Repair and Maintenance | 17,059 | 20,231 | 13,845 | 13,983 | 14,263 | 14,548 | 14,839 | 15,136 |
| Building Repair and Maintenance | 73,561 | 87,813 | 55,878 | 56,437 | 57,566 | 58,717 | 59,892 | 61,089 |
| Contract Landscaping | 1,733 | 4,200 | - | - | - | - | - | - |
| Snow Removal | 20,661 | 17,860 | 29,330 | 52,242 | 53,287 | 54,353 | 55,440 | 56,548 |
| Total Contracted Expenses | 172,043 | 199,676 | 130,868 | 154,795 | 157,891 | 161,049 | 164,270 | 167,556 |
| Utility Service Expenses | | | | | | | | |
| Electric Service | 212,123 | 239,917 | 215,037 | 236,541 | 241,272 | 246,097 | 251,019 | 256,040 |
| Gas Service | 95,835 | 89,185 | 109,722 | 115,208 | 117,512 | 119,862 | 122,259 | 124,704 |
| Utility Energy Savings (APEX) | - | - | (63,460) | - | - | - | - | - |
| Water | 25,278 | 19,119 | 23,037 | 24,189 | 24,673 | 25,166 | 25,669 | 26,183 |
| Waste Disposal | 6,799 | 10,459 | 6,164 | 6,287 | 6,413 | 6,541 | 6,672 | 6,806 |
| Telephone/IS | 3,029 | 3,436 | 3,143 | 3,206 | 3,270 | 3,335 | 3,402 | 3,470 |
| Total Utility Expenses | 343,064 | 362,116 | 293,643 | 385,431 | 393,139 | 401,002 | 409,022 | 417,203 |
| Interest and Debt Expenses | | | | | | | | |
| Debt Service Payments - Major Maintenance | 14,125 | 12,875 | 13,500 | 13,500 | 13,500 | 13,500 | 13,500 | 13,500 |
| (APEX) Energy Savings Project - Debt Commitment | - | - | 63,460 | 63,460 | 63,460 | 63,460 | 63,460 | 63,460 |
| Debt Service | - | - | - | - | - | - | - | - |
| Bad Debts | - | - | - | - | - | - | - | - |
| Total Debt & Other Fiscal Expenses | 14,125 | 12,875 | 76,960 | 76,960 | 76,960 | 76,960 | 76,960 | 76,960 |
| Capital Expenses | | | | | | | | |
| Capital Outlay Buildings | - | - | 19,564 | - | - | - | - | - |
| Capital Outlay Machinery & Equipment | - | - | 12,000 | - | - | - | - | - |
| Capital Outlay Other Improvements | - | - | - | - | - | - | - | - |
| Capital Outlay Computers | 1,125 | - | - | - | - | - | - | - |
| Transfer to Capital Reserve Fund | 140,000 | 140,000 | 140,000 | 140,000 | 140,000 | 140,000 | 140,000 | 140,000 |
| Total Capital Expenses | 141,125 | 140,000 | 171,564 | 140,000 | 140,000 | 140,000 | 140,000 | 140,000 |
| Total Expenditures | 1,367,477 | 1,521,062 | 1,475,932 | 1,779,865 | 1,819,926 | 1,861,085 | 1,903,372 | 1,946,823 |
| Net Income | 46,791 | 25,873 | 71,415 | 13,373 | 22,049 | 31,007 | 40,253 | 49,796 |
| Fund Balance Beginning of Year | 416,088 | | 462,879 | 534,294 | 547,667 | 569,716 | 600,722 | 640,976 |
| Fund Balance End of Year | 462,879 | | 534,294 | 547,667 | 569,716 | 600,722 | 640,976 | 690,772 |

City of Lakeville

MEASUREMENT & VERIFICATION REPORT
MARCH 2023

PRESENTED BY:

APEX FACILITY SOLUTIONS, LLC

3495 NORTHDAL BLVD. NW, SUITE 230, COON RAPIDS, MN 55448

ROB KRUKOSKI | ROBK@APEX-CO.US | 763-218-9572



CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT



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CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT



Executive Summary

This Measurement & Verification Report summarizes the energy and operational savings achieved from the Facility Improvement Measures (FIM's) installed for the City of Lakeville energy improvements project located at Ames Ice Arena and Hasse Ice Arena. The FIM's were implemented in the late Fall of 2021 in the amount of \$7,933,285. This is the first annual Guarantee Reconciliation report that covers year one of the guarantee period that started on the date of Final Acceptance; December 2021.

Apex Facility Solutions, LLC hereafter referred to as Apex, guaranteed the Client would save \$74,746 in energy and repair and maintenance costs during the first year of the savings guarantee. The Guarantee is assessed on an annual basis and comprised of several FIM's that were implemented in the facilities. The table in the following section summarizes the individual FIM's implemented, the amount of savings projected for each FIM, and the actual savings achieved by each FIM during the 1st Year Guarantee Period.

Of the \$74,747 in guaranteed savings, \$11,286 in savings are from operation and maintenance. These savings were agreed-upon per the terms of the contract. The actual energy savings combined with the operation and maintenance savings accounted for \$91,527 in savings which exceeded the guaranteed savings amount by \$16,781.

CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT



Energy Savings Summary

Below is a detailed summary depicting which FIM occurred, the calculated savings determined upon the contract, the guaranteed savings determined upon the contract, the O&M savings determined upon the contract, and the actual savings determined upon the first year M&V calculations for the years December 2021-November 2022.

| FIM Description | Guaranteed Utility Savings | Actual Annual Savings | O&M Annual Savings |
|--|----------------------------|-----------------------|--------------------|
| <i>Building Lighting - Ames Ice Arena</i> | \$6,010 | \$5,719 | \$1,298 |
| <i>Buiding Lighting - Hasse Ice Arena</i> | \$9,020 | \$8,565 | \$1,898 |
| <i>Buiding Envelope - Hasse & Ames Ice Arena</i> | \$5,600 | \$9,339 | \$0 |
| <i>Low E Ceilings - Hasse & Ames Ice Arena</i> | \$9,260 | \$10,289 | \$1,000 |
| <i>Refrigeration - Ames Ice Arena</i> | \$21,370 | \$31,791 | \$7,000 |
| <i>Water Conservation - Ames Ice Arena</i> | \$1,270 | \$1,408 | \$90 |
| <i>Building Controls - Ames Ice Arena</i> | \$820 | \$555 | \$0 |
| <i>Window Film - Hasse Ice Arena</i> | \$300 | \$337 | \$0 |
| <i>Refrigeration Controls - Hasse Ice Arena</i> | \$8,050 | \$2,838 | \$0 |
| <i>HVAC Controls - Hasse Ice Arena</i> | \$1,760 | \$9,399 | \$0 |
| Total | \$63,460 | \$80,241 | \$11,286 |

Below is a table summarizing all of the energy savings in terms of kWh, kW demand, and therms. The proposed headings in blue give values based on the contract, and the actual headings in green give values based on the actual savings that took place. Certain energy saving FIM’s had stipulated savings, so the actual and proposed savings were identical in these cases.

| Description | Guaranteed | Actual | Guaranteed | Actual | Guaranteed | Actual |
|--|----------------|----------------|------------|------------|--------------|---------------|
| | kWh Saved | kWh Saved | kW Saved | kW Saved | Therms Saved | Therms Saved |
| <i>Building Lighting - Ames Ice Arena</i> | 58,176 | 53,900 | 194 | 184 | N/A | N/A |
| <i>Buiding Lighting - Hasse Ice Arena</i> | 57,309 | 54,356 | 390 | 370 | N/A | N/A |
| <i>Buiding Envelope - Hasse & Ames Ice Arena</i> | 8,177 | 13,629 | N/A | N/A | 7,175 | 11,958 |
| <i>Low E Ceilings - Hasse & Ames Ice Arena</i> | 135,292 | 150,325 | N/A | N/A | N/A | N/A |
| <i>Refrigeration - Ames Ice Arena</i> | 340,070 | 505,890 | N/A | N/A | N/A | N/A |
| <i>Water Conservation - Ames Ice Arena</i> | N/A | N/A | N/A | N/A | 266 | 333 |
| <i>Building Controls - Ames Ice Arena</i> | 9,170 | 5,586 | N/A | N/A | 487 | 290 |
| <i>Window Film - Hasse Ice Arena</i> | 2,391 | 2,686 | N/A | N/A | 167 | 188 |
| <i>Refrigeration Controls - Hasse Ice Arena</i> | 107,057 | 37,759 | N/A | N/A | N/A | N/A |
| <i>HVAC Controls - Hasse Ice Arena</i> | 6,966 | 73,860 | N/A | N/A | 1,718 | 5,358 |
| Total | 724,608 | 897,992 | 583 | 555 | 9,813 | 18,127 |

CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT



Utility Rates

These are the agreed upon utility rates, used in calculating the savings.

| Facility | Electric | | Gas |
|-----------------|----------|-----------|----------|
| | \$/kWh | \$/kW | \$/Therm |
| Ames Ice Arena | \$ 0.063 | \$ 12.670 | \$ 0.703 |
| Hasse Ice Arena | \$ 0.075 | \$ 12.090 | \$ 0.718 |

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CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT

Individual Facility Improvement Measures

Lighting

General

Existing exterior lighting (Metal Halides and HPS Lights) and interior lighting (T8, CFL and Incandescent) were replaced with highly efficient LED lighting technology at both Ames Ice Arena as well as Hasse Ice Arena. The table below shows the actual measurement data obtained. Exhibit 1 details the actual energy savings by line.

Energy Savings

Below is the summary of actual calculations taken by the contractor at both Ames and Hasse Ice Arena for fixtures of high enough quantity to meet the measurement list. These recordings were used to calculate actual energy savings. ECM Codes were language used to identify a fixture description. "Pre" ECM Codes were done on existing fixtures before the project took place, and "Post" ECM Codes were done on fixtures installed after the project.

Lakeville Ames

| Pre/Post | Retrofit Code | Location | | Measurements | | | | | |
|----------|---------------|----------|----------------|--------------|------|-------|----------|-------------|---------------------------|
| | | Building | Qty (Fixtures) | Volts | Amps | PF | Power | Noted Power | Average Power Per Fixture |
| Pre | ECM A | Ames Ice | 31 | 276.3 | 4.07 | 0.993 | 1116.669 | 1117 | 36.02 |
| Pre | ECM B | Ames Ice | 5 | 277.5 | 3.76 | 0.994 | 1037.14 | 1039 | 207.43 |
| Pre | ECM B | Ames Ice | 5 | 276.9 | 3.8 | 0.891 | 937.528 | 1001 | 187.51 |
| Pre | ECM C | Ames Ice | 18 | 275 | 5.06 | 0.989 | 1376.194 | 1376 | 76.46 |
| Pre | ECM D | Ames Ice | 3 | 276.7 | 2.94 | 0.959 | 780.1446 | 780 | 260.05 |
| Post | ECM A (Post) | Ames Ice | 31 | 279.5 | 3.4 | 0.911 | 865.7233 | 867 | 27.93 |
| Post | ECM B (Post) | Ames Ice | 5 | 282.1 | 1.87 | 0.963 | 508.0085 | 508 | 101.60 |
| Post | ECM B (Post) | Ames Ice | 5 | 282.3 | 2.23 | 0.969 | 610.0136 | 610 | 122.00 |
| Post | ECM C (Post) | Ames Ice | 18 | 278.7 | 2.27 | 0.974 | 616.2001 | 617 | 34.23 |
| Post | ECM D (Post) | Ames Ice | 3 | 279.6 | 1.81 | 0.943 | 477.2297 | 489 | 159.08 |



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Lakeville Hasse

| <u>Pre/Post</u> | <u>Retrofit Code</u> | <u>Location</u> | | <u>Measurements</u> | | | | | |
|-----------------|----------------------|-----------------|-----------------------|---------------------|-------------|-----------|--------------|--------------------|----------------------|
| | | <u>Building</u> | <u>Qty (Fixtures)</u> | <u>Volts</u> | <u>Amps</u> | <u>PF</u> | <u>Power</u> | <u>Noted Power</u> | <u>Average Power</u> |
| Pre | ECM A | Hasse Ice | 14 | 278.4 | 2.48 | 0.995 | 686.9798 | 688 | 49.07 |
| Pre | ECM A | Hasse Ice | 12 | 277.6 | 2.04 | 0.994 | 562.9062 | 563 | 46.91 |
| Pre | ECM B | Hasse Ice | 5 | 277.9 | 11.6 | 0.992 | 3197.851 | 3197 | 639.57 |
| Pre | ECM B | Hasse Ice | 5 | 278.3 | 11.94 | 0.992 | 3296.319 | 3299 | 659.26 |
| Pre | ECM B | Hasse Ice | 5 | 278.7 | 12.9 | 0.991 | 3562.873 | 3563 | 712.57 |
| Pre | ECM C | Hasse Ice | 6 | 279.4 | 1.64 | 0.975 | 446.7606 | 447 | 74.46 |
| Pre | ECM D | Hasse Ice | 4 | 280.6 | 1.47 | 0.939 | 387.3206 | 386 | 96.83 |
| Pre | ECM E | Hasse Ice | 7 | 276.5 | 7.79 | 0.977 | 2104.394 | 2105 | 300.63 |
| Post | ECM A (Post) | Hasse Ice | 14 | 277.5 | 1.53 | 0.91 | 386.3633 | 387 | 27.60 |
| Post | ECM A (Post) | Hasse Ice | 12 | 275.2 | 1.39 | 0.906 | 346.5704 | 347 | 28.88 |
| Post | ECM B (Post) | Hasse Ice | 5 | 277.6 | 5.31 | 0.976 | 1438.679 | 1440 | 287.74 |
| Post | ECM B (Post) | Hasse Ice | 5 | 276.5 | 5.25 | 0.976 | 1416.786 | 1422 | 283.36 |
| Post | ECM B (Post) | Hasse Ice | 5 | 275.1 | 5.3 | 0.978 | 1425.953 | 1427 | 285.19 |
| Post | ECM C (Post) | Hasse Ice | 6 | 273.7 | 0.98 | 0.91 | 244.0857 | 245 | 40.68 |
| Post | ECM D (Post) | Hasse Ice | 4 | 277.8 | 0.89 | 0.904 | 223.5068 | 219 | 55.88 |
| Post | ECM E (Post) | Hasse Ice | 7 | 274.9 | 2.95 | 0.971 | 787.4373 | 788 | 112.49 |



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Building Envelope

General

The existing building envelope had leakage in several locations which were improved upon by the project. Exhibit 2 details the air leakage locations as well as the equations and data used to calculate improvements.

Energy Savings

Savings from building envelope improvements were agreed upon based on the materials and locations where work was to be completed. During the construction period, the materials were verified and installed as per the contract.



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Water Conservation – Ames Ice Arena

General

Ames Ice Arena had a multitude of water conservation upgrades done to the facility to optimize current plumbing systems and improve water consumption efficiency. Exhibit 3 details the breakout summary of fixtures and occupancy used to calculate savings.

Energy Savings

Savings from building envelope improvements were agreed upon based on the materials and locations where work was to be completed. During the construction period, the new equipment was installed as per the manufactures recommended procedures and, in the locations, as noted in the contract.



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Window Film – Hasse Ice Arena

General

The existing window film at Hasse Ice Arena had issues in several locations which were improved upon by the project. Exhibit 4 details the window film data used to calculate savings.

Energy Savings

Savings from window film improvements were agreed upon based on the materials and locations where work was to be completed. During the construction period, the new equipment was installed as per the manufacturer's recommended procedures and, in the locations, as noted in the contract.



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Low Emissivity Ceilings

General

Both Ames Ice Arena and Hasse Ice Arena had Low Emissivity ceilings installed into the ice arenas. Exhibit 5 details savings calculated from the installation.

Energy Savings

Savings from Low Emissivity Ceiling installation was agreed upon based on the materials and locations where work was to be completed. During the construction period, the new equipment was installed as per the manufactures recommended procedures and, in the locations, as noted in the contract.



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Refrigeration System Replacement – Ames Ice Arena

General

A new ammonia refrigeration plant was installed into Ames Ice Arena. Through this project, a multitude of different energy savings methods were put into place on the new plant.

The savings for the refrigeration system have many different components. The first savings method was turning off the brine pumps between the hours of 12-4am when they are not in use to save on the pump energy. The second part of the refrigeration system savings methods was changing the sub-floor temperature of the ice sheet from 38° to 34° Fahrenheit to reduce load on the refrigeration system. The third method was reducing refrigeration load on the system via the new compressors. Exhibit 5 details the calculations used to verify trends and measurements for the actual calculated savings.

Energy Savings

Savings from these changes to the refrigeration system were calculated by using trends set up on the controls system, verification of equipment installation and some agreed upon savings. The controls system operating the brine pumps did not shut the pumps off from the hours of 12-4am, and the subfloor temperature setpoint change did not get lowered down to the 34° Fahrenheit mark. Due to this, those two sections of the refrigeration system did not make the intended guaranteed savings. However, the refrigeration load reduction on the compressors did result in great energy savings. Summaries of the savings can be seen below.

Ames Refrigeration System

| Description | Guaranteed | Actual |
|------------------------------|----------------|----------------|
| | kWh Saved | kWh Saved |
| SubFloor Temperature Control | 2,840 | - |
| Brine Pump Night Setback | 17,790 | - |
| Compressor Head Pressure | 319,440 | 505,890 |
| Total | 340,070 | 505,890 |



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Refrigeration System Controls Upgrades – Hasse Ice Arena

General

The refrigeration system at Lakeville Hasse Ice Arena underwent controls upgrades to the existing refrigeration system that was there. At this location, controls were added to improve on energy saving methods.

The savings for the refrigeration system at Hasse had multiple different components. The first savings method involved turning off the brine pumps between the hours of 12-4am when they are not in use to save on the pump energy. The second energy saving method involved reducing the head pressure on the system to save energy on the compressors. The third method involved adding VFD’s to the brine pumps so that they do not run 100% of the time. Exhibit 6 details the calculations used to verify trends and measurements for the actual calculated savings.

Energy Savings

Savings from these changes to the refrigeration system were calculated by using trends set up on the controls system, verification of equipment installation and some agreed upon savings. The controls system operating the brine pumps did not shut the pumps off from the hours of 12-4am, and the VFD’s controlling the brine pumps were not lowered significantly down to the proposed pump speed, so savings were short. Due to this, those two sections of the refrigeration system did not make the intended guaranteed savings. The compressor system load was reduced as well, but not enough to make the guaranteed savings mark. A summary of calculations can be seen below for the refrigeration upgrades.

Hasse Refrigeration System

| Description | Guaranteed | Actual |
|----------------------------------|----------------|---------------|
| | kWh Saved | kWh Saved |
| Brine Pump VFD Control | 19,344 | 10,951 |
| Brine Pump Night Setback | 19,344 | - |
| Compressor Head Pressure Setback | 74,159 | 26,808 |
| Total | 112,847 | 37,759 |



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Building Controls Upgrades – Ames Ice Arena

General

Multiple Rooftop Units located at Ames Ice Arena implemented control strategies to reduce total run time per week, resulting in energy savings over time.

Energy Savings

The energy savings were calculated using the control strategies that were put in place. The hours of operation for the existing AHUs were brought down so that they are not running when there is no occupancy. We have found that the hours of operation for the RTU serving the locker rooms was often overridden and the RTU was often running 24 hours a day. The RTU used 165.9 hours for the actual hours per week because it was not shut off when it was agreed to be shut off. Because of it being overridden we did not meet the guaranteed savings on the calculations for this section of the facility upgrades. Exhibit 7 contains trend data for each unit as well as a summary of energy savings.

Ames

Energy Calculations - Optimum and Schedule Start/Stop Strategy

| AHU # | AREA SERVED | SUPPLY CFM | O.A. CFM | Measured KW | HVACHRS | | HRSOCC | |
|-------|--------------|---------------|-------------|----------------|--------------------|--------------------|------------------|-------------------|
| | | | | | Baseline Hrs/Wk | Proposed Hrs/Wk | Actual Hrs/Wk | Savings Hrs/Wk |
| RTU-1 | Loby | 4800 | 960 | 2.98 | 84.0 | 70.0 | 70.0 | 14 |
| RTU-2 | Locker Room | 3500 | 700 | 1.79 | 84.0 | 70.0 | 165.9 | -82 |
| RTU-3 | Meeting Room | 3400 | 680 | 1.79 | 84.0 | 70.0 | 47.8 | 36 |
| RTU-4 | Loby | 6000 | 1,200 | 2.98 | 84.0 | 70.0 | 45.8 | 38 |
| | | | | | | | | |



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Building Controls Upgrades – Hasse Ice Arena

General

Multiple rooftop units, makeup air units, and dehumidification units located at Hasse Ice Arena implemented control strategies to reduce total run time per week, resulting in energy savings over time.

Energy Savings

The energy savings were calculated using the control strategies that were put in place. The hours of operation for the existing units were brought down so that they are not running when there is no occupancy. The dehumidification unit was running significantly less than the proposed hours per week except for occasion with practice events. All other air handling units were performing under the baseline hours/week and guaranteed savings were made. A summary of the hours saved can be seen below. Exhibit 8 contains trend data for each unit as well as a summary of energy savings.

Hasse

Energy Calculations - Optimum and Schedule Start/Stop Strategy

| AHU # | AREA SERVED | SUPPLY CFM | O.A. CFM | Measured KW | HVACHRS | | actual Hrs/Wk | Savings Hrs/Wk |
|---------|----------------------|---------------|-------------|----------------|--------------------|--------------------|------------------|-------------------|
| | | | | | Baseline Hrs/Wk | Proposed Hrs/Wk | | |
| DH-UOCC | Dehumid _ UnOccupied | 10000 | 500 | 8.95 | 67.2 | 139.6 | 16.8 | 50 |
| DH-P1 | Dehumid _ Practice 1 | 10000 | 2,160 | 8.95 | 67.2 | 20.0 | 14.0 | 53 |
| DH-P2 | Dehumid _ Practice 2 | 10000 | 4,060 | 8.95 | 25.2 | 0.0 | 14.0 | 11 |
| DH-Ev | Dehumid _ Event | 10000 | 8,500 | 8.95 | 8.4 | 8.4 | 0.8 | 8 |
| MAU-1 | 0 | 4320 | 2,160 | 1.19 | 84.0 | 84.0 | 31.0 | 53 |
| MAU-2 | 0 | 3800 | 1,900 | 1.19 | 84.0 | 84.0 | 36.0 | 48 |
| RTU-1 | Loby | 6540 | 654 | 2.98 | 84.0 | 40.0 | 37.8 | 46 |
| RTU-2 | Restrooms | 1900 | 190 | 0.90 | 84.0 | 84.0 | 60.0 | 24 |



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Other Observations

Below is a list of a few problems found during the measurement and verification process that should take further investigation.

1. The brine pumps were not scheduled to be offline during the hours of 12-4am in both ice arenas, and we will be reaching out to NAC to see if control modifications can take place.
2. The brine pumps located at the Hasse location are running at too high of a speed via VFD control and we will be reaching out to NAC to see if control modifications can take place.
3. The subfloor temperature may not be able to be changed to a lower setpoint based on the type of system that was installed.
4. The compressors at the Ames locations should be scheduled to cycle on and off in coherence with each other, so that each compressor obtains equal run time and the equipment does not age at different rates. This will allow for equipment savings over time in the facility. We will be reaching out to NAC to discuss possible control changes.



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Summary

Apex is pleased to report that the overall savings from this project are meeting the guaranteed amounts listed in the contract. There are facility improvements that did make their calculated savings and others that were under the guaranteed but overall, the savings were met.

The lighting that was done throughout the two ice arenas was just under the guaranteed mark due to the rink light addition hurting the savings and pre-existing fixtures having lower wattage measurements than initially thought.

Many of the facility improvement measures had stipulated savings. These included, building envelope, water conservation improvements, low emissivity ceilings, and window film improvements.

The refrigeration system improvements at the ice arena had some items that met the guarantee and others that did not, but again overall, the savings were met. The refrigeration night setback on both rinks did not come in as expected on the savings. The sub floor temperature at Ames was a little too warm, and the savings fell short in that category. The brine pump VFD speeds at Hasse were running a little too high, so savings were not met there as well. The refrigeration system at Ames exceeded savings expectations and the refrigeration controls upgrades at Hasse made some savings but fell short of guaranteed savings.

The controls on the RTU systems at Hasse ran quite well except for one unit that was running much longer than expected, which resulted in a loss of savings. The controls on the systems at Hasse ran well and made the guaranteed savings.



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Exhibit 1: Line by Line Lighting Calculations

The following tables summarize the room-by-room lighting energy use. These summary tables contain the existing, actual, and proposed measurements for each fixture type.

The tables on pages 19-20 describes the measurements on existing fixtures before the project took place at Ames Ice Arena, and the tables on pages 21-23 describes the measurements on fixtures installed during the project at Ames Ice Arena.

The tables on pages 24-25 describes the measurements on existing fixtures before the project took place at Hasse Ice Arena, and the tables on pages 26-28 describes the measurements on fixtures installed during the project at Hasse Ice Arena.

- The “PRE” measurements were taken prior to the project construction on the existing fixtures.
- The “POST” measurements were taken after the project on the new fixtures installed.
- Line items involving an ECM code whether “PRE” or “POST” were items that had a high number of replacements and thus required actual measurements obtained in the field. The ECM code was used to reference which fixture needed measurements.

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| Location | Area | ID# | Room | Room Type | PRE Qty | High | Low | Average | PRE Fixtures | PRE Fixture Attributes |
|------------|-------------------|-----|---------------------------|-----------------------|---------|------|-----|---------|--|-----------------------------|
| Ames Arena | Interior Lighting | 1 | Maintenance Entrance | Vestibule | 6 | 0 | 0 | 0 | 1L 19W LEDS-M PAR38 [0xNULL] | Recessed Can |
| Ames Arena | Interior Lighting | 2 | Maintenance Room | Maintenance | 1 | 9 | 1 | 0 | 1L 38W LEDS-MHID [0xNULL] | Porcelain Socket Surface |
| Ames Arena | Interior Lighting | 4 | Maintenance Room | | 1 | 0 | 0 | 0 | 1L 15W LEDS-MA19 [0xNULL] | Porcelain Socket Surface |
| Ames Arena | Interior Lighting | 5 | Rink 1 Lobby | Lobby | 31 | 32 | 14 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 67 | Rink 1 Lobby | | 2 | 0 | 0 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 6 | Lobby 1 Mens | Restroom | 5 | 47 | 13 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 7 | Lobby 1 Womens | Restroom | 5 | 45 | 12 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 8 | Concession Stand | Kitchen | 4 | 49 | 16 | 0 | 3L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 9 | Concession Stand | | 4 | 35 | 16 | 0 | 3L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 10 | Arena Office | Office - Open | 5 | 33 | 9 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 11 | Arena Office | | 1 | 39 | 28 | 0 | 4L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 12 | Arena Manager Office | Office - Private | 2 | 36 | 15 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 13 | Meeting Room | Lobby | 6 | 24 | 6 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 14 | Meeting Room Storage | Storage | 1 | 8 | 5 | 0 | 2L 40W LF4 T12 [1x MAG] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 15 | Locker Room 1 & 2 Hallway | Hallway | 1 | 9 | 3 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 16 | Referees Room | Locker Room | 2 | 25 | 13 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 17 | Locker Room 2 | Locker Room | 4 | 24 | 6 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 18 | Locker Room 2 Bathroom | Restroom | 2 | 0 | 0 | 0 | 2L 40W LF4 T12 [1x MAG] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 19 | Locker Room 1 | Locker Room | 3 | 20 | 6 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 20 | Unisex Restroom 1 | Restroom | 1 | 12 | 5 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 21 | Locker Room 3 & 4 Entry | Hallway | 1 | 6 | 3 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 22 | Locker Room 3 | Locker Room | 3 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 23 | Locker Room 4 | Locker Room | 4 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 24 | Locker Room 4 Bathroom | Restroom | 2 | 17 | 9 | 0 | 2L 40W LF4 T12 [1x MAG] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 25 | Lamp Storage | Storage | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | 32 | 53 | 17 | 0 | 1L 301W LED Linear Board [2x LED DRIVER] | Vaportight 2x4 Chain/Cable |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | 0 | 53 | 17 | 0 | 1L 301W LED Linear Board [2x LED DRIVER] | |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | 0 | 53 | 17 | 0 | 1L 301W LED Linear Board [2x LED DRIVER] | |
| Ames Arena | Interior Lighting | 27 | Rink 1 | | 36 | 13 | 6 | 0 | 2L 40W LF4 T12 [1x MAG] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 28 | Rink 1 | | 6 | 0 | 0 | 0 | 1L 40W LF4 T12 [1x MAG] | Narrow Strip 4' Surface |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | 7 | 27 | 5 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | 3 | 27 | 5 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Ames Arena | Interior Lighting | 30 | Girls Varsity | | 5 | 20 | 1 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 1x4 Recessed |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 1x4 Recessed |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | 7 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | 3 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Ames Arena | Interior Lighting | 33 | Boys Varsity | | 4 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 1x4 Recessed |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 1x4 Recessed |
| Ames Arena | Interior Lighting | 35 | Ice Room Mechanical | Electrical/Mechanical | 8 | 14 | 1 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Wall |
| Ames Arena | Interior Lighting | 36 | Water Heater Room | Electrical/Mechanical | 2 | 9 | 3 | 0 | 2L 17W LL4A T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 37 | Electrical Room | Electrical/Mechanical | 3 | 23 | 11 | 0 | 2L 17W LL4A T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 38 | Electrical Room | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 39 | Rink 1 Zamboni | Electrical/Mechanical | 7 | 14 | 4 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Wall |
| Ames Arena | Interior Lighting | 40 | Rink 2 Zamboni | Electrical/Mechanical | 10 | 23 | 4 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 41 | Rink 2 | Gym | 63 | 71 | 36 | 0 | 6L 32W LF4 T8 [2xELE T8 IS HP] | Highbay 2x4 Chain/Cable |
| Ames Arena | Interior Lighting | 42 | Locker Room 8 | Locker Room | 8 | 22 | 3 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 43 | Locker Room 7 | Locker Room | 6 | 16 | 7 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 44 | Locker Room 6 | Locker Room | 6 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 45 | Locker Room 5 | Locker Room | 6 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 46 | Rink 2 Lobby | Lobby | 7 | 0 | 0 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 68 | Rink 2 Lobby | | 4 | 0 | 0 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Ames Arena | Interior Lighting | 47 | Rink 2 Mens | Restroom | 4 | 55 | 4 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 48 | Rink 2 Womens | Restroom | 4 | 0 | 0 | 0 | 2L 25W LF4 T8 [1xELE T8 IS NP] | Vaportight 4' Surface |
| Ames Arena | Interior Lighting | 49 | Coaches LR | Locker Room | 3 | 21 | 14 | 0 | 2L 40W LF4 T12 [1x MAG] | Vaportight 4' Surface |
| Ames Arena | Exterior Lighting | 50 | Rink 1 Entry | Exterior | 3 | 0 | 0 | 0 | 1L 19W LEDS-M PAR38 [0xNULL] | Recessed Can |
| Ames Arena | Exterior Lighting | 51 | Rink 1 Entry | | 3 | 0 | 0 | 0 | 1L 26W CFS-M SPIRAL [0xNULL] | Surface |
| Ames Arena | Exterior Lighting | 52 | Rink 2 Entry | Exterior | 1 | 0 | 0 | 0 | 1L 91W LED COB [1x LED DRIVER] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 53 | Rink 2 NW Exit | Exterior | 1 | 0 | 0 | 0 | 1L 91W LED COB [1x LED DRIVER] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 54 | Rink 2 North Wall | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 55 | Rink 2 East Wall | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 56 | Rink 2 East Wall | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 57 | Rink 2 East Wall | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 58 | Rink 2 SE Exit | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 59 | Zamboni Exit Door | Exterior | 1 | 0 | 0 | 0 | 1L 91W LED COB [1x LED DRIVER] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 60 | Zamboni Overhead Door | Exterior | 1 | 0 | 0 | 0 | 1L 91W LED COB [1x LED DRIVER] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 61 | Rink 1 East Exit | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 62 | Rink 1 West Exit | Exterior | 1 | 0 | 0 | 0 | 1L 250W MH MOG BASE HID [1x MAG] | Shoe Box Wall |
| Ames Arena | Exterior Lighting | 63 | Sidewalk Pole | Exterior | 1 | 0 | 0 | 0 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light |
| Ames Arena | Exterior Lighting | 64 | Handicap Parking | Exterior | 1 | 0 | 0 | 0 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light |
| Ames Arena | Exterior Lighting | 65 | Main Lot | Exterior | 2 | 0 | 0 | 0 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light |
| Ames Arena | Exterior Lighting | 66 | Main Lot | Exterior | 2 | 0 | 0 | 0 | 1L 400W HPS MOG BASE HID [1x MAG] | Pole Light |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

| Location | Area | ID# | Room | Room Type | PRE ECM Code | PRE ECM Watts | PRE kW | PRE Watts | PRE kW Total | PRE Burn | PRE kWh |
|------------|-------------------|-----|---------------------------|-----------------------|--------------|---------------|--------|-----------|--------------|----------|---------|
| Ames Arena | Interior Lighting | 1 | Maintenance Entrance | Vestibule | | 19 | 0.019 | 19.000 | 0.114 | 4380 | 499 |
| Ames Arena | Interior Lighting | 2 | Maintenance Room | Maintenance | | 38 | 0.038 | 38.000 | 0.038 | 4108 | 156 |
| Ames Arena | Interior Lighting | 4 | Maintenance Room | | | 15 | 0.015 | 15.000 | 0.015 | 4108 | 62 |
| Ames Arena | Interior Lighting | 5 | Rink 1 Lobby | Lobby | ECMA | 36.02158752 | 0.043 | 43.000 | 1.333 | 4108 | 5,476 |
| Ames Arena | Interior Lighting | 67 | Rink 1 Lobby | | ECMA | 36.02158752 | 0.043 | 43.000 | 0.086 | 8760 | 753 |
| Ames Arena | Interior Lighting | 6 | Lobby 1 Mens | Restroom | ECMA | 36.02158752 | 0.043 | 43.000 | 0.215 | 2184 | 470 |
| Ames Arena | Interior Lighting | 7 | Lobby 1 Womens | Restroom | ECMA | 36.02158752 | 0.043 | 43.000 | 0.215 | 2184 | 470 |
| Ames Arena | Interior Lighting | 8 | Concession Stand | Kitchen | | 63 | 0.063 | 63.000 | 0.252 | 4108 | 1,035 |
| Ames Arena | Interior Lighting | 9 | Concession Stand | | | 63 | 0.063 | 63.000 | 0.252 | 4108 | 1,035 |
| Ames Arena | Interior Lighting | 10 | Arena Office | Office - Open | ECMA | 36.02158752 | 0.043 | 43.000 | 0.215 | 4108 | 883 |
| Ames Arena | Interior Lighting | 11 | Arena Office | | | 85 | 0.085 | 85.000 | 0.085 | 4108 | 349 |
| Ames Arena | Interior Lighting | 12 | Arena Manager Office | Office - Private | ECMA | 36.02158752 | 0.043 | 43.000 | 0.086 | 4108 | 353 |
| Ames Arena | Interior Lighting | 13 | Meeting Room | Lobby | ECMA | 36.02158752 | 0.043 | 43.000 | 0.258 | 728 | 188 |
| Ames Arena | Interior Lighting | 14 | Meeting Room Storage | Storage | ECMC | 76.45519444 | 0.097 | 97.000 | 0.097 | 100 | 10 |
| Ames Arena | Interior Lighting | 15 | Locker Room 1 & 2 Hallway | Hallway | | 58 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Ames Arena | Interior Lighting | 16 | Referees Room | Locker Room | | 58 | 0.058 | 58.000 | 0.116 | 1460 | 169 |
| Ames Arena | Interior Lighting | 17 | Locker Room 2 | Locker Room | | 58 | 0.058 | 58.000 | 0.232 | 1460 | 339 |
| Ames Arena | Interior Lighting | 18 | Locker Room 2 Bathroom | Restroom | ECMC | 76.45519444 | 0.097 | 97.000 | 0.194 | 100 | 19 |
| Ames Arena | Interior Lighting | 19 | Locker Room 1 | Locker Room | | 58 | 0.058 | 58.000 | 0.174 | 1460 | 254 |
| Ames Arena | Interior Lighting | 20 | Unisex Restroom 1 | Restroom | | 58 | 0.058 | 58.000 | 0.058 | 2184 | 127 |
| Ames Arena | Interior Lighting | 21 | Locker Room 3 & 4 Entry | Hallway | | 58 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Ames Arena | Interior Lighting | 22 | Locker Room 3 | Locker Room | | 58 | 0.058 | 58.000 | 0.174 | 1460 | 254 |
| Ames Arena | Interior Lighting | 23 | Locker Room 4 | Locker Room | | 58 | 0.058 | 58.000 | 0.232 | 1460 | 339 |
| Ames Arena | Interior Lighting | 24 | Locker Room 4 Bathroom | Restroom | ECMC | 76.45519444 | 0.097 | 97.000 | 0.194 | 1460 | 283 |
| Ames Arena | Interior Lighting | 25 | Lamp Storage | Storage | | 58 | 0.058 | 58.000 | 0.058 | 250 | 15 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | ECMD | 260.048194 | 0.301 | 301.000 | 9.632 | 4108 | 39,568 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | | 0 | 0.000 | 0.000 | 0 | 0 | 0 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | | 0 | 0.000 | 0.000 | 0 | 0 | 0 |
| Ames Arena | Interior Lighting | 27 | Rink 1 | | ECMC | 76.45519444 | 0.097 | 97.000 | 3.492 | 2184 | 7,627 |
| Ames Arena | Interior Lighting | 28 | Rink 1 | | | 51 | 0.051 | 51.000 | 0.306 | 4108 | 1,257 |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | | 58 | 0.058 | 58.000 | 0.406 | 1460 | 593 |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | | 58 | 0.058 | 58.000 | 0.174 | 1460 | 254 |
| Ames Arena | Interior Lighting | 30 | Girls Varsity | | | 58 | 0.058 | 58.000 | 0.29 | 1460 | 423 |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | | 58 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | | 58 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | | 58 | 0.058 | 58.000 | 0.406 | 1460 | 593 |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | | 58 | 0.058 | 58.000 | 0.174 | 1460 | 254 |
| Ames Arena | Interior Lighting | 33 | Boys Varsity | | | 58 | 0.058 | 58.000 | 0.232 | 1460 | 339 |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | | 58 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | | 58 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Ames Arena | Interior Lighting | 35 | Ice Room Mechanical | Electrical/Mechanical | | 58 | 0.058 | 58.000 | 0.464 | 4108 | 1,906 |
| Ames Arena | Interior Lighting | 36 | Water Heater Room | Electrical/Mechanical | | 40 | 0.040 | 40.000 | 0.08 | 4108 | 329 |
| Ames Arena | Interior Lighting | 37 | Electrical Room | Electrical/Mechanical | | 40 | 0.040 | 40.000 | 0.12 | 4108 | 493 |
| Ames Arena | Interior Lighting | 38 | Electrical Room | | | 58 | 0.058 | 58.000 | 0.058 | 4108 | 238 |
| Ames Arena | Interior Lighting | 39 | Rink 1 Zamboni | Electrical/Mechanical | | 58 | 0.058 | 58.000 | 0.406 | 4108 | 1,668 |
| Ames Arena | Interior Lighting | 40 | Rink 2 Zamboni | Electrical/Mechanical | | 58 | 0.058 | 58.000 | 0.58 | 4108 | 2,383 |
| Ames Arena | Interior Lighting | 41 | Rink 2 | Gym | ECMB | 232.1733162 | 0.220 | 220.000 | 13.86 | 4108 | 56,937 |
| Ames Arena | Interior Lighting | 42 | Locker Room 8 | Locker Room | | 58 | 0.058 | 58.000 | 0.464 | 1460 | 677 |
| Ames Arena | Interior Lighting | 43 | Locker Room 7 | Locker Room | | 58 | 0.058 | 58.000 | 0.348 | 1460 | 508 |
| Ames Arena | Interior Lighting | 44 | Locker Room 6 | Locker Room | | 58 | 0.058 | 58.000 | 0.348 | 1460 | 508 |
| Ames Arena | Interior Lighting | 45 | Locker Room 5 | Locker Room | | 58 | 0.058 | 58.000 | 0.348 | 1460 | 508 |
| Ames Arena | Interior Lighting | 46 | Rink 2 Lobby | Lobby | ECMA | 36.02158752 | 0.043 | 43.000 | 0.301 | 4108 | 1,237 |
| Ames Arena | Interior Lighting | 68 | Rink 2 Lobby | | ECMA | 36.02158752 | 0.043 | 43.000 | 0.172 | 8760 | 1,507 |
| Ames Arena | Interior Lighting | 47 | Rink 2 Mens | Restroom | ECMA | 36.02158752 | 0.043 | 43.000 | 0.172 | 2184 | 376 |
| Ames Arena | Interior Lighting | 48 | Rink 2 Womens | Restroom | ECMA | 36.02158752 | 0.043 | 43.000 | 0.172 | 2184 | 376 |
| Ames Arena | Interior Lighting | 49 | Coaches LR | Locker Room | ECMC | 76.45519444 | 0.097 | 97.000 | 0.291 | 1460 | 425 |
| Ames Arena | Exterior Lighting | 50 | Rink 1 Entry | Exterior | | 19 | 0.019 | 19.000 | 0.057 | 4380 | 250 |
| Ames Arena | Exterior Lighting | 51 | Rink 1 Entry | | | 26 | 0.026 | 26.000 | 0.078 | 4380 | 342 |
| Ames Arena | Exterior Lighting | 52 | Rink 2 Entry | Exterior | | 91 | 0.091 | 91.000 | 0.091 | 4380 | 399 |
| Ames Arena | Exterior Lighting | 53 | Rink 2 NW Exit | Exterior | | 91 | 0.091 | 91.000 | 0.091 | 4380 | 399 |
| Ames Arena | Exterior Lighting | 54 | Rink 2 North Wall | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 55 | Rink 2 East Wall | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 56 | Rink 2 East Wall | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 57 | Rink 2 East Wall | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 58 | Rink 2 SE Exit | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 59 | Zamboni Exit Door | Exterior | | 91 | 0.091 | 91.000 | 0.091 | 4380 | 399 |
| Ames Arena | Exterior Lighting | 60 | Zamboni Overhead Door | Exterior | | 91 | 0.091 | 91.000 | 0.091 | 4380 | 399 |
| Ames Arena | Exterior Lighting | 61 | Rink 1 East Exit | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 62 | Rink 1 West Exit | Exterior | | 295 | 0.295 | 295.000 | 0.295 | 4380 | 1,292 |
| Ames Arena | Exterior Lighting | 63 | Sidewalk Pole | Exterior | | 457 | 0.457 | 457.000 | 0.457 | 4380 | 2,002 |
| Ames Arena | Exterior Lighting | 64 | Handicap Parking | Exterior | | 457 | 0.457 | 457.000 | 0.457 | 4380 | 2,002 |
| Ames Arena | Exterior Lighting | 65 | Main Lot | Exterior | | 457 | 0.457 | 457.000 | 0.914 | 4380 | 4,003 |
| Ames Arena | Exterior Lighting | 66 | Main Lot | Exterior | | 457 | 0.457 | 457.000 | 0.914 | 4380 | 4,003 |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

| Location | Area | ID# | Room | Room Type | Action | POST Qty | POST Solution | POST Description |
|------------|-------------------|-----|---------------------------|-----------------------|------------|----------|---|--|
| Ames Arena | Interior Lighting | 1 | Maintenance Entrance | Vestibule | Retrofit | 6 | GE-LRX-R8-10-8-40-MD | 13W LED 8" Commercial Recessed Can Retrofit 4000K 0-10V |
| Ames Arena | Interior Lighting | 2 | Maintenance Room | Maintenance | Do Nothing | 1 | Do Nothing | Do Nothing |
| Ames Arena | Interior Lighting | 4 | Maintenance Room | | Do Nothing | 1 | Do Nothing | Do Nothing |
| Ames Arena | Interior Lighting | 5 | Rink 1 Lobby | Lobby | Retrofit | 31 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 67 | Rink 1 Lobby | | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 6 | Lobby 1 Mens | Restroom | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 7 | Lobby 1 Womens | Restroom | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 8 | Concession Stand | Kitchen | Retrofit | 4 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 9 | Concession Stand | | Retrofit | 4 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 10 | Arena Office | Office - Open | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 11 | Arena Office | | Retrofit | 1 | ESPEN-448-15W-40-DE | Retrofit Fixture w/ (4) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 12 | Arena Manager Office | Office - Private | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 13 | Meeting Room | Lobby | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 14 | Meeting Room Storage | Storage | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 15 | Locker Room 1 & 2 Hallway | Hallway | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 16 | Referees Room | Locker Room | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 17 | Locker Room 2 | Locker Room | Retrofit | 4 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 18 | Locker Room 2 Bathroom | Restroom | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 19 | Locker Room 1 | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 20 | Unisex Restroom 1 | Restroom | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 21 | Locke Room 3 & 4 Entry | Hallway | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 22 | Locker Room 3 | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 23 | Locker Room 4 | Locker Room | Retrofit | 4 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 24 | Locker Room 4 Bathroom | Restroom | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 25 | Lamp Storage | Storage | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | Replace | 32 | LITHONIA-IBG-144W-50K-AFL-GND-RIO-WGX-DWH | 144W IBG LED High Bay Fixture, 5000K, 24000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | Install | 31 | LITHONIA-IBG-144W-50K-AFL-GND-RIO-WGX-DWH | 144W IBG LED High Bay Fixture, 5000K, 24000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | Install | 7 | LITHONIA-IBG-48W-50K-AFL-GND-RIO-WGX-DWH | 48W IBG LED High Bay Fixture, 5000K, 8000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device |
| Ames Arena | Interior Lighting | 27 | Rink 1 | | Retrofit | 36 | 2L 32W LF4 T8 [1x ELE T8 IS NP] | Standard Strip 4' Chain/Cable |
| Ames Arena | Interior Lighting | 28 | Rink 1 | | Retrofit | 6 | ESPEN-148-15W-40-DE | Retrofit Fixture w/ (1) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | Retrofit | 7 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Ames Arena | Interior Lighting | 30 | Girls Varsity | | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | Retrofit | 7 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Ames Arena | Interior Lighting | 33 | Boys Varsity | | Retrofit | 4 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Ames Arena | Interior Lighting | 35 | Ice Room Mechanical | Electrical/Mechanical | Retrofit | 8 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 36 | Water Heater Room | Electrical/Mechanical | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 37 | Electrical Room | Electrical/Mechanical | Retrofit | 3 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 38 | Electrical Room | | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 39 | Rink 1 Zamboni | Electrical/Mechanical | Retrofit | 7 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 40 | Rink 2 Zamboni | Electrical/Mechanical | Retrofit | 10 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 41 | Rink 2 | Gym | Replace | 63 | LITHONIA-IBG-105W-50K-AFL-GND-RIO-WGX-DWH | 105W IBG LED High Bay Fixture, 5000K, 18000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device |
| Ames Arena | Interior Lighting | 42 | Locker Room 8 | Locker Room | Retrofit | 8 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 43 | Locker Room 7 | Locker Room | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 44 | Locker Room 6 | Locker Room | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 45 | Locker Room 5 | Locker Room | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 46 | Rink 2 Lobby | Lobby | Retrofit | 7 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 68 | Rink 2 Lobby | | Retrofit | 4 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 47 | Rink 2 Mens | Restroom | Retrofit | 4 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 48 | Rink 2 Womens | Restroom | Retrofit | 4 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Interior Lighting | 49 | Coaches LR | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Ames Arena | Exterior Lighting | 50 | Rink 1 Entry | Exterior | Do Nothing | 3 | Do Nothing | Do Nothing |
| Ames Arena | Exterior Lighting | 51 | Rink 1 Entry | | Relamp | 3 | GC-15W-A21-40K-1L | Relamp Fixture w/ (1) x 15W LED A21 E26 4000K Dimmable 92CRI |
| Ames Arena | Exterior Lighting | 52 | Rink 2 Entry | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Ames Arena | Exterior Lighting | 53 | Rink 2 NW Exit | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Ames Arena | Exterior Lighting | 54 | Rink 2 North Wall | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 55 | Rink 2 East Wall | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 56 | Rink 2 East Wall | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 57 | Rink 2 East Wall | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 58 | Rink 2 SE Exit | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 59 | Zamboni Exit Door | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Ames Arena | Exterior Lighting | 60 | Zamboni Overhead Door | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Ames Arena | Exterior Lighting | 61 | Rink 1 East Exit | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 62 | Rink 1 West Exit | Exterior | Replace | 1 | RAB-WPLED-77W-T4-50K-DB | 77W LED Wallpack Type 4 Optics 5000K Dark Bronze Finish |
| Ames Arena | Exterior Lighting | 63 | Sidewalk Pole | Exterior | Replace | 1 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DDBXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and Dark Bronze Finish - Includes Square Pole Mounting |
| Ames Arena | Exterior Lighting | 64 | Handicap Parking | Exterior | Replace | 1 | LITHONIA-RSX2-111W-40K-R4-MVOLT-SPA-DDBXD | 111W RSX2 LED Area Luminaire, 4000K, Type 4 Optics, 120-277V, and Dark Bronze Finish - Includes Square Pole Mounting |
| Ames Arena | Exterior Lighting | 65 | Main Lot | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DDBXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and Dark Bronze Finish - Includes Square Pole Mounting |
| Ames Arena | Exterior Lighting | 66 | Main Lot | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DDBXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and Dark Bronze Finish - Includes Square Pole Mounting |



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| Location | Area | ID# | Room | Room Type | Control | Control Hrs Saved | New Burn | POST ECM Code | POST ECM Watts | POST kW | POST Watts/Fix | POST kWh |
|------------|-------------------|-----|---------------------------|-----------------------|------------------------|-------------------|----------|---------------|----------------|---------|----------------|-----------|
| Ames Arena | Interior Lighting | 1 | Maintenance Entrance | Vestibule | | 0 | 4380 | 13 | | 0.078 | 13.000 | 341.64 |
| Ames Arena | Interior Lighting | 2 | Maintenance Room | Maintenance | | 0 | 4108 | 38 | | 0.038 | 38.000 | 156.10 |
| Ames Arena | Interior Lighting | 4 | Maintenance Room | | | 0 | 4108 | 15 | | 0.015 | 15.000 | 61.62 |
| Ames Arena | Interior Lighting | 5 | Rink 1 Lobby | Lobby | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.930 | 30.000 | 3,820.44 |
| Ames Arena | Interior Lighting | 67 | Rink 1 Lobby | | | 0 | 8760 | ECMA (Post) | 27.92655806 | 0.060 | 30.000 | 525.60 |
| Ames Arena | Interior Lighting | 6 | Lobby 1 Mens | Restroom | | 0 | 2184 | ECMA (Post) | 27.92655806 | 0.150 | 30.000 | 327.60 |
| Ames Arena | Interior Lighting | 7 | Lobby 1 Womens | Restroom | | 0 | 2184 | ECMA (Post) | 27.92655806 | 0.150 | 30.000 | 327.60 |
| Ames Arena | Interior Lighting | 8 | Concession Stand | Kitchen | LUTRON-LRF2-POWPAK (1) | 1232 | 2876 | 45 | | 0.180 | 45.000 | 517.61 |
| Ames Arena | Interior Lighting | 9 | Concession Stand | | | 0 | 4108 | 45 | | 0.180 | 45.000 | 739.44 |
| Ames Arena | Interior Lighting | 10 | Arena Office | Office - Open | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.150 | 30.000 | 616.20 |
| Ames Arena | Interior Lighting | 11 | Arena Office | | | 0 | 4108 | 60 | | 0.060 | 60.000 | 246.48 |
| Ames Arena | Interior Lighting | 12 | Arena Manager Office | Office - Private | LUTRON-WS-DT-GR (1) | 1232 | 2876 | ECMA (Post) | 27.92655806 | 0.060 | 30.000 | 172.54 |
| Ames Arena | Interior Lighting | 13 | Meeting Room | Lobby | LUTRON-OWLB-POWPAK (1) | 218 | 510 | ECMA (Post) | 27.92655806 | 0.180 | 30.000 | 91.73 |
| Ames Arena | Interior Lighting | 14 | Meeting Room Storage | Storage | | 0 | 100 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 3.00 |
| Ames Arena | Interior Lighting | 15 | Locker Room 1 & 2 Hallway | Hallway | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 43.80 |
| Ames Arena | Interior Lighting | 16 | Referees Room | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.060 | 30.000 | 87.60 |
| Ames Arena | Interior Lighting | 17 | Locker Room 2 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.120 | 30.000 | 175.20 |
| Ames Arena | Interior Lighting | 18 | Locker Room 2 Bathroom | Restroom | LUTRON-WS-DT-GR (1) | 30 | 70 | ECMA (Post) | 27.92655806 | 0.060 | 30.000 | 4.20 |
| Ames Arena | Interior Lighting | 19 | Locker Room 1 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.090 | 30.000 | 131.40 |
| Ames Arena | Interior Lighting | 20 | Unisex Restroom 1 | Restroom | | 0 | 2184 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 65.52 |
| Ames Arena | Interior Lighting | 21 | Locker Room 3 & 4 Entry | Hallway | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 43.80 |
| Ames Arena | Interior Lighting | 22 | Locker Room 3 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.090 | 30.000 | 131.40 |
| Ames Arena | Interior Lighting | 23 | Locker Room 4 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.120 | 30.000 | 175.20 |
| Ames Arena | Interior Lighting | 24 | Locker Room 4 Bathroom | Restroom | LUTRON-WS-DT-GR (1) | 438 | 1022 | ECMA (Post) | 27.92655806 | 0.060 | 30.000 | 61.32 |
| Ames Arena | Interior Lighting | 25 | Lamp Storage | Storage | | 0 | 250 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 7.50 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | | 0 | 4108 | ECMD (Post) | 159.076556 | 4.608 | 144.000 | 18,929.66 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | | 0 | 4108 | ECMD (Post) | 159.076556 | 4.464 | 144.000 | 18,338.11 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | | 0 | 4108 | 48 | | 0.336 | 48.000 | 1,380.29 |
| Ames Arena | Interior Lighting | 27 | Rink 1 | | | 0 | 2184 | ECMC (Post) | 34.23334033 | 2.088 | 58.000 | 2,358.72 |
| Ames Arena | Interior Lighting | 28 | Rink 1 | | | 0 | 4108 | 15 | | 0.090 | 15.000 | 369.72 |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.210 | 30.000 | 306.60 |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.090 | 30.000 | 131.40 |
| Ames Arena | Interior Lighting | 30 | Girls Varsity | | LUTRON-WS-PIR-GR (2) | 730 | 730 | ECMA (Post) | 27.92655806 | 0.150 | 30.000 | 109.50 |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 43.80 |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 43.80 |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.210 | 30.000 | 306.60 |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.090 | 30.000 | 131.40 |
| Ames Arena | Interior Lighting | 33 | Boys Varsity | | LUTRON-WS-PIR-GR (2) | 730 | 730 | ECMA (Post) | 27.92655806 | 0.120 | 30.000 | 87.60 |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 43.80 |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 43.80 |
| Ames Arena | Interior Lighting | 35 | Ice Room Mechanical | Electrical/Mechanical | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.240 | 30.000 | 985.92 |
| Ames Arena | Interior Lighting | 36 | Water Heater Room | Electrical/Mechanical | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.060 | 30.000 | 246.48 |
| Ames Arena | Interior Lighting | 37 | Electrical Room | Electrical/Mechanical | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.090 | 30.000 | 369.72 |
| Ames Arena | Interior Lighting | 38 | Electrical Room | | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.030 | 30.000 | 123.24 |
| Ames Arena | Interior Lighting | 39 | Rink 1 Zamboni | Electrical/Mechanical | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.210 | 30.000 | 862.68 |
| Ames Arena | Interior Lighting | 40 | Rink 2 Zamboni | Electrical/Mechanical | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.300 | 30.000 | 1,232.40 |
| Ames Arena | Interior Lighting | 41 | Rink 2 | Gym | | 0 | 4108 | ECMB (Post) | 111.8022102 | 6.615 | 105.000 | 27,174.42 |
| Ames Arena | Interior Lighting | 42 | Locker Room 8 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.240 | 30.000 | 350.40 |
| Ames Arena | Interior Lighting | 43 | Locker Room 7 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.180 | 30.000 | 262.80 |
| Ames Arena | Interior Lighting | 44 | Locker Room 6 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.180 | 30.000 | 262.80 |
| Ames Arena | Interior Lighting | 45 | Locker Room 5 | Locker Room | | 0 | 1460 | ECMA (Post) | 27.92655806 | 0.180 | 30.000 | 262.80 |
| Ames Arena | Interior Lighting | 46 | Rink 2 Lobby | Lobby | | 0 | 4108 | ECMA (Post) | 27.92655806 | 0.210 | 30.000 | 862.68 |
| Ames Arena | Interior Lighting | 68 | Rink 2 Lobby | | | 0 | 8760 | ECMA (Post) | 27.92655806 | 0.120 | 30.000 | 1,051.20 |
| Ames Arena | Interior Lighting | 47 | Rink 2 Mens | Restroom | | 0 | 2184 | ECMA (Post) | 27.92655806 | 0.120 | 30.000 | 262.08 |
| Ames Arena | Interior Lighting | 48 | Rink 2 Womens | Restroom | | 0 | 2184 | ECMA (Post) | 27.92655806 | 0.120 | 30.000 | 262.08 |
| Ames Arena | Interior Lighting | 49 | Coaches LR | Locker Room | LUTRON-WS-PIR-GR (1) | 438 | 1022 | ECMA (Post) | 27.92655806 | 0.090 | 30.000 | 91.98 |
| Ames Arena | Exterior Lighting | 50 | Rink 1 Entry | Exterior | | 0 | 4380 | 19 | | 0.057 | 19.000 | 249.66 |
| Ames Arena | Exterior Lighting | 51 | Rink 1 Entry | | | 0 | 4380 | 15 | | 0.045 | 15.000 | 197.10 |
| Ames Arena | Exterior Lighting | 52 | Rink 2 Entry | Exterior | | 0 | 4380 | 91 | | 0.091 | 91.000 | 398.58 |
| Ames Arena | Exterior Lighting | 53 | Rink 2 NW Exit | Exterior | | 0 | 4380 | 91 | | 0.091 | 91.000 | 398.58 |
| Ames Arena | Exterior Lighting | 54 | Rink 2 North Wall | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 55 | Rink 2 East Wall | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 56 | Rink 2 East Wall | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 57 | Rink 2 East Wall | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 58 | Rink 2 SE Exit | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 59 | Zamboni Exit Door | Exterior | | 0 | 4380 | 91 | | 0.091 | 91.000 | 398.58 |
| Ames Arena | Exterior Lighting | 60 | Zamboni Overhead Door | Exterior | | 0 | 4380 | 91 | | 0.091 | 91.000 | 398.58 |
| Ames Arena | Exterior Lighting | 61 | Rink 1 East Exit | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 62 | Rink 1 West Exit | Exterior | | 0 | 4380 | 77 | | 0.077 | 77.000 | 337.26 |
| Ames Arena | Exterior Lighting | 63 | Sidewalk Pole | Exterior | | 0 | 4380 | 111 | | 0.111 | 111.000 | 486.18 |
| Ames Arena | Exterior Lighting | 64 | Handicap Parking | Exterior | | 0 | 4380 | 111 | | 0.111 | 111.000 | 486.18 |
| Ames Arena | Exterior Lighting | 65 | Main Lot | Exterior | | 0 | 4380 | 111 | | 0.222 | 111.000 | 972.36 |
| Ames Arena | Exterior Lighting | 66 | Main Lot | Exterior | | 0 | 4380 | 111 | | 0.222 | 111.000 | 972.36 |



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| Location | Area | ID# | Room | Room Type | kW Saved Actual | kWh Saved Actual | kW Saved Proposed | kWh Saved Proposed |
|------------|-------------------|-----|---------------------------|-----------------------|-----------------|------------------|-------------------|--------------------|
| Ames Arena | Interior Lighting | 1 | Maintenance Entrance | Vestibule | 0.036 | 157.68 | 0.036 | 157.68 |
| Ames Arena | Interior Lighting | 2 | Maintenance Room | Maintenance | 0 | 0 | 0 | 0 |
| Ames Arena | Interior Lighting | 4 | Maintenance Room | | 0 | 0 | 0 | 0 |
| Ames Arena | Interior Lighting | 5 | Rink 1 Lobby | Lobby | 0.250945913 | 1030.885811 | 0.403 | 1655.524 |
| Ames Arena | Interior Lighting | 67 | Rink 1 Lobby | | 0.016190059 | 141.824916 | 0.026 | 227.76 |
| Ames Arena | Interior Lighting | 6 | Lobby 1 Mens | Restroom | 0.040475147 | 88.39772161 | 0.065 | 141.96 |
| Ames Arena | Interior Lighting | 7 | Lobby 1 Womens | Restroom | 0.040475147 | 88.39772161 | 0.065 | 141.96 |
| Ames Arena | Interior Lighting | 8 | Concession Stand | Kitchen | 0.072 | 517.536 | 0.072 | 517.536 |
| Ames Arena | Interior Lighting | 9 | Concession Stand | | 0.072 | 295.776 | 0.072 | 295.776 |
| Ames Arena | Interior Lighting | 10 | Arena Office | Office - Open | 0.040475147 | 166.2719049 | 0.065 | 267.02 |
| Ames Arena | Interior Lighting | 11 | Arena Office | | 0.025 | 102.7 | 0.025 | 102.7 |
| Ames Arena | Interior Lighting | 12 | Arena Manager Office | Office - Private | 0.016190059 | 135.319801 | 0.026 | 180.728 |
| Ames Arena | Interior Lighting | 13 | Meeting Room | Lobby | 0.048570177 | 71.88702659 | 0.078 | 96.024 |
| Ames Arena | Interior Lighting | 14 | Meeting Room Storage | Storage | 0.048528636 | 4.852863638 | 0.067 | 6.7 |
| Ames Arena | Interior Lighting | 15 | Locker Room 1 & 2 Hallway | Hallway | 0.030073442 | 43.90722523 | 0.028 | 40.88 |
| Ames Arena | Interior Lighting | 16 | Referees Room | Locker Room | 0.060146884 | 87.81445045 | 0.056 | 81.76 |
| Ames Arena | Interior Lighting | 17 | Locker Room 2 | Locker Room | 0.120293768 | 175.6289009 | 0.112 | 163.52 |
| Ames Arena | Interior Lighting | 18 | Locker Room 2 Bathroom | Restroom | 0.097057273 | 11.38132076 | 0.134 | 15.2 |
| Ames Arena | Interior Lighting | 19 | Locker Room 1 | Locker Room | 0.090220326 | 131.7216757 | 0.084 | 122.64 |
| Ames Arena | Interior Lighting | 20 | Unisex Restroom 1 | Restroom | 0.030073442 | 65.68039719 | 0.028 | 61.152 |
| Ames Arena | Interior Lighting | 21 | Locker Room 3 & 4 Entry | Hallway | 0.030073442 | 43.90722523 | 0.028 | 40.88 |
| Ames Arena | Interior Lighting | 22 | Locker Room 3 | Locker Room | 0.090220326 | 131.7216757 | 0.084 | 122.64 |
| Ames Arena | Interior Lighting | 23 | Locker Room 4 | Locker Room | 0.120293768 | 175.6289009 | 0.112 | 163.52 |
| Ames Arena | Interior Lighting | 24 | Locker Room 4 Bathroom | Restroom | 0.097057273 | 166.1672831 | 0.134 | 221.92 |
| Ames Arena | Interior Lighting | 25 | Lamp Storage | Storage | 0.030073442 | 7.518360484 | 0.028 | 7 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | 3.231092416 | 13273.32764 | 5.024 | 20638.592 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | -4.931373236 | -20258.08125 | -4.464 | -18338.112 |
| Ames Arena | Interior Lighting | 26 | Rink 1 | Gym | -0.336 | -1380.288 | -0.336 | -1380.288 |
| Ames Arena | Interior Lighting | 27 | Rink 1 | | 1.519986748 | 3319.651058 | 1.404 | 3066.336 |
| Ames Arena | Interior Lighting | 28 | Rink 1 | | 0.216 | 887.328 | 0.216 | 887.328 |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | 0.210514094 | 307.3505766 | 0.196 | 286.16 |
| Ames Arena | Interior Lighting | 29 | Girls Varsity | Locker Room | 0.090220326 | 131.7216757 | 0.084 | 122.64 |
| Ames Arena | Interior Lighting | 30 | Girls Varsity | | 0.15036721 | 321.4680631 | 0.14 | 313.9 |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | 0.030073442 | 43.90722523 | 0.028 | 40.88 |
| Ames Arena | Interior Lighting | 31 | Girls Varsity | | 0.030073442 | 43.90722523 | 0.028 | 40.88 |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | 0.210514094 | 307.3505766 | 0.196 | 286.16 |
| Ames Arena | Interior Lighting | 32 | Boys Varsity | Locker Room | 0.090220326 | 131.7216757 | 0.084 | 122.64 |
| Ames Arena | Interior Lighting | 33 | Boys Varsity | | 0.120293768 | 257.1744505 | 0.112 | 251.12 |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | 0.030073442 | 43.90722523 | 0.028 | 40.88 |
| Ames Arena | Interior Lighting | 34 | Boys Varsity | | 0.030073442 | 43.90722523 | 0.028 | 40.88 |
| Ames Arena | Interior Lighting | 35 | Ice Room Mechanical | Electrical/Mechanical | 0.240587535 | 988.3335958 | 0.224 | 920.192 |
| Ames Arena | Interior Lighting | 36 | Water Heater Room | Electrical/Mechanical | 0.024146884 | 99.19539894 | 0.02 | 82.16 |
| Ames Arena | Interior Lighting | 37 | Electrical Room | Electrical/Mechanical | 0.036220326 | 148.7930984 | 0.03 | 123.24 |
| Ames Arena | Interior Lighting | 38 | Electrical Room | | 0.030073442 | 123.5416995 | 0.028 | 115.024 |
| Ames Arena | Interior Lighting | 39 | Rink 1 Zamboni | Electrical/Mechanical | 0.210514094 | 864.7918963 | 0.196 | 805.168 |
| Ames Arena | Interior Lighting | 40 | Rink 2 Zamboni | Electrical/Mechanical | 0.300734419 | 1235.416995 | 0.28 | 1150.24 |
| Ames Arena | Interior Lighting | 41 | Rink 2 | Gym | 7.583379681 | 31152.52373 | 7.245 | 29762.46 |
| Ames Arena | Interior Lighting | 42 | Locker Room 8 | Locker Room | 0.240587535 | 351.2578018 | 0.224 | 327.04 |
| Ames Arena | Interior Lighting | 43 | Locker Room 7 | Locker Room | 0.180440652 | 263.4433514 | 0.168 | 245.28 |
| Ames Arena | Interior Lighting | 44 | Locker Room 6 | Locker Room | 0.180440652 | 263.4433514 | 0.168 | 245.28 |
| Ames Arena | Interior Lighting | 45 | Locker Room 5 | Locker Room | 0.180440652 | 263.4433514 | 0.168 | 245.28 |
| Ames Arena | Interior Lighting | 46 | Rink 2 Lobby | Lobby | 0.056665206 | 232.7806669 | 0.091 | 373.828 |
| Ames Arena | Interior Lighting | 68 | Rink 2 Lobby | | 0.032380118 | 283.649832 | 0.052 | 455.52 |
| Ames Arena | Interior Lighting | 47 | Rink 2 Mens | Restroom | 0.032380118 | 70.71817729 | 0.052 | 113.568 |
| Ames Arena | Interior Lighting | 48 | Rink 2 Womens | Restroom | 0.032380118 | 70.71817729 | 0.052 | 113.568 |
| Ames Arena | Interior Lighting | 49 | Coaches LR | Locker Room | 0.145585909 | 249.2509246 | 0.201 | 332.88 |
| Ames Arena | Exterior Lighting | 50 | Rink 1 Entry | Exterior | 0 | 0 | 0 | 0 |
| Ames Arena | Exterior Lighting | 51 | Rink 1 Entry | | 0.033 | 144.54 | 0.033 | 144.54 |
| Ames Arena | Exterior Lighting | 52 | Rink 2 Entry | Exterior | 0 | 0 | 0 | 0 |
| Ames Arena | Exterior Lighting | 53 | Rink 2 NW Exit | Exterior | 0 | 0 | 0 | 0 |
| Ames Arena | Exterior Lighting | 54 | Rink 2 North Wall | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 55 | Rink 2 East Wall | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 56 | Rink 2 East Wall | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 57 | Rink 2 East Wall | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 58 | Rink 2 SE Exit | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 59 | Zamboni Exit Door | Exterior | 0 | 0 | 0 | 0 |
| Ames Arena | Exterior Lighting | 60 | Zamboni Overhead Door | Exterior | 0 | 0 | 0 | 0 |
| Ames Arena | Exterior Lighting | 61 | Rink 1 East Exit | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 62 | Rink 1 West Exit | Exterior | 0.218 | 954.84 | 0.218 | 954.84 |
| Ames Arena | Exterior Lighting | 63 | Sidewalk Pole | Exterior | 0.346 | 1515.48 | 0.346 | 1515.48 |
| Ames Arena | Exterior Lighting | 64 | Handicap Parking | Exterior | 0.346 | 1515.48 | 0.346 | 1515.48 |
| Ames Arena | Exterior Lighting | 65 | Main Lot | Exterior | 0.692 | 3030.96 | 0.692 | 3030.96 |
| Ames Arena | Exterior Lighting | 66 | Main Lot | Exterior | 0.692 | 3030.96 | 0.692 | 3030.96 |



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| Location | Area | ID# | Room | Room Type | PRE Qty | High | Low | Average | PRE Fixture | PRE Fixture Description |
|-------------|-------------------|-----|-------------------------------|-----------------------|---------|------|-----|---------|--|-----------------------------------|
| Hasse Arena | Interior Lighting | 1 | Main Entrance | Vestibule | 2 | 0 | 0 | 0 | 1L 19W LEDS-MA23 [0xNULL] | Recessed Can |
| Hasse Arena | Interior Lighting | 2 | Lobby Cans | Lobby | 6 | 0 | 0 | 0 | 1L 12W LED-PL DBL TUBE 4PIN [1xMAG ES] | Recessed Can 7" Can |
| Hasse Arena | Interior Lighting | 3 | Lobby Area | Lobby | 27 | 54 | 24 | 0 | 4L 32W LF4 T8 [1xELE T8 IS NP] | Standard Strip 8' Chain/Cable |
| Hasse Arena | Interior Lighting | 4 | Lobby Area | | 2 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Standard Strip 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 5 | Lobby Area | | 4 | 0 | 0 | 0 | 1L 42W CFN TRPL TUBE 4PIN N-I [1xMAG ES] | Recessed Can 6" |
| Hasse Arena | Interior Lighting | 70 | Lobby Area | | 2 | 0 | 0 | 0 | 4L 32W LF4 T8 [1xELE T8 IS NP] | Standard Strip 8' Chain/Cable |
| Hasse Arena | Interior Lighting | 6 | Concession Stand | Kitchen | 6 | 55 | 6 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 7 | Concession Stand | | 4 | 0 | 0 | 0 | 1L 12W LED-PL DBL TUBE 4PIN [1xMAG ES] | Recessed Can 6" Can |
| Hasse Arena | Interior Lighting | 8 | Arena Office | Office - Open | 5 | 60 | 28 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 9 | Sharpening Room | | 1 | 31 | 15 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 10 | Arena Manager | Office - Private | 4 | 0 | 0 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | 5 | 56 | 16 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | 1 | 56 | 16 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 12 | Mens Mechanical | Electrical/Mechanical | 6 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 13 | Unisex Restroom | Restroom | 1 | 43 | 26 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | 7 | 0 | 0 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | 1 | 0 | 0 | 0 | 3L 32W LF4 T8 [1xELE T8 IS NP] | Lensed Troffer 2x4 Recessed |
| Hasse Arena | Interior Lighting | 15 | Elevator | | 8 | 0 | 0 | 0 | 1L 4W LED-GU MR16 GU 5.3 [0xNULL] | Recessed Can * * |
| Hasse Arena | Interior Lighting | 16 | Elevator Mechanical | Electrical/Mechanical | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 17 | Locker Room Hallway | Hallway | 11 | 13 | 3 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Wall |
| Hasse Arena | Interior Lighting | 18 | Locker Room Hallway | | 7 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Wall |
| Hasse Arena | Interior Lighting | 19 | Meeting Room | Meeting Room | 5 | 32 | 13 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 20 | Meeting Room | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 21 | Team Room 1 | Locker Room | 5 | 27 | 14 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 22 | Team Room 1 | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 23 | Team Room 1 Storage | Storage | 1 | 40 | 10 | 0 | 4L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 8' Surface |
| Hasse Arena | Interior Lighting | 24 | Unisex #2 | Restroom | 1 | 11 | 8 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 25 | Unisex #3 | Restroom | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 26 | Custodial Closet | Maintenance | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 27 | Referee Lockerroom | Locker Room | 2 | 16 | 7 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 28 | Team Room 2 | Locker Room | 5 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 29 | Team Room 2 | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 30 | Team Room 3 | Locker Room | 6 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 31 | Team Room 3 | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 32 | Team Room 4 | Locker Room | 6 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 33 | Team Room 4 | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 34 | Varsity Mens | Locker Room | 12 | 19 | 6 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 35 | Varsity Mens | | 2 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 36 | Varsity Mens Coaches | Locker Room | 3 | 15 | 5 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 37 | Varsity Mens Coaches | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 38 | Chair Storage | Maintenance | 2 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 39 | Varsity Womens Coaches | Locker Room | 3 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 40 | Varsity Womens Coaches | | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 41 | Varsity Womens | Locker Room | 12 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 42 | Varsity Womens | | 2 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Surface |
| Hasse Arena | Interior Lighting | 43 | Large Storage | Storage | 6 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 44 | Glass Storage | Storage | 1 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Surface |
| Hasse Arena | Interior Lighting | 45 | Ice Plant | Electrical/Mechanical | 9 | 23 | 8 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 46 | Ice Plant Electrical | Electrical/Mechanical | 9 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 47 | Ice Resurfacers | Electrical/Mechanical | 12 | 29 | 9 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Economy Industrial 4' Chain/Cable |
| Hasse Arena | Interior Lighting | 48 | Ice Sheet | Gym | 55 | 107 | 67 | 82 | 12L 54W LF4 T5 [4xELE T5 HO] | Highbay 2x8 Chain/Cable |
| Hasse Arena | Interior Lighting | 49 | Upper Concourse | Commons | 9 | 10 | 4 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Wall |
| Hasse Arena | Interior Lighting | 50 | Upper Concourse | | 2 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Standard Strip 4' Surface |
| Hasse Arena | Interior Lighting | 71 | Upper Concourse | | 7 | 0 | 0 | 0 | 2L 32W LF4 T8 [1xELE T8 IS NP] | Wrap 4' Wall |
| Hasse Arena | Exterior Lighting | 51 | Entry Canopy | Exterior | 2 | 0 | 0 | 0 | 1L 19W LEDS-MA23 [0xNULL] | Recessed Can |
| Hasse Arena | Exterior Lighting | 52 | Entry Bollards | Exterior | 10 | 0 | 0 | 0 | 1L 14W LEDS-M HID [0xNULL] | Bollard |
| Hasse Arena | Exterior Lighting | 53 | NE Exit | | 1 | 0 | 0 | 0 | 1L 14W LEDS-M HID [0xNULL] | Wallpack |
| Hasse Arena | Exterior Lighting | 54 | Nw Exit | Exterior | 1 | 0 | 0 | 0 | 1L 14W LEDS-M HID [0xNULL] | Wallpack |
| Hasse Arena | Exterior Lighting | 55 | West Wall | Exterior | 1 | 0 | 0 | 0 | 1L 14W LEDS-M HID [0xNULL] | Wallpack |
| Hasse Arena | Exterior Lighting | 56 | SE Exit | Exterior | 1 | 0 | 0 | 0 | 1L 14W LEDS-M HID [0xNULL] | Wallpack |
| Hasse Arena | Exterior Lighting | 57 | Facade Floods | | 4 | 0 | 0 | 0 | 1L 100W MH MED BASE HID [1xMAG] | Flood |
| Hasse Arena | Exterior Lighting | 58 | Parking Lot South Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 59 | Parking Lot South Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 60 | Parking Lot South Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 61 | Parking Lot South Central Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 62 | Parking Lot South Central Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 63 | Parking Lot South Central Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 64 | Parking Lot North Central Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 65 | Parking Lot North Central Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 66 | Parking Lot North Central Row | Exterior | 2 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 67 | Parking Lot North Row | Exterior | 1 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 68 | Parking Lot North Row | Exterior | 1 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |
| Hasse Arena | Exterior Lighting | 69 | Parking Lot Entrance | Exterior | 1 | 0 | 0 | 0 | 1L 320W MH MOG BASE PULSE HID [1xMAG] | Pole Light |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

| Location | Area | ID# | Room | Room Type | PRE ECM Code | PRE ECM Watts | PRE kW | PRE Watts | PRE kW Total | PRE Burn | PRE kWh |
|-------------|-------------------|-----|-------------------------------|-----------------------|--------------|---------------|--------|-----------|--------------|----------|---------|
| Hasse Arena | Interior Lighting | 1 | Main Entrance | Vestibule | | 19 | 0.019 | 19.000 | 0.038 | 4380 | 166 |
| Hasse Arena | Interior Lighting | 2 | Lobby Cans | Lobby | | 14 | 0.014 | 14.000 | 0.084 | 2054 | 173 |
| Hasse Arena | Interior Lighting | 3 | Lobby Area | Lobby | ECMD | 96.8301495 | 0.110 | 110.000 | 2.97 | 2054 | 6,100 |
| Hasse Arena | Interior Lighting | 4 | Lobby Area | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.116 | 2054 | 238 |
| Hasse Arena | Interior Lighting | 5 | Lobby Area | | | 42 | 0.042 | 42.000 | 0.168 | 2054 | 345 |
| Hasse Arena | Interior Lighting | 70 | Lobby Area | | ECMD | 96.8301495 | 0.110 | 110.000 | 0.22 | 8760 | 1,927 |
| Hasse Arena | Interior Lighting | 6 | Concession Stand | Kitchen | ECMC | 74.4601 | 0.085 | 85.000 | 0.51 | 728 | 371 |
| Hasse Arena | Interior Lighting | 7 | Concession Stand | | | 14 | 0.014 | 14.000 | 0.056 | 728 | 41 |
| Hasse Arena | Interior Lighting | 8 | Arena Office | Office - Open | ECMC | 74.4601 | 0.085 | 85.000 | 0.425 | 2054 | 873 |
| Hasse Arena | Interior Lighting | 9 | Sharpening Room | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 2054 | 119 |
| Hasse Arena | Interior Lighting | 10 | Arena Manager | Office - Private | ECMC | 74.4601 | 0.085 | 85.000 | 0.34 | 2054 | 698 |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | ECMC | 74.4601 | 0.085 | 85.000 | 0.425 | 1460 | 621 |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | ECMC | 74.4601 | 0.085 | 85.000 | 0.085 | 1460 | 124 |
| Hasse Arena | Interior Lighting | 12 | Mens Mechanical | Electrical/Mechanical | ECMA | 48.07253908 | 0.058 | 58.000 | 0.348 | 100 | 35 |
| Hasse Arena | Interior Lighting | 13 | Unisex Restroom | Restroom | ECMC | 74.4601 | 0.085 | 85.000 | 0.085 | 1460 | 124 |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | ECMC | 74.4601 | 0.085 | 85.000 | 0.595 | 1460 | 869 |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | ECMC | 74.4601 | 0.085 | 85.000 | 0.085 | 1460 | 124 |
| Hasse Arena | Interior Lighting | 15 | Elevator | | | 4 | 0.004 | 4.000 | 0.032 | 8760 | 280 |
| Hasse Arena | Interior Lighting | 16 | Elevator Mechanical | Electrical/Mechanical | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 100 | 6 |
| Hasse Arena | Interior Lighting | 17 | Locker Room Hallway | Hallway | ECMA | 48.07253908 | 0.058 | 58.000 | 0.638 | 2054 | 1,310 |
| Hasse Arena | Interior Lighting | 18 | Locker Room Hallway | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.406 | 2054 | 834 |
| Hasse Arena | Interior Lighting | 19 | Meeting Room | Meeting Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.29 | 520 | 151 |
| Hasse Arena | Interior Lighting | 20 | Meeting Room | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 520 | 30 |
| Hasse Arena | Interior Lighting | 21 | Team Room 1 | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.29 | 1040 | 302 |
| Hasse Arena | Interior Lighting | 22 | Team Room 1 | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1040 | 60 |
| Hasse Arena | Interior Lighting | 23 | Team Room 1 Storage | Storage | ECMD | 96.8301495 | 0.110 | 110.000 | 0.11 | 100 | 11 |
| Hasse Arena | Interior Lighting | 24 | Unisex #2 | Restroom | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Hasse Arena | Interior Lighting | 25 | Unisex #3 | Restroom | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1460 | 85 |
| Hasse Arena | Interior Lighting | 26 | Custodial Closet | Maintenance | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 250 | 15 |
| Hasse Arena | Interior Lighting | 27 | Referee Lockerroom | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.116 | 1040 | 121 |
| Hasse Arena | Interior Lighting | 28 | Team Room 2 | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.29 | 1040 | 302 |
| Hasse Arena | Interior Lighting | 29 | Team Room 2 | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1040 | 60 |
| Hasse Arena | Interior Lighting | 30 | Team Room 3 | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.348 | 1040 | 362 |
| Hasse Arena | Interior Lighting | 31 | Team Room 3 | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1040 | 60 |
| Hasse Arena | Interior Lighting | 32 | Team Room 4 | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.348 | 1040 | 362 |
| Hasse Arena | Interior Lighting | 33 | Team Room 4 | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1040 | 60 |
| Hasse Arena | Interior Lighting | 34 | Varsity Mens | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.696 | 1040 | 724 |
| Hasse Arena | Interior Lighting | 35 | Varsity Mens | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.116 | 1040 | 121 |
| Hasse Arena | Interior Lighting | 36 | Varsity Mens Coaches | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.174 | 1040 | 181 |
| Hasse Arena | Interior Lighting | 37 | Varsity Mens Coaches | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1040 | 60 |
| Hasse Arena | Interior Lighting | 38 | Chair Storage | Maintenance | ECMA | 48.07253908 | 0.058 | 58.000 | 0.116 | 250 | 29 |
| Hasse Arena | Interior Lighting | 39 | Varsity Womens Coaches | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.174 | 1040 | 181 |
| Hasse Arena | Interior Lighting | 40 | Varsity Womens Coaches | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 1040 | 60 |
| Hasse Arena | Interior Lighting | 41 | Varsity Womens | Locker Room | ECMA | 48.07253908 | 0.058 | 58.000 | 0.696 | 1040 | 724 |
| Hasse Arena | Interior Lighting | 42 | Varsity Womens | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.116 | 1040 | 121 |
| Hasse Arena | Interior Lighting | 43 | Large Storage | Storage | ECMA | 48.07253908 | 0.058 | 58.000 | 0.348 | 728 | 253 |
| Hasse Arena | Interior Lighting | 44 | Glass Storage | Storage | ECMA | 48.07253908 | 0.058 | 58.000 | 0.058 | 250 | 15 |
| Hasse Arena | Interior Lighting | 45 | Ice Plant | Electrical/Mechanical | ECMA | 48.07253908 | 0.058 | 58.000 | 0.522 | 2054 | 1,072 |
| Hasse Arena | Interior Lighting | 46 | Ice Plant Electrical | Electrical/Mechanical | ECMA | 48.07253908 | 0.058 | 58.000 | 0.522 | 2054 | 1,072 |
| Hasse Arena | Interior Lighting | 47 | Ice Resurfacer | Electrical/Mechanical | ECMA | 48.07253908 | 0.058 | 58.000 | 0.696 | 2054 | 1,430 |
| Hasse Arena | Interior Lighting | 48 | Ice Sheet | Gym | ECMB | 670.4695063 | 0.708 | 708.000 | 38.94 | 1250 | 48,675 |
| Hasse Arena | Interior Lighting | 49 | Upper Concourse | Commons | ECMA | 48.07253908 | 0.058 | 58.000 | 0.522 | 2054 | 1,072 |
| Hasse Arena | Interior Lighting | 50 | Upper Concourse | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.116 | 2054 | 238 |
| Hasse Arena | Interior Lighting | 71 | Upper Concourse | | ECMA | 48.07253908 | 0.058 | 58.000 | 0.406 | 2920 | 1,186 |
| Hasse Arena | Exterior Lighting | 51 | Entry Canopy | Exterior | | 19 | 0.019 | 19.000 | 0.038 | 4380 | 166 |
| Hasse Arena | Exterior Lighting | 52 | Entry Bollards | Exterior | | 14 | 0.014 | 14.000 | 0.14 | 4380 | 613 |
| Hasse Arena | Exterior Lighting | 53 | NE Exit | | | 14 | 0.014 | 14.000 | 0.014 | 4380 | 61 |
| Hasse Arena | Exterior Lighting | 54 | Nw Exit | Exterior | | 14 | 0.014 | 14.000 | 0.014 | 4380 | 61 |
| Hasse Arena | Exterior Lighting | 55 | West Wall | Exterior | | 14 | 0.014 | 14.000 | 0.014 | 4380 | 61 |
| Hasse Arena | Exterior Lighting | 56 | SE Exit | Exterior | | 14 | 0.014 | 14.000 | 0.014 | 4380 | 61 |
| Hasse Arena | Exterior Lighting | 57 | Facade Floods | | | 125 | 0.125 | 125.000 | 0.5 | 4380 | 2,190 |
| Hasse Arena | Exterior Lighting | 58 | Parking Lot South Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 59 | Parking Lot South Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 60 | Parking Lot South Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 61 | Parking Lot South Central Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 62 | Parking Lot South Central Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 63 | Parking Lot South Central Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 64 | Parking Lot North Central Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 65 | Parking Lot North Central Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 66 | Parking Lot North Central Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.684 | 4380 | 2,996 |
| Hasse Arena | Exterior Lighting | 67 | Parking Lot North Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.342 | 4380 | 1,498 |
| Hasse Arena | Exterior Lighting | 68 | Parking Lot North Row | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.342 | 4380 | 1,498 |
| Hasse Arena | Exterior Lighting | 69 | Parking Lot Entrance | Exterior | ECME | 300.627785 | 0.342 | 342.000 | 0.342 | 4380 | 1,498 |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

| Location | Area | ID# | Room | Room Type | Action | POST Qty | Proposed Solution | POST Description |
|-------------|-------------------|-----|-------------------------------|-----------------------|------------|----------|---|--|
| Hasse Arena | Interior Lighting | 1 | Main Entrance | Vestibule | Do Nothing | 2 | Do Nothing | Do Nothing |
| Hasse Arena | Interior Lighting | 2 | Lobby Cans | Lobby | Retrofit | 6 | GE-LRX-R6-8.5W-40 | 8.5W LED 6" Commercial Recessed Can Retrofit 4000K - Selectable Output Driver (8.5W/13W) |
| Hasse Arena | Interior Lighting | 3 | Lobby Area | Lobby | Retrofit | 27 | ESI-K18UN-64W-40K-FR | 64W LED 8' Universal Linear Retrofit Kit 4000K - Includes Frosted Lens |
| Hasse Arena | Interior Lighting | 4 | Lobby Area | | Retrofit | 2 | ESI-K14UN-32W-40K-FR | 32W LED 4' Universal Linear Retrofit Kit 4000K - Includes Frosted Lens |
| Hasse Arena | Interior Lighting | 5 | Lobby Area | | Retrofit | 4 | GE-LRX-R6-8.5W-40 | 8.5W LED 6" Commercial Recessed Can Retrofit 4000K - Selectable Output Driver (8.5W/13W) |
| Hasse Arena | Interior Lighting | 70 | Lobby Area | | Retrofit | 2 | ESI-K18UN-64W-40K-FR | 64W LED 8' Universal Linear Retrofit Kit 4000K - Includes Frosted Lens |
| Hasse Arena | Interior Lighting | 6 | Concession Stand | Kitchen | Retrofit | 6 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 7 | Concession Stand | | Retrofit | 4 | GE-LRX-R6-8.5W-40 | 8.5W LED 6" Commercial Recessed Can Retrofit 4000K - Selectable Output Driver (8.5W/13W) |
| Hasse Arena | Interior Lighting | 8 | Arena Office | Office - Open | Retrofit | 5 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 9 | Sharpening Room | | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 10 | Arena Manager | Office - Private | Retrofit | 4 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | Retrofit | 5 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | Retrofit | 1 | ESPEN-348-15W-40-DE-EM | Retrofit Fixture w/ (3) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 12 | Mens Mechanical | Electrical/Mechanical | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 13 | Unisex Restroom | Restroom | Retrofit | 1 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | Retrofit | 7 | ESPEN-348-15W-40-DE | Retrofit Fixture w/ (3) 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | Retrofit | 1 | ESPEN-348-15W-40-DE-EM | Retrofit Fixture w/ (3) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 15 | Elevator | | Do Nothing | 8 | Do Nothing | Do Nothing |
| Hasse Arena | Interior Lighting | 16 | Elevator Mechanical | Electrical/Mechanical | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 17 | Locker Room Hallway | Hallway | Retrofit | 11 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 18 | Locker Room Hallway | | Retrofit | 7 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 19 | Meeting Room | Meeting Room | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 20 | Meeting Room | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 21 | Team Room 1 | Locker Room | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 22 | Team Room 1 | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 23 | Team Room 1 Storage | Storage | Retrofit | 1 | ESPEN-448-15W-40-DE | Retrofit Fixture w/ (4) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 24 | Unisex #2 | Restroom | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 25 | Unisex #3 | Restroom | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 26 | Custodial Closet | Maintenance | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 27 | Referee Lockerroom | Locker Room | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 28 | Team Room 2 | Locker Room | Retrofit | 5 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 29 | Team Room 2 | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 30 | Team Room 3 | Locker Room | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 31 | Team Room 3 | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 32 | Team Room 4 | Locker Room | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 33 | Team Room 4 | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 34 | Varsity Mens | Locker Room | Retrofit | 12 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 35 | Varsity Mens | | Retrofit | 2 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 36 | Varsity Mens Coaches | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 37 | Varsity Mens Coaches | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 38 | Chair Storage | Maintenance | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 39 | Varsity Womens Coaches | Locker Room | Retrofit | 3 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 40 | Varsity Womens Coaches | | Retrofit | 1 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 41 | Varsity Womens | Locker Room | Retrofit | 12 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 42 | Varsity Womens | | Retrofit | 2 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Interior Lighting | 43 | Large Storage | Storage | Retrofit | 6 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 44 | Glass Storage | Storage | Retrofit | 1 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 45 | Ice Plant | Electrical/Mechanical | Retrofit | 9 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 46 | Ice Plant Electrical | Electrical/Mechanical | Retrofit | 9 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 47 | Ice Resurfacers | Electrical/Mechanical | Retrofit | 12 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 48 | Ice Sheet | Gym | Replace | 55 | LITHONIA-IBG-284W-50K-AFL-GND-RIO-WGX-DWH | 284W IBG LED High Bay Fixture, 5000K, 48000 Nominal Lumens, Standard Efficiency, Acrylic Frosted Lens, General Distribution, and White Finish - Includes Wire Guard and nLight AIR (wireless) Gen 2 Control Device |
| Hasse Arena | Interior Lighting | 49 | Upper Concourse | Commons | Retrofit | 9 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 50 | Upper Concourse | | Retrofit | 2 | ESPEN-248-15W-40-DE | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K |
| Hasse Arena | Interior Lighting | 71 | Upper Concourse | | Retrofit | 7 | ESPEN-248-15W-40-DE-EM | Retrofit Fixture w/ (2) x 15W 4' LED Type 'B' Double-Ended T8 Lamps 4000K - Includes 5W Emergency Battery Back up Inverter |
| Hasse Arena | Exterior Lighting | 51 | Entry Canopy | Exterior | Do Nothing | 2 | Do Nothing | Do Nothing |
| Hasse Arena | Exterior Lighting | 52 | Entry Bollards | Exterior | Do Nothing | 10 | Do Nothing | Do Nothing |
| Hasse Arena | Exterior Lighting | 53 | NE Exit | | Do Nothing | 1 | Do Nothing | Do Nothing |
| Hasse Arena | Exterior Lighting | 54 | Nw Exit | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Hasse Arena | Exterior Lighting | 55 | West Wall | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Hasse Arena | Exterior Lighting | 56 | SE Exit | Exterior | Do Nothing | 1 | Do Nothing | Do Nothing |
| Hasse Arena | Exterior Lighting | 57 | Facade Floods | | Replace | 4 | LITHONIA-DSXF1-21W-40K-WFL-THK-DDBXD | 21W LED D-Series Size 1 LED Flood Luminaire, 4000K, Wide Flood Optics, Knuckle-Mount (1/2" NPS Threaded), and Dark Bronze Finish |
| Hasse Arena | Exterior Lighting | 58 | Parking Lot South Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 59 | Parking Lot South Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 60 | Parking Lot South Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 61 | Parking Lot South Central Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 62 | Parking Lot South Central Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 63 | Parking Lot South Central Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 64 | Parking Lot North Central Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 65 | Parking Lot North Central Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 66 | Parking Lot North Central Row | Exterior | Replace | 2 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 67 | Parking Lot North Row | Exterior | Replace | 1 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 68 | Parking Lot North Row | Exterior | Replace | 1 | LITHONIA-RSX2-111W-40K-R5-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 5-Wide Optics, 120-277V, and White Finish - Includes Square Pole Mounting |
| Hasse Arena | Exterior Lighting | 69 | Parking Lot Entrance | Exterior | Replace | 1 | LITHONIA-RSX2-111W-40K-R3-MVOLT-SPA-DWHXD | 111W RSX2 LED Area Luminaire, 4000K, Type 3 Optics, 120-277V, and White Finish - Includes Square Pole Mounting |



CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT

| Location | Area | ID# | Room | Room Type | Control | Control Hrs Saved | POST ECM Code | POST ECM Watts | POST kW | POST Watts/fix | POST kWh |
|-------------|-------------------|-----|-------------------------------|-----------------------|------------------------------|-------------------|---------------|----------------|---------|----------------|-----------|
| Hasse Arena | Interior Lighting | 1 | Main Entrance | Vestibule | | 0 | 19 | | 0.038 | 19.00 | 166.44 |
| Hasse Arena | Interior Lighting | 2 | Lobby Cans | Lobby | | 0 | 8.5 | | 0.051 | 8.50 | 104.75 |
| Hasse Arena | Interior Lighting | 3 | Lobby Area | Lobby | | 0 | 64 | | 1.728 | 64.00 | 3,549.31 |
| Hasse Arena | Interior Lighting | 4 | Lobby Area | | | 0 | 32 | | 0.064 | 32.00 | 131.46 |
| Hasse Arena | Interior Lighting | 5 | Lobby Area | | | 0 | 8.5 | | 0.034 | 8.50 | 69.84 |
| Hasse Arena | Interior Lighting | 70 | Lobby Area | | | 0 | 64 | | 0.128 | 64.00 | 1,121.28 |
| Hasse Arena | Interior Lighting | 6 | Concession Stand | Kitchen | | 0 | ECMC (Post) | 40.68094333 | 0.270 | 45.00 | 196.56 |
| Hasse Arena | Interior Lighting | 7 | Concession Stand | | | 0 | | 8.5 | 0.034 | 8.50 | 24.75 |
| Hasse Arena | Interior Lighting | 8 | Arena Office | Office - Open | | 0 | ECMC (Post) | 40.68094333 | 0.225 | 45.00 | 462.15 |
| Hasse Arena | Interior Lighting | 9 | Sharpening Room | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 61.62 |
| Hasse Arena | Interior Lighting | 10 | Arena Manager | Office - Private | | 0 | ECMC (Post) | 40.68094333 | 0.180 | 45.00 | 369.72 |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | | 0 | ECMC (Post) | 40.68094333 | 0.225 | 45.00 | 328.50 |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | | 0 | ECMC (Post) | 40.68094333 | 0.045 | 45.00 | 65.70 |
| Hasse Arena | Interior Lighting | 12 | Mens Mechanical | Electrical/Mechanical | | 0 | ECMA (Post) | 28.18975454 | 0.180 | 30.00 | 18.00 |
| Hasse Arena | Interior Lighting | 13 | Unisex Restroom | Restroom | | 0 | ECMC (Post) | 40.68094333 | 0.045 | 45.00 | 65.70 |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | | 0 | ECMC (Post) | 40.68094333 | 0.315 | 45.00 | 459.90 |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | | 0 | ECMC (Post) | 40.68094333 | 0.045 | 45.00 | 65.70 |
| Hasse Arena | Interior Lighting | 15 | Elevator | | | 0 | | 4 | 0.032 | 4.00 | 280.32 |
| Hasse Arena | Interior Lighting | 16 | Elevator Mechanical | Electrical/Mechanical | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 3.00 |
| Hasse Arena | Interior Lighting | 17 | Locker Room Hallway | Hallway | | 0 | ECMA (Post) | 28.18975454 | 0.330 | 30.00 | 677.82 |
| Hasse Arena | Interior Lighting | 18 | Locker Room Hallway | | | 0 | ECMA (Post) | 28.18975454 | 0.210 | 30.00 | 431.34 |
| Hasse Arena | Interior Lighting | 19 | Meeting Room | Meeting Room | | 0 | ECMA (Post) | 28.18975454 | 0.150 | 30.00 | 78.00 |
| Hasse Arena | Interior Lighting | 20 | Meeting Room | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 15.60 |
| Hasse Arena | Interior Lighting | 21 | Team Room 1 | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.150 | 30.00 | 156.00 |
| Hasse Arena | Interior Lighting | 22 | Team Room 1 | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 31.20 |
| Hasse Arena | Interior Lighting | 23 | Team Room 1 Storage | Storage | | 0 | ECMD (Post) | 55.876692 | 0.060 | 60.00 | 6.00 |
| Hasse Arena | Interior Lighting | 24 | Unisex #2 | Restroom | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 43.80 |
| Hasse Arena | Interior Lighting | 25 | Unisex #3 | Restroom | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 43.80 |
| Hasse Arena | Interior Lighting | 26 | Custodial Closet | Maintenance | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 7.50 |
| Hasse Arena | Interior Lighting | 27 | Referee Lockerroom | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.060 | 30.00 | 62.40 |
| Hasse Arena | Interior Lighting | 28 | Team Room 2 | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.150 | 30.00 | 156.00 |
| Hasse Arena | Interior Lighting | 29 | Team Room 2 | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 31.20 |
| Hasse Arena | Interior Lighting | 30 | Team Room 3 | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.180 | 30.00 | 187.20 |
| Hasse Arena | Interior Lighting | 31 | Team Room 3 | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 31.20 |
| Hasse Arena | Interior Lighting | 32 | Team Room 4 | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.180 | 30.00 | 187.20 |
| Hasse Arena | Interior Lighting | 33 | Team Room 4 | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 31.20 |
| Hasse Arena | Interior Lighting | 34 | Varsity Mens | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.360 | 30.00 | 374.40 |
| Hasse Arena | Interior Lighting | 35 | Varsity Mens | | | 0 | ECMA (Post) | 28.18975454 | 0.060 | 30.00 | 62.40 |
| Hasse Arena | Interior Lighting | 36 | Varsity Mens Coaches | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.090 | 30.00 | 93.60 |
| Hasse Arena | Interior Lighting | 37 | Varsity Mens Coaches | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 31.20 |
| Hasse Arena | Interior Lighting | 38 | Chair Storage | Maintenance | | 0 | ECMA (Post) | 28.18975454 | 0.060 | 30.00 | 15.00 |
| Hasse Arena | Interior Lighting | 39 | Varsity Womens Coaches | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.090 | 30.00 | 93.60 |
| Hasse Arena | Interior Lighting | 40 | Varsity Womens Coaches | | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 31.20 |
| Hasse Arena | Interior Lighting | 41 | Varsity Womens | Locker Room | | 0 | ECMA (Post) | 28.18975454 | 0.360 | 30.00 | 374.40 |
| Hasse Arena | Interior Lighting | 42 | Varsity Womens | | | 0 | ECMA (Post) | 28.18975454 | 0.060 | 30.00 | 62.40 |
| Hasse Arena | Interior Lighting | 43 | Large Storage | Storage | | 0 | ECMA (Post) | 28.18975454 | 0.180 | 30.00 | 131.04 |
| Hasse Arena | Interior Lighting | 44 | Glass Storage | Storage | | 0 | ECMA (Post) | 28.18975454 | 0.030 | 30.00 | 7.50 |
| Hasse Arena | Interior Lighting | 45 | Ice Plant | Electrical/Mechanical | | 0 | ECMA (Post) | 28.18975454 | 0.270 | 30.00 | 554.58 |
| Hasse Arena | Interior Lighting | 46 | Ice Plant Electrical | Electrical/Mechanical | | 0 | ECMA (Post) | 28.18975454 | 0.270 | 30.00 | 554.58 |
| Hasse Arena | Interior Lighting | 47 | Ice Resurfacers | Electrical/Mechanical | | 0 | ECMA (Post) | 28.18975454 | 0.360 | 30.00 | 739.44 |
| Hasse Arena | Interior Lighting | 48 | Ice Sheet | Gym | NLIGHT-RPODB-4S-DX-WH-G2 (2) | 0 | ECMB (Post) | 285.4278664 | 15.620 | 284.00 | 19,525.00 |
| Hasse Arena | Interior Lighting | 49 | Upper Concourse | Commons | | 0 | ECMA (Post) | 28.18975454 | 0.270 | 30.00 | 554.58 |
| Hasse Arena | Interior Lighting | 50 | Upper Concourse | | | 0 | ECMA (Post) | 28.18975454 | 0.060 | 30.00 | 123.24 |
| Hasse Arena | Interior Lighting | 71 | Upper Concourse | | | 0 | ECMA (Post) | 28.18975454 | 0.210 | 30.00 | 613.20 |
| Hasse Arena | Exterior Lighting | 51 | Entry Canopy | Exterior | | 0 | | 19 | 0.038 | 19.00 | 166.44 |
| Hasse Arena | Exterior Lighting | 52 | Entry Bollards | Exterior | | 0 | | 14 | 0.140 | 14.00 | 613.20 |
| Hasse Arena | Exterior Lighting | 53 | NE Exit | | | 0 | | 14 | 0.014 | 14.00 | 61.32 |
| Hasse Arena | Exterior Lighting | 54 | Nw Exit | Exterior | | 0 | | 14 | 0.014 | 14.00 | 61.32 |
| Hasse Arena | Exterior Lighting | 55 | West Wall | Exterior | | 0 | | 14 | 0.014 | 14.00 | 61.32 |
| Hasse Arena | Exterior Lighting | 56 | SE Exit | Exterior | | 0 | | 14 | 0.014 | 14.00 | 61.32 |
| Hasse Arena | Exterior Lighting | 57 | Facade Floods | | | 0 | | 21 | 0.084 | 21.00 | 367.92 |
| Hasse Arena | Exterior Lighting | 58 | Parking Lot South Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 59 | Parking Lot South Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 60 | Parking Lot South Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 61 | Parking Lot South Central Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 62 | Parking Lot South Central Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 63 | Parking Lot South Central Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 64 | Parking Lot North Central Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 65 | Parking Lot North Central Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 66 | Parking Lot North Central Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.222 | 111.00 | 972.36 |
| Hasse Arena | Exterior Lighting | 67 | Parking Lot North Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.111 | 111.00 | 486.18 |
| Hasse Arena | Exterior Lighting | 68 | Parking Lot North Row | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.111 | 111.00 | 486.18 |
| Hasse Arena | Exterior Lighting | 69 | Parking Lot Entrance | Exterior | | 0 | ECME (Post) | 112.4910436 | 0.111 | 111.00 | 486.18 |



**CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT**

| Location | Area | ID# | Room | Room Type | kW Saved Actual | kWh Saved Actual | kW Saved Proposed | kWh Saved Proposed |
|-------------|-------------------|-----|-------------------------------|-----------------------|-----------------|------------------|-------------------|--------------------|
| Hasse Arena | Interior Lighting | 1 | Main Entrance | Vestibule | 0 | 0 | 0 | 0 |
| Hasse Arena | Interior Lighting | 2 | Lobby Cans | Lobby | 0.033 | 67.782 | 0.033 | 67.782 |
| Hasse Arena | Interior Lighting | 3 | Lobby Area | Lobby | 0.886414037 | 1820.694431 | 1.242 | 2551.068 |
| Hasse Arena | Interior Lighting | 4 | Lobby Area | | 0.032145078 | 66.02599053 | 0.052 | 106.808 |
| Hasse Arena | Interior Lighting | 5 | Lobby Area | | 0.134 | 275.236 | 0.134 | 275.236 |
| Hasse Arena | Interior Lighting | 70 | Lobby Area | | 0.065660299 | 575.1842192 | 0.092 | 805.92 |
| Hasse Arena | Interior Lighting | 6 | Concession Stand | Kitchen | 0.20267494 | 147.5473563 | 0.24 | 174.72 |
| Hasse Arena | Interior Lighting | 7 | Concession Stand | | 0.022 | 16.016 | 0.022 | 16.016 |
| Hasse Arena | Interior Lighting | 8 | Arena Office | Office - Open | 0.168895783 | 346.911939 | 0.2 | 410.8 |
| Hasse Arena | Interior Lighting | 9 | Sharpening Room | | 0.019882785 | 40.83923944 | 0.028 | 57.512 |
| Hasse Arena | Interior Lighting | 10 | Arena Manager | Office - Private | 0.135116627 | 277.5295512 | 0.16 | 328.64 |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | 0.168895783 | 246.5878437 | 0.2 | 292 |
| Hasse Arena | Interior Lighting | 11 | Lobby Mens | Restroom | 0.033779157 | 49.31756873 | 0.04 | 58.4 |
| Hasse Arena | Interior Lighting | 12 | Mens Mechanical | Electrical/Mechanical | 0.119296707 | 11.92967072 | 0.168 | 16.8 |
| Hasse Arena | Interior Lighting | 13 | Unisex Restroom | Restroom | 0.033779157 | 49.31756873 | 0.04 | 58.4 |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | 0.236454097 | 345.2229811 | 0.28 | 408.8 |
| Hasse Arena | Interior Lighting | 14 | Lobby Womens | Restroom | 0.033779157 | 49.31756873 | 0.04 | 58.4 |
| Hasse Arena | Interior Lighting | 15 | Elevator | | 0 | 0 | 0 | 0 |
| Hasse Arena | Interior Lighting | 16 | Elevator Mechanical | Electrical/Mechanical | 0.019882785 | 1.988278454 | 0.028 | 2.8 |
| Hasse Arena | Interior Lighting | 17 | Locker Room Hallway | Hallway | 0.21871063 | 449.2316339 | 0.308 | 632.632 |
| Hasse Arena | Interior Lighting | 18 | Locker Room Hallway | | 0.139179492 | 285.8746761 | 0.196 | 402.584 |
| Hasse Arena | Interior Lighting | 19 | Meeting Room | Meeting Room | 0.099413923 | 51.6952398 | 0.14 | 72.8 |
| Hasse Arena | Interior Lighting | 20 | Meeting Room | | 0.019882785 | 10.33904796 | 0.028 | 14.56 |
| Hasse Arena | Interior Lighting | 21 | Team Room 1 | Locker Room | 0.099413923 | 103.3904796 | 0.14 | 145.6 |
| Hasse Arena | Interior Lighting | 22 | Team Room 1 | | 0.019882785 | 20.67809592 | 0.028 | 29.12 |
| Hasse Arena | Interior Lighting | 23 | Team Room 1 Storage | Storage | 0.040953458 | 4.09534575 | 0.05 | 5 |
| Hasse Arena | Interior Lighting | 24 | Unisex #2 | Restroom | 0.019882785 | 29.02886543 | 0.028 | 40.88 |
| Hasse Arena | Interior Lighting | 25 | Unisex #3 | Restroom | 0.019882785 | 29.02886543 | 0.028 | 40.88 |
| Hasse Arena | Interior Lighting | 26 | Custodial Closet | Maintenance | 0.019882785 | 4.970696135 | 0.028 | 7 |
| Hasse Arena | Interior Lighting | 27 | Referee Lockerroom | Locker Room | 0.039765569 | 41.35619184 | 0.056 | 58.24 |
| Hasse Arena | Interior Lighting | 28 | Team Room 2 | Locker Room | 0.099413923 | 103.3904796 | 0.14 | 145.6 |
| Hasse Arena | Interior Lighting | 29 | Team Room 2 | | 0.019882785 | 20.67809592 | 0.028 | 29.12 |
| Hasse Arena | Interior Lighting | 30 | Team Room 3 | Locker Room | 0.119296707 | 124.0685755 | 0.168 | 174.72 |
| Hasse Arena | Interior Lighting | 31 | Team Room 3 | | 0.019882785 | 20.67809592 | 0.028 | 29.12 |
| Hasse Arena | Interior Lighting | 32 | Team Room 4 | Locker Room | 0.119296707 | 124.0685755 | 0.168 | 174.72 |
| Hasse Arena | Interior Lighting | 33 | Team Room 4 | | 0.019882785 | 20.67809592 | 0.028 | 29.12 |
| Hasse Arena | Interior Lighting | 34 | Varsity Mens | Locker Room | 0.238593414 | 248.137151 | 0.336 | 349.44 |
| Hasse Arena | Interior Lighting | 35 | Varsity Mens | | 0.039765569 | 41.35619184 | 0.056 | 58.24 |
| Hasse Arena | Interior Lighting | 36 | Varsity Mens Coaches | Locker Room | 0.059648354 | 62.03428776 | 0.084 | 87.36 |
| Hasse Arena | Interior Lighting | 37 | Varsity Mens Coaches | | 0.019882785 | 20.67809592 | 0.028 | 29.12 |
| Hasse Arena | Interior Lighting | 38 | Chair Storage | Maintenance | 0.039765569 | 9.941392269 | 0.056 | 14 |
| Hasse Arena | Interior Lighting | 39 | Varsity Womens Coaches | Locker Room | 0.059648354 | 62.03428776 | 0.084 | 87.36 |
| Hasse Arena | Interior Lighting | 40 | Varsity Womens Coaches | | 0.019882785 | 20.67809592 | 0.028 | 29.12 |
| Hasse Arena | Interior Lighting | 41 | Varsity Womens | Locker Room | 0.238593414 | 248.137151 | 0.336 | 349.44 |
| Hasse Arena | Interior Lighting | 42 | Varsity Womens | | 0.039765569 | 41.35619184 | 0.056 | 58.24 |
| Hasse Arena | Interior Lighting | 43 | Large Storage | Storage | 0.119296707 | 86.84800286 | 0.168 | 122.304 |
| Hasse Arena | Interior Lighting | 44 | Glass Storage | Storage | 0.019882785 | 4.970696135 | 0.028 | 7 |
| Hasse Arena | Interior Lighting | 45 | Ice Plant | Electrical/Mechanical | 0.178945061 | 367.553155 | 0.252 | 517.608 |
| Hasse Arena | Interior Lighting | 46 | Ice Plant Electrical | Electrical/Mechanical | 0.178945061 | 367.553155 | 0.252 | 517.608 |
| Hasse Arena | Interior Lighting | 47 | Ice Resurfacers | Electrical/Mechanical | 0.238593414 | 490.0708733 | 0.336 | 690.144 |
| Hasse Arena | Interior Lighting | 48 | Ice Sheet | Gym | 21.17729019 | 26471.61274 | 23.32 | 29150 |
| Hasse Arena | Interior Lighting | 49 | Upper Concourse | Commons | 0.178945061 | 367.553155 | 0.252 | 517.608 |
| Hasse Arena | Interior Lighting | 50 | Upper Concourse | | 0.039765569 | 81.67847888 | 0.056 | 115.024 |
| Hasse Arena | Interior Lighting | 71 | Upper Concourse | | 0.139179492 | 406.404116 | 0.196 | 572.32 |
| Hasse Arena | Exterior Lighting | 51 | Entry Canopy | Exterior | 0 | 0 | 0 | 0 |
| Hasse Arena | Exterior Lighting | 52 | Entry Bollards | Exterior | -2.84217E-17 | 0 | -2.84217E-17 | 0 |
| Hasse Arena | Exterior Lighting | 53 | NE Exit | | 0 | 0 | 0 | 0 |
| Hasse Arena | Exterior Lighting | 54 | Nw Exit | Exterior | 0 | 0 | 0 | 0 |
| Hasse Arena | Exterior Lighting | 55 | West Wall | Exterior | 0 | 0 | 0 | 0 |
| Hasse Arena | Exterior Lighting | 56 | SE Exit | Exterior | 0 | 0 | 0 | 0 |
| Hasse Arena | Exterior Lighting | 57 | Facade Floods | | 0.416 | 1822.08 | 0.416 | 1822.08 |
| Hasse Arena | Exterior Lighting | 58 | Parking Lot South Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 59 | Parking Lot South Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 60 | Parking Lot South Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 61 | Parking Lot South Central Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 62 | Parking Lot South Central Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 63 | Parking Lot South Central Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 64 | Parking Lot North Central Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 65 | Parking Lot North Central Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 66 | Parking Lot North Central Row | Exterior | 0.376273483 | 1648.077855 | 0.462 | 2023.56 |
| Hasse Arena | Exterior Lighting | 67 | Parking Lot North Row | Exterior | 0.188136741 | 824.0389275 | 0.231 | 1011.78 |
| Hasse Arena | Exterior Lighting | 68 | Parking Lot North Row | Exterior | 0.188136741 | 824.0389275 | 0.231 | 1011.78 |
| Hasse Arena | Exterior Lighting | 69 | Parking Lot Entrance | Exterior | 0.188136741 | 824.0389275 | 0.231 | 1011.78 |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Exhibit 2: Building Envelope Data

| | | | |
|---|-------------------|---|--|
| BLDG # - 1 | | | |
| Building Envelope Solutions Calculations. | | Customer | City of Lakeville |
| Ames Arena | | Revision B | |
| 19900 Ipava Ave | | | |
| AIR LEAKAGE: | Feet | Gap | Sq. Ft. |
| Roof / Wall Joint to be Sealed with 2 | 450 | 3/32 | 3.52 sq ft |
| Roof / Wall Joint to be Sealed with 1 | 1260 | 3/32 | 9.84 sq ft |
| Ext. Door(s) to be weather-stripped & | 620 | 1/16 | 3.23 sq ft |
| Int. Door(s) to be weather-stripped & | 440 | 1/16 | 2.29 sq ft |
| Over-head Door(s) to be sealed on e | 44 | 1/8 | 0.46 sq ft |
| Expansion joints to be ground out ar | 1930 | 1/64 | 2.51 sq ft |
| Total | | | 21.85 sq ft 2.03 sq meter |
| Values, Constants, Assumptions. | | | |
| Electrical rates | \$0.042 per kwh | 0% | % of building using electric heat or heat pump |
| Natural Gas Rate | \$0.662 per therm | 100% | % of building using Natural Gas |
| Propane Fuel Rate | \$0.000 per therm | 0% | % of building using Propane |
| Fuel Oil Rates | \$0.000 per therm | 0% | % of building using Fuel Oil |
| Building K | 130 | K is a factor determining building style, ranging from 100 to 150. | |
| Total HDD (F) | 8,196.3 | Low K is very efficient with central mass, high K is open ware house or many wings. | |
| Total CDD (C) | 1,380.6 | | |
| Bldg uses Heat Pump | N/A | | |
| % of building cooled | 85% | | |
| % mechanical EFF. | 80% | This factor is the anticipated variation of a mechanical efficiency of 80% | |
| COP | 2.50 | Coefficient of Performance for Air Conditioning or Geo-Thermal. | |
| Calculations | | | |
| Non-Electric Heat Loss = ((Bldg Leakage sq mtrs) x (bldg k factor) x (Wind P Factor) x (HDD) x (9/5) x 0.075 x .243 x 60 x 24) / (100,000) | | | |
| Electrical Heating Loss = ((Bldg Leakage sq mtrs) x (bldg k factor) x (Wind P Factor) x (HDD) x (.075 x .243 x 60 x 24) x (conversion to kwh) | | | |
| Cooling Loss = ((Bldg Leakage sq mtrs) x (bldg k factor) x (Wind P Factor) x (CDD) x (.075 x .243 x 60 x 24) x (conversion to kwh) | | | |
| Annual Cost of Leakage: | 9235.6 | Therms | |
| Annual Cost of Leakage: | 10748.1 | Kwh | |
| Annual Cost of Leakage total: | \$6,569.37 | | |
| Simple Payback: | 0.00 | Years | |
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CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

| | | | |
|--|-------------|---|---|
| BLDG # - 9 | | | |
| Building Envelope Solutions Calculations. | | Customer | City of Lakeville |
| Hasse Arena 8525 215th St W | | Revision B | |
| AIR LEAKAGE: | Feet | Gap | Sq. Ft. |
| Over-head Door(s) to be sealed on 4 | 48 | 3/32 | 0.38 sq ft |
| Roof / Wall Joint to be Sealed with 1 | 270 | 1/16 | 1.41 sq ft |
| Int. Door(s) to be weather-stripped & | 420 | 1/16 | 2.19 sq ft |
| Ext. Door(s) to be weather-stripped 8 | 280 | 1/16 | 1.46 sq ft |
| Ext. Door(s) to be weather-stripped 8 | 40 | 1/16 | 0.21 sq ft |
| Total | | 5.64 sq ft | 0.52 sq meter |
| Values, Constants, Assumptions. | | | |
| Electrical rates | \$0.067 | per kwh | 0% % of building using electric heat or heat pump |
| Natural Gas Rate | \$0.661 | per therm | 100% % of building using Natural Gas |
| Propane Fuel Rate | \$0.000 | per therm | 0% % of building using Propane |
| Fuel Oil Rates | \$0.000 | per therm | 0% % of building using Fuel Oil |
| Building K | 140 | K is a factor determining building style, ranging from 100 to 150. Low K is very efficient with central mass, high K is open ware house or many wings. | |
| Total HDD (F) | 8,469.3 | | |
| Total CDD (C) | 1,304.1 | | |
| Bldg uses Heat Pump | N/A | | |
| % of building cooled | 85% | | |
| % mechanical EFF. | 80% | This factor is the anticipated variation of a mechanical efficiency of 80%. Coefficient of Performance for Air Conditioning or Geo-Thermal. | |
| COP | 2.50 | | |
| Calculations | | | |
| $\text{Non-Electric Heat Loss} = (\text{Bldg Leakage sq mtrs}) \times (\text{bldg k factor}) \times (\text{Wind P Factor}) \times (\text{HDD}) \times (9/5) \times 0.075 \times .243 \times 60 \times 24 / (100,000 \times \dots)$ | | | |
| $\text{Electrical Heating Loss} = ((\text{Bldg Leakage sq mtrs}) \times (\text{bldg k factor}) \times (\text{Wind P Factor}) \times (\text{HDD}) \times (.075 \times .243 \times 60 \times 24) \times (\text{conversion to kw})$ | | | |
| $\text{Cooling Loss} = ((\text{Bldg Leakage sq mtrs}) \times (\text{bldg k factor}) \times (\text{Wind P Factor}) \times (\text{CDD}) \times (.075 \times .243 \times 60 \times 24) \times (\text{conversion to kwh})$ | | | |
| Annual Cost of Leakage: | 2721.9 | Therms | |
| Annual Cost of Leakage: | 2881.2 | Kwh | |
| Annual Cost of Leakage total: | \$1,993.19 | | |
| Simple Payback: | 0.00 | Years | |
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CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT

Exhibit 3: Water Conservation Data

Ames Arena

| Water/Sewer Consumption | | | | | | | | | | | |
|---|---------------------|-------------------|--------------------|--|---|----------------------------------|-----------------------------------|-------------------------|--------------------|-----------------------------|--------------------|
| Fixture Type and Volume | | | | Utilization | | Consumption and Cost | | | | Savings | |
| Use Category | Fixture Description | Pre-Retrofit Flow | Post-Retrofit Flow | Pre-Retrofit Annual Utilization (Flushes or Minutes) | Post-Retrofit Annual Utilization (Flushes or Minutes) | Pre-Retrofit Water Use (Gallons) | Post-Retrofit Water Use (Gallons) | Pre-Retrofit Water Cost | Post-Retrofit Cost | Water Use Savings (Gallons) | Water Cost Savings |
| High | Toilets | 2.25 | 1.60 | 128,188 | 128,188 | 288,422 | 205,100 | \$ 1,956 | \$ 1,391 | 83,322 | \$ 565 |
| Overall | Toilets | 2.25 | 1.60 | 128,188 | 128,188 | 288,422 | 205,100 | \$ 1,956 | \$ 1,391 | 83,322 | \$ 565 |
| High | Urinals | 1.00 | 0.60 | 76,913 | 76,913 | 76,913 | 46,148 | \$ 521 | \$ 313 | 30,765 | \$ 209 |
| Overall | Urinals | 1.00 | 0.60 | 76,913 | 76,913 | 76,913 | 46,148 | \$ 521 | \$ 313 | 30,765 | \$ 209 |
| High | Lav Sinks | 1.50 | 0.35 | 51,275 | 51,275 | 76,913 | 17,946 | \$ 521 | \$ 122 | 58,966 | \$ 400 |
| Overall | Lav Sinks | 1.50 | 0.35 | 51,275 | 51,275 | 76,913 | 17,946 | \$ 521 | \$ 122 | 58,966 | \$ 400 |
| High | General Use Sinks | 1.75 | 1.50 | 638 | 638 | 1,116 | 956 | \$ 8 | \$ 6 | 159 | \$ 1 |
| Overall | General Use Sinks | 1.75 | 1.50 | 638 | 638 | 1,116 | 956 | \$ 8 | \$ 6 | 159 | \$ 1 |
| Water / Sewer Rate = \$ 6.78 / 1000 Gallons | | | | | | 443,363 | 270,150 | \$ 3,006 | \$ 1,832 | 173,213 | \$ 1,174 |

| Thermal Energy Consumption | | | | | | | | | |
|--|--------------------------------------|---------------------------------------|----------------------------|---------------------------|--------------------------------------|---------------------------------------|--------------------------|--------------------------|----------------------|
| Hot Water Use | | | Thermal Energy Consumption | | | | Thermal Savings | | |
| Percent of Water Use that is Hot Water | Pre-Retrofit Hot Water Use (Gallons) | Post-Retrofit Hot Water Use (Gallons) | Water Heater Delta T (°F) | Heating System Efficiency | Pre-Retrofit Thermal Energy (Therms) | Post-Retrofit Thermal Energy (Therms) | Cost per Therm of Energy | Thermal Savings (Therms) | Thermal Cost Savings |
| | | | | | | | | | |
| 74% | 56,894 | 13,275 | 73 | 80% | 433 | 101 | \$ 0.70 | 332 | \$ 232 |
| 74% | 56,894 | 13,275 | 73 | 80% | 433 | 101 | \$ 0.70 | 332 | \$ 232 |
| 74% | 825 | 707 | 73 | 80% | 6 | 5 | \$ 0.70 | 1 | \$ 1 |
| 74% | 825 | 707 | 73 | 80% | 6 | 5 | \$ 0.70 | 1 | \$ 1 |
| | 57,719 | 13,983 | | | 439 | 106 | | 333 | \$ 233 |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Exhibit 4: Window Film Improvements

| | | |
|---|----------|----------|
| Annual Solar Insolation Data (kwh/m ²) (derived from NREL TMY3 data) | East | 838.50 |
| | North | 419.25 |
| | Skylight | 1,509.30 |
| | South | 1,090.05 |
| | West | 838.50 |
| Minneapolis, Minnesota | | |

Building Envelope Solutions, LLC
 2559 Badger Avenue
 Oshkosh, WI 54904
 920-267-6111
[ECM Holding Group](#)

SHGC - Solar Heat Gain Coefficient

INPUTS

| | |
|---|----------|
| Low E Window Film? | Yes |
| ft ² /m ² | 10.7584 |
| EER/COP | 3.413 |
| therms/kwh | 0.03413 |
| Indoor Object Emittance | 0.5 |
| Stefan Boltzmann Constant (w/m ² -K ⁴) | 5.67E-08 |
| Indoor Temperature (K) | 295 |
| w/kw | 1000 |
| TMY3 EFLH Heating (hours) | 1884 |
| Indoor Objects Radiation (kw/m ²) | 0.2158 |
| Indoor Objects Radiation (kwh/m ²) | 406.58 |

| Building | COP | Glass Type | Direction | Insolation (kwh/m ²) | Window Qty | Window Sq-Ft | Shading Coefficient | SHGC | | \$/kwh | \$/therm | Annual Solar Heat Rejected (kwh) | Annual Cooling Savings | | Annual Heating Savings | | Total Savings |
|---------------|----------|---------------------|-----------|----------------------------------|------------|--------------|---------------------|------|------|---------|----------|----------------------------------|------------------------|-------------------|------------------------|---------------|-------------------|
| | | | | | | | | Pre | Post | | | | kWh | \$ | therms | \$ | |
| Totals | | | | | 49 | 1,436 | | | | | | 54,158 | 19,457.1 | \$1,352.79 | 1093 | \$ 730 | \$2,082.69 |
| City Hall | 2.783475 | Double pane - clear | North | 419 | 13 | 468 | 0.20 | 0.76 | 0.17 | \$ 0.07 | \$ 0.67 | 8,608 | 3,092.62 | \$216 | 356 | \$238 | \$455 |
| City Hall | 2.783475 | Double pane - clear | East | 839 | 10 | 360 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.67 | 16,554 | 5,947.34 | \$416 | 274 | \$183 | \$599 |
| City Hall | 2.783475 | Double pane - clear | South | 1,090 | 10 | 360 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.67 | 21,521 | 7,731.54 | \$540 | 274 | \$183 | \$724 |
| Hasse Arena | 2.783475 | Double pane - clear | North | 419 | 1 | 24 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 543 | 195.15 | \$13 | 18 | \$12 | \$25 |
| Hasse Arena | 2.783475 | Double pane - clear | North | 419 | 2 | 72 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 1,655 | 594.73 | \$40 | 55 | \$36 | \$76 |
| Hasse Arena | 2.783475 | Double pane - clear | North | 419 | 2 | 36 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 828 | 297.37 | \$20 | 27 | \$18 | \$38 |
| Hasse Arena | 2.783475 | Double pane - clear | North | 419 | 1 | 23 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 517 | 185.85 | \$13 | 17 | \$11 | \$24 |
| Hasse Arena | 2.783475 | Double pane - clear | North | 419 | 2 | 16 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 368 | 132.16 | \$9 | 12 | \$8 | \$17 |
| Hasse Arena | 2.783475 | Double pane - clear | West | 839 | 4 | 20 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 920 | 330.41 | \$22 | 15 | \$10 | \$32 |
| Hasse Arena | 2.783475 | Double pane - clear | West | 839 | 2 | 23 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 1,035 | 371.71 | \$25 | 17 | \$11 | \$36 |
| Hasse Arena | 2.783475 | Double pane - clear | East | 839 | 2 | 35 | - | 0.76 | 0.17 | \$ 0.07 | \$ 0.66 | 1,609 | 578.21 | \$39 | 27 | \$18 | \$57 |



CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT

Exhibit 5: Low Emissivity Ceilings

Project: Ames
ECM: Rink 2

Existing System: Standard steel deck with rubber membrane
New System: Add low e-ceiling below steel deck above rink on high efficient refrigeration system

Energy Savings from R&R Calculation: 136,659 kwh per year
Reduction in cooling load due to cooling eff upgrades: 40%
Revised Energy savings from low e- ceiling: 81,995

Project: Hasse
ECM: Rink

Existing System: Standard steel deck with rubber membrane
New System: Add low e-ceiling below steel deck above rink on high efficient refrigeration system

Energy Savings from R&R Calculation: 136,659 kwh per year
Reduction in cooling load due to cooling eff upgrades: 50%
Revised Energy savings from low e- ceiling: 68,330



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Exhibit 6: Refrigeration System Replacement – Ames Ice Arena

Below is data showcasing the trends used to gather information on the compressors in the ice arena. These trends recorded discharge pressure values as well as run times and outside air temperature during the months of February - December of 2022.

| Time | Compressor 1 Command | Time | Compressor 2 Command | Time | Compressor 3 Command | Time | Discharge Pressure Post Regulator | Time | Outdoor Temp | Discharge Pressure with Compressors ON | 1 comp running | 2 comp running | 3 comp running |
|---------------|----------------------|---------------|----------------------|---------------|----------------------|---------------|-----------------------------------|---------------|--------------|--|----------------|----------------|----------------|
| 4/1/2022 0:00 | 0 | 4/1/2022 0:00 | 0 | 4/1/2022 0:00 | 0 | 4/1/2022 0:00 | 77.601212 | 4/1/2022 0:00 | 27.467636 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:05 | 0 | 4/1/2022 0:05 | 0 | 4/1/2022 0:05 | 0 | 4/1/2022 0:05 | 76.079468 | 4/1/2022 0:05 | 27.424141 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:10 | 0 | 4/1/2022 0:10 | 0 | 4/1/2022 0:10 | 0 | 4/1/2022 0:10 | 74.67482 | 4/1/2022 0:10 | 27.375189 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:15 | 0 | 4/1/2022 0:15 | 0 | 4/1/2022 0:15 | 0 | 4/1/2022 0:15 | 73.43924 | 4/1/2022 0:15 | 27.212227 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:20 | 0 | 4/1/2022 0:20 | 0 | 4/1/2022 0:20 | 0 | 4/1/2022 0:20 | 72.216644 | 4/1/2022 0:20 | 27.111855 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:25 | 0 | 4/1/2022 0:25 | 0 | 4/1/2022 0:25 | 0 | 4/1/2022 0:25 | 70.929047 | 4/1/2022 0:25 | 26.843754 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:30 | 0 | 4/1/2022 0:30 | 0 | 4/1/2022 0:30 | 0 | 4/1/2022 0:30 | 69.758484 | 4/1/2022 0:30 | 26.684315 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:35 | 0 | 4/1/2022 0:35 | 0 | 4/1/2022 0:35 | 0 | 4/1/2022 0:35 | 68.783035 | 4/1/2022 0:35 | 26.533171 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:40 | 0 | 4/1/2022 0:40 | 0 | 4/1/2022 0:40 | 0 | 4/1/2022 0:40 | 67.846603 | 4/1/2022 0:40 | 26.44153 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:45 | 0 | 4/1/2022 0:45 | 0 | 4/1/2022 0:45 | 0 | 4/1/2022 0:45 | 67.10524 | 4/1/2022 0:45 | 26.336529 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:50 | 0 | 4/1/2022 0:50 | 0 | 4/1/2022 0:50 | 0 | 4/1/2022 0:50 | 66.103775 | 4/1/2022 0:50 | 26.12141 | 0 | 0 | 0 | 0 |
| 4/1/2022 0:55 | 0 | 4/1/2022 0:55 | 0 | 4/1/2022 0:55 | 0 | 4/1/2022 0:55 | 65.245346 | 4/1/2022 0:55 | 26.097246 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:00 | 0 | 4/1/2022 1:00 | 0 | 4/1/2022 1:00 | 0 | 4/1/2022 1:00 | 64.451981 | 4/1/2022 1:00 | 25.99259 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:05 | 0 | 4/1/2022 1:05 | 0 | 4/1/2022 1:05 | 0 | 4/1/2022 1:05 | 63.645584 | 4/1/2022 1:05 | 25.869251 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:10 | 0 | 4/1/2022 1:10 | 0 | 4/1/2022 1:10 | 0 | 4/1/2022 1:10 | 62.930252 | 4/1/2022 1:10 | 25.826357 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:15 | 0 | 4/1/2022 1:15 | 0 | 4/1/2022 1:15 | 0 | 4/1/2022 1:15 | 62.527069 | 4/1/2022 1:15 | 25.735338 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:20 | 0 | 4/1/2022 1:20 | 0 | 4/1/2022 1:20 | 0 | 4/1/2022 1:20 | 62.032837 | 4/1/2022 1:20 | 25.727322 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:25 | 0 | 4/1/2022 1:25 | 0 | 4/1/2022 1:25 | 0 | 4/1/2022 1:25 | 61.564606 | 4/1/2022 1:25 | 25.636372 | 0 | 0 | 0 | 0 |
| 4/1/2022 1:30 | 0 | 4/1/2022 1:30 | 1 | 4/1/2022 1:30 | 0 | 4/1/2022 1:30 | 62.631119 | 4/1/2022 1:30 | 25.460117 | 62.631119 | 1 | 0 | 0 |
| 4/1/2022 1:35 | 0 | 4/1/2022 1:35 | 1 | 4/1/2022 1:35 | 0 | 4/1/2022 1:35 | 122.004227 | 4/1/2022 1:35 | 25.40674 | 122.004227 | 1 | 0 | 0 |
| 4/1/2022 1:40 | 0 | 4/1/2022 1:40 | 1 | 4/1/2022 1:40 | 0 | 4/1/2022 1:40 | 141.708542 | 4/1/2022 1:40 | 25.254791 | 141.708542 | 1 | 0 | 0 |
| 4/1/2022 1:45 | 0 | 4/1/2022 1:45 | 1 | 4/1/2022 1:45 | 0 | 4/1/2022 1:45 | 143.594421 | 4/1/2022 1:45 | 25.105743 | 143.594421 | 1 | 0 | 0 |
| 4/1/2022 1:50 | 0 | 4/1/2022 1:50 | 1 | 4/1/2022 1:50 | 0 | 4/1/2022 1:50 | 143.971619 | 4/1/2022 1:50 | 25.036587 | 143.971619 | 1 | 0 | 0 |
| 4/1/2022 1:55 | 0 | 4/1/2022 1:55 | 1 | 4/1/2022 1:55 | 0 | 4/1/2022 1:55 | 144.192719 | 4/1/2022 1:55 | 24.9622 | 144.192719 | 1 | 0 | 0 |
| 4/1/2022 2:00 | 0 | 4/1/2022 2:00 | 1 | 4/1/2022 2:00 | 0 | 4/1/2022 2:00 | 144.283768 | 4/1/2022 2:00 | 24.765812 | 144.283768 | 1 | 0 | 0 |
| 4/1/2022 2:05 | 0 | 4/1/2022 2:05 | 1 | 4/1/2022 2:05 | 0 | 4/1/2022 2:05 | 144.192719 | 4/1/2022 2:05 | 24.747267 | 144.192719 | 1 | 0 | 0 |
| 4/1/2022 2:10 | 0 | 4/1/2022 2:10 | 1 | 4/1/2022 2:10 | 0 | 4/1/2022 2:10 | 144.270737 | 4/1/2022 2:10 | 24.673088 | 144.270737 | 1 | 0 | 0 |
| 4/1/2022 2:15 | 0 | 4/1/2022 2:15 | 1 | 4/1/2022 2:15 | 0 | 4/1/2022 2:15 | 144.387787 | 4/1/2022 2:15 | 24.628075 | 144.387787 | 1 | 0 | 0 |
| 4/1/2022 2:20 | 0 | 4/1/2022 2:20 | 1 | 4/1/2022 2:20 | 0 | 4/1/2022 2:20 | 144.244751 | 4/1/2022 2:20 | 24.538092 | 144.244751 | 1 | 0 | 0 |
| 4/1/2022 2:25 | 0 | 4/1/2022 2:25 | 1 | 4/1/2022 2:25 | 0 | 4/1/2022 2:25 | 144.33577 | 4/1/2022 2:25 | 24.45615 | 144.33577 | 1 | 0 | 0 |
| 4/1/2022 2:30 | 0 | 4/1/2022 2:30 | 1 | 4/1/2022 2:30 | 0 | 4/1/2022 2:30 | 143.841522 | 4/1/2022 2:30 | 24.482574 | 143.841522 | 1 | 0 | 0 |
| 4/1/2022 2:35 | 0 | 4/1/2022 2:35 | 1 | 4/1/2022 2:35 | 0 | 4/1/2022 2:35 | 142.241791 | 4/1/2022 2:35 | 24.432331 | 142.241791 | 1 | 0 | 0 |
| 4/1/2022 2:40 | 0 | 4/1/2022 2:40 | 0 | 4/1/2022 2:40 | 0 | 4/1/2022 2:40 | 126.608398 | 4/1/2022 2:40 | 24.353085 | 0 | 0 | 0 | 0 |



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The table below displays the run time of 1 compressor, 2 compressors, or 3 compressors running simultaneously. These hours were taken from trend data through the months of February-December of 2022 as well as January of 2023.

| Compressor Run Times | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 comp running (hrs) | 553.67 | 301.33 | 447.08 | 421.75 | 500.50 | 483.08 | 388.50 | 488.17 | 415.67 | 414.00 | 399.42 | 486.42 |
| 2 comp running (hrs) | 18.00 | 1.50 | 0.00 | 0.00 | 4.92 | 54.00 | 60.67 | 113.25 | 85.67 | 99.50 | 67.17 | 39.25 |
| 3 comp running (hrs) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



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The trend data shown above was used to trend condensing temperatures and corresponding kW/ton measurements to distinguish the average kW/ton on the compressor system in the year of 2022. These calculations were used to determine savings on the newly installed compressor system.

| Month | Average Discharge Pressure Post Regulator | Average OAT Temperature | Trended | |
|-------|---|-------------------------|----------------|--------------------------------|
| | | | Trended kW/Ton | Trended Condensing Temperature |
| Feb | 141.6554362 | 26.17665767 | 0.9449 | 80.33265201 |
| Mar | 143.3419793 | 34.84930017 | 0.95534 | 80.98127381 |
| Apr | 142.9939195 | 43.90024111 | 0.95319 | 80.84741468 |
| May | 140.4292644 | 62.86670513 | 0.93731 | 79.8610828 |
| Jun | 142.9169228 | 74.00059246 | 0.95271 | 80.81780279 |
| Jul | 144.3085385 | 76.98021033 | 0.96133 | 81.35299952 |
| Aug | 143.799318 | 73.03992047 | 0.95817 | 81.15716014 |
| Sep | 142.2517204 | 66.80831971 | 0.94859 | 80.56197489 |
| Oct | 140.125039 | 53.34312561 | 0.93543 | 79.74408179 |
| Nov | 136.9323457 | 36.60585482 | 0.91566 | 78.51621481 |
| | | Average kW/Ton | 0.94626 | |

The table below shows existing conditions of the old system on the left and actual conditions of the implemented system on the right. Average refrigeration load on the new system was based on weighted averages calculated by run times found in the trends.

| | | | |
|--|-------------|----------------------------|-----------|
| Existing Conditions: | | Actual Conditions | |
| Average Refrigeration Load | 120 Tons | Average Refrigeration Load | 65.6 Tons |
| Existing kW/Ton | 1.23 kW/T | Existing kW/Ton | 1.23 kW/T |
| | | | |
| Operating Hrs. | 6,000 Hrs | Operating Hrs. | 5,844 Hrs |
| | | | |
| Proposed kW / Ton | 0.78 kW/T | Proposed kW / Ton | 0.95 kW/T |
| | | | |
| Savings Calculation: | | | |
| <u>kWh Savings</u> | | | |
| = ((kW/T existing - kW/T prop) * Tons * Hrs) - Fan kWh Penalty | | | |
| = 308,296 kWh | | 505,890 kWh | |
| | | | |
| Calculated Savings | 456,343 kWh | | |
| Measured Savings | 505,890 kWh | | |
| Over Calculated Savings | 49,547 kWh | | |



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The subfloor temp was higher than what was expected. The style of subfloor heat was not able to be adjusted so not savings were taken. Below is a table summarizing the subfloor data.

Sub-Floor Temperature Setpoint

Issue:

- The sub-floor temperature is current at 42° but should be kept closer to 32° to reduce the temperature differential
- The setpoint change will reduce the load on the refrigeration system

Proposed Modification:

- Set the sub-floor setpoint to maintain 34°

Observations and Calculation Assumptions:

- None

Existing:

| | |
|-------------------------|----------------|
| Existing Sub-Floor Temp | 38 ° |
| New Sub-Floor Temp | 34 ° |
| Sheet Area (2 Sheets) | 17,000 Sq. Ft. |
| Wall R Value | 16 |
| U Value | 0.063 |
| Compressor kW / Ton | 0.87 kW/T |

M&V Measurements

| | |
|----------------|----------------|
| 38 ° | 38 ° |
| 41.41 ° | 39.26 ° |
| 17,000 Sq. Ft. | 17,000 Sq. Ft. |
| 16 | 16 |
| 0.063 | 0.063 |
| 0.95 kW/T | 0.95 kW/T |

Savings Calculation:

Delta T Increase
 = Existing - New Sub-Floor Temp
 = 4 °

Cooling Load (Tons)
 = (Area * U * Delta T) / 12,000
 = 0.35 Tons

kW Reduction
 = |Tons * kW/Ton
 = 0.31 kW

kWh Savings
 = kW Reduction * 8,760 *(1 Sheet all yr &1 Sheet half a yr)
 = 4,049 kWh

kWh Savings

= kW Reduction * 8,760 *(1 Sheet all yr &1 Sheet half a yr)
 = 0 * 8760 * (1 Sheet all yr & 1 Sheet half a yr)
 = 0 kWh

The brine pumps were not running at the required times to achieve brine pump night setback savings, so the savings were a total of 0 kWh.



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Exhibit 7: Refrigeration System Controls Upgrades – Hasse Ice Arena

Below is data showcasing the trends used to gather information on the compressors in the ice arena. These trends recorded discharge pressure values as well as run times and discharge temperature during the months of February - December of 2022.

| Time stamp | Month | Compressor 1 Amps | Compressor ON | Compressor 1 Discharge Pressure | Compressor 1 Discharge Temp | Compressor 1 Suction Pressure | Compressor 1 Suction Temp | Discharge Pressure RUN | Discharge Temp RUN |
|-----------------------|-------|-------------------|---------------|---------------------------------|-----------------------------|-------------------------------|---------------------------|------------------------|--------------------|
| 09/16/2022 9:54:01 PM | 9 | 0.029000001 | | 173.25 | 181.7240005 | 29.59999847 | 29.80399995 | | |
| 09/16/2022 9:49:01 PM | 9 | 58.31899643 | 1 | 188.8749847 | 195.2420044 | 28.50000381 | 27.55399995 | 195.2420044 | 195.2420044 |
| 09/16/2022 9:04:01 PM | 9 | 58.31899643 | 1 | 188.8749847 | 195.2420044 | 28.50000381 | 27.55399995 | 195.2420044 | 195.2420044 |
| 09/16/2022 8:59:01 PM | 9 | 57.81150055 | 1 | 188.8749847 | 195.2420044 | 28.50000381 | 27.55399995 | 195.2420044 | 195.2420044 |
| 09/16/2022 8:39:01 PM | 9 | 57.81150055 | 1 | 188.8749847 | 195.2420044 | 28.50000381 | 27.55399995 | 195.2420044 | 195.2420044 |
| 09/16/2022 8:34:01 PM | 9 | 57.81150055 | 1 | 188.8749847 | 194.1980011 | 28.50000381 | 27.55399995 | 194.1980011 | 194.1980011 |
| 09/16/2022 8:29:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 194.1980011 | 28.50000381 | 27.55399995 | 194.1980011 | 194.1980011 |
| 09/16/2022 7:49:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 194.1980011 | 28.50000381 | 27.55399995 | 194.1980011 | 194.1980011 |
| 09/16/2022 7:44:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 194.1980011 | 28.50000381 | 26.52800007 | 194.1980011 | 194.1980011 |
| 09/16/2022 7:14:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 194.1980011 | 28.50000381 | 26.52800007 | 194.1980011 | 194.1980011 |
| 09/16/2022 7:09:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 195.4400055 | 28.50000381 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 7:04:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 195.4400055 | 28.50000381 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 6:59:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 6:29:01 PM | 9 | 58.34800339 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 6:24:01 PM | 9 | 57.84049988 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 5:34:01 PM | 9 | 57.84049988 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 5:29:01 PM | 9 | 57.21700287 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 5:24:01 PM | 9 | 57.21700287 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 5:19:01 PM | 9 | 57.88400269 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 5:09:01 PM | 9 | 57.88400269 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 3:54:01 PM | 9 | 57.37649918 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 3:04:01 PM | 9 | 57.37649918 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 2:59:01 PM | 9 | 57.92749786 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 2:54:01 PM | 9 | 58.59449768 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 2:39:01 PM | 9 | 58.59449768 | 1 | 188.8749847 | 195.4400055 | 27.29999924 | 26.52800007 | 195.4400055 | 195.4400055 |
| 09/16/2022 2:34:01 PM | 9 | 58.59449768 | 1 | 188.8749847 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |
| 09/16/2022 2:29:01 PM | 9 | 58.59449768 | 1 | 188.8749847 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |
| 09/16/2022 2:24:01 PM | 9 | 58.59449768 | 1 | 187.5 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |
| 09/16/2022 2:19:01 PM | 9 | 58.59449768 | 1 | 189.125 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |
| 09/16/2022 2:14:01 PM | 9 | 57.37649918 | 1 | 187.875 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |
| 09/16/2022 2:04:01 PM | 9 | 57.37649918 | 1 | 187.875 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |
| 09/16/2022 1:59:01 PM | 9 | 57.95650101 | 1 | 187.875 | 196.5019989 | 27.29999924 | 26.52800007 | 196.5019989 | 196.5019989 |

Below is a table summarizing trended condensing temperatures and discharge pressures for months that had trended data. An average condensing temperature was taken from this data.

| | Trended Condensing Temps | Average Discharge Pressure Comp 1 | Trended Condensing Temps | Average Discharge Pressure Comp 2 |
|---------------------------------------|--------------------------|-----------------------------------|--------------------------|-----------------------------------|
| Jan | 85.70 | 160.03 | | |
| Feb | 82.89 | 153.39 | | |
| Mar | 81.81 | 150.84 | | |
| Apr | | | | |
| May | | | | |
| Jun | | | | |
| Jul | | | | |
| Aug | | | | |
| Sep | 89.93 | 170.05 | | |
| Oct | 72.65 | 129.15 | 97.72 | 188.47 |
| Nov | 71.53 | 126.52 | 96.51 | 185.59 |
| Dec | 83.70 | 155.29 | 96.51 | 185.61 |
| Average Condensing Temperature | | | | |
| 85.90 Fahrenheit | | | | |



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The table below shows existing conditions of the old system on the left and actual conditions of the implemented system on the right.

| Existing Conditions: | | | Actual conditions |
|--|------------|------|--------------------------|
| Average Refrigeration Load | 80 Tons | | 80 Tons |
| Existing Condensing Temp | 95 ° F | | 95 ° F |
| Existing kW/Ton | 1.23 kW/T | | 1.23 kW/T |
| | | | |
| Operating Hrs. | 4,200 | Hrs | 4,123 |
| Average Condensing Temp | 71.0 | ° F | 85.9 |
| Proposed kW / Ton | 0.91 | kW/T | 1.11 |
| | | | |
| Savings Calculation: | | | |
| <u>kWh Savings</u> | | | |
| = ((kW/T existing - kW/T prop) * Tons * Hrs) - Fan kWh Penalty | | | |
| = | 92,698 kWh | | 26,808 kWh |
| Calculated Savings | 92,698 | kWh | |
| Measured Savings | 20,808 | kWh | |
| Under Calculated Savings | 65,890 | kWh | |



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Brine Pump VFD Speed Control

Issue:

- The ice sheet brine pumps do not have VFD's to control their flow to maintain the ice temperature setpoint.
- Adding VFD's to vary the flow to maintain the ice sheet temperature setpoint will provide consistent ice conditions and reduce energy use for the pumps and compressors.

Proposed Modification:

- Add VFD's and any required controls and sensors to vary the brine pump speed.

Observations and Calculation Assumptions:

- Experience with other projects has given a new average pump speed of 85%

Existing:

| | |
|-------------------------|------------|
| Total Brine Pump HP | 20 HP |
| Pump Duty Factor | 90% |
| Existing Avg Pump Speed | 100% |
| Proposed Avg Pump Speed | 85% |
| Operating Hours | 4,200 Hrs. |

M&V Calcs:

| | |
|-------------------------|------------|
| Total Brine Pump HP | 20 HP |
| Pump Duty Factor | 90% |
| Existing Avg Pump Speed | 100% |
| Actual Avg Pump Speed | 94% |
| Operating Hours | 4,200 Hrs. |

Calculated Points:

kW at 100%

$$\text{kW} = \text{HP} * .746 * \text{Duty Factor} / \text{Eff}$$

$$= 14.92 \text{ kW}$$

kW at Existing Speed

$$= \text{kW1} / (\text{Speed 1} / \text{Speed 2})^3$$

$$= 14.92 \text{ kW}$$

Savings Calculation:

New Pump Speed kW

$$= \text{Existing Speed kW} / (\text{Existing Speed} / \text{Proposed Speed})^3$$

$$= 9.16 \text{ kW}$$

- kW Reduction

$$= \text{Existing kW} - \text{Proposed kW}$$

$$= 5.76 \text{ kW}$$

kWh Savings

$$= \text{kW Reduction} * \text{Operating Hours}$$

$$= 24,180 \text{ kWh}$$

| | |
|--------------------------|------------|
| Calculated Savings | 24,180 kWh |
| Measured Savings | 10,951 kWh |
| Under Calculated Savings | 13,229 kWh |

kW at 100%

$$\text{kW} = \text{HP} * .746 * \text{Duty Factor} / \text{Eff}$$

$$= 14.92 \text{ kW}$$

kW at Existing Speed

$$= \text{kW1} / (\text{Speed 1} / \text{Speed 2})^3$$

$$= 14.92 \text{ kW}$$

Savings Calculation:

New Pump Speed kW

$$= \text{Existing Speed kW} / (\text{Existing Speed} / \text{Proposed Speed})^3$$

$$= 12.31 \text{ kW}$$

- kW Reduction

$$= \text{Existing kW} - \text{Proposed kW}$$

$$= 2.61 \text{ kW}$$

kWh Savings

$$= \text{kW Reduction} * \text{Operating Hours}$$

$$= 10,951 \text{ kWh}$$

The brine pump VFD's were slightly brought down in speed, but not enough to warrant the guaranteed savings.



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The brine pumps were not running at the required times to achieve brine pump night setback savings, so the savings were a total of 0 kWh.

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Exhibit 8: Building Controls Upgrades – Ames Ice Arena

Below is a comparison of the baseline energy used before the project at Ames Ice Arena and the actual energy usage post project at Ames Ice Arena.

| BASELINE | | | Actual | | | SAVINGS | | |
|---------------------------|------------------------------|------------------------|---------------------------|------------------------------|------------------------|---------------------------|------------------------------|------------------------|
| Fan Energy KWH | Ventilation THERM | Cooling KWH | Fan Energy KWH | Ventilation THERM | Cooling KWH | Fan Energy KWH | Ventilation THERM | Cooling KWH |
| 13,034 | 880 | 5,267 | 10,862 | 733 | 4,389 | 2,172 | 147 | 878 |
| 7,820 | 642 | 3,841 | 15,441 | 1,267 | 7,584 | -7,621 | -625 | -3,743 |
| 7,820 | 623 | 3,731 | 4,450 | 355 | 2,123 | 3,370 | 269 | 1,608 |
| 13,034 | 1,100 | 6,584 | 7,107 | 600 | 3,590 | 5,927 | 500 | 2,994 |
| | | | | | | | | |
| Total | Total | Total | Total | Total | Total | Total | Total | Total |
| 41709 | 3244 | 19424 | 37860 | 2954 | 17686 | 3849 | 290 | 1737 |



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Below is a table depicting a portion of the trend data of the RTU1 serving the lobby area of rink one at Ames Ice Arena. This RTU was shown to run on average of seventy hours per week based on the trend data through the months of January – February in 2022.

| Timestamp | Supply Fan Status | Hours Between ON/OFF | Hrs/Week |
|-----------------|-------------------|----------------------|----------|
| 1/1/2022 7:00 | 100 ON | 14:57:00 | 70 |
| 1/1/2022 21:57 | 100 OFF | | |
| 1/2/2022 7:00 | 100 ON | 15:00:00 | |
| 1/2/2022 22:00 | 100 OFF | | |
| 1/3/2022 7:39 | 100 ON | 1:21:00 | |
| 1/3/2022 9:00 | 100 OFF | | |
| 1/3/2022 14:00 | 100 ON | 8:00:00 | |
| 1/3/2022 22:00 | 100 OFF | | |
| 1/4/2022 14:00 | 100 ON | 7:57:00 | |
| 1/4/2022 21:57 | 100 OFF | | |
| 1/5/2022 14:00 | 100 ON | 7:57:00 | |
| 1/5/2022 21:57 | 100 OFF | | |
| 1/6/2022 14:00 | 100 ON | 7:57:00 | |
| 1/6/2022 21:57 | 100 OFF | | |
| 1/7/2022 14:00 | 100 ON | 8:00:00 | |
| 1/7/2022 22:00 | 100 OFF | | |
| 1/8/2022 7:00 | 100 ON | 14:57:00 | |
| 1/8/2022 21:57 | 100 OFF | | |
| 1/9/2022 7:00 | 100 ON | 15:00:00 | |
| 1/9/2022 22:00 | 100 OFF | | |
| 1/10/2022 14:00 | 100 ON | 8:00:00 | |
| 1/10/2022 22:00 | 100 OFF | | |
| 1/11/2022 14:00 | 100 ON | 7:57:00 | |
| 1/11/2022 21:57 | 100 OFF | | |
| 1/12/2022 14:00 | 100 ON | 7:57:00 | |
| 1/12/2022 21:57 | 100 OFF | | |
| 1/13/2022 14:00 | 100 ON | 7:57:00 | |
| 1/13/2022 21:57 | 100 OFF | | |
| 1/14/2022 14:00 | 100 ON | 8:00:00 | |
| 1/14/2022 22:00 | 100 OFF | | |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the RTU2 serving the office area of Ames Ice Arena. This RTU was shown to run on average of roughly thirty-eight hours per week based on the trend data through the months of January – February in 2022.

| Timestamp | Supply Fan Status | Hours Between ON/OFF | | | | | | | | | |
|----------------|-------------------|----------------------|--|--|--|--|--|--|--|--|--|
| 1/1/2022 7:03 | 100 ON | 2:42:00 | | | | | | | | | |
| 1/1/2022 9:45 | 100 OFF | | | | | | | | | | |
| 1/1/2022 10:36 | 100 ON | 0:39:00 | | | | | | | | | |
| 1/1/2022 11:15 | 100 OFF | | | | | | | | | | |
| 1/1/2022 12:03 | 100 ON | 0:39:00 | | | | | | | | | |
| 1/1/2022 12:42 | 100 OFF | | | | | | | | | | |
| 1/1/2022 13:33 | 100 ON | 0:36:00 | | | | | | | | | |
| 1/1/2022 14:09 | 100 OFF | | | | | | | | | | |
| 1/1/2022 15:00 | 100 ON | 0:36:00 | | | | | | | | | |
| 1/1/2022 15:36 | 100 OFF | | | | | | | | | | |
| 1/1/2022 16:27 | 100 ON | 0:36:00 | | | | | | | | | |
| 1/1/2022 17:03 | 100 OFF | | | | | | | | | | |
| 1/1/2022 17:57 | 100 ON | 0:36:00 | | | | | | | | | |
| 1/1/2022 18:33 | 100 OFF | | | | | | | | | | |
| 1/1/2022 19:30 | 100 ON | 0:33:00 | | | | | | | | | |
| 1/1/2022 20:03 | 100 OFF | | | | | | | | | | |
| 1/1/2022 21:00 | 100 ON | 0:36:00 | | | | | | | | | |
| 1/1/2022 21:36 | 100 OFF | | | | | | | | | | |
| 1/2/2022 7:03 | 100 ON | 3:30:00 | | | | | | | | | |
| 1/2/2022 10:33 | 100 OFF | | | | | | | | | | |
| 1/2/2022 11:18 | 100 ON | 0:45:00 | | | | | | | | | |
| 1/2/2022 12:03 | 100 OFF | | | | | | | | | | |
| 1/2/2022 12:45 | 100 ON | 0:42:00 | | | | | | | | | |
| 1/2/2022 13:27 | 100 OFF | | | | | | | | | | |
| 1/2/2022 14:18 | 100 ON | 0:42:00 | | | | | | | | | |
| 1/2/2022 15:00 | 100 OFF | | | | | | | | | | |
| 1/2/2022 15:48 | 100 ON | 0:36:00 | | | | | | | | | |
| 1/2/2022 16:24 | 100 OFF | | | | | | | | | | |
| 1/2/2022 17:15 | 100 ON | 0:33:00 | | | | | | | | | |
| 1/2/2022 17:48 | 100 OFF | | | | | | | | | | |
| 1/2/2022 18:36 | 100 ON | 0:39:00 | | | | | | | | | |
| 1/2/2022 19:15 | 100 OFF | | | | | | | | | | |
| 1/2/2022 20:06 | 100 ON | 0:36:00 | | | | | | | | | |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the RTU4 serving the locker room area of rink one at Ames Ice Arena. This RTU was shown to run on average of roughly thirty-six hours per week based on the trend data through the months of January – February in 2022.

| Timestamp | SaFanSts | Hours Between ON/OFF | | | | |
|-----------------|----------|----------------------|--|--|--|-----------------------------|
| 1/1/2022 7:04 | 1 OFF | | | | | Average over 7 Weeks |
| 1/1/2022 10:58 | 1 ON | 0:09:00 | | | | 145.8571429 |
| 1/1/2022 11:07 | 1 OFF | | | | | |
| 1/1/2022 22:07 | 1 ON | 3:24:00 | | | | |
| 1/2/2022 1:31 | 1 OFF | | | | | |
| 1/2/2022 1:37 | 1 ON | 0:33:00 | | | | |
| 1/2/2022 2:10 | 1 OFF | | | | | |
| 1/2/2022 14:58 | 1 ON | 24:36:00 | | | | |
| 1/3/2022 15:34 | 1 OFF | | | | | |
| 1/3/2022 15:43 | 1 ON | 66:15:00 | | | | |
| 1/6/2022 9:58 | 1 OFF | | | | | |
| 1/6/2022 13:43 | 1 ON | 0:06:00 | | | | |
| 1/6/2022 13:49 | 1 OFF | | | | | |
| 1/6/2022 22:07 | 1 ON | 3:24:00 | | | | |
| 1/7/2022 1:31 | 1 OFF | | | | | |
| 1/7/2022 13:43 | 1 ON | 0:06:00 | | | | |
| 1/7/2022 13:49 | 1 OFF | | | | | |
| 1/7/2022 22:07 | 1 ON | 295:57:00 | | | | |
| 1/20/2022 6:04 | 1 OFF | | | | | |
| 1/20/2022 13:40 | 1 ON | 0:09:00 | | | | |
| 1/20/2022 13:49 | 1 OFF | | | | | |
| 1/20/2022 22:07 | 1 ON | 7:24:00 | | | | |
| 1/21/2022 5:31 | 1 OFF | | | | | |
| 1/21/2022 13:40 | 1 ON | 111:24:00 | | | | |
| 1/26/2022 5:04 | 1 OFF | | | | | |
| 1/26/2022 13:40 | 1 ON | 256:57:43 | | | | |
| 2/6/2022 6:37 | 1 OFF | | | | | |
| 2/6/2022 12:58 | 1 ON | 136:39:43 | | | | |
| 2/12/2022 5:37 | 1 OFF | | | | | |
| 2/12/2022 5:55 | 1 ON | 0:00:43 | | | | |
| 2/12/2022 5:55 | 1 OFF | | | | | |
| 2/12/2022 6:31 | 1 ON | 0:00:43 | | | | |
| 2/12/2022 6:31 | 1 OFF | | | | | |
| 2/12/2022 12:01 | 1 ON | 18:42:43 | | | | |



**CITY OF LAKEVILLE
MEASUREMENT & VERIFICATION REPORT**

Exhibit 9: Building Controls Upgrades – Hasse Ice Arena

Below is a comparison of the baseline energy used before the project at Ames Ice Arena and the actual energy usage post project at Hasse Ice Arena.

| BASELINE | | | Actual | | | SAVINGS | | |
|---------------------------|------------------------------|------------------------|---------------------------|------------------------------|------------------------|---------------------------|------------------------------|------------------------|
| Fan Energy KWH | Ventilation THERM | Cooling KWH | Fan Energy KWH | Ventilation THERM | Cooling KWH | Fan Energy KWH | Ventilation THERM | Cooling KWH |
| 31,282 | 367 | 0 | 7,797 | 91 | 0 | 23,485 | 275 | 0 |
| 31,282 | 1,584 | 0 | 6,517 | 330 | 0 | 24,765 | 1,254 | 0 |
| 11,731 | 1,116 | 0 | 6,517 | 620 | 0 | 5,214 | 496 | 0 |
| 3,910 | 779 | 0 | 349 | 70 | 0 | 3,561 | 709 | 0 |
| 5,214 | 1,980 | 0 | 1,924 | 731 | 0 | 3,290 | 1,249 | 0 |
| 5,214 | 1,741 | 0 | 2,234 | 746 | 0 | 2,979 | 995 | 0 |
| 13,034 | 599 | 3,588 | 5,858 | 269 | 1,613 | 7,177 | 330 | 1,976 |
| 3,910 | 174 | 1,043 | 2,793 | 124 | 745 | 1,117 | 50 | 298 |
| | | | | | | | | |
| Total | Total | Total | Total | Total | Total | Total | Total | Total |
| 105576 | 8340 | 4631 | 33990 | 2982 | 2357 | 71587 | 5358 | 2274 |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the dehumidification unit serving the Hasse Ice Arena. This unit was shown to run on average of forty-five minutes per week at an economizer position of fifty, twenty-eight hours per week at an economizer position of twenty-five, roughly seventeen hours per week at an economizer position of zero. This was based off trend data for the months February-December of 2022.

| Time stp | Economizer Positon | Supply Fan Status | Month | Hours Between ON/OFF |
|-----------------|--------------------|-------------------|-------|----------------------|
| 2/18/2022 1:33 | 0 | 1 OFF | 2 | |
| 2/18/2022 2:03 | 28 | 1 ON | 2 | 7:59:14 |
| 2/18/2022 10:02 | 0 | 1 OFF | 2 | |
| 2/18/2022 12:55 | 0 | 1 OFF | 2 | |
| 2/19/2022 1:10 | 28 | 1 ON | 2 | 0:40:00 |
| 2/19/2022 1:50 | 28 | 1 OFF | 2 | |
| 2/19/2022 2:25 | 28 | 1 ON | 2 | 7:37:43 |
| 2/19/2022 10:02 | 0 | 1 OFF | 2 | |
| 2/19/2022 11:18 | 0 | 1 ON | 2 | 0:01:31 |
| 2/19/2022 11:20 | 0 | 1 OFF | 2 | |
| 2/20/2022 1:00 | 28 | 1 ON | 2 | 9:45:00 |
| 2/20/2022 10:45 | 28 | 1 OFF | 2 | |
| 2/20/2022 10:50 | 28 | 1 ON | 2 | 2:05:00 |
| 2/20/2022 12:55 | 28 | 1 OFF | 2 | |
| 2/21/2022 1:18 | 50 | 1 ON | 2 | 0:23:14 |
| 2/21/2022 1:41 | 0 | 1 OFF | 2 | |
| 2/21/2022 1:59 | 0 | 1 OFF | 2 | |
| 2/21/2022 2:02 | 28 | 1 OFF | 2 | |
| 2/21/2022 2:03 | 50 | 1 ON | 2 | 7:59:14 |
| 2/21/2022 10:02 | 0 | 1 OFF | 2 | |
| 2/21/2022 11:25 | 0 | 1 ON | 2 | 0:05:00 |
| 2/21/2022 11:30 | 0 | 1 OFF | 2 | |
| 2/22/2022 1:55 | 0 | 1 ON | 2 | 8:07:43 |
| 2/22/2022 10:02 | 0 | 1 OFF | 2 | |
| 2/22/2022 10:40 | 0 | 1 ON | 2 | 0:05:00 |
| 2/22/2022 10:45 | 0 | 1 OFF | 2 | |
| 2/23/2022 1:40 | 0 | 1 ON | 2 | 0:22:43 |
| 2/23/2022 2:02 | 28 | 1 OFF | 2 | |
| 2/23/2022 2:48 | 0 | 1 ON | 2 | 7:14:14 |
| 2/23/2022 10:02 | 0 | 1 OFF | 2 | |
| 2/23/2022 10:55 | 0 | 1 ON | 2 | 0:05:00 |
| 2/23/2022 11:00 | 0 | 1 OFF | 2 | |
| 2/24/2022 1:18 | 0 | 1 ON | 2 | 8:44:14 |
| 2/24/2022 10:02 | 0 | 1 OFF | 2 | |

| | Total Hrs | Hrs/Week | | |
|----------------|------------|----------|-------|----|
| Econ 50 | 33:39:40 | 0:42:05 | 0.75 | |
| Econ 25 | 1341:47:10 | 27:57:14 | 28 | 14 |
| Econ 0 | 806:41:42 | 16:48:22 | 16.75 | |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the MAU1 unit serving the Hasse Ice Arena. This unit was shown to run on average of roughly thirty-one hours per week based on the trend data through the months of January – December in 2022.

| Time stp | Supply Fan Status | | Hours Between ON/OFF | | | | | |
|----------------|-------------------|--|----------------------|--|--|--|--------------------|-------|
| 1/20/2022 1:10 | 1 OFF | | | | | | | |
| 1/20/2022 1:55 | 1 OFF | | | | | | Total Hours | 1350 |
| 1/20/2022 1:58 | 1 OFF | | | | | | | |
| 1/20/2022 2:48 | 1 ON | | 1:57:31 | | | | Hrs/Week | 30.68 |
| 1/20/2022 4:46 | 1 OFF | | | | | | | |
| 1/20/2022 4:49 | 1 ON | | 0:09:00 | | | | | |
| 1/20/2022 4:58 | 1 OFF | | | | | | | |
| 1/20/2022 5:01 | 1 OFF | | | | | | | |
| 1/20/2022 5:10 | 1 OFF | | | | | | | |
| 1/20/2022 5:13 | 1 OFF | | | | | | | |
| 1/20/2022 5:25 | 1 ON | | 0:06:00 | | | | | |
| 1/20/2022 5:31 | 1 OFF | | | | | | | |
| 1/20/2022 5:34 | 1 OFF | | | | | | | |
| 1/20/2022 5:37 | 1 OFF | | | | | | | |
| 1/20/2022 5:49 | 1 OFF | | | | | | | |
| 1/20/2022 5:52 | 1 OFF | | | | | | | |
| 1/20/2022 5:55 | 1 ON | | 0:57:00 | | | | | |
| 1/20/2022 6:52 | 1 OFF | | | | | | | |
| 1/20/2022 6:55 | 1 OFF | | | | | | | |
| 1/20/2022 6:58 | 1 ON | | 0:06:00 | | | | | |
| 1/20/2022 7:04 | 1 OFF | | | | | | | |
| 1/20/2022 7:07 | 1 OFF | | | | | | | |
| 1/20/2022 7:10 | 1 ON | | 0:03:00 | | | | | |
| 1/20/2022 7:13 | 1 OFF | | | | | | | |
| 1/20/2022 7:19 | 1 OFF | | | | | | | |
| 1/20/2022 7:22 | 1 OFF | | | | | | | |
| 1/20/2022 7:28 | 1 OFF | | | | | | | |
| 1/20/2022 7:31 | 1 ON | | 0:12:00 | | | | | |
| 1/20/2022 7:43 | 1 OFF | | | | | | | |
| 1/20/2022 7:46 | 1 OFF | | | | | | | |
| 1/20/2022 7:49 | 1 ON | | 0:06:00 | | | | | |
| 1/20/2022 7:55 | 1 OFF | | | | | | | |
| 1/20/2022 8:04 | 1 OFF | | | | | | | |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the MAU2 unit serving the Hasse Ice Arena. This unit was shown to run on average of roughly thirty-six hours per week based on the trend data through the months of December – December from 2021-2022.

| Time stp | Supply Fan Status | | Hours Between ON/OFF | | | | | |
|------------------|-------------------|--|----------------------|--|--|--|-----------------|------------|
| 12/20/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/20/2021 9:48 | 1 OFF | | | | | | Hrs/Year | 1706:06:14 |
| 12/21/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/21/2021 9:48 | 1 OFF | | | | | | Hrs/Week | 36 |
| 12/22/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/22/2021 9:48 | 1 OFF | | | | | | | |
| 12/22/2021 11:48 | 1 OFF | | | | | | | |
| 12/23/2021 2:48 | 1 OFF | | | | | | | |
| 12/23/2021 8:48 | 1 ON | | 1:00:00 | | | | | |
| 12/23/2021 9:48 | 1 OFF | | | | | | | |
| 12/24/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/24/2021 9:48 | 1 OFF | | | | | | | |
| 12/25/2021 7:48 | 1 ON | | 2:00:00 | | | | | |
| 12/25/2021 9:48 | 1 OFF | | | | | | | |
| 12/26/2021 7:48 | 1 OFF | | | | | | | |
| 12/27/2021 2:48 | 1 ON | | 2:00:00 | | | | | |
| 12/27/2021 4:48 | 1 OFF | | | | | | | |
| 12/27/2021 8:48 | 1 ON | | 1:00:00 | | | | | |
| 12/27/2021 9:48 | 1 OFF | | | | | | | |
| 12/27/2021 10:48 | 1 OFF | | | | | | | |
| 12/28/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/28/2021 9:48 | 1 OFF | | | | | | | |
| 12/29/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/29/2021 9:48 | 1 OFF | | | | | | | |
| 12/29/2021 10:48 | 1 ON | | 1:00:00 | | | | | |
| 12/29/2021 11:48 | 1 OFF | | | | | | | |
| 12/30/2021 2:48 | 1 ON | | 7:00:00 | | | | | |
| 12/30/2021 9:48 | 1 OFF | | | | | | | |
| 12/31/2021 11:48 | 1 OFF | | | | | | | |
| 1/1/2022 9:48 | 1 ON | | 0:00:00 | | | | | |
| 1/1/2022 9:48 | 1 OFF | | | | | | | |
| 1/2/2022 2:48 | 1 ON | | 4:00:00 | | | | | |
| 1/2/2022 6:48 | 1 OFF | | | | | | | |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the RTU1 unit serving the Hasse Ice Arena. This unit was shown to run on average of roughly sixty hours per week based on the trend data through the months of December – December from 2021-2022.

| Time stp | Economizer Positon | Supply Fan Status | Hours Between ON/OFF | | | | |
|-----------------|--------------------|-------------------|----------------------|--|--|-----------------|------------|
| 12/20/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/20/2021 9:59 | 10 | 1 OFF | | | | Hrs/Year | 2867:18:10 |
| 12/21/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/21/2021 9:59 | 10 | 1 OFF | | | | Hrs/Week | 60 |
| 12/22/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/22/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/23/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/23/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/24/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/24/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/25/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/25/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/26/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/26/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/27/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/27/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/28/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/28/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/29/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/29/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/30/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/30/2021 9:59 | 10 | 1 OFF | | | | | |
| 12/31/2021 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 12/31/2021 9:59 | 10 | 1 OFF | | | | | |
| 1/1/2022 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 1/1/2022 9:59 | 10 | 1 OFF | | | | | |
| 1/2/2022 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 1/2/2022 9:59 | 10 | 1 OFF | | | | | |
| 1/3/2022 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 1/3/2022 9:59 | 10 | 1 OFF | | | | | |
| 1/4/2022 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 1/4/2022 9:59 | 10 | 1 OFF | | | | | |
| 1/5/2022 7:02 | 10 | 0 ON | 2:57:00 | | | | |
| 1/5/2022 9:59 | 10 | 1 OFF | | | | | |



CITY OF LAKEVILLE MEASUREMENT & VERIFICATION REPORT

Below is a table depicting a portion of the trend data of the RTU2 unit serving the Hasse Ice Arena. This unit was shown to run on average of roughly forty hours per week based on the trend data through the months of December – December from 2021-2022.

| Time stp | Supply Fan Status | | Hours Between ON/OFF | | | | |
|------------------|-------------------|--|----------------------|--|--|-----------------|-------|
| 12/20/2021 2:48 | 1 ON | | 7:14:14 | | | Hrs/Year | 1812 |
| 12/20/2021 10:02 | 1 OFF | | | | | | |
| 12/21/2021 2:48 | 1 ON | | 7:14:14 | | | Hrs/Week | 37.75 |
| 12/21/2021 10:02 | 1 OFF | | | | | | |
| 12/22/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/22/2021 10:02 | 1 OFF | | | | | | |
| 12/23/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/23/2021 10:02 | 1 OFF | | | | | | |
| 12/24/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/24/2021 10:02 | 1 OFF | | | | | | |
| 12/25/2021 7:48 | 1 ON | | 2:14:14 | | | | |
| 12/25/2021 10:02 | 1 OFF | | | | | | |
| 12/26/2021 7:48 | 1 ON | | 2:14:14 | | | | |
| 12/26/2021 10:02 | 1 OFF | | | | | | |
| 12/27/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/27/2021 10:02 | 1 OFF | | | | | | |
| 12/28/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/28/2021 10:02 | 1 OFF | | | | | | |
| 12/28/2021 11:48 | 1 OFF | | | | | | |
| 12/29/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/29/2021 10:02 | 1 OFF | | | | | | |
| 12/29/2021 12:48 | 1 OFF | | | | | | |
| 12/30/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/30/2021 10:02 | 1 OFF | | | | | | |
| 12/31/2021 2:48 | 1 ON | | 7:14:14 | | | | |
| 12/31/2021 10:02 | 1 OFF | | | | | | |
| 1/1/2022 6:59 | 1 ON | | 27:03:00 | | | | |
| 1/2/2022 10:02 | 1 OFF | | | | | | |
| 1/3/2022 2:48 | 1 ON | | 2:00:00 | | | | |
| 1/3/2022 4:48 | 1 OFF | | | | | | |
| 1/3/2022 9:48 | 1 ON | | 0:14:14 | | | | |
| 1/3/2022 10:02 | 1 OFF | | | | | | |
| 1/4/2022 2:48 | 1 ON | | 7:14:14 | | | | |
| 1/4/2022 10:02 | 1 OFF | | | | | | |