

Board of Education Meeting
Thursday, March 21, 2019 6:30 PM
Derby Middle School Cafetorium 73 Chatfield
Street
35 Fifth Street
Derby, CT 06418

1. Call to Order
Speaker(s): Mr. Gildea
 - 1.A. Opening Ceremonies
Speaker(s): Mr. Gildea
 - 1.B. Roll Call
Speaker(s): Mr. Gildea
 - 1.C. Additions Deletions to the Agenda
2. Public Participation
Speaker(s): Mr. Gildea
3. Proclamation from Mayor Dziekan for Board Member Appreciation Month
Speaker(s): Mayor Dziekan
4. Bonnie B. Carney Award of Excellence in Educational Communications
Speaker(s): George Kurtyka
5. CAS Distinguished Friend of Education Award
6. Johnson Controls Performance Contract
Speaker(s): Dr. Conway, Mr. Alibrio, Mr. Mazzaferro
7. Subcommittee Reports
Speaker(s): Mr. Gildea
8. Superintendent's Report
Speaker(s): Dr. Conway
9. Administrator's Reports
 - 9.A. Technology Report
 - 9.B. Facilities Report
Speaker(s): Mr. Nardone
10. Approval of Minutes
Speaker(s): Mrs. Netto
11. Financial Report
Speaker(s): Mr. Izzo
12. FY 20 Operating Budget Adoption
Speaker(s): Dr. Conway & Mr. Izzo
13. Capital Project List
Speaker(s): Dr. Conway, Mr. Izzo
14. Open Mic on Education
15. Over Night Field Trip to Nature's Classroom
Speaker(s): Mr. Ciccarini, Mrs. Misset
16. Advanced Manufacturing Center
Speaker(s): Dr. Conway

17. Policy 3313 - Relations with Vendors
Speaker(s): Mrs. Harris
18. Policy 3453 - School Activity Account Policy and Form
Speaker(s): Mrs. Harris
19. Policy 5144.1 - Physical Restraint
Speaker(s): Mrs. Harris
20. Executive Session
Speaker(s): Mr. Gildea
21. Appointment of New Hires/Vacancy List
Speaker(s): Mr. Gildea
22. Resignation
Speaker(s): Mr. Gildea
23. Adjourn
Speaker(s): Mr. Gildea
24. Information Items
 - 24.A. Vacancy List
 - 24.B. Enrollment Report
 - 24.C. 2019 Check Registers
 - 24.D. Special Education Cost Summary
 - 24.E. Discipline Reports



DERBY BOARD OF EDUCATION
BOARD MEETING AGENDA

Derby Middle School Cafetorium
 73 Chatfield Street, Derby, CT 06418
 6:30 p.m.
 March 21, 2019

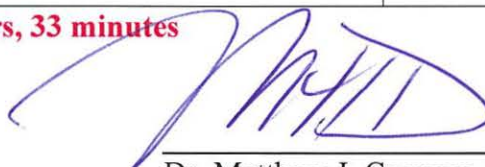
	ITEM	LEADER	TIME
I.	<u>CALL TO ORDER</u> a. Opening Ceremonies b. Roll Call c. Additions/Deletions to the Agenda	Mr. Gildea	6:30 p.m.
II.	<u>PUBLIC PARTICIPATION</u> * Prior to the commencement of any public meeting of any board of the city, the agenda for said meeting shall be posted in the meeting room and the first order of business of said meeting shall be the entertainment of public discussion on any item on said agenda and the conduct, length, and method of terminating said public discussion shall be determined by majority vote of the members of said board of commission.	Mr. Gildea	6:32 p.m.
III.	<u>PROCLAMATION</u> In recognition of the Derby Board of Education	Mayor Dziekan	6:35 p.m.
IV.	<u>BONNIE B. CARNEY AWARD OF EXCELLENCE IN EDUCATIONAL COMMUNICATIONS</u>	Mr. Kurtyka	6:40 p.m.

V.	<u>JOHNSON CONTROLS PERFORMANCE CONTRACT</u>	Dr. Conway Mr. Alibrio Mr. Mazzaferro	6:50 p.m.
VI.	<u>SUBCOMMITTEE REPORTS</u> Finance Committee Negotiations and Personnel Committee School/Community Relations and Policy Committee Plant and Facility Committee Long-Range Planning Committee Field House and Baseball Field Building Committee Student Health and Safety	Mr. Gildea Mrs. Picheco Mrs. Borrelli Mrs. Harris Mr. Gildea Mr. Marcucio Mr. Marcucio Mrs. Netto	7:05 p.m.
VII.	<u>SUPERINTENDENT'S REPORT</u>	Dr. Conway	7:10 p.m.
VIII.	<u>ADMINISTRATOR'S REPORTS</u> Technology Department Facilities Maintenance	Mr. Langridge	7:20 p.m.
IX.	<u>APPROVAL OF MINUTES</u> <u>Motion:</u> <i>That the Board of Education approve the minutes from the following meetings:</i> a. February 5, 2019 – Committee of the Whole b. February 21, 2019 – Board Meeting	Mrs. Netto	7:25 p.m.
X.	<u>FINANCIAL REPORT</u> <u>Motion:</u> <i>The Board of Education approve the financial report for the period through February 28, 2019, as recommended by the Superintendent of Schools.</i>	Mr. Izzo	7:28 p.m.
XI.	<u>FY 20 OPERATING BUDGET ADOPTION</u> <u>Motion:</u> <i>The Board of Education adopt its FY20 Budget for submission to the Board of Apportionment and Taxation, as recommended by the Superintendent of Schools.</i>	Dr. Conway Mr. Izzo	7:38 p.m.

XII.	<p><u>CAPITAL PROJECT LIST</u></p> <p>The updated list removes three items:</p> <ul style="list-style-type: none"> • Bradley School Replace Boilers • Irving School Replace Boilers • Irving School HVAC Upgrade 	Dr. Conway Mr. Izzo	8:00 p.m.
XIII.	<p><u>OPEN MIC ON EDUCATION</u></p> <p>Motion: <i>The Board of Education approve the promotional video contract with Open Mic, as recommended by the Superintendent of Schools.</i></p>	Dr. Conway	8:10 p.m.
XIV.	<p><u>OVER NIGHT FIELD TRIP TO NATURE’S CLASSROOM</u></p> <p>Motion: <i>The Board of Education approve the overnight field trip for Grade 5 students in Bradley and Irving School to Nature’s Classroom from May 15 to May 17, 2019, as recommended by the Superintendent of Schools.</i></p>	Mr. Ciccarini Mrs. Misset	8:15 p.m.
XV.	<p><u>SMART START GRANT</u></p> <p>Motion: <i>The Board of Education approve the submittal of the Smart Start Continuation of Funding Application for FY20-21 to the Connecticut Office of Early Childhood, as recommended by the Superintendent of Schools.</i></p>	Dr. Conway Mr. Izzo	8:20 p.m.
XVI.	<p><u>ADVANCED MANUFACTURING CENTER</u></p> <p>Motion: <i>The Board of Education grants the Chairman authority to execute the License Agreement with the State of Connecticut to use classroom space at Derby High School, as recommended by the Superintendent of Schools.</i></p>	Dr. Conway	8:25 p.m.
XVII.	<p><u>POLICY 3313 – RELATIONS WITH VENDORS</u></p> <p>Motion: <i>The Board of Education review Policy 3313 – Relations with Vendors as a First Read, as recommended by the Policy Committee.</i></p>	Mrs. Harris	8:35 p.m.
XVIII.	<p><u>POLICY 3453 – SCHOOL ACTIVITY FUND</u></p> <p>Motion: <i>The Board of Education review Policy 3453 – School Activity Fund as a First Read, as recommended by the Policy Committee.</i></p>	Mrs. Harris	8:40 p.m.

XIX.	<u>POLICY 5144.1- USE OF PHYSICAL FORCE</u> <u>Motion:</u> <i>The Board of Education review Policy 5144.1 – Use of Physical Force as a First Read, as recommended by the Policy Committee.</i>	Mrs. Harris	8:43 p.m.
XX.	<u>EXECUTIVE SESSION:</u> <u>Motion:</u> <i>The Board of Education enter into Executive Session to review the appointment of new hires, accept the resignation of the special education secretary, and a personnel matter-nurse, and the Superintendent of Schools is invited to attend.</i>	Mr. Gildea	8:47 p.m.
XXI.	<u>APPOINTMENT OF NEW HIRES</u> <u>Motion:</u> <i>The Board of Education approve the appointment of new hires, as recommended by the Superintendent of Schools.</i>	Mr. Gildea	8:57 p.m.
XXII.	<u>RESIGNATION</u> <u>Motion:</u> <i>The Board of Education accept the resignation of the Special Education Secretary with regret and best wishes.</i>	Mr. Gildea	9:00 p.m.
XXIII.	<u>ADJOURN</u> <u>Motion:</u> <i>The Board of Education adjourn its meeting.</i>	Mr. Gildea	9:03 p.m.

TOTAL ESTIMATED MEETING TIME: **2 hours, 33 minutes**



Dr. Matthew J. Conway, Jr.
Superintendent of Schools

Informational Items:

- Vacancy List
- Discipline Reports
- Enrollment Report
- 2019 Check Registers



Mayor Richard Dziekan
City of Derby, CT

PROCLAMATION

In Recognition of the Derby Board of Education Members

WHEREAS, public education is the underpinning to economic growth and the overall stability of Derby and Connecticut; and

WHEREAS, the mission of the public schools is to meet the diverse educational needs of all children and to empower them to become competent, productive contributors to a democratic society and an ever-changing world; and

WHEREAS, local school board members are committed to children and believe that all children can be successful learners and that the best education is tailored to the individual needs of the child; and

WHEREAS, local school board members work closely with parents, educational professionals, and other community members to create the educational vision we want for our students; and

WHEREAS, local school board members are responsible for ensuring the structure that provides a solid foundation for our school system; and

WHEREAS, local school board members provide an environment which encourages enthusiasm for learning for our children enrolled in Derby Public Schools; and

WHEREAS, local school board members are strong advocates for public education and are responsible for communicating the needs of the school district to the public and the public's expectations to the district; and

WHEREAS, these volunteer representatives serve Derby's children well, giving tremendous time, energy and dedication and have greatly contributed to the future of this community, state, and nation;

NOW, THEREFORE, I, Mayor Richard Dziekan, do hereby declare my appreciation to the members of the Derby Board of Education and proclaim the month of March 2019, as **BOARD MEMBER APPRECIATION MONTH** in Derby. I urge all citizens to join me in recognizing the dedication and hard work of local school board members and in working with them to mold an education system that meets the needs of both today's and tomorrow's children.

IN OFFICIAL RECOGNITION WHEREOF, I hereby affix my signature this twenty first day of March, 2019.

Richard Dziekan
Mayor, City of Derby





Connecticut Association of Boards of Education

81 Wolcott Hill Road, Wethersfield, CT 06109-1242 • (860) 571-7446 • Fax (860) 571-7452 • www.cabe.org

Robert Mitchell
President
Montville

October 9, 2018

Donald Harris
First Vice President
Bloomfield

Dr. Matthew Conway
Superintendent
Derby Public Schools
35 Fifth Street,
Derby, CT 06418

Elizabeth Brown
Vice President
for Government Relations
Waterbury

Christopher Wilson
Vice President
for Professional Development
Bristol

Dear Dr. Conway, 

Michael Purcaro
Secretary/Treasurer
Ellington

Congratulations! We are delighted to inform you that your school district has won a **Bonnie B. Carney Award of Excellence for Educational Communications**. A list of the winners is attached. Please check the list to see which one of your entries won the award.

Ann Gruenberg
Immediate Past President
Hampton

Again, this year CABE will make the presentations in the winning school districts. A member of our Board of Directors or Senior Staff will come to your school district and make the presentation at a meeting of your Board of Education.

Bryan Hall
Executive Committee
Member at Large
East Hartford

One of CABE's continuing goals is to bring recognition to the talented staff members who created these outstanding winning entries, as well as to your entire district. Therefore, we believe that by making the presentation at your board meeting you will have the opportunity to invite the local media, and members of the staff and the community who otherwise would be unable to attend the awards presentation ceremony at the Convention. You will be contacted after the CABE/CAPSS Convention to set up a date and time to make the presentation.

Lydia Tedone
NSBA Director
Simsbury

Winning districts will be showcased at the 2018 CABE/CAPSS Convention in November. Please send approximately 10 copies of your winning entry, **PRINT MATERIAL ONLY**, (videos, computer generated projects and website excluded). Send your material for display to CABE, 81 Wolcott Hill Road, Wethersfield, CT 06109 **BEFORE NOVEMBER 9, 2018** or bring them to the registration area before 7:30 a.m. on Friday, November 16, 2016.

Robert Rader
Executive Director

Patrice A. McCarthy
Deputy Director
and General Counsel

Rebecca Adams
Senior Staff Attorney

Nicholas D. Caruso, Jr.
Senior Staff Associate
for Field Services

If you have any questions or comments about this process, please contact me at lsteimer@cabe.org or 860-571-7446.

Sheila McKay
Senior Staff Associate
for Government Relations

Sincerely,

Vincent A. Mustaro
Senior Staff Associate
for Policy Service


Lisa Steimer
Senior Staff Associate for Professional Development and Communications

Lisa M. Steimer
Senior Staff Associate
for Professional Development
and Communications

Teresa Costa
Coordinator of Finance
and Administration

Enclosure

2018 Bonnie B Carney Award of Excellence in Education Communications Award Entries

UNDER 2000 ADM

Social Media

Award Winner

Derby Public Schools

Social Media

Honorable Mention

Cheshire Public Schools

Mrs. Dube's Kindergarten Blog

Going Green

Award Winner

EASTCONN

Special Education Service

Newsletter

Award Winners

Region 6 Public Schools

The Harvester

Region 12 Public Schools

Newsletter Spring 2018

Region 12 Public Schools

Class of 2017 Report

Honorable Mention

Region 1 Public Schools

Quarterly Newsletter to the Public

Annual Report

Award Winner

EASTCONN

EASTCONN Annual Board Update 2017-2018

District Budget

Award Winner

Salem Public Schools

Salem Board of Education Approved Budget SY 2018-2019

Honorable Mentions

Derby Public Schools

District Budget Presentation 2018-2019

Lyme-Old Lyme Region 18 Public Schools

District Budget Book April 2018

Parent/Student Handbook

Award Winner
Woodbridge Public Schools
Parent/Student Handbook

Honorable Mention
Region 8 Public Schools
Course Selection Guide and Video

Course Selection Guide

Award Winner
EASTCONN
Summer of Community Education Catalog

Calendar

Award Winner
Woodbridge Public Schools
Beecher Road School Calendar

Honorable Mention
Derby Public Schools
District Calendar

Special Project

Award Winners
EdAdvance
Professional Learning Opportunities Catalog 2018-2019

EdAdvance
EdAdvance Program Folder

Honorable Mention
EASTCONN
Redesign of all EASTCONN Materials

Special Project (AV)

Award Winner
Derby Public Schools
W-IRV News

Honorable Mention
EASTCONN
Arts at the Capito Theater

Computer Generated Projects

Award Winners

EASTCONN

Welcome Back PowerPoint

EdAdvance

EdAdvance Agency PowerPoint

Web Sites

Award Winner

Lyme-Old Lyme Region 18 Public Schools

District Website

Honorable Mention

Bethany Public Schools

Bethany Community School Web Site

2000-5000 ADM

Social Media

Award Winner
Windsor Public Schools
Twitter

Honorable Mention
Bloomfield Public Schools
Facebook and Twitter

Going Green

Award Winner
Plainville Public Schools
Going Green

Honorable Mention
Brookfield Public Schools
11th Annual Poster Recycling Contest

Newsletter

Award Winner
Bloomfield Public Schools
Leadership for Learning

Honorable Mention
Newington Public Schools
Weekly Digital Publication

Annual Report

Award Winner
Plainville Public Schools
Plainville Community Schools Business Brief

District Budget

Award Winner
Wilton Public Schools
Proposed Budget

Honorable Mention
Wilton Public Schools
Infographic

Parent/Student Handbook

Award Winner

LEARN

Student Support Services and Programs

Honorable Mentions

Newington Public Schools

Student Handbook

Naugatuck Public Schools

Student and Family Handbook

Course Selection Guide

Award Winner

Newington Public Schools

Digital Newington High School Program of Studies

Honorable Mention

Plainville Public Schools

Adult and Continuing Education Program Guide

Calendar

Award Winner

New Fairfield Public Schools

New Fairfield Public Schools 2018-19 Calendar

Honorable Mention

LEARN

Administrative Calendar July 2018-June 2019

Special Project

Award Winners

Vernon Public Schools

Communications Plan – Billboards

LEARN

The LEARN Leader

Honorable Mentions

Simsbury Public Schools

Emergency Response Guide

Vernon Public Schools

School Brochures

Special Project (AV)

Award Winners

Plainville Public Schools

Plainville High School Intro Video for Incoming Freshmen

ACES

Transforming Lives

Honorable Mention

Plainville Public Schools

Plainville Community Schools Website Navigation Video

Computer Generated Projects

Award Winner

LEARN

Convocation Slideshow

Web Sites

Award Winner

Newington Public Schools

District Website

Honorable Mention

Madison Public Schools

Website Enhancements

OVER 5000 ADM

Social Media

Award Winner

Waterbury Public Schools

Facebook

Honorable Mention

Norwalk Public Schools

Facebook

Newsletter

Award Winner

Norwalk Public Schools

Districtwide Newsletter

Honorable Mention

Glastonbury Public Schools

School Report - Community Newsletter

Annual Report

Award Winner

East Hartford Public Schools

State of the Schools Annual Report

Honorable Mention

Norwalk Public Schools

State of the Schools

District Budget

Award Winner

Glastonbury Public Schools

Board of Education Approved Budget 2018-2019

Honorable Mention

Fairfield Public Schools

2018-2019 Board of Education Proposal Budget "Moving Forward"

Calendar

Award Winner

Glastonbury Public Schools

Glastonbury High School 2018-2019 Calendar

Special Project

Award Winner

Stamford Public Schools

Strategic Plan Overview

Honorable Mention

Greenwich Public Schools

Website Access Orientation and Training

Special Project (AV)

Award Winner

Glastonbury Public Schools

Veterans' Day 2017

Honorable Mention

Fairfield Public Schools

Music Curriculum Presentation

Computer Generated Projects

Award Winner

Fairfield Public Schools

Fairfield Public Schools 2016-2017 Data Analysis

Web Sites

Award Winner

Fairfield Public Schools

Fairfield Public Schools Website

PERFORMANCE CONTRACT

This Performance Contract (this “Agreement”) is made this [redacted] day of [redacted], 20[redacted] between:

PARTIES

JOHNSON CONTROLS, INC. (“JCI”)
27 Inwood Rd
Rocky Hill, CT 06067

and

City of Derby, CT (“Customer”)
1 Elizabeth St. Derby, CT 06418

RECITALS

WHEREAS, Customer desires to retain JCI to perform the work specified in Schedule 1 (Scope of Work) hereto (the “Work”) relating to the installation of the improvement measures (the “Improvement Measures”) described therein; and

WHEREAS, Customer is authorized and empowered under applicable Laws (as defined below) to enter into this Agreement, and has taken all necessary action under applicable Laws to enter into this Agreement; and

WHEREAS, Customer has selected JCI to perform the Work after it determined JCI’s proposal was the most advantageous to Customer in accordance with all applicable procurement and other Laws.

NOW, THEREFORE, in consideration of the mutual promises set forth herein, the parties agree as follows:

AGREEMENT

- 1. SCOPE OF THE AGREEMENT.** JCI shall perform the Work set forth in Schedule 1. After the Work is Substantially Complete (as defined below) and the Certificate of Substantial Completion is executed by Customer and JCI, JCI shall provide the assured performance guarantee (the “Assured Performance Guarantee”) and the measurement and verification services (the “M&V Services”) set forth in Schedule 2 (Assured Performance Guarantee), as applicable. Customer shall make payments to JCI for the Work and the M&V Services in accordance with Schedule 4 (Price and Payment Terms).
- 2. AGREEMENT DOCUMENTS:** In addition to the terms and conditions of this Agreement, the following Schedules are incorporated into and shall be deemed an integral part of this Agreement:

Schedule 1 – Scope of Work
Schedule 2 – Assured Performance Guarantee
Schedule 2A – Assured Performance Guarantee – Utility Meters
Schedule 3 – Customer Responsibilities
Schedule 4 – Price and Payment Terms
- 3. NOTICE TO PROCEED; SUBSTANTIAL COMPLETION; M&V SERVICES.** This Agreement shall become effective on the date of the last signature on the signature page below. JCI shall commence performance of the Work within ten (10) business days of receipt of Customer’s Notice to Proceed, a form of which is attached hereto as Attachment 1, and shall achieve Substantial Completion of the Work by the Substantial Completion date, which shall be the earlier of:

- (a) the date on which Customer executes a Certificate of Substantial Completion substantially in the form attached hereto as Attachment 3;
- or
- (b) [14 months] after JCI's receipt of Customer's Notice to Proceed, subject to adjustments set forth in Section 4 and Section 5 below.

For purposes of this Agreement, "Substantial Completion" means that JCI has provided sufficient materials and services to permit Customer to operate the Improvement Measures. The M&V Services shall commence on the first day of the month following the month in which Customer executes a Certificate of Substantial Completion and shall continue throughout the Guarantee Term, subject to earlier termination of the Assured Performance Guarantee as provided herein. Customer acknowledges and agrees that if, for any reason, it (i) cancels or terminates receipt of M&V Services, (ii) fails to pay for M&V Services in accordance with Schedule 4, (iii) fails to fulfill any of Customer's responsibilities necessary to enable JCI to complete the Work and provide the M&V Services, or (iv) otherwise cancels, terminates or materially breaches this Agreement, the Assured Performance Guarantee shall automatically terminate and JCI shall have no liability thereunder.

- 4. DELAYS AND IMPACTS.** If JCI is delayed in the commencement, performance, or completion of the Work and/or M&V Services by causes beyond its control and without its fault, including but not limited to inability to access property; concealed or unknown conditions encountered at the project, differing from the conditions represented by Customer in the bid documents or otherwise disclosed by Customer to JCI prior to the commencement of the Work; a Force Majeure (as defined below) condition; failure by Customer to perform its obligations under this Agreement; or failure by Customer to cooperate with JCI in the timely completion of the Work, JCI shall provide written notice to Customer of the existence, extent of, and reason for such delays and impacts. Under such circumstances, an equitable adjustment in the time for performance, price and payment terms, and the Assured Performance Guarantee shall be made.
- 5. ACCESS.** Customer shall provide JCI, its subcontractors, and its agents reasonable and safe access to all facilities and properties in Customer's control that are subject to the Work and M&V Services. Customer further agrees to assist JCI, its subcontractors, and its agents to gain access to facilities and properties that are not controlled by Customer but are necessary for JCI to complete the Work and provide the M&V Services. An equitable adjustment in the time for performance, price and payment terms, and Assured Performance Guarantee shall be made as a result of any failure to grant such access.
- 6. PERMITS, TAXES, AND FEES.** Unless otherwise specified in Schedule 3 (Customer Responsibilities), JCI shall be responsible for obtaining all building permits required for it to perform the Work. Unless otherwise specified in Schedule 1 (Scope of Work), Customer shall be responsible for obtaining all other permits, licenses, approvals, permissions and certifications, including but not limited to, all zoning and land use changes or exceptions required for the provision of the Work or the ownership and use of the Improvement Measures. JCI shall not be obligated to provide any changes to or improvement of the facilities or any portion thereof required under any applicable building, fire, safety, sprinkler or other applicable code, standard, law, regulation, ordinance or other requirement unless the same expressly regulates the installation of the Improvement Measures. Without limiting the foregoing, JCI's obligations with respect to the Work is not intended to encompass any changes or improvements that relate to any compliance matters (whether known or unknown) that are not directly related to the installation of the Improvement Measures or which have been imposed or enforced because of the occasion or opportunity of review by any governmental authority. Customer shall be responsible for and shall pay when due all assessments, charges and sales, use, property, excise, or other taxes now or hereafter imposed by any governmental body or agency upon the provision of the Work or the M&V Services, implementation or presence of the Improvement Measures, the use of the Improvement Measures or payments due to JCI under this Agreement, other than taxes upon the net income of JCI. Customer shall also be responsible for real or personal property taxes relating to equipment or material included in the Improvement Measures. Any fees, taxes, or other lawful charges paid by JCI on account of Customer shall become immediately due from Customer to JCI.
- 7. WARRANTY.** JCI will perform the Work in a professional, workman-like manner. JCI will promptly re-perform any non-conforming Work for no charge, as long as Customer provides written notice to JCI within one (1) year following Substantial Completion or such other period identified in Schedule 1. If JCI installs or furnishes goods or equipment under this Agreement, and such goods or equipment are covered by an end-user warranty from

their manufacturer, JCI will transfer the benefits of such warranty to Customer. The foregoing remedy with respect to the Work, together with any remedy provided by goods or equipment manufacturers, shall be Customer's sole and exclusive remedies for warranty claims. Customer agrees that the one (1) year period following Substantial Completion, or such other period identified in Schedule 1, shall be a reasonable time for purposes of submitting valid warranty claims with respect to the Work. These exclusive remedies shall not have failed of their essential purpose so long as JCI transfers the benefits of any goods or equipment end-user warranty to Customer and remains willing to re-perform any non-conforming Work for no charge within the one (1) year period described above or such other period identified in Schedule 1. NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE PROVIDED BY JCI. This warranty does not extend to any Work that has been abused, altered, or misused, or repaired by Customer or third parties without the supervision or prior written approval of JCI. Except with respect to goods or equipment manufactured by JCI and furnished to Customer hereunder, for which JCI shall provide its express written manufacturer's warranty, JCI shall not be considered a merchant or vendor of goods or equipment.

8. **CLEANUP.** JCI shall keep the premises and the surrounding area free from accumulation of waste materials or rubbish caused by the Work and, upon completion of the Work, JCI shall remove all waste materials, rubbish, tools, construction equipment, machinery, and surplus materials.
9. **SAFETY; COMPLIANCE WITH LAWS.** JCI shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work and M&V Services. Each of JCI and Customer shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of public authorities (collectively, "Laws") in connection with its performance hereunder.
10. **ASBESTOS-CONTAINING MATERIALS AND OTHER HAZARDOUS MATERIALS.**

Asbestos-Containing Materials: Neither party desires to or is licensed to undertake direct obligations relating to the identification, abatement, cleanup, control, removal or disposal of asbestos-containing materials ("ACM"). Consistent with applicable Laws, Customer shall supply JCI with any information in its possession relating to the presence of ACM in areas where JCI undertakes any Work or M&V Services (the "ACM Documentation") that may result in the disturbance of ACM. It is JCI's policy to seek certification for facilities constructed prior to 1982 that no ACM is present, and Customer shall provide available records for buildings it owns, or aid JCI in obtaining such records from facility owners in the case of buildings that Customer does not own, if JCI will undertake Work or M&V Services in the facility that could disturb ACM. JCI may rely on the ACM Documentation to determine if ACM will be disturbed or handled during the Work and shall notify the Customer in writing two (2) business days prior to performing any work in a location where, according to the ACM Documentation, ACM is present, may be present, or is assumed to be present. If the ACM Documentation indicates that no ACM is present in an area where JCI undertakes work and if either Customer or JCI becomes aware of or suspects the presence of ACM that may be disturbed by JCI's Work or M&V Services, it shall promptly stop the Work or M&V Services in the affected area and notify the other. Except as required by Schedule 1 – Scope of Work or except where the ACM Documentation is silent as to or indicates the presence or possibility of ACM, as between Customer and JCI, Customer shall be responsible at its sole expense for addressing the potential for or the presence of ACM in conformance with all applicable Laws and addressing the impact of its disturbance before JCI continues with its Work or M&V Services. If JCI had actual knowledge that ACM was present, or the ACM Documentation is silent as to or indicates the presence or possibility of ACM, JCI shall be responsible at its sole expense for remediating areas impacted by the disturbance of the ACM and the implementation of the work described in Schedule 1 – Scope of work. JCI shall have no liability to Customer for (a) the identification, abatement, cleanup, removal, or disposal of ACM in areas where the ACM Documentation indicates that no ACM is present, and (b) any JCI action or inaction due to inaccuracies in the ACM Documentation.

Other Hazardous Materials: JCI shall be responsible for removing or disposing of any Hazardous Materials (as defined below) that it uses in providing Work or M&V Services ("JCI Hazardous Materials") and for the remediation of any areas impacted by the release of JCI Hazardous Materials. For other Hazardous Materials that may be otherwise present at Customer's facilities ("Non-JCI Hazardous Materials"), Customer shall supply JCI with any information in its possession relating to the presence of such materials if their presence may affect JCI's performance of the Work or M&V Services. JCI must determine if Hazardous Materials will be disturbed

or handled during the Work and JCI must notify the Customer in writing two (2) business days prior to performing any Work in or about a location where Hazardous Material are present or likely will be found. When such Work is completed, JCI must notify the Customer in writing within one (1) business day of completion of the work. If either Customer or JCI becomes aware of or suspects the presence of Non-JCI Hazardous Materials that may interfere with JCI's Work or M&V Services, it shall promptly stop the Work or M&V Services in the affected area and notify the other. As between Customer and JCI, Customer shall be responsible at its sole expense for removing and disposing of Non-JCI Hazardous Materials from its facilities and the remediation of any areas impacted by the release of Non-JCI Hazardous Materials, unless JCI had actual knowledge that Non-JCI Hazardous Materials were present and acted with intentional disregard of that knowledge, in which case (i) JCI shall be responsible at its sole expense for the remediation of any areas impacted by its release of such Non-JCI Hazardous Materials, and (ii) Customer shall remain responsible at its sole expense for the removal of Non-JCI Hazardous Materials that have not been released and for releases not resulting from JCI's performance of the Work or M&V Services. For purposes of this Agreement, "Hazardous Materials" means any material or substance that, whether by its nature or use, is now or hereafter defined or regulated as a hazardous waste, hazardous substance, pollutant or contaminant under applicable Law relating to or addressing public or employee health and safety and protection of the environment, or which is toxic, explosive, corrosive, flammable, radioactive, carcinogenic, mutagenic or otherwise hazardous or which is or contains petroleum, gasoline, diesel, fuel, another petroleum hydrocarbon product, or polychlorinated biphenyls. "Hazardous Materials" specifically includes mold and lead-based paint and specifically excludes ACM. JCI shall have no obligations relating to the identification, abatement, cleanup, control, removal, or disposal of mold, regardless of the cause of the mold.

Environmental Indemnity: To the fullest extent permitted by Law, Customer shall indemnify and hold harmless JCI and JCI's subcontractors, and their respective directors, officers, employees, agents, representatives, shareholders, affiliates, and assigns and successors, from and against any and all losses, costs, damages, expenses (including reasonable legal fees and defense costs), claims, causes of action or liability, directly or indirectly, relating to or arising from the Customer's use, or the storage, release, discharge, handling or presence of ACM, mold (actual or alleged and regardless of the cause of such condition) or Non-JCI Hazardous Materials on, under or about the facilities, or Customer's failure to comply with this Section 10.

- 11. CHANGE ORDERS.** The parties, without invalidating this Agreement, may request changes in the Work to be performed under this Agreement, consisting of additions, deletions, or other revisions to the Work ("Change Orders"). The price and payment terms, time for performance and, if necessary, the Assured Performance Guarantee, shall be equitably adjusted in accordance with the Change Order. Such adjustments shall be determined by mutual agreement of the parties. JCI may delay performance until adjustments arising out of the Change Order are clarified and agreed upon. Any Change Order must be signed by an authorized representative of each party. If concealed or unknown conditions are encountered at the project, differing from the conditions represented by Customer in the bid documents or otherwise disclosed by Customer to JCI prior to the commencement of the Work, price and payment terms, time for performance and, if necessary, the Assured Performance Guarantee, shall be equitably adjusted. Claims for equitable adjustment may be asserted in writing within a reasonable time from the date a party becomes aware of a change to the Work by written notification. Failure to promptly assert a request for equitable adjustment, however, shall not constitute a waiver of any rights to seek any equitable adjustment with respect to such change.
- 12. CUSTOMER FINANCING; TREATMENT; TAXES.** The parties acknowledge and agree that JCI is not making any representation or warranty to Customer with respect to matters not expressly addressed in this Agreement, including, but not limited to:
- (a) Customer's ability to obtain or make payments on any financing associated with paying for the Improvement Measures, related services, or otherwise;
 - (b) Customer's proper legal, tax, accounting, or credit rating agency treatment relating to this Agreement; and
 - (c) the necessity of Customer to raise taxes or seek additional funding for any purpose.

Customer is solely responsible for its obligations and determinations with respect to the foregoing matters. In addition, the parties acknowledge and agree that Customer shall be responsible to comply, at its cost and expense, with all Laws that may be applicable to it relating to performance contracting, including, without

limitation, any requirements relating to the procurement of goods and/or services and any legal, accounting, or engineering opinions or reviews required or obtained in connection with this Agreement.

13. INSURANCE. JCI shall maintain insurance in amounts no less than those set forth below in full force and effect at all times until the Work has been completed, and shall provide a certificate evidencing such coverage promptly following Customer's request therefor.

COVERAGES	LIMITS OF LIABILITY
Workmen's Compensation Insurance or self insurance, including Employer's Liability	Statutory
Commercial General Liability Insurance	\$5,000,000 Per Occurrence \$5,000,000 Aggregate
Comprehensive Automobile Liability Insurance	\$5,000,000 Combined Single Limit

The above limits may be obtained through primary and excess policies, and may be subject to self-insured retentions.

Customer shall be responsible for obtaining builder's risk insurance coverage for the Improvement Measures and shall at all times be responsible for any loss or casualty to the Improvement Measures. Customer shall also maintain insurance coverage, of the types and in the amounts customary for the conduct of its business, throughout the term of this Agreement.

14. INDEMNIFICATION. To the fullest extent permitted by applicable Law, each party shall indemnify the other with respect to any third party claim alleging bodily injury, including death, or property damage to the extent such injury or damage is caused by the negligence or willful misconduct of the indemnifying party. A condition precedent to any obligation of a party to indemnify the other pursuant to this Section 14 shall be for the indemnified party to promptly advise the indemnifying party of the claim pursuant to the notice provision of this Agreement.

15. LIMITATION OF LIABILITY. NEITHER JCI NOR CUSTOMER WILL BE RESPONSIBLE TO THE OTHER FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL, REMOTE, PUNITIVE, EXEMPLARY, LOSS OF PROFITS OR REVENUE, LOSS OF USE, OR SIMILAR DAMAGES, REGARDLESS OF HOW CHARACTERIZED AND REGARDLESS OF A PARTY HAVING BEEN ADVISED OF THE POSSIBILITY OF SUCH POTENTIAL LOSSES OR RELIEF, ARISING IN ANY MANNER FROM THIS AGREEMENT, THE WORK, THE IMPROVEMENT MEASURES, THE PREMISES, THE M&V SERVICES, OR OTHERWISE. WITHOUT LIMITING JCI'S EXPRESS OBLIGATIONS UNDER THE ASSURED PERFORMANCE GUARANTEE, JCI'S LIABILITY UNDER THIS AGREEMENT, REGARDLESS OF THE FORM OF ACTION, SHALL IN NO EVENT EXCEED THE AMOUNT OF THE PAYMENTS ACTUALLY RECEIVED BY JCI UNDER SCHEDULE 4. If this Agreement covers fire safety or security equipment, Customer understands that JCI is not an insurer regarding those services, and that JCI shall not be responsible for any damage or loss that may result from fire safety or security equipment that fails to prevent a casualty loss. The foregoing waivers and limitations are fundamental elements of the basis for this Agreement between JCI and Customer, and each party acknowledges that JCI would not be able to provide the work and services contemplated by this Agreement on an economic basis in the absence of such waivers and limitations, and would not have entered into this Agreement without such waivers and limitations.

16. FORCE MAJEURE. Neither party will be responsible to the other for damages, loss, injury, or delay caused by conditions that are beyond the reasonable control, and without the intentional misconduct or negligence of that party. Such conditions (each, a "Force Majeure") include, but are not limited to: acts of God; acts of government agencies; strikes; labor disputes; fires; explosions or other casualties; thefts; vandalism; riots or war; acts of terrorism; electrical power outages; interruptions or degradations in telecommunications, computer, or electronic communications systems; changes in Laws; or unavailability of parts, materials or supplies.

17. JCI'S PROPERTY. All materials furnished or used by JCI personnel and/or JCI subcontractors or agents at the installation site, including documentation, schematics, test equipment, software and associated media remain the exclusive property of JCI or such other third party. Customer agrees not to use such materials for any purpose at any time without the express authorization of JCI. Customer agrees to allow JCI personnel and/or JCI subcontractors or agents to retrieve and to remove all such materials remaining after installation or

maintenance operations have been completed. Customer acknowledges that any software furnished in connection with the Work and/or M&V Services is proprietary and subject to the provisions of any software license agreement associated with such software.

- 18. DISPUTES.** JCI and Customer will attempt to settle any controversy, dispute, difference, or claim between them concerning the performance, enforcement, or interpretation of this Agreement (collectively, "Dispute") through direct discussion in good faith, but if unsuccessful, will submit any Dispute to non-binding mediation in the nearest major metropolitan area of the state where the project is performed. If the parties are unable to agree on a mediator or a date for mediation, either party may request JAMS, Inc. to appoint a mediator and designate the time and procedure for mediation. Such mediator shall be knowledgeable, to each party's reasonable satisfaction, with respect to matters concerning construction law. Neither JCI nor Customer will file a lawsuit against the other until not less than sixty (60) days after the mediation referred to herein has occurred, unless one or both parties is genuinely and reasonably concerned that any applicable statute of limitations is on the verge of expiring. JCI AND CUSTOMER HEREBY WAIVE THEIR RESPECTIVE RIGHTS TO A JURY TRIAL AS TO ANY CLAIM OR CAUSE OF ACTION BASED UPON, ARISING OUT OF OR DIRECTLY OR INDIRECTLY RELATED TO THIS AGREEMENT, INCLUDING CONTRACT, TORT AND STATUTORY CLAIMS, AND EACH OF THE PARTIES HERETO ACKNOWLEDGES THAT THIS WAIVER IS A MATERIAL INDUCEMENT TO ENTER INTO A BUSINESS RELATIONSHIP, THAT EACH HAS RELIED ON THIS WAIVER IN ENTERING INTO THIS AGREEMENT, AND THAT EACH WILL CONTINUE TO RELY ON THIS WAIVER IN THEIR RELATED FUTURE DEALINGS UNDER THIS AGREEMENT.
- 19. GOVERNING LAW.** This Agreement and the construction and enforceability thereof shall be interpreted in accordance with the laws of the state where the Work is conducted.
- 20. CONSENTS; APPROVALS; COOPERATION.** Whenever Customer's consent, approval, satisfaction or determination shall be required or permitted under this Agreement, and this Agreement does not expressly state that Customer may act in its sole discretion, such consent, approval, satisfaction or determination shall not be unreasonably withheld, qualified, conditioned or delayed, whether or not such a "reasonableness" standard is expressly stated in this Agreement. Whenever Customer's cooperation is required by JCI in order to carry out JCI's obligations hereunder, Customer agrees that it shall act in good faith and reasonably in so cooperating with JCI and/or JCI's designated representatives or assignees or subcontractors. Customer shall furnish decisions, information, and approvals required by this Agreement in a timely manner so as not to delay the performance of the Work or M&V Services.
- 21. FURTHER ASSURANCES.** The parties shall execute and deliver all documents and perform all further acts that may be reasonably necessary to effectuate the provisions of this Agreement.
- 22. INDEPENDENT CONTRACTOR.** The relationship of the parties hereunder shall be that of independent contractors. Nothing in this Agreement shall be deemed to create a partnership, joint venture, fiduciary, or similar relationship between the parties.
- 23. POWER AND AUTHORITY.** Each party represents and warrants to the other that (i) it has all requisite power and authority to execute and deliver this Agreement and perform its obligations hereunder, (ii) all corporate, board, body politic, or other approvals necessary for its execution, delivery, and performance of this Agreement have been or will be obtained, and (iii) this Agreement constitutes its legal, valid, and binding obligation.
- 23. SEVERABILITY.** In the event that any clause, provision, or portion of this Agreement or any part thereof shall be declared invalid, void, or unenforceable by any court having jurisdiction, such invalidity shall not affect the validity or enforceability of the remaining portions of this Agreement unless the result would be manifestly inequitable or materially impair the benefits intended to inure to either party under this Agreement.
- 24. COMPLETE AGREEMENT.** It is understood and agreed that this Agreement contains the entire agreement between the parties relating to all issues involving the subject matter of this Agreement. No binding understandings, statements, promises or inducements contrary to this Agreement exist. This Agreement supersedes and cancels all previous agreements, negotiations, communications, commitments and understandings with respect to the subject matter hereof, whether made orally or in writing. Each of the parties to this Agreement expressly warrants and represents to the other that no promise or agreement which is not

herein expressed has been made to the other, and that neither party is relying upon any statement or representation of the other that is not expressly set forth in this Agreement. Each party hereto is relying exclusively on the terms of this Agreement, its own judgment, and the advice of its own legal counsel and/or other advisors in entering into this Agreement. Customer acknowledges and agrees that any purchase order issued by Customer associated with this Agreement is intended only to establish payment authority for Customer's internal accounting purposes. No purchase order shall be considered a counteroffer, amendment, modification, or other revision to the terms of this Agreement.

- 25. HEADINGS.** The captions and titles in this Agreement are for convenience only and shall not affect the interpretation or meaning of this Agreement.
- 26. COUNTERPARTS.** This Agreement may be executed in any number of counterparts, all of which when taken together shall constitute one single agreement between the parties.
- 27. NOTICES.** All notices or communications related to this Agreement shall be in writing and shall be deemed served if and when sent by facsimile or mailed by certified or registered mail: to Johnson Controls, Inc. at the address listed on the first page of this Agreement, ATTN: Regional Solutions Manager, with a copy to Johnson Controls, Inc., ATTN: General Counsel – Building Efficiency Americas, 507 East Michigan Street, Milwaukee, Wisconsin, 53202: and to Customer at the address listed on the first page of this Agreement.

CITY OF DERBY

JOHNSON CONTROLS, INC.

Signature: _____

Signature: _____

Printed Name: _____

Printed Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

SCOPE OF WORK

Table 1.1

Derby City and School District
Facility Information

Name of Building	Address	SF
Derby High School	95 Chatfield St	135,689
Derby Middle School	73 Chatfield Street	72,000
Bradley Elementary School	155 David Humphreys Road	41,489
Irving Elementary School	9 Garden Place	58,120
City Hall	1 Elizabeth Street	17,224
DPW HWY 1	5 Coon Hollow Road	38,401
Library	313 Elizabeth Street	14,700
Fire 1 (Hotchkiss Hose Co.)	250 David Humphrey Road	6,570
Fire 2 (Storm Engine Co.)	151 Olivia Street	5,850
Fire 3 (East End Hose)	1750 Derby Milford Road	3,074
Fire 4 (Paugassett H & L)	55 Derby Avenue	10,000
Police	125 Water Street	12,326
Veteran Community Center/Central Office	35 Fifth Street	22,770
WPCA	1 Caroline Street	11,625
Senior Center	293 Main Street	11,723
Total		461,561

SUMMARY OF MEASURES

Table 1.2 summarizes the Facility Improvement Measures (ECMs) included in the Energy Performance Contract for the City of Derby & Derby School District facilities as listed in Table 1.1.

Facility Improvement Measures (ECMs)

Table 1.2

ECM	PROPOSED MEASURES	Derby HS	Derby MS	Bradley	Irving	DPW	Library	City Hall	Fire 1
FIM 1	Lighting - Fixture Retrofit	✓	✓	✓	✓	✓	✓	✓	✓
FIM 3	Lighting - Exterior Lighting	✓	✓	✓	✓	✓	✓	✓	✓
FIM 4	Building Envelope Improvements - Weatherization	✗	✗	✗	✗	✗	✗	✗	✗
FIM 5.1	Energy Management System - Temperature Setback	✗							
FIM 5.2	Energy Management System - Recommissioning		✓	✗	✓		✗	✓	
FIM 7	Heating Distribution System - Pipe and Valve Insulation	✓	✓	✓	✓		✓		✓
FIM 8.2	Oil to Gas Conversion - Boiler/Burner Replacements			✓	✓				
FIM 10	Domestic Hot Water System - Energy Efficient DHW Installation	✓				✗			
FIM 20.2	Kitchen Hood - Exhaust Fan Control w/Override Timer	✗	✗	✗	✗				
FIM 21	Computers - Power Management	✓	✓	✓	✓		✗	✗	
FIM 22	Water Conservation	✓	✓	✓	✓	✓	✓	✓	✓
FIM 23	Vending Machine Controllers	✓	✓	✓	✓				
FIM 24	Renewable Energy- Photovoltaic Electric Generation	✗	✓	✓	✓				
FIM 31	Plug Load Controllers	✓	✓	✓	✓	✓	✓	✓	
FIM 36	VRF Installation	✗		✗	✓				
FIM 37	Air Conditioning Compressor Controllers				✓	✓	✓	✓	✓
FIM 39	Transformers - Replacements	✗	✓						
FIM 40	Refrigeration Compressor Controllers	✓	✓						
FIM 41	RTU Replacement							✓	
Totals		9	11	9	13	5	6	6	5

Table 1.2 (continued)

ECM	PROPOSED MEASURES	Fire 2	Fire 3	Fire 4	Police	Señitor	Community	WPCA	VARCA
FIM 1	Lighting - Fixture Retrofit	✓	✓	✓	✓	✓	✓	✓	✗
FIM 3	Lighting - Exterior Lighting	✓	✓	✓	✓	✓	✓	✓	✗
FIM 4	Building Envelope Improvements - Weatherization	✗	✗	✗	✗	✗	✗	✗	
FIM 5.1	Energy Management System - Temperature Setback					✗	✓		
FIM 5.2	Energy Management System - Recommissioning								
FIM 7	Heating Distribution System - Pipe and Valve Insulation	✓		✓			✓		
FIM 8.2	Oil to Gas Conversion - Boiler/Burner Replacements								
FIM 10	Domestic Hot Water System - Energy Efficient DHW Installation						✗		
FIM 20.2	Kitchen Hood - Exhaust Fan Control w/Override Timer								
FIM 21	Computers - Power Management					✗	✗		
FIM 22	Water Conservation	✓	✓	✓	✓	✓	✓	✓	
FIM 23	Vending Machine Controllers	✓			✓				
FIM 24	Renewable Energy- Photovoltaic Electric Generation			✗			✗	✗	
FIM 31	Plug Load Controllers					✓	✓		
FIM 36	VRF Installation								
FIM 37	Air Conditioning Compressor Controllers	✓	✓	✓	✓	✓	✓	✓	
FIM 39	Transformers - Replacements							✓	
FIM 40	Refrigeration Compressor Controllers								
FIM 41	RTU Replacement								
Totals		6	4	5	5	5	7	5	0

Legend:	
✓	Measure(s) Selected
✗	Measure(s) not included in this package
✓	Measure(s) added as a result of 11/19/2018 meeting
✗	Measure(s) removed as a result of 10/23/2018 conference call
	Measure(s) modified February 2019

1. JCI will provide submittals of the materials and equipment to be installed in the scopes of work for review by Customer.
2. The Customer will provide JCI with a timely response to requests for approval for material to be used in Schedule 1.
3. The Customer will provide all Ethernet drops and IP Addresses as needed for the ECMs where controls are installed.
4. JCI and its subcontractors will acquire necessary permits and inspections for work done under this agreement
5. Correction of any existing applicable building code violations identified by JCI during the execution of the Work are excluded
6. Both JCI and Customer agree that maintaining a budget neutral project consisting of Energy Conservation Measures (ECMs) selected in table 1.2, is contingent upon State reimbursement for Solar PV systems. The Notice to Proceed in Attachment 1 has been structured so as Customer may authorize implementation with the majority of ECMs while application for State reimbursement is processed.

ECM-1 & 2 Lighting Retrofit

Johnson Controls will install new high efficiency lighting.

Johnson Controls has performed a lighting survey. A lighting Line-by Line of the survey is included as Attachment 1. Buildings that have been selected for lighting retrofits are included in tables 1.3 and 1.4 below.

1.1. Scope of Work

- 1.2. As specified in Attachment 1, older technology T8 and T12 lamps will be removed and new LED lamps will be installed in its place.
- 1.3. Recessed 2'x4', 2'x2' and 1'x4' troffers will be retrofit with LED Volumetric retrofit kits equipped with fixture integrated occupancy sensor to allow for "Adaptive Control" strategies
- 1.4. Screw-in Incandescent and Screw-in compact fluorescent lamps at pendant mount cans and high-hat fixture locations will be replaced with LED bulbs.
- 1.5. High bay and low bay fixtures will be replaced with New LED High/Low Bay fixtures equipped with fixture integrated sensors to allow for "Adaptive Control "strategies.
- 1.6. Exterior HID fixtures, (115 Watts and higher) including building mounted wall-packs and flood lights, will be replaced with new LED fixtures.
- 1.7. Low voltage Exterior HID fixtures (50-100W) will be retrofitted with LED Bulbs and Linear Tubes.
- 1.8. Existing Drum Fixtures will be replaced with New 14W LED Drum Fixtures.
- 1.9. "Adaptable Controls" is the name given to the control strategy that utilizes fixture integrated occupancy sensors that can be adjusted wirelessly from the ground, have a high-end trim to reduce the initial light output, a low light level setting for when occupancy is not present with an additional time delay before going off. Daylight harvesting is also provided by the same sensor and will dim each fixture to take advantage of available sunlight.
- 1.10. Emergency Ballasts will be replaced and compatible with New Direct Drive LED Lamps.

Table 1.3

Summary by Building - Interior	New Fixtures	Retrofit Kits	Re-Lamp	Re-Lamp/ Re Ballast
Bradley School	43	141	22	189
DPW HWY 1 & 2	38	0	20	23
Fire 1	0	32	24	38
Fire 2	0	49	0	33
Fire 2-Ambulance Building Next Door	0	8	1	9
Fire 3	1	8	4	12
Fire 4	13	16	9	16
High School	28	66	62	192
Irving School	18	316	12	129
Library	2	84	48	160
Marcucio sports field	0	10	0	14
Middle School	6	62	82	73
Muni parking garage	95	0	7	6
Parking deck	0	0	0	0
Police	14	111	23	63
Senior Center	18	53	40	73
Town Hall	4	223	53	40
Vet Comm Cntr	109	17	32	41
WPCA	18	16	0	78
Total Interior	407	1212	439	1189

Table 1.4

Summary by Building - Exterior	Existing Fixtures	Retrofit Fixtures	New Fixtures	Total
Bradley School	55	55	12	67
DPW HWY 1 & 2	8	8	0	8
Fire 1	7	7	0	7
Fire 2	7	7	0	7
Fire 2-Ambulance Building Next Door	0	0	0	0
Fire 3	5	5	1	6
Fire 4	7	7	0	7
High School	22	22	0	22
Irving School	5	5	3	8
Library	5	5	3	8
Marcucio sports field	16	16	0	16
Middle School	4	4	0	4
Muni parking garage	0	0	0	0
Parking deck	7	7	6	13
Police	12	12	0	12
Senior Center	3	3	0	3
Town Hall	11	11	0	11
Vet Comm Cntr	7	7	2	9
WPCA	27	27	0	27
Total Exterior	208	208	27	235

2. Clarifications

- 2.1. All existing LED fixtures will remain in place.
- 2.2. Repair or upgrades required to rectify existing lighting or electrical system code violations unless specifically described in this scope of work are excluded.
- 2.3. Repair or replacement of defective equipment, other than the equipment specifically described above. Johnson Controls will identify the location of defective equipment and notify the owner
- 2.4. Reconfiguration of existing lighting system layout, is excluded, except where noted herein
- 2.5. Scope of work excludes decorative HIDs, remote ballasted HIDs, and HIDs recessed in solid ceilings or walls.
- 2.6. Customer is responsible for repair and replacement throughout the term of the guarantee.
- 2.7. Repair, replacement, or calibration of damaged or defective motion sensors, time clocks, switches, breakers, and wiring unless otherwise noted in the Scope of Work
- 2.8. Repair, replacement or upgrade of existing indoor or exterior emergency and/or egress lighting system unless otherwise noted in the Scope of Work.
- 2.9. Repair or replacement of cracked, broken, missing, yellowed, or damaged fixture lenses or louvers unless otherwise noted in the Scope of Work.

ECM-4 Energy Management System – Install new DDC system

**1. Supervisory Controller
Community Center**

- Provide new web-enabled platform network supervisory controller for each building. New and existing points scheduled for migration shall be incorporated in the new supervisory network. Incorporate the functionality of existing systems and the new control sequences described below as required to meet savings guarantee. Provide alarming and trending.
- Network supervisory controllers shall be integrated into a temperature control network running on remote server at owner-specified location.
- Owner IT department to provide addresses and permissions for integration to site LAN.

**2. Air Handling Unit DDC Refit
Community Center**

- Convert / migrate existing air-handling units to DDC Control, including replacement of existing pneumatic end devices with electronic type.
- This includes the following points and sequences:
 - Economizer control, including outdoor air enthalpy change-over on cooling equipment
 - Mixed air/low-limit control
 - Heating (discharge or room control as required by current configuration)
 - Cooling (discharge or room control as required by current configuration)
 - Discharge control
 - Freeze protection
 - Local or remote set point control
 - Warm-up/Cool-down

Building	# of Units
Community Center	4

Building	Location	Area Served	Equipment	Fuel / Energy	Manufacturer
Community Center	Pool MER	Pool	HV-1	Electric/HW	Trane
Community Center	Stage	Gymnasium	HV-2	Electric/HW	Trane
Community Center	Roof	Central Offices	RTU	Electric/Gas	Trane
Community Center	Roof	Central Offices	RTU	Electric	No Nameplate

**3. DDC Refit ECM
Irving School & Community Center**

- Convert / migrate pneumatics controls to DDC Control, including electronic end-devices.
- This includes the following points and sequences:
 - Economizer control, including outdoor air enthalpy change-over on cooling equipment
 - Heating
 - Cooling
 - Discharge control
 - Freeze protection
 - Local or remote set point control
 - Warm-up/Cool-down

Schedule 1

Building	Unit Ventilator	Pneumatic T-Stat	Radiator Classroom / Office	Radiator Hall / Storage	Electric T-Stat	DDC T-Stat	Progr. T-Stat	Fan Coil	Convect or	Unit Heater
Irving School	0	24	29	21	0	6	0	1	1	0
Community Center	0	8	4	7	2	1	2	0	3	2

4. Clarifications

- 1) Repair or replacement of defective electrical, mechanical or controls equipment, other than the equipment specifically described in the ECM description is excluded. Johnson Controls will identify the location of observed defective equipment and notify the owner.
- 2) Repair or upgrades required due to rectify existing code violations, unless specifically described in this scope of work.
- 3) Repair, replacement or upgrade of existing emergency systems unless otherwise noted in the Scope of Work.
- 4) Resolution of existing design, service, and or distribution conditions known or unknown

ECM-4.1 Energy Management System - Recommissioning

1. Derby Middle School:

- Provide repair and refurbishment of existing Alerton DDC controls.
 - Verify sequence of operations will achieve specified energy savings and meet customers' needs
 - Stroke end devices.
 - Verify operation of control devices. Calibrate as necessary; replace devices which prove defective or unreliable.
 - Program night setback controls.

Building	DDC T-Stat	Fan Coil	Convector
Derby Middle School	47	6	1

2. Irving School:

- Provide repair and refurbishment of existing Automated Logic DDC controls.
 - Verify sequence of operations will achieve specified energy savings and meet customers' needs
 - Stroke end devices.
 - Verify operation of control devices. Calibrate as necessary; replace devices which prove defective or unreliable.
 - Program night setback controls.
- Install new DDC thermostats in areas where they not installed (Some classrooms did not have thermostats installed).

Building	Pneumatic T-Stat	Radiator Classroom / Office	Radiator Hall / Storage	DDC T-Stat	Fan Coil	Convector
Irving School	24	29	21	6	1	1

3. City Hall:

- Provide repair and refurbishment of existing Trane DDC controls.
 - Verify sequence of operations will achieve specified energy savings and meet customers' needs. Verify that the 1st floor VAV system is capable of meeting required temperature setpoints in all modes of operation.
 - Stroke end devices.
 - Verify operation of control devices. Calibrate as necessary; replace devices which prove defective or unreliable.
 - Program night setback controls.
 -

Building	Radiator Hall / Storage	Electric T-Stat	DDC T-Stat	Programable T-Stat	Convector
City Hall	13	1	19	1	4

4. Clarifications

1. Repair or replacement of defective electrical, mechanical or controls equipment, other than the equipment specifically described in the ECM description is excluded. Johnson Controls will identify the location of observed defective equipment and notify the owner.
2. Repair or upgrades required due to rectify existing code violations, unless specifically described in this scope of work.
3. Repair, replacement or upgrade of existing emergency systems unless otherwise noted in the Scope of Work.
4. Resolution of existing design, service, and or distribution conditions known or unknown

ECM-4.2 Energy Management System – Exhaust Fan/Relief Damper Controls

1. Relief Dampers

Irving School

- Provide DDC control for relief dampers
- Repair or replace damper assemblies as required
- Provide manually activated or schedule control to achieve specified energy savings and meet customers’ needs
- Control is to be open/close (not proportional)

Building	Relief Dampers
Irving School	7

2. Exhaust Fans

Community Center

- Provide DDC control for all exhaust fans, quantities as indicated in itemization
- Provide start/stop, status, and alarm
- Provide occupancy programming/control to achieve specified energy savings and meet customers’ needs
- Tie in existing units that are already tied into the existing pneumatic controls to the new BMS

Building	Exhaust Fans
Community Center	8
Total	8

3. Clarifications

1. Repair or replacement of defective electrical, mechanical or controls equipment, other than the equipment specifically described in the ECM description is excluded. Johnson Controls will identify the location of observed defective equipment and notify the owner.
2. Repair or upgrades required due to rectify existing code violations, unless specifically described in this scope of work.
3. Repair, replacement or upgrade of existing emergency systems unless otherwise noted in the Scope of Work.
4. Resolution of existing design, service, and or distribution conditions known or unknown

ECM-4.3 Energy Management System – Optimal Start

1. Community Center

Provide additional programming that controlled HVAC equipment will operate with an optimal start warm up cycle.

2. Clarifications

1. Repair or replacement of defective electrical, mechanical or controls equipment, other than the equipment specifically described in the ECM description is excluded. Johnson Controls will identify the location of observed defective equipment and notify the owner.
2. Repair or upgrades required due to rectify existing code violations, unless specifically described in this scope of work.
3. Repair, replacement or upgrade of existing emergency systems unless otherwise noted in the Scope of Work.
4. Resolution of existing design, service, and or distribution conditions known or unknown

ECM-5 Pipe & Valve Insulation

1. Scope of Work

Johnson Controls will insulate the exposed piping and valves in locations identified in Table 1.7. The insulation will prevent the loss of heat from the pipes, thereby saving boiler energy as well as reducing overheating conditions in adjacent spaces.

- 1.1. Pipe insulation shall be pre-formed fiberglass with protective all-service jacketing, with R-Value to meet current energy code guidelines.
- 1.2. Valves, flanges, Heat exchanger heads insulated with custom fabricated removable insulation blankets.
- 1.3. Tanks & Heat exchanger bodies insulated with fiberglass pipe & tank wrap, covered with all-service protective jackets.

Table 1.7

Building	Room	Component	Pipe Material	Fluid Type	Nominal Pipe Dia (" or Tank Surface Area	Qty or Length / Size	Units
Bradley Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	4	2	Units
Bradley Elementary School	Boiler Room	Flange	Iron	MTHW	4	2	Units
Bradley Elementary School	Boiler Room	Gate Valve	Iron	MTHW	4	4	Units
Bradley Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	2	15	LF
Bradley Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	2	8	Units
Bradley Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	3	6	LF
Bradley Elementary School	Boiler Room	T Intersection	Iron	MTHW	3	4	Units
Bradley Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	4	9	LF
Bradley Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	4	4	Units
Bradley Elementary School	Boiler Room	T Intersection	Iron	MTHW	4	2	Units
Bradley Elementary School	Boiler Room	In-Line Pump	Iron	MTHW	2	2	Units
Bradley Elementary School	Boiler Room	In-Line Pump	Iron	MTHW	2	4	Units
Bradley Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	2	15	LF
Bradley Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	2	13	Units
Bradley Elementary School	Boiler Room	Straight Pipe	Copper - polis	MTHW	2.5	6	LF
Bradley Elementary School	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	2.5	2	Units
Bradley Elementary School	Boiler Room	Strainer	Iron	MTHW	2	1	Units

ECM-5 Pipe & Valve Insulation – Table 1.7 (continued)

Bradley Elementary School	Boiler Room	In-Line Pump	Iron	MTHW	2	1	Units
Bradley Elementary School	Boiler Room	Check Valve	Iron	MTHW	2	7	Units
Bradley Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	1.5	12	LF
Bradley Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	1.5	11	Units
Bradley Elementary School	Boiler Room	Control Valve	Iron	MTHW	1.5	1	Units
Bradley Elementary School	Boiler Room	Control Valve	Iron	MTHW	2	1	Units
Bradley Elementary School	Boiler Room	Flo-Check	Iron	MTHW	2	3	Units
Library	Boiler Room	Air Seperator Tank	Iron	MTHW	7.85	1	Units
Library	Boiler Room	Strainer	Iron	MTHW	2.5	1	Units
Library	Boiler Room	In-Line Pump	Iron	MTHW	2.5	2	Units
Library	Boiler Room	Check Valve	Iron	MTHW	2.5	2	Units
Library	Boiler Room	Check Valve	Iron	MTHW	2.5	1	Units
Library	Boiler Room	Flange	Iron	MTHW	2.5	2	Units
Library	Boiler Room	Straight Pipe	Iron	MTHW	2.5	2	LF
Library	Boiler Room	90 Degree Elbow	Iron	MTHW	2	1	Units
Library	Boiler Room	Gate Valve	Iron	MTHW	2	1	Units
Library	Boiler Room	Flange	Iron	MTHW	2	4	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	5	2	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	5	2	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	4	3	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	4	1	Units
Veteran Community Center/Central Office	Boiler Room	T Intersection	Iron	MTHW	4	1	Units
Veteran Community Center/Central Office	Boiler Room	Butterfly Valve	Iron	MTHW	4	1	Units

ECM-5 Pipe & Valve Insulation – Table 1.7 (continued)

Veteran Community Center/Central Office	Boiler Room	Flange	Iron	MTHW	4	1	Units
Veteran Community Center/Central Office	Boiler Room	Gate Valve	Iron	MTHW	3	2	Units
Veteran Community Center/Central Office	Boiler Room	3-Way Valve	Iron	MTHW	3	1	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	3	1	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	3	1	Units
Veteran Community Center/Central Office	Boiler Room	Flo-Check	Iron	MTHW	3	1	Units
Veteran Community Center/Central Office	Boiler Room	Flo-Check	Iron	MTHW	2	2	Units
Veteran Community Center/Central Office	Boiler Room	Check Valve	Iron	MTHW	2	2	Units
Veteran Community Center/Central Office	Boiler Room	Gate Valve	Iron	MTHW	2.5	2	Units
Veteran Community Center/Central Office	Boiler Room	Gate Valve	Iron	MTHW	2	1	Units
Veteran Community Center/Central Office	Boiler Room	In-Line Pump	Iron	MTHW	2.5	2	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	1.5	4	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	1 1/2	2	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Copper - polis	MTHW	1 1/2	30	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	1 1/2	10	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	2	21	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	2	4	Units
Veteran Community Center/Central Office	Boiler Room	In-Line Pump	Iron	MTHW	1 1/2	1	Units
Veteran Community Center/Central Office	Boiler Room	In-Line Pump	Iron	MTHW	2	1	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	6	1	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	6	1	Units
Veteran Community Center/Central Office	Boiler Room	T Intersection	Iron	MTHW	6	1	Units
Veteran Community Center/Central Office	Boiler Room	Flange	Iron	MTHW	6	1	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	5	2	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	5	1	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	4	3	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	4	1	Units
Veteran Community Center/Central Office	Boiler Room	Butterfly Valve	Iron	MTHW	4	1	Units
Veteran Community Center/Central Office	Boiler Room	Straight Pipe	Iron	MTHW	2	1	LF
Veteran Community Center/Central Office	Boiler Room	90 Degree Elbow	Iron	MTHW	2	1	Units

ECM-5 Pipe & Valve Insulation – Table 1.7 (continued)

Veteran Community Center/Central Office	Pool Pump Room	Straight Pipe	Copper - polis	MTHW	2	24	LF
Veteran Community Center/Central Office	Pool Pump Room	90 Degree Elbow	Copper - polis	MTHW	2	12	Units
Veteran Community Center/Central Office	Pool Pump Room	Straight Pipe	Steel	MTHW	2	11	LF
Veteran Community Center/Central Office	Pool Pump Room	Heat Exchanger	Iron	MTHW	9 4/5	1	Units
Veteran Community Center/Central Office	Pool Pump Room	Flange	Iron	MTHW	10	1	Units
Veteran Community Center/Central Office	Pool Pump Room	Gate Valve	Iron	MTHW	2	1	Units
Veteran Community Center/Central Office	Pool Pump Room	Control Valve	Iron	MTHW	2	1	Units
Veteran Community Center/Central Office	Pool Pump Room	Straight Pipe	Iron	MTHW	2	2	LF
Veteran Community Center/Central Office	Pool Pump Room	90 Degree Elbow	Iron	MTHW	2	1	Units
Middle School	Boiler Room	90 Degree Elbow	Iron	MTHW	2 1/2	2	Units
Middle School	Boiler Room	90 Degree Elbow	Iron	CHW	4	2	Units
Middle School	Boiler Room	Flange	Iron	CHW	4	2	Units
Middle School	Boiler Room	Air Seperator Tank	Iron	MTHW	31 2/5	1	Units
Middle School	Boiler Room	Straight Pipe	Iron	MTHW	6	3	LF
Middle School	Boiler Room	Flange	Iron	MTHW	6	2	Units
Middle School	Boiler Room	Strainer	Iron	MTHW	4	1	Units
Middle School	Boiler Room	Strainer	Iron	MTHW	2 1/2	1	Units
Middle School	Boiler Room	Straight Pipe	Iron	MTHW	4	9	LF
Middle School	Boiler Room	90 Degree Elbow	Iron	MTHW	4	4	Units
Middle School	Boiler Room	T Intersection	Iron	MTHW	4	1	Units
Middle School	Boiler Room	Flange	Iron	MTHW	4	2	Units
Middle School	Boiler Room	Flange	Iron	MTHW	2 1/2	4	Units
Middle School	Boiler Room	Centrifugal Pump	Iron	MTHW	2 1/2	2	Units
Middle School	Boiler Room	Centrifugal Pump	Iron	MTHW	4	1	Units
Middle School	Boiler Room	Check Valve	Iron	MTHW	4	2	Units

ECM-5 Pipe & Valve Insulation – Table 1.7(continued)

Irving Elementary School	Boiler Room	Flange	Iron	LPS	6	2	Units
Irving Elementary School	Boiler Room	Gate Valve	Iron	LPS	6	2	Units
Irving Elementary School	Boiler Room	Gate Valve	Iron	LPS	5	1	Units
Irving Elementary School	Boiler Room	Bonnet	Iron	LPS	4	1	Units
Irving Elementary School	Boiler Room	Gate Valve	Iron	LPS	4	2	Units
Irving Elementary School	Boiler Room	Strainer	Iron	LPS	2	1	Units
Irving Elementary School	Boiler Room	Control Valve	Iron	LPS	2	1	Units
Irving Elementary School	Boiler Room	Flange	Iron	LPS	4	1	Units
Irving Elementary School	Boiler Room	Flange	Iron	MTHW	12	1	Units
Irving Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	2	6	LF
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	2	2	Units
Irving Elementary School	Boiler Room	Flo-Check	Iron	MTHW	2	1	Units
Irving Elementary School	Boiler Room	Ball valve	Iron	MTHW	2	1	Units
Irving Elementary School	Boiler Room	Air Seperator Tank	Iron	MTHW	7 6/7	1	Units
Irving Elementary School	Boiler Room	Strainer	Iron	MTHW	2	1	Units
Irving Elementary School	Boiler Room	In-Line Pump	Iron	MTHW	2	1	Units
Irving Elementary School	Boiler Room	Straight Pipe	Iron	Cond	1	3	LF
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	Cond	1	2	Units
Irving Elementary School	Boiler Room	Strainer	Iron	Cond	1	3	Units
Irving Elementary School	Boiler Room	Steam Trap	Iron	Cond	1	1	Units
Irving Elementary School	Boiler Room	Straight Pipe	Iron	Cond	2	2	LF
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	Cond	2	3	Units
Irving Elementary School	Boiler Room	Straight Pipe	Iron	Cond	1 1/2	4	LF
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	Cond	1 1/2	1	Units
Irving Elementary School	Boiler Room	Strainer	Iron	Cond	1 1/2	1	Units
Irving Elementary School	Boiler Room	Steam Trap	Iron	Cond	1 1/2	1	Units
Irving Elementary School	Boiler Room	Strainer	Iron	Cond	2	1	Units
Irving Elementary School	Boiler Room	Steam Trap	Iron	Cond	2	1	Units
Irving Elementary School	Boiler Room	Gate Valve	Iron	Cond	3	1	Units

ECM-5 Pipe & Valve Insulation – Table 1.7(continued)

Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	Cond	3	2	Units
Irving Elementary School	Boiler Room	Steam Trap	Iron	Cond	1	1	Units
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	Cond	1 1/4	4	Units
Irving Elementary School	Boiler Room	Straight Pipe	Iron	Cond	2	8	LF
Irving Elementary School	Boiler Room	Straight Pipe	Iron	Cond	1	1	LF
Irving Elementary School	Boiler Room	Straight Pipe	Iron	Cond	2	2	LF
Irving Elementary School	Boiler Room	Strainer	Iron	Cond	1	1	Units
Irving Elementary School	Boiler Room	Strainer	Iron	LPS	1 1/2	1	Units
Irving Elementary School	Boiler Room	Heat Exchanger	Iron	MTHW	6 2/3	1	Units
Irving Elementary School	Boiler Room	Flange	Iron	MTHW	10	1	Units
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	2	1	Units
Irving Elementary School	Boiler Room	Straight Pipe	Copper - polis	MTHW	1 1/4	4	LF
Irving Elementary School	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	1 1/4	1	Units
Irving Elementary School	Boiler Room	Straight Pipe	Iron	MTHW	1 1/2	1	LF
Irving Elementary School	Boiler Room	90 Degree Elbow	Iron	MTHW	1 1/2	2	Units
Irving Elementary School	Boiler Room	Strainer	Iron	MTHW	1 1/2	1	Units
Irving Elementary School	Boiler Room	In-Line Pump	Iron	MTHW	1 1/4	3	Units
Paugassett Hook & Ladder Co.	Boiler Room	Straight Pipe	Copper - polis	MTHW	2	9	LF
Paugassett Hook & Ladder Co.	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	2	4	Units
Paugassett Hook & Ladder Co.	Boiler Room	Straight Pipe	Iron	MTHW	2	18	LF
Paugassett Hook & Ladder Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	2	5	Units
Paugassett Hook & Ladder Co.	Boiler Room	Straight Pipe	Copper - polis	MTHW	1 1/4	2	LF
Paugassett Hook & Ladder Co.	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	1 1/4	1	Units
Paugassett Hook & Ladder Co.	Boiler Room	Flo-Check	Iron	MTHW	1 1/4	1	Units
Paugassett Hook & Ladder Co.	Boiler Room	Straight Pipe	Iron	MTHW	1 1/2	6	LF
Paugassett Hook & Ladder Co.	Boiler Room	Air Scoop	Iron	MTHW	1 1/2	1	Units
Paugassett Hook & Ladder Co.	Boiler Room	In-Line Pump	Iron	MTHW	1 1/2	1	Units
Paugassett Hook & Ladder Co.	Boiler Room	In-Line Pump	Iron	MTHW	2	1	Units
Storm Engine Co.	Boiler Room	Straight Pipe	Iron	MTHW	2	24	LF
Storm Engine Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	2	10	Units
Storm Engine Co.	Boiler Room	45 Degree Elbow	Iron	MTHW	2	2	Units

ECM-5 Pipe & Valve Insulation – Table 1.7 (continued)

Storm Engine Co.	Boiler Room	Straight Pipe	Iron	MTHW	1	69	LF
Storm Engine Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	1	8	Units
Storm Engine Co.	Boiler Room	Straight Pipe	Iron	MTHW	1 1/4	32	LF
Storm Engine Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	1 1/4	7	Units
Storm Engine Co.	Boiler Room	45 Degree Elbow	Iron	MTHW	1 1/4	2	Units
Storm Engine Co.	Boiler Room	Straight Pipe	Copper - polis	MTHW	2	9	LF
Storm Engine Co.	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	2	2	Units
Storm Engine Co.	Boiler Room	Straight Pipe	Copper - polis	MTHW	1	6	LF
Storm Engine Co.	Boiler Room	90 Degree Elbow	Copper - polis	MTHW	1	1	Units
Storm Engine Co.	Boiler Room	In-Line Pump	Iron	MTHW	1	4	Units
Hotchkiss Hose Co.	Boiler Room	Straight Pipe	Iron	MTHW	2	13	LF
Hotchkiss Hose Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	2	6	Units
Hotchkiss Hose Co.	Boiler Room	Flo-Check	Iron	MTHW	1 1/2	1	Units
Hotchkiss Hose Co.	Boiler Room	Straight Pipe	Iron	MTHW	1 1/2	24	LF
Hotchkiss Hose Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	1 1/2	9	Units
Hotchkiss Hose Co.	Boiler Room	Straight Pipe	Iron	MTHW	1	16	LF
Hotchkiss Hose Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	1	8	Units
Hotchkiss Hose Co.	Boiler Room	Straight Pipe	Iron	MTHW	3/4	6	LF
Hotchkiss Hose Co.	Boiler Room	90 Degree Elbow	Iron	MTHW	3/4	3	Units
Hotchkiss Hose Co.	Boiler Room	Ball Valve	Iron	MTHW	1	4	Units
Hotchkiss Hose Co.	Boiler Room	Ball Valve	Iron	MTHW	2	2	Units
Hotchkiss Hose Co.	Boiler Room	In-Line Pump	Iron	MTHW	1	2	Units
Hotchkiss Hose Co.	Boiler Room	In-Line Pump	Iron	MTHW	2	1	Units
Hotchkiss Hose Co.	Boiler Room	Air Scoop	Iron	MTHW	1 1/2	1	Units
Hotchkiss Hose Co.	Boiler Room	In-Line Pump	Iron	MTHW	1 1/2	1	Units

MTHW- Medium Temperature Hot Water
 LPS- Low Pressure Steam
 Cond- Condensate
 CHW- Chilled Water

2. Clarifications

2.1. Asbestos abatement and hazardous material remediation is excluded except as described in Article 10

- 2.2. Repairs/replacement of piping and piping ancillaries found to be corroded or rusted or otherwise unacceptable for installation of the insulation other than what is specified in the Scope of Work are excluded

ECM-6 Oil to Gas Fuel Conversions – Boiler/Burner Replacements

1. Bradley School

- 1.1. Remove two (2) existing boilers and dispose of properly.
- 1.2. Furnish & Install two (2) HB S.th28 RTS-HE-W-7 with Powerflame dual fuel C2-GO-15 full modulation burner with control links and a Heat Timer Multi-mod modulating controller
- 1.3. Install a new natural gas service to boiler room and connect to new gas train furnished with boilers. New service to be installed from Utility provided meter at building exterior.
- 1.4. Connect new boilers to existing oil lines.
- 1.5. Install new boilers in same location.
- 1.6. Assemble and install boiler-burner units in compliance with manufacturer's installation instructions.
- 1.7. Boilers shall be hydrostatically pressure tested at factory in accordance with ASME requirements.
- 1.8. Connect new piping to the existing header.
- 1.9. New header isolation valves valves will be installed.
- 1.10. Furnish & Install new breaching in accordance with manufacturer's recommendation, along with proper drains and acid neutralization.
- 1.11. Piping to be insulated in compliance with applicable 2012 Energy Code.
- 1.12. Startup boilers. Perform combustion efficiency test per M&V requirements.
- 1.13. Provide Pipe Supports, Hangers and Brackets
- 1.14. Provide Valve Tags and ID Chart
- 1.15. Provide Pipe Labeling and Directional Arrows
- 1.16. Boilers will be equipped with lead lag control performed by the new DDC control system.

2. Irving School

- 2.1. Remove and dispose of existing burners. Boilers to remain in place.
- 2.2. Furnish & install two (2) new Power Flame dual fuel burners (matching existing boiler input).
- 2.3. Burners to be equipped with Honeywell linkageless fuel air controllers.
- 2.4. Install a new natural gas service to boiler room and connect to new gas train furnished with burners. New service to be installed from Utility provided meter at building exterior.
- 2.5. Assemble and install burner units in compliance with manufacturer's installation instructions.
- 2.6. Startup burners. Perform combustion efficiency test per M&V requirements.

3. Clarifications

- 3.1. Asbestos abatement and hazardous material remediation is excluded except as described in Article 10
- 3.2. Boiler(s) and controls to comply with applicable regulations in effect at the time of contract signing.
- 3.3. Existing Housekeeping pads (Bradley School) will be re-used for new equipment.
- 3.4. JCI will coordinate with Utility for installation of new gas services. Cost of new gas services is not included in this scope.
- 3.5. Resolution of existing design, service, and or distribution conditions known or unknown is excluded
- 3.6. Correction of any existing applicable building code violations and Federal Americans with Disabilities Act (ADA) violations identified by JCI during the execution of the Work is excluded. Such violations will be brought to the attention of the Customer for remedy
- 3.7. Repair or replacement of defective mechanical, electrical and controls equipment and electrical distribution system is excluded, except the equipment described in the Scope of Work (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer)
- 3.8. Existing fuel oil system will be reused. Repairs, replacements or upgrades to this system are excluded.

- 3.9. Excludes CO and Combustible Gas Detectors
- 3.10. Excludes all Fire Alarm Work, Testing, and Tie In
- 3.11. Includes testing and balancing for newly installed equipment only
- 3.12. All references in this document to the applicable Energy Code refer to the International Code Council International Energy Conservation Code (ICC IECC), version 2012. ICC IECC 2012 is the energy code mandated and incorporated by the State of Connecticut at the time of contract execution.

ECM-7 Domestic Hot Water (DHW) Replacement

JCI will install new high efficiency hot water heaters. The schools currently utilize standard efficiency domestic hot water heaters.

1. High School Locker Rooms

- 1.1. Remove existing two electric DHW heaters and dispose of properly (one DHW heater in each Fan Room)
- 1.2. Provide and install one (1) AO Smith Model BTH-250 gas fired, condensing domestic hot water heater in the boys' locker room fan room that will supply both the boys' and girls' locker rooms.
- 1.3. Reconnect piping to Boy's DHW system in Fan Room, provide new piping to connection points located in Girl's Locker room Fan Room
- 1.4. Provide new gas feed from adjacent gas service.
- 1.5. Furnish & install new breaching in accordance with manufacturer's instructions.
- 1.6. Provide Pipe Supports, Hangers and Brackets
- 1.7. Provide Valve Tags and ID Chart
- 1.8. Provide Pipe Labeling and Directional Arrows
- 1.9. Replace two (2) re-circulation Bronze Pumps (DHW)
- 1.10. Replace two (2) Domestic Hot Water 3 Way Mixing Valves, one for each DHW system.
- 1.11. Seal new roof penetrations.
- 1.12. Furnish and install piping required.
- 1.13. Insulate new piping in accordance with applicable 2012 Energy Code
- 1.14. Provide Required Electrical Control Wiring
- 1.15. Provide Manufacturer's warranty on new equipment

2. High School Kitchen

- 2.1. Remove existing DHW heater and dispose of properly
- 2.2. Provide and install one (1) AO Smith Model BTH-300 gas fired, condensing domestic hot water heater
- 2.3. Reconnect piping to kitchen DHW system.
- 2.4. Provide new gas feed from adjacent gas service.
- 2.5. Furnish & install new breaching in accordance with manufacturer's instructions.
- 2.6. Provide Pipe Supports, Hangers and Brackets
- 2.7. Provide Valve Tags and ID Chart
- 2.8. Provide Pipe Labeling and Directional Arrows
- 2.9. Replace re-circulation Bronze Pump (DHW)
- 2.10. Replace Domestic Hot Water 3 Way Mixing Valve
- 2.11. Seal new roof penetrations.
- 2.12. Furnish and install piping required.
- 2.13. Insulate all new piping in accordance with applicable 2012 Energy Code
- 2.14. Provide Required Electrical Control Wiring
- 2.15. Provide Manufacturer's warranty on new equipment

3. Clarifications

- 3.1. Asbestos Abatement and hazardous materials remediation is Excluded except as described in Article 10 of this agreement
- 3.2. Resolution of existing design, service, and or distribution conditions known or unknown is excluded
- 3.3. Correction of any existing applicable building code violations and Federal Americans with Disabilities Act (ADA) violations identified by JCI during the execution of the Work is excluded. Such violations will be brought to the attention of the Customer for remedy

- 3.4. Repair or replacement of defective mechanical, electrical and controls equipment and electrical distribution system is excluded, except the equipment described in the Scope of Work (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer)
- 3.5. Repairs/replacement of wiring, insulation, piping or ductwork found to be corroded or rusted and unacceptable for installation of components or fittings required for installation other than what is specified in the Scope of Work

ECM-9 Computer Power Management

JCI will install computer power management software in Schools to increase efficiency and optimize savings. Software will be installed per table 1.10 below.

Table 1.8

Unit Type	Count
Personal Computer	370

1. Scope of Work

- 1.1. Furnish and install Surveyor Perpetual computer power management software
- 1.2. Software will be pushed to client computers with the assistance of School District IT Department.
- 1.3. Includes one time, lifetime license fee
- 1.4. Provide four (4) years of technical support
- 1.5. Provide four (4) years of updates
- 1.6. Provide four (4) years of upgrades

2. Clarifications:

- 2.1. Repair, upgrades or replacement of defective computer equipment is excluded.
- 2.2. Upgrades & updates beyond 4 years are excluded
- 2.3. Customer is responsible to push software onto new and/or replacement computers.

ECM-10 Water Conservation

Bathroom fixtures offer water saving opportunities because many of these fixtures can be retrofit to reduce the amount of water consumed per flush (toilets and urinals) or per minute of use (sinks). Reducing sink water usage also saves the thermal energy used to make hot water.

Table 1.11 lists the existing fixtures that will be replaced with new energy efficient fixtures

Table 1.9

Site	Existing Fixtures Quantities					Quantities to be Replaced/Retrofit				
	Toilets	Urinals	Lavatory Sinks	Showers	Classroom / Other Sinks	Toilets	Urinals	Lavatory Sinks	Showers	Classroom / Other Sinks
Bradley ES	25	8	20		24	3	0	10		13
Central Office	5	2	5			0	0	4		
City Hall	11	1	11			8	1	3		
DPW HWY	3	2	2	4	3	0	0	2	4	2
Fire 1	9	3	7	1	2	8	0	7	1	2
Fire 2	4	2	4	2	2	4	0	4	2	1
Fire 3	2		2		3	2		2		2
Fire 4	5	2	5	1	2	5	1	5	1	1
High School	51	13	51	29	1	20	0	20	2	1
Irving ES	27	10	29	7	25	0	0	13	0	25
Library	6		6		1	1		4		1
Middle School	42	10	44	14	4	0	8	8	1	4
Police	15	4	15	6	5	8	4	8	5	3
Senior Center	9		9		1	6		9		1
Veteran Community Ctr	7	3	9	8	2	0	0	4	7	0
WPCA	2	2	2	2	5	2	0	1	0	2
Total	223	62	221	74	80	67	14	104	23	58

1. Toilet Replacement – 44 Fixtures

36 existing flushometer toilets will be replaced like for like with new, 1.28 gpf toilets. New 1.28 gpf china and a new, manual piston flush valve will be installed. 8 existing tank toilets will be replaced like for like with new, 1.1 or 1.28 gpf tank fixtures.

- 1.1. 1.1 or 1.28 gpf in kind china replacement (American Standard)
- 1.2. New outlet seals and closet bolts if applicable
- 1.3. New toilet seats with stainless steel hardware
- 1.4. New manual piston flush valve (Sloan)
- 1.5. 10% stop valve replacement is anticipated for toilet flush valves. If additional work is required due to faulty stop valves or isolation valves, it will be considered an extra cost.
- 1.6. 10% flange and carrier rod replacement or repair work is anticipated and is included in this scope.

2. Toilet Flush Valve Retrofit – 23 Fixtures

23 existing Toto piston valves that are flushing higher than the rated 1.6 gpf will be screw adjusted back to the rated flow. Existing china and flush valve will remain in place.

3. Urinal Flush Valve Retrofit – 14 Fixtures

- 3.1. 14 existing high flow urinals will have their flush valves retrofit to 0.5 gpf. Existing china and flush valve body will remain in place.
 - 3.1.1. New 0.5 gpf flush valve diaphragm kit (Sloan)
 - 3.1.2. 10% stop valve replacement is anticipated for urinal flush valves. If additional work is required due to faulty stop valves or isolation valves, it will be considered an extra cost.

4. Sink Faucets – 152 Sinks

- 4.1. Existing high flow faucets on 152 sinks (lavatory, classroom, and kitchenette/hand/other) will be retrofit to low flow specifications (0.5, 1.0, or 1.5 gpm, depending on the sink use type). In general, lavatory sinks will have lower flow and utility sinks will be retrofit to higher flows.
- 4.2. For those faucets from which existing flow restrictors cannot be removed without damaging the faucet, a replacement flow restrictor will not be installed. The replacement flow restrictor will be turned over to Owner with the project's shelf stock.
- 4.3. Where possible, tamper resistant flow restrictor will be installed. For faucets that cannot accept a tamper resistant flow restrictor, a regular flow restrictor will be installed.

5. Showerheads – 23 Units

- 5.1. 23 existing high flow showerheads/wands will be replaced like for like with new, 1.5 gpm showerheads/wands.

6. Clarifications

- 6.1. JCI has included like-for-like fixture upgrades in this proposal: existing high-flow, ADA-height toilets will be replaced with low-flow, ADA height-toilets; existing high-flow, standard height toilets will be replaced with low-flow, standard height toilets. Any and all ADA bathroom partitions, grab bars, extensions, sink faucet actuators, piping insulation, or other ADA requirements are hereby excluded from this proposal. JCI does not take responsibility for any existing or future ADA compliance issues and if required to modify bathrooms or fixtures to meet an ADA code this will be completed for an additional cost.
- 6.2. Repair of existing faucets and sink basins or leaking parts in existing faucets is excluded.
- 6.3. Repair of pre-existing water damaged floors, walls and ceilings is excluded.
- 6.4. Repair or replacement of pre-existing cracked, loose or missing floor and wall tiles is excluded.
- 6.5. Replacement or modification of existing floor and wall coverings is excluded.
- 6.6. 10% flange and carrier rod replacement for toilets is anticipated and is included in this scope.
- 6.7. 10% stop valve replacement is anticipated for urinal flush valves and is included in this scope
- 6.8. JCI will sample pre and post measurements in accordance with Schedule 2 M&V requirements

ECM-11 Vending Machine Controllers

Johnson Controls Inc. shall install Vending Miser controls on vending machines listed below. Utilizing a custom passive infrared sensor, the controller powers down a vending machine when the area surrounding it is unoccupied and automatically re-powers the vending machine when the area is reoccupied.

Table 1.12 lists the vending machines that will be retrofit with new Vending Misers

Table 1.10

Building	Location	Type
Derby High School	135 - Faculty Room	Beverage
Derby Middle School	Faculty Room	Beverage
Bradley School	Faculty Room	Beverage
Irving School	Faculty Room	Beverage
Fire Station 2	Garage Bay	Beverage
Fire Station 2	Garage Bay	Snack
Police Station	Break Area	Beverage
Police Station	Break Area	Snack

1. Scope of Work

- 1.1. Unplug the vending machine’s power chord from the outlet.
- 1.2. Identify a suitable mounting location for Vending Miser®, mostly likely on the wall behind the vending machine
- 1.3. Operational lights of Vending Miser shall be viewable by maintenance personnel
- 1.4. Plug the vending machine’s power cord into Vending Miser®
- 1.5. The PIR sensor shall be located so it can see people approaching the vending machine.
- 1.6. The sensor cable shall be secured to the wall or ceiling by covering it with plastic low voltage wire raceway.
- 1.7. Plug the Vending Miser into the wall outlet. The following shall occur:
 - 1.7.1. The Vending machine shall power up immediately
 - 1.7.2. The Green LED shall flash twice to indicate that the temperature sensor is functional
 - 1.7.3. The Amber LED shall then come on as the Vending Miser attempts to synchronize with the compressor’s operation. This typically will require that the compressor cycle in on and off
 - 1.7.4. The Red LED shall come on, indicating occupancy direction.

2. Clarifications

- 2.1. If the vending machines are moved or changed out it is the customer’s responsibility to ensure that the controllers are re-attached.
- 2.2. Repair or replacement of the vending machines is excluded

ECM-12 Solar Photovoltaics (PV)

Scope of Work

Reference Attachment 2, Preliminary Solar PV Designs and Production Report

Subject to Structural evaluations of existing roof structures, Johnson Controls will furnish and Install equipment, engineering, materials, permitting, and labor for four (4) Solar PV systems included in the following table 1.13:

Table 1.11

Building	Design Size (kWdc)	Design Size (kWhac)
Derby Middle School	220.320	263,406
Bradley Elementary School	151.805	180,406
Irving Elementary School	139.191	166,269
Total	511	610,081

In the event that the structural evaluations,Regulatory/ Utility constraints, or quantity of awarded ZRECs require a change in the capacity of the equipment to be installed as part of the Work provided in connection with this ECM, JCI and Customer agree that the price to be paid for the Work set forth on Schedule 4 and the Solar PV Credits (ZRECs) and Measured Energy Cost Avoidance shall be reduced on a pro rata basis based on the number of kWdc that are changed as part of the ECM. In such event JCI and Customer agree that the Agreement shall be automatically adjusted by JCI as appropriate to effect the changes in the prior sentence without the need to amend this Agreement, provided that JCI will provide Customer with a written summary of such changes, showing cost and savings impacts.

1. Pre-Construction

- 1.1. PV production analysis of each proposed location.
- 1.2. Design engineering and PV system sizing.
- 1.3. Structural analysis of existing roof structures.
- 1.4. Prepare Utility Interconnection application and related documentation, and coordination to achieve interconnection pre-approval.
- 1.5. Includes cost of interconnection application and permit

2. Installation

- 2.1. Furnish & Install ballasted or attached roof mounted PV racking systems at selected locations. Furnish and install ballast for systems on flat roofs, including protective slip sheets under racking systems.
- 2.2. Furnish and install Hyundai (or equivalent) solar modules
- 2.3. Furnish and Install string Solar Edge Inverters (or equivalent) and accompanying supports.
- 2.4. Perform necessary electrical, mechanical, and structural testing and inspections
- 2.5. Furnish and Install Data Acquisition System, including Revenue Grade Electrical Metering.
- 2.6. Provide 5-year web-based monitoring service. Connect to Data Acquisition System
- 2.7. Furnish necessary wiring and conduit, including interconnection metering requirements.
- 2.8. Coordinate interconnection related activities with Utility in order to achieve authority to interconnect.
- 2.9. Test completed systems, including protocol to achieve authority to interconnect.
- 2.10. Work shall comply with state and local codes and regulations and with the latest edition of applicable standards, codes and specifications in effect at the time of contract signing.
- 2.11. Conduct training (8 hours) for designated personnel in the routine maintenance and care of the systems.

3. Clarifications

- 3.1. JCI does not include any upgrades or modifications to line side of utility meter.
- 3.2. Prior to Grid connection, one power outage will be required for final electrical tie-ins. Work will be scheduled during unoccupied periods. No temporary power will be provided
- 3.3. JCI will prepare and submit applications for Interconnection with the Utility. Work will commence after Utility approval.
- 3.4. JCI does not include any resolution of existing design, service, and or distribution conditions known or unknown or any existing code issues
- 3.5. Repair or replacement of defective electrical equipment and electrical distribution system is excluded, except the equipment described in the Scope of Work (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer)

ECM-13 Plug Load Controllers

Johnson Controls will install a plug load management system that will gain control of numerous plug load equipment as listed below. The system will use an existing Wi-Fi network that will communicate to an energy management user interface. Through the user interface, equipment can be monitored, scheduled and turned on / off. In areas where no Wi-Fi connection exists, plugs shall be programmed with the intended schedule for the equipment.

1. Scope of Work

1.1. Provide and install BERT plug load control devices as per schedule of outlets

Table 1.12

Building	Copier	Printer	Smart TV	Projector	Window AC	Water Fountain	Large Coffee Maker	Flat Screen TV
Derby High School	3	8	1	35	13	9	1	0
Derby Middle School	3	3	0	35	0	15	0	2
Bradley School	2	0	0	27	3	3	0	0
Irving School	2	1	0	28	5	4	0	0
City Hall	4	10	0	1	0	0	0	0
Community Center - Central Office	2	9	0	1	8	1	1	0
DPW	1	1	0	0	2	0	1	0
Library	1	3	0	0	0	2	0	0
Senior Center	1	1	0	0	0	1	1	0
Total	19	36	1	127	31	35	4	2

- 1.2. Install and connect BERT devices
- 1.3. Load and configure BERT software on an owner-designated supervisory PC
- 1.4. Start and test the systems
- 1.5. Provide end-user training (4 hours)

2. Clarifications

- 2.1. Controllers will communicate to a user interface via existing Wi-Fi.
- 2.2. In areas with no Wi-Fi connectivity, controllers will operate in a stand-alone configuration.
- 2.3. If the controlled equipment is moved or changed out it is the customer’s responsibility to ensure that the controllers are re-attached.
- 2.4. Johnson controls is not responsible for repairs, replacements, or upgrades to the plug load controlled equipment

ECM-14 Variable Refrigerant Flow (VRF) Installation

The Irving Elementary School's HVAC requirements are met with various Air Handling units. These units provide only partial cooling to the spaces. Several of the existing air handlers are at the end of their useful life and will be replaced as part of this measure. New Variable Refrigerant Flow Systems (VRF) will be installed in order to provide 100% cooling capability.

Scope of Work:

1. Abandon the existing (1) air handling unit in the GYM and installing (1) new packaged air handling unit
 - 1.1. 25 Ton Cooling Capacity, 10,000 CFM
 - 1.2. Electric cooling with steam coil
 - 1.3. Existing AHU to be abandoned in place
2. Remove & replace the (1) Rooftop Unit for the Cafeteria with a new, roof-mounted, packaged RTU, JCI Model # J20ZJN40R2B1FAA1A1.
3. Remove & replace the (1) Rooftop Unit for basement rooms 001, 003, and Mechanical Room with a new, roof-mounted, packaged RTU, JCI Model J20ZJN40R2B1FAA1A1.
4. At the following locations, install new VRF unit ventilators (42 total).
 - 4.1. At (10) Old Section classroom spaces (window above doors to be replaced with a structural insulated panel and fitted with an outside air opening)
 - 4.2. At (12) New Section classroom spaces (opening to be cut in wall for outside air opening and sealed weathertight)
 - 4.3. At (6) Misc. use rooms
 - 4.4. At (6) Office / Locker rooms
 - 4.5. At Hallways on 1st & 2nd Floor (4 units per floor)
 - 4.6. Note: No upgrade/retrofit at Room 004 Split System, Room 002 Split System, Room 100 RTU, (6) Bathrooms
5. Provide upgrade to existing electrical system to include the following:
 - 5.1. Coordination for the removal and replacement of the existing pad mounted transformer with a larger transformer as required for the service upgrade, to be in the same location
 - 5.2. Utility provided 15KV/120/208v pad mounted transformer
 - 5.3. Removal and replacement of the existing transformer pad with an new pad as required
 - 5.4. Transformer connections and grounding as required
 - 5.5. 120/208v 1200amp underground electric service
 - 5.6. Required excavation, backfill, restoration, sand, gravel, rigging, blacktop cutting and repair and sidewalk cutting and repairs
 - 5.7. Core drilling and patching of the foundation wall
 - 5.8. 1200amp switchgear to be installed in the existing electric room
 - 5.9. 600amp sub-feed to the existing building main switchboard
 - 5.10. Disconnection of the existing 600amp electric service
 - 5.11. Power wiring to 1 – new Gym air handling unit (60amp)
 - 5.12. Power wiring to a new Packaged cafeteria RTU (100amp)
 - 5.13. Power wiring to a new Packaged room 001,003 RTU (100amp)
 - 5.14. Power wiring to 42 – VRF units
 - 5.15. Low voltage wiring of 42 – VRF controllers
 - 5.16. Power wiring to 7 change over boxes
 - 5.17. Low voltage wiring of 7 change over boxes
 - 5.18. Power wiring to 8 VRF condensers
 - 5.19. Low voltage wiring of 8 VRF condensers
 - 5.20. Low voltage wiring of 1 VRF master control

1. Clarifications

- 1.1. The scope of work required for the electric service upgrades is contingent upon approval of the local utility company.
- 1.2. Asbestos abatement is excluded except as described in Article 10
- 1.3. Refrigerant piping to indoor units will be concealed above ceilings to the extent possible. Where concealment is not feasible, piping will be installed tight to ceilings.
- 1.4. Correction of any existing applicable building code violations and Federal Americans with Disabilities Act (ADA) violations identified by JCI during the execution of the Work is excluded. Such violations will be brought to the attention of the Customer for remedy
- 1.5. Repair or replacement of defective mechanical, electrical and controls equipment and electrical distribution system is excluded, except the equipment described in the Scope of Work (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer)
- 1.6. Resolution of existing design, service, and or distribution conditions known or unknown is excluded
- 1.7. Temporary power, heating, and cooling during the installation is excluded
- 1.8. Post construction balancing is included at newly installed units only

ECM-15 AC Compressor Controllers

Johnson Controls shall install new IntelliCon-CAC controllers on the individual compressor units listed below.

1. Scope of Work

- 1.1. Install compressor controls on the equipment listed in table 1.16 below:
- 1.2. Provide power and control wiring
- 1.3. Startup & test new equipment
- 1.4. Provide one-time end-user instruction (4 hours) on proper operation.

Table 1.13

Building	Location	Name	Manufacturer	Model Number	Compressor Data	No. of Compressors
Irving School	Roof	Condensing Unit			Nameplate Faded	1
Irving School	Roof	RTU	Carrier		Could not access unit.	1
City Hall	Outside	Condensing Unit	Trane	2TTB2024A1000AA	8.4 RLA	1
City Hall	Roof	AHU-1	Trane	YHC120A3	x2, 17.3 RLA ea.	2
City Hall	Roof	RTU-1	Carrier	48MA-028--	x2: 63.6 & 44.4 RLA	2
City Hall	Roof	RTU-2	Trane	YCD300B3HGHB	x2: 36.6 RLA ea.	2
Community Center	Outside	Condensing Unit	Carrier	38CKC048300	24.4 RLA	1
Community Center	Roof	RTU	Trane	YHC092F3RHA0BG	x2: 15.9 & 10 RLA	2
Community Center	Roof	RTU	Carrier?		Nameplate Faded	2
DPW	Roof	RTU	Lennox	KGA036S4DM3Y	10.4 RLA	1
Fire 1	Outside	Condensing Unit	Nordyne	FS5BD-060KA	28.2 RLA	1
Fire 1	Outside	Condensing Unit	Unitary Products Group	HBHB-T120AE	x2 (Tandem): 17.3 RLA ea.	1
Fire 1	Outside	Condensing Unit	Amana	VCA48B3A	14.5 RLA	1
Fire 2	Outside	Condensing Unit	Payne	PA10JA024-A	10.9 RLA	1
Fire 2	Outside	Condensing Unit	Payne	PA10JA024-A	10.9 RLA	1
Fire 2	Outside	Condensing Unit	Payne	PA10JA024-A	10.9 RLA	1
Fire 2	Outside	Condensing Unit	Goodman	GSC130241FA	10.8 RLA	1
Fire 2	Outside	Condensing Unit	Payne	PA10JA024-A	10.9 RLA	1
Fire 2 - Ambulance	Roof	RTU	Rheem	RRNL-B024JK06E	12.6 RLA	1
Fire 3	Outside	Condensing Unit	Bryant	113ANA048-E	19.9 RLA	1
Fire 4	Roof	RTU	York	ZF180N24P2AAA1	Could not access unit.	2
Library	Outside	CU-1	Unitary Products	H2DB060S25A	16 RLA	1
Library	Outside	CU-2	Unitary Products	H2DB048S25A	14 RLA	1

Building	Location	Name	Manufacturer	Model Number	Compressor Data	No. of Compressors
Library	Outside	CU-3	Unitary Products	H2DB048S25A	14 RLA	1
Library	Outside	CU-4	Unitary Products	H2DB060S25A	16 RLA	1
Library	Outside	CU-5	Unitary Products	H2DB060S25A	16 RLA	1
Library	Outside	CU-6	Unitary Products	H1CE180A25E	15 hp, 59.6 RLA	1
Police Station	Roof	RTU-1	Carrier	48HJE008---541DA	x2: 12.4 RLA ea.	2
Police Station	Roof	RTU-2	Carrier	48HJE006---541DA	17.3 RLA	1
Police Station	Roof	RTU-3	Carrier	48HJE006---541DA	17.3 RLA	1
Police Station	Roof	RTU-4	Carrier	48HJE006---541DA	17.3 RLA	1
Police Station	Roof	RTU-5	Carrier	48HJE006---541DA	17.3 RLA	1
Police Station	Roof	RTU-6	Carrier	48HJE009---541DA	x2: 15 RLA ea.	2
Police Station	Roof	RTU-7	Carrier	48HJE006---541DA	17.3 RLA	1
Senior Center	Outside	Condensing Unit	Trane	2TTA0036A3000AA	11.3 RLA	1
Senior Center	Outside	Condensing Unit	Trane	2TTA0072A3000AA	19.8 RLA	1
Senior Center	Roof	Condensing Unit	Trane		Could not access unit.	1
Senior Center	Roof	RTU	Trane		Could not access unit.	1
WCPA	Outside	Condensing Unit	Lennox	TSA060H4N43Y	16 RLA	1

2. Clarifications

- 2.1. IntelliCon-controllers work in conjunction with the existing thermostat.
- 2.2. Includes 1-year warranty on workmanship and 15-year manufacturer’s warranty on defects
- 2.3. Resolution of existing design, service, and or distribution conditions known or unknown is excluded
- 2.4. Temporary cooling during the installation is excluded
- 2.5. Repair or replacement of defective mechanical, electrical and controls equipment and electrical distribution system is excluded, except the equipment described in the Scope of Work (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer)
- 2.6. Correction of any existing applicable building code violations and Federal Americans with Disabilities Act (ADA) violations identified by JCI during the execution of the Work. Such violations will be brought to the attention of the Customer for remedy.

ECM-16 Transformer Replacement

JCI shall replace the indicated transformers with new high efficiency units. The transformers will be PowerSmith, OPAL-R Series E-Saver 80R or equivalent.

Facilities included for this Measure

- Derby Middle School
- WPCA

1. Scope of Work

- 1.1. Arrange for the delivery of the list of transformers purchased to be stored at pre-arranged location.
- 1.2. Remove and replace each transformer listed in Table 1.17
- 1.3. Stage old transformers on site in a pre-designated area until disposal by JCI can be arranged.
- 1.4. Make provisions for removal and disposal of existing transformers

TABLE 1.14

Building	Location	Manufacturer	Model Number	Capacity	%IMP
Derby Middle School	Basement Electric Room	Siemens	3F3Y045BTP1	45 kVA	4.3% IMP
Derby Middle School	Boiler Room	Siemens	3F3Y045BTP1	45 kVA	4.3% IMP
Derby Middle School	Cafeteria	Siemens	3F3Y045BTP1	45 kVA	4.3% IMP
WCPA	Addition Building	Square D Company	75T3HF	75 kVA	4.5% IMP
WCPA	Electric Room	Square D Company	75T3HF	75 kVA	4.5% IMP
WCPA	Storage Area	Square D Company	45T3HF	45 kVA	3.2% IMP

2. Clarifications

- 2.1 Transformer replacements will require coordinated electrical shutdowns of affected areas.
- 2.2 Temporary power is excluded.
- 2.3 Remediation of electrical code issues is excluded.
- 2.4 Repair or replacement of defective existing electrical equipment and electrical distribution system, except the equipment described in the Scope of Work, is excluded.

ECM-17 Refrigeration Compressor Controllers

Johnson Controls shall install new IntelliCon-RU controllers on the individual compressor units listed below.

1. Scope of Work

- 1.1. Furnish and install Dynamic Cycle Management refrigeration compressor controls on the equipment listed in Table 1.18:
- 1.2. Provide power and control wiring to existing temperature controls
- 1.3. Startup & test new equipment
- 1.4. Provide one time end-user instruction (4 hours) on proper operation.

Table 1.15

Building	Location	System Served	Manufacturer	Model Number	Serial Number	Compressor Data
Derby High School	Roof	Walk-In Freezer Unit	Kolpak	PC249LOP	410125396	16.7 RLA
Derby High School	Roof	Walk-In Refrigeration Unit	Kolpak	PC149MOP	410125397	9.6 RLA
Derby High School	Roof	Walk-In Freezer Unit	Kolpak	PC249LOP	410125396	16.7 RLA
Derby High School	Roof	Walk-In Refrigeration Unit	Kolpak	PC69MOP	410125399	6.8 RLA
Derby Middle School	Roof	Walk-In Refrigeration Unit				
Derby Middle School	Roof	Walk-In Freezer Unit				

2. Clarifications

- 2.1. IntelliCon-controllers work in conjunction with the existing temperature controls.
- 2.2. Includes 1-year warranty on workmanship and 15-year manufacturer’s warranty on defects.
- 2.3. Repair or replacement of defective refrigeration equipment, except the equipment described in the Scope of Work is excluded (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer).

ECM-18 RTU Replacement

The Carrier Rooftop unit located a City Hall is at the end of its useful life. Johnson Controls will replace the existing unit.

1. Scope of Work

- 1.1. Reclaim refrigerant from the existing Carrier 48MA-028 multi-zone unit and dispose of according to state and federal regulations in effect at the time of contract signing
- 1.2. Disconnect Gas and Electrical feeds to the extent required for new equipment installation. Circuit breaker/disconnect switch to be re-used.
- 1.3. Disconnect and remove the Carrier multi-zone unit. Unit will be removed from the property and disposed of according to state and federal regulations in effect at the time of contract signing.
- 1.4. Provide and install one (1) Alliance Air Rooftop Unit (gas fired heat, 208/230 Volt, 3-Phase, combination heating and cooling, with 10 zones)
- 1.5. Existing rooftop curb will be re-used. The Alliance Air RTU is designed to fit the existing Carrier roof curb.
- 1.6. Re-connect gas piping and electrical power wiring
- 1.7. Re-charge system with refrigerant in accordance with current regulations
- 1.8. Provide low voltage control wiring for the Alliance Air units, re-connect to existing Trane BMS
- 1.9. Provide all crane and rigging services
- 1.10. Start, test & balance, and commission HVAC system
- 1.11. Provide 2 hours training on operation and preventative maintenance
- 1.12. Provide a five (5) year Alliance Air factory compressor warranty
- 1.13. Provide a ten (10) year Alliance Air factory heat exchanger warranty

2. Clarifications

- 2.1. The Alliance Air Products RTU is manufactured as a direct replacement for the Carrier MMA-028 mutli-zone unit. No modifications to exiting systems or building structure are required.
- 2.2. The front parking lot will be used for rigging equipment in place. The parking areas will need to be closed for a 4-6 hour period during the day of installation.
- 2.3. Repair or replacement of defective equipment, except the equipment described in the Scope of Work is excluded (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer)
- 2.4. Resolution of existing design, service, and or distribution conditions known or unknown is excluded
- 2.5. Temporary heating and cooling during the installation is excluded

ASSURED PERFORMANCE GUARANTEE**I. PROJECT BENEFITS**

A. Certain Definitions. For purposes of this Agreement, the following terms have the meanings set forth below:

Annual Project Benefits are the portion of the projected Total Project Benefits to be achieved in any one year of the Guarantee Term.

Annual Project Benefits Realized are the Project Benefits actually realized for any one year of the Guarantee Term.

Annual Project Benefits Shortfall is the amount by which the Annual Project Benefits exceed the Annual Project Benefits Realized in any one year of the Guarantee Term.

Annual Project Benefits Surplus is the amount by which the Annual Project Benefits Realized exceed the Annual Project Benefits in any one year of the Guarantee Term.

Baseline is the mutually agreed upon data and/or usage amounts that reflect conditions prior to the installation of the Improvement Measures as set forth in Section IV below.

Guarantee Term will commence on the first day of the month next following the Substantial Completion date and will continue through the duration of the M&V Services, subject to earlier termination as provided in this Agreement.

Installation Period is the period beginning on JCI's receipt of Customer's Notice to Proceed and ending on the commencement of the Guarantee Term.

Measured Project Benefits are the utility savings and cost avoidance calculated in accordance with the methodologies set forth in Section III below.

Non-Measured Project Benefits are identified in Section II below. The Non-Measured Project Benefits have been agreed to by Customer and will be deemed achieved in accordance with the schedule set forth in the Total Project Benefits table below. Customer and JCI agree that: (i) the Non-Measured Project Benefits may include, but are not limited to, future capital and operational costs avoided as a result of the Work and implementation of the Improvement Measures, (ii) achievement of the Non-Measured Project Benefits is outside of JCI's control, and (iii) Customer has evaluated sufficient information to conclude that the Non-Measured Project Benefits will occur and bears sole responsibility for ensuring that the Non-Measured Project Benefits will be realized. Accordingly, the Non-Measured Project Benefits shall not be measured or monitored by JCI at any time during the Guarantee Term, but rather shall be deemed achieved in accordance with the schedule set forth in the Total Project Benefits table below.

Project Benefits are the Measured Project Benefits plus the Non-Measured Project Benefits to be achieved for a particular period during the term of this Agreement.

Total Project Benefits are the projected Project Benefits to be achieved during the entire term of this Agreement.

B. Project Benefits Summary. Subject to the terms and conditions of this Agreement, JCI and Customer agree that Customer will be deemed to achieve a total of **\$299,624** in Non-Measured Project Benefits and JCI guarantees that Customer will achieve a total of **\$6,183,598** in Measured Project Benefits, **\$782,060** in Renewable Energy Credits and **\$214,182** in O&M savings, for Total Project Benefits of **\$7,479,465** as set forth in the Total Project Benefits table below.

Total Project Benefits

Table 2.1

Year	Measured Energy Cost Avoidance ¹	Non-Measured Energy Cost Avoidance ²	Renewable Energy Credits ³	Operations & Maintenance Cost Avoidance ⁴	Annual Guaranteed Cost Avoidance ⁵
1	\$ 257,969	\$ 12,500	\$ 54,731	\$ 11,899	\$ 337,099
2	\$ 266,361	\$ 12,906	\$ 54,350	\$ 11,899	\$ 345,516
3	\$ 275,029	\$ 13,326	\$ 53,970	\$ 11,899	\$ 354,225
4	\$ 283,983	\$ 13,760	\$ 53,594	\$ 11,899	\$ 363,236
5	\$ 293,231	\$ 14,208	\$ 53,220	\$ 11,899	\$ 372,558
6	\$ 302,783	\$ 14,671	\$ 52,848	\$ 11,899	\$ 382,202
7	\$ 312,651	\$ 15,149	\$ 52,480	\$ 11,899	\$ 392,179
8	\$ 322,843	\$ 15,643	\$ 52,114	\$ 11,899	\$ 402,499
9	\$ 333,371	\$ 16,153	\$ 51,750	\$ 11,899	\$ 413,173
10	\$ 344,246	\$ 16,680	\$ 51,389	\$ 11,899	\$ 424,215
11	\$ 355,480	\$ 17,225	\$ 51,030	\$ 11,899	\$ 435,634
12	\$ 367,085	\$ 17,787	\$ 50,674	\$ 11,899	\$ 447,445
13	\$ 379,072	\$ 18,368	\$ 50,321	\$ 11,899	\$ 459,660
14	\$ 391,456	\$ 18,968	\$ 49,969	\$ 11,899	\$ 472,292
15	\$ 404,248	\$ 19,588	\$ 49,621	\$ 11,899	\$ 485,355
16	\$ 417,462	\$ 20,228	\$ -	\$ 11,899	\$ 449,589
17	\$ 431,113	\$ 20,889	\$ -	\$ 11,899	\$ 463,902
18	\$ 445,215	\$ 21,573	\$ -	\$ 11,899	\$ 478,687
TOTAL	\$ 6,183,598	\$ 299,624	\$ 782,060	\$ 214,182	\$ 7,479,465

¹Measured Energy Cost Avoidance project benefits commencing in Year 1 are escalated annually by 3.5% (unit energy cost basis are set forth in the energy rates tables in the Baseline Calculations & Utility Rates Section IV below)

²Non-measured Energy are Non-measured project benefits that escalate 3.5% annually during the guarantee term starting in Year 1

³Renewable Energy Credits (ZRECs) are a Non-Measured benefit and will continue for 15 years starting in 2019. Annual cost avoidance accounts for solar PV system production degradation factor of 0.7%/year.

⁴Operations & Maintenance Cost Avoidance are Non-measured project benefits that do not escalate.

⁵Annual Guaranteed Cost Avoidance = Measured energy cost avoidance + Non-measured cost avoidance + Renewable energy credits + O&M cost avoidance

Within sixty (60) days of the commencement of the Guarantee Term, JCI will calculate the Measured Project Benefits achieved during the Installation Period plus any Non-Measured Project Benefits applicable to such period and advise Customer of same. Any Project Benefits achieved during the Installation Period may, at JCI's discretion, be allocated to the Annual Project Benefits for the first year of the Guarantee Term. Within sixty (60) days of each anniversary of the commencement of the Guarantee Term, JCI will calculate the Measured Project Benefits achieved for the applicable year plus any Non-Measured Project Benefits applicable to such period and advise Customer of same.

Customer acknowledges and agrees that if, for any reason, it (i) cancels or terminates receipt of M&V Services, (ii) fails to pay for M&V Services in accordance with Schedule 4, (iii) fails to fulfill any of its responsibilities necessary to enable JCI to complete the Work and provide the M&V Services, or (iv) otherwise cancels, terminates or materially

breaches this Agreement, the Assured Performance Guarantee shall automatically terminate and JCI shall have no liability hereunder.

C. Project Benefits Shortfalls or Surpluses.

- (i) Project Benefits Shortfalls. If an Annual Project Benefits Shortfall occurs for any one year of the Guarantee Term, JCI shall, at its discretion and in any combination, (a) set off the amount of such shortfall against any unpaid balance Customer then owes to JCI, (b) where permitted by applicable law, increase the next year's amount of Annual Project Benefits by the amount of such shortfall, (c) pay to Customer the amount of such shortfall, or (d) subject to Customer's agreement, provide to Customer additional products or services, in the value of such shortfall, at no additional cost to Customer.*
- (ii) Project Benefits Surpluses. If an Annual Project Benefits Surplus occurs for any one year of the Guarantee Term, JCI may, at its discretion and in any combination, (a) apply the amount of such surplus to set off any subsequent Annual Project Benefit Shortfall during the Guarantee Term, or (b) bill Customer for the amount of payments made pursuant to Section C(i)(c) above and/or the value of the products or services provided pursuant to clause C(i)(d) above, in an amount not to exceed the amount of such surplus.
- (iii) Additional Improvements. Where an Annual Project Benefits Shortfall has occurred, JCI may, subject to Customer's approval (which approval shall not be unreasonably withheld, conditioned, or delayed), implement additional Improvement Measures, at no cost to Customer, which may generate additional Project Benefits in future years of the Guarantee Term.

II. NON-MEASURED PROJECT BENEFITS

The Project Benefits identified below shall be Non-Measured, as defined in Schedule 2, Section 1.A above. The amount of the Non-Measured Energy Benefits shall change each year of the Guarantee Term based on the applied utility rates as defined in the Baseline Calculation and Utility Rates presented in Schedule 2, Section IV.

Table 2.2

Non-Measured Energy & Non-Energy Avoidance Summary		
Non-Measured Energy Cost Avoidance Summary		
FIM Description		First Year Projected Benefits
ECM-5	Pipe and Valve Insulation	\$ 4,218
ECM-11	Vending Machine Controllers	\$ 952
ECM-13	Plug Load Controllers	\$ 1,959
ECM-14	Resistance Heating to VRF System	\$ -
ECM-15	AC Compressor Controllers	\$ 3,576
ECM-17	Refrig Compressor Controllers	\$ 586
ECM-18	Energy Efficient RTU Replacment	\$ 1,209
Total Non-Measured Energy Cost Avoidance		\$ 12,500
Non-Energy Cost Avoidance		
L/ZRECs (Low/Zero Renewable Energy Credits)		\$ 54,731
Operations & Maintenance (O & M)		\$ 11,899
Total Non-Energy Cost Avoidance		\$ 66,630
Total Non-Measured Cost Avoidance		\$ 79,130

Operational verification, commissioning, and visual inspection of equipment operation in accordance with the scope of work are the primary methods for validating non-measured ECM cost avoidance. The savings calculations, engineering standards, equipment specifications, and customer furnished information used to determine non-measured cost avoidance during project development, will be used to calculate ongoing annual cost avoidance for each of these measures. Any assumptions used in the project development calculations, adjustments made to the baseline, and/or performance measurements recorded during a period, will be applied in the annual non-measured cost avoidance calculations. The customer agrees that the non-measured project benefits are reasonable and that the installation of the improvement measures will result in the achievement of such non-measured benefits.

Engineering calculations, measure variables, assumptions, and references of Non-measured ECMs are included in the Investment Grade Audit (IGA). The IGA is an addendum of this contract and part of the deliverable to the customer. The Lighting Detail (i.e. Line-by-Line) is in digital form as Attachment 5 and the Energy calculations relating to savings in Schedule 2 are in digital form as Attachment 7.

ECM-5 Pipe & Valve Insulation

Table 2.3

Site	Pipe and Valve Insulation Savings	Total First Year Projected Energy Cost Avoidance
	Natural Gas	
	Therms	
Middle School	446.58	\$ 380
Bradley ES	738.95	\$ 732
Irving ES	640.42	\$ 635
Veteran Comm. Ctr.	777.04	\$ 996
Library	214.15	\$ 469
Fire 1	138.82	\$ 206
Fire 2	239.60	\$ 343
Fire 4	327.58	\$ 457
Sites Total	3,523.14	\$ 4,218

Savings are realized through reduced thermal losses within heating distribution systems. The heating system have locations with pipe lengths and fittings that are un-insulated resulting in heating losses (i.e. heating unintended spaces and having to produce more heat to meet space/zone temperature set point). By insulating heating system pipes and valves, more heat is delivered to the intended spaces resulting in less boiler operation.

Pre-Installation: Re-check audit. Verify linear footages of exposed piping and quantities of uninsulated valves, bonnets, flanges, and pumps. Conduct thermal imaging in selected areas.

Post-Installation: Verify that approved scope of work has been completed and that the insulation is properly installed. Field verification to verify counts and linear footages as stated in the scope and make adjustments to calculations based on post retrofit audit. Savings will be based on engineering calculations and assumptions detailed in the IGA (see Attachment 7 for energy calculations)

Source Data: Product specifications, customer information, inspection, thermal imaging

ECM-11 Vending Machine Control

Table 2.4

Site	Vending Maching Conrollers Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy	
	kWh	
High School	1,296	\$ 114
Middle School	1,296	\$ 166
Bradley ES	1,296	\$ 209
Irving ES	1,296	\$ 163
Police	1,757	\$ 192
Fire 2	902	\$ 108
Sites Total	7,845	\$ 952

Through the use of photo electric sensors, this measure turns off the vending machines lights when the immediate vicinity around the machine is unoccupied and also resets the refrigerators set point to a higher temperature during the unoccupied period to reduce compressors duty cycle.

Pre-Installation: Re-check vending survey and measure application for the targeted machines

Post-Installation: Verify that approved scope of work has been completed and that the sensors were properly installed and operational. Savings will be based on engineering calculations and assumptions detailed in the IGA (see Attachment 7 for energy calculations). Measure locations are in Table 2.6a below

Source Data: Product specifications, customer information, inspection

Table 2.4a

Building	Location	Type
High School	135-Faculty Room	Beverage
Middle School	Faculty Room	Beverage
Bradley ES	Faculty Room	Beverage
Irving ES	Faculty Room	Beverage
Police	Break Area	Beverage
Police	Break Area	Snack
Fire 2	Garage Bay	Beverage
Fire 2	Garage Bay	Snack

ECM-13 Plug Load Controllers

Table 2.5

Site	Plug Load Controllers Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	
High School	2,277	\$ 201
Middle School	1,780	\$ 227
Bradley ES	4,387	\$ 707
Irving ES	2,564	\$ 323
City Hall	2,659	\$ 263
Senior Center	56	\$ 7
Veteran Comm. Ctr.	742	\$ 81
Library	1,237	\$ 150
Sites Total	15,701	\$ 1,959

JCI will install a plug load management system that will control numerous plug load equipment (e.g. printers, copiers, vending machines) as stated in the scope of work. The system will use an existing Wi-Fi network that will communicate to an energy management user interface. Through the user interface, equipment will be monitored, scheduled, and turned on/off. In areas where no Wi-Fi connection exists, plugs will be programmed with the intended schedule for the equipment.

Pre-Installation: A detailed survey of each facility was performed using a Google form-based mobile application. Plug load device numbers, type and associated space characteristics were assembled. Verification of Wi Fi network coverage in each room/office was performed.

Schedule 2

Post-Installation: Verify that approved scope of work has been completed and that the equipment is properly installed and that controllers are communicating through the Wi Fi network to the plug load control software (Bertbrain®). Verify on/off schedule programs. Savings will be based on engineering calculations and assumptions detailed in the IGA (see Attachment 7 for energy calculations)

Source Data: Product specifications, customer information, equipment inspection, data logger/software

Table 2.5a

Building	Projector	Charging Cart	Medium Printer	Copier	H/C Water Dispenser	Air Conditioner - 110V (15A)	Water Fountain	Electric Hot Water Heater	Total
High School	27	0	0	1	1	7	0	0	36
Middle School	27	0	0	1	0	0	0	0	28
Bradley ES	26	11	0	1	0	0	0	0	38
Irving ES	24	5	0	0	0	0	0	0	29
City Hall	0	0	3	4	3	0	0	1	11
Senior Center	0	0	0	0	0	0	1	0	1
Veteran Comm. Ctr.	0	0	1	1	1	2	0	0	5
Library	0	0	5	2	0	0	0	1	8
Total	104	16	9	10	5	9	1	2	156

ECM-14 VRF System Installation

Table 2.6

Site	VRF System Installation		Total First Year Projected Energy Cost Avoidance
	Electric Energy	Natural Gas	
	kWh	therms	
Irving Elementary School	0	0	\$0
Site Total	0	0	\$0

The variable refrigerant flow (VRF) system provides cooling and heating by distributing refrigerant from outdoor units to multiple indoor units improving efficiency and individual end unit control. VRF has the capability to concurrently cool zones while heating other areas or target temperature control to zones that are in use.

Pre-Installation: No energy use modeling was performed for this measure; no energy savings are claimed.

Post-Installation: Verify that approved VRF system scope of work has been completed and is commissioned/operating per design. Record any changes to the scope.

Duration of Verification: No ongoing measurements are required for this measure.

Source Data: VRF system controls and specifications, as required

ECM-15 AC Compressor Controls

Table 2.7

Site	AC Compressor Controllers Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	
Irving ES	1,011	\$ 127
City Hall	2,966	\$ 293
DPW	274	\$ 48
Senior Center	2,857	\$ 356
Veteran Comm. Ctr.	2,840	\$ 310
WPCA	843	\$ 103
Library	7,141	\$ 868
Police	7,441	\$ 813
Fire 1	3,122	\$ 387
Fire 2	498	\$ 60
Fire 3	606	\$ 74
Fire 4	1,264	\$ 138
Sites Total	30,860	\$ 3,576

Buildings equipped with rooftop units and/or outdoor condensing units use standard pressure switches that do not utilize advanced control methodology. Intelligent control systems determine the cooling demand and thermal characteristics of the entire air-conditioning system by analyzing the compressor’s cycle pattern, and dynamically modifying that cycle pattern to provide the required cooling in the most efficient manner.

Pre-Installation: Verify existing audit of rooftop units and condensing units of buildings in this measure. Check mechanical operation and type of pressure switches in pre-retrofit equipment. Specifications of pre and post retrofit equipment are used to calculate pre-retrofit baseline energy use.

Post-Installation: Verify that approved scope of work has been completed and that the AC Compressor controllers have been properly installed and commissioned. Record any changes to the scope and adjust potential savings if necessary. Savings will be based on assumptions and engineering calculations within the IGA and Table 2.7a below (see Attachment 7 for energy calculations).

Source Data: Product specifications, customer information, inspection.

Table 2.7a

Building	Pre-Retrofit			Post-Retrofit		
	# of Units	Total kW	EFLH	# of Units	Total kW	EFLH**
Irving ES	2	8.64	1,301	2	8.64	1,171
City Hall*	5	40.54	1,626	5	40.54	1,463
DPW*	1	3.74	1,626	1	3.74	1,463
Senior Center	4	17.57	1,626	4	17.57	1,463
Veteran Comm. Ctr.	5	19.41	1,626	5	19.41	1,463
WPCA	1	5.76	1,626	1	5.76	1,463
Library	6	48.79	1,626	6	48.79	1,463
Police	9	40.99	1,626	9	40.99	1,463
Fire 1	4	21.33	1,626	4	21.33	1,463
Fire 2	5	11.34	488	5	11.34	439
Fire 3	1	4.14	1,626	1	4.14	1,463
Fire 4	2	8.64	1,626	2	8.64	1,463
	45	230.87		45	230.87	

* Savings use 50 percent loading

** Post-retrofit EFLH are 90 percent of pre-retrofit EFLH

ECM-17 Refrigeration Compressor Controllers

Table 2.8

Site	Refrigeration Compressor Controllers Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	
High School	3,759	\$ 332
Middle School	1,985	\$ 254
Sites Total	5,744	\$ 586

Refrigeration compressor controls provide computer chip control that automatically adjust the compressor cycles to achieve improved efficiency and reduced electrical usage (i.e. less frequent & more efficient compressor cycles).

Pre-Installation: Re-check refrigeration survey and calculations associated with individual units

Post-Installation: Verify that approved scope of work has been completed and that the controls are properly commissioned and working per design. Savings will be based on engineering calculations and assumptions detailed in the IGA (see Attachment 7 for energy calculations).

Source Data: Product specifications, customer information, inspection

Table 2.8a

Existing Refrigeration Compressors					
Location	Qty.	Unit kW	Total kW	Ann. EFLH (12 Hrs/day)	Total kWh
High School	2	3.5	6.3	4,032	25,210
High School	1	2.0	1.8	4,032	7,246
High School	1	1.4	1.3	4,032	5,133
Middle School	1	3.5	3.1	4,032	12,605
Middle School	1	2.0	1.8	4,032	7,246
Total					57,440
Proposed Refrigeration Compressors					
Location	Qty.	Unit kW	Total kW	Ann. EFLH (10.8 Hrs/day)	Total kWh
High School	2	3.5	6.3	3,629	22,689
High School	1	2.0	1.8	3,629	6,521
High School	1	1.4	1.3	3,629	4,619
Middle School	1	2.1	1.9	3,629	6,793
Middle School	1	1.5	1.3	3,629	4,755
Total					45,378

ECM-18 RTU Replacement

Table 2.9

Site	RTU Replacement Savings		Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	Natural Gas Therms	
City Hall	6,090	183	\$ 1,209
Sites Total	6,090	183	\$ 1,209

Pre-Installation: JCI performed energy modeling to calculate the heating and cooling energy use based on the pre-retrofit equipment in-place and space use within the City Hall areas to receive the RTU replacement measure. Factors used in the modeling are listed in Table 2.9a below.

Post-Installation: Verify that approved RTU replacement scope of work has been completed, networked to the EMS, and is commissioned/operating per design. Record any changes to the scope and adjust potential savings if necessary. Savings from the measure may be verified by trending system use, setpoints, and schedules within each space. JCI will use the Electric and Natural Gas rates as defined in the Baseline Calculations and Utility Rates section of this document and savings will be based on assumptions and engineering calculations.

Duration of Measurement: Annual visual inspection, continued EMS trending

Source Data: Product specifications, customer input, standard engineering parameters, equipment inspection

Table 2.9a

Parameter	Value	Units	Source
RTU-1 Cooling Capacity	28	Tons	Model # / nameplate
RTU-1 Existing EER	9	BTU/W/hr	Assumption based on equipment age and condition
RTU-1 Proposed EER	12	BTU/W/hr	Assumption based on performance of common new equipment
Cooling EFLH	797	hours	UI/CL&P C&LM Program Savings Documentation – 2013 https://neep.org/sites/default/files/resources/CT_Technicalreferencemanual2013.pdf
RTU-1 Heating Capacity	405	MBH	nameplate
RTU-1 Existing Eff.	75	%	Assumption based on equipment age and condition
RTU-1 Proposed Eff.	81	%	Assumption based on performance of common new equipment
Heating EFLH	562	hours	1248 hours (UI/CL&P C&LM Program Savings Documentation – 2013) * 55% deration. A deration is used to calibrate RTU energy usage against total building thermal energy use.

III. MEASUREMENT AND VERIFICATION METHODOLOGIES

The following is a brief overview of the Measurement and Verification (M&V) methodologies applicable to the Improvement Measures set forth below. JCI uses these methodologies as a guideline for M&V planning. These methodologies are more fully detailed in the guidelines and standards of the International Measurement and Verification Protocol (IPMVP) in connection with the provision of M&V Services hereunder.

Option A

Retrofit Isolation – Key Parameter Measurement

Measured Project Benefits are determined by field measurement of the key performance parameter which define the energy use of the improvement measure’s affected systems. Measurement frequency ranges from one-time/short-term to continuous, depending on the expected variations in the measured parameter and the length of the measurement and verification period.

Parameters not selected for field measurement are estimated. Estimates can be based on historical data, manufacturers’ specifications, customer input/operations information or engineering judgments. Energy quantities can be derived from a computation using a combination of measurements and estimates of others.

Option B

Retrofit Isolation: All Parameter Measurement

Measured Project Benefits are determined by field measurement of the energy use of the systems to which an Improvement Measure was applied separate from the energy use of the rest of the facility. Short-term, long-term or continuous measurements are taken throughout the pre and post-retrofit periods. Engineering calculations using short term, long-term or continuous pre and post-retrofit measurements are used to calculate the Measured Project Benefits for the duration of the Guarantee Term.

Measured Project Benefits for the following ECMs will utilize Option A or Option B methodology as described above.

Table 2.10

Measured Energy Cost Avoidance Summary		
FIM Description		First Year Projected Benefits
ECM-1	Lighting - Interior	\$ 65,588
ECM-2	Lighting - Exterior	\$ 18,217
ECM-4	Energy Management System	\$ 13,201
ECM-6	Oil to Gas Conv - Boiler/Burner Replacement	\$ 35,537
ECM-7	Energy Efficient DHW Installation	\$ 15,998
ECM-9	Computers - Power Management	\$ 3,565
ECM-10	Water Conservation	\$ 9,353
ECM-12	Photovoltaic Electric Generation	\$ 92,147
ECM-16	Transformers - Replacements	\$ 4,361
Total Measured Energy Cost Avoidance		\$ 257,969

ECM-1 Lighting Retrofit - Interior

Table 2.11

Site	Lighting - Interior Savings						Total First Year Projected Energy Cost Avoidance
	Electric Energy	Annual Electric Demand	Natural Gas	Number 2 Fuel Oil	Water	Other	
	kWh	kW	Therms	gal	kGal		
High School	28,343	129	0.00	-	-	-	\$ 4,433
Middle School	29,230	94	(311.60)	-	-	-	\$ 4,874
Bradley ES	48,881	216	(470.53)	-	-	-	\$ 10,636
Irving ES	61,984	257	(632.02)	-	-	-	\$ 11,029
City Hall	34,708	154	(428.65)	-	-	-	\$ 6,056
DPW	9,822	53	(158.97)	-	-	-	\$ 2,575
Senior Center	13,942	70	(187.86)	-	-	-	\$ 2,871
Veteran Comm. Ctr.	28,346	116	(384.12)	-	-	-	\$ 5,041
WPCA	13,490	61	(193.61)	-	-	-	\$ 2,302
Library	40,675	149	(587.67)	-	-	-	\$ 5,949
Police	31,517	88	(225.68)	-	-	-	\$ 4,450
Fire 1	3,856	67	(57.04)	-	-	-	\$ 1,800
Fire 2	7,843	45	(113.81)	-	-	-	\$ 1,720
Fire 3	4,704	15	(56.72)	-	-	-	\$ 714
Fire 4	5,273	31	(65.07)	-	-	-	\$ 1,138
Sites Total	362,614	1,544	(3,873.34)	-	-	-	\$ 65,588

Existing interior lighting equipment at various locations within the Derby buildings will be upgraded to improve lighting equipment efficiency (i.e. using less energy to produce similar light output). The lighting retrofit design incorporates energy efficient LED lamps, ballasts, and fixtures where the existing fixture condition warrants a replacement.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: JCI completed a detailed audit of the lighting equipment in each building and quantified fixture wattage power use in kilowatts (kW) using available nameplate information. Annual Burn Hours (ABH) for usage groups (i.e. classrooms, offices, hallways) and annual kW was determined through source documentation and customer interviews (ABH and kW for usage groups are listed in the Lighting Detail Attachment 5).

Post-Installation: Verify that approved “Scope of Work” has been completed. Record any changes to the scope and adjust savings if necessary based on as-built lighting. Perform a one-time post installation circuit wattage measurement on a representative sample of installed interior fixture combinations where a quantity of 50 or more of the same type of fixtures will be tested using a 90% confidence and 20% precision level (see Table 2.11a for sample size determinations). Use post retrofit wattage measurement to adjust savings estimates for all like fixtures in each facility, adjusted savings values will be used in post retrofit calculations.

Duration of Measurement: One time post retrofit power measurement on a sample of fixtures and annual visual inspections

Source Data: Equipment specifications, customer interviews, power meters, lighting equipment specifications data

Sample Size Determinations

Required post installation sample size determinations will be made, with an estimated coefficient of variation of 0.5 (CV = 0.5). Usage groups will draw samples sizes from a 90% confidence & 20% precision for lamp and ballast combination (LBC) power measurements. JCI will execute wattage sampling from logical project site groupings and/or usage groups rather than individual building level sampling. See Table 2.11a below for sample size determinations.

Table 2.11a: Sample Size Estimation Table

Precision	20%	Precision	20%
Confidence	90%	Confidence	90%
Z-Statistic	1.645	Z-Statistic	1.645
Population Size, N	Sample Size, n*	Population Size, N	Sample Size, n*
4	4	60	14
8	6	70	14
12	8	80	15
16	9	90	15
20	10	100	15
25	11	125	15
30	11	150	16
35	12	175	16
40	12	200	16
45	13	300	17
50	13	400	17

Note: The coefficient of variation in the above table is estimated to be 0.5.

Existing/Proposed Burn Hours:

Annual Burn Hours (ABH) is a parameter that is mutually agreed upon and is defined as the number of hours the lighting equipment operates in a given year. In the calculations, ABH was determined through discussion with Facilities personnel and site observation during the audit. These values are used to calculate savings for the upgrade. For the purposes of this agreement, the Existing/Proposed (i.e. pre-retrofit/post retrofit) values in the lighting audit shall be deemed as the floor-annual-burn-hours (i.e. the ABH shall never go below the usage group floor values).

Lighting Savings Calculations

JCI will use the unit Incremental Electrical Energy (\$/kWh) rate (IER) and Demand Rate (\$/kW) (DR), as defined in the Baseline Calculations and Utility Rates section of this document, to calculate avoided energy cost savings.

The following formulas represent the basis for calculating energy savings as described in the lighting calculations:

Demand Savings (kW):

$$\text{Connected kW Saving} = \sum_u [(\text{Ann. kW/Fixture}_{\text{baseline}} \times \text{Quantity}_{\text{baseline}} - \text{Ann. kW/Fixture}_{\text{post}} \times \text{Quantity}_{\text{post}})]_u$$

where:

- kW/fixture_{baseline} = Annual lighting baseline demand per fixture type for usage group u
- kW/fixture_{post} = Annual lighting demand per fixture type during post-installation period for usage group
- Quantity_{baseline} = quantity of affected fixtures before the lighting retrofit for usage group u
- Quantity_{post} = quantity of affected fixtures after the lighting retrofit for usage group u

Energy Savings (kWh):

$$\text{kWh Savings}_{(\text{Lighting})} = \sum_u [\text{Connected kW Savings}_u \times \text{ABH}_{(\text{Usage Group})}]_u$$

$$\text{kWh Savings Occupancy Sensors} = (\text{ABH Pre} - \text{ABH Post}) \times \text{kW Post}$$

Energy Cost Savings (\$):

$$\text{Energy Cost Savings}_{(\text{Lighting})} = \text{kWh Savings}_{(\text{Lighting})} \times \text{IER} + \text{Connected kW Savings} \times \text{DR} - \text{H/C Factor}$$

where: DR = Demand Rate (\$/kW)

IER = Incremental Electric Energy Rate (\$/kWh)

H/C Factor = Heating/Cooling Factor = HP – CC

ABH Pre & ABH Post = Annual Burn Hours in Spaces with Occupancy sensors Post (Lighting Detail Attachment A)

Schedule 2

HP (Heating Penalty): $(KWHRED * 3413 * \%HTRET * \% Savings Heating Season) / BTUs/UNIT / EFF = MMBTU$

CC (Cooling Credit): $(KWHRED * 3413 * \%HTRET * \% Savings Cooling Season * \%COOLED) / 12000 * KW/TON = KWH$

where:

HTRET (heat returned to space), Heating System Efficiency, % of Building Cooled, and Winter & Summer coincident hours are in table below.

Table 2.11b

	DERBY							
	High School	Middle School	Bradley ES	Irving ES	City Hall	DPW	Senior Center	Veteran Comm. Ctr.
...PERCENTAGE OF LIGHT HEAT RETURNED TO HVAC (%HTRET)	75%	75%	75%	75%	75%	75%	75%	75%
...HEATING SYSTEM EFFICIENCY (EFF)	219%	82%	92%	82%	80%	79%	79%	87%
....% OF BUILDING COOLED	20%	95%	2%	5%	95%	5%	95%	40%
...WINTER HEATING COINCIDENT HRS (HTGCOHRS)	939	1,045	770	773	1,082	1,153	1,034	1,392
...SUMMER COOLING COINCIDENT HRS (CLGCOHRS)	0	0	0	0	248	264	236	318

	WPCA	Library	Police	Fire 1	Fire 2	Fire 3	Fire 4
...PERCENTAGE OF LIGHT HEAT RETURNED TO HVAC (%HTRET)	75%	75%	50%	75%	75%	75%	75%
...HEATING SYSTEM EFFICIENCY (EFF)	79%	79%	81%	79%	87%	79%	82%
....% OF BUILDING COOLED	10%	95%	95%	50%	50%	50%	50%
...WINTER HEATING COINCIDENT HRS (HTGCOHRS)	1,211	1,512	1,517	325	2,513	1,472	829
...SUMMER COOLING COINCIDENT HRS (CLGCOHRS)	277	346	347	74	575	0	190

ECM-2 Lighting Retrofit - Exterior

Table 2.12

Site	Lighting - Exterior Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	
High School	21,069	\$ 1,860
Middle School	454	\$ 58
Bradley ES	26,331	\$ 4,242
Irving ES	3,180	\$ 400
City Hall	12,877	\$ 1,273
DPW	8,025	\$ 1,399
Senior Center	708	\$ 88
Veteran Comm. Ctr.	2,680	\$ 293
WPCA	21,023	\$ 2,572
Library	636	\$ 78
Police	4,462	\$ 487
Fire 1	3,171	\$ 392
Fire 2	9,230	\$ 1,104
Fire 3	2,263	\$ 276
Fire 4	1,341	\$ 146
Marcucio	22,848	\$ 3,547
Sites Total	140,298	\$ 18,217

Existing exterior lighting equipment at various locations within the Derby buildings will be upgraded to improve lighting equipment efficiency (i.e. using less energy to produce similar light output). The lighting retrofit design incorporates energy efficient LED lamps, ballasts, and fixtures where the existing fixture condition warrants a replacement.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: JCI completed a detailed audit of the lighting equipment in each building and quantified fixture wattage power use in kilowatts (kW) using available nameplate information. Annual Burn Hours (ABH) for usage groups and annual kW was determined through source documentation and customer interviews (ABH and kW for usage groups are listed in the Lighting Detail Attachment 5).

Post-Installation: Verify that approved “Scope of Work” has been completed. Record any changes to the scope and adjust savings if necessary based on as-built lighting. Perform a one-time post installation circuit wattage measurement on a representative sample of installed fixture combinations where a quantity of 50 or more of the same type of fixtures will be tested using a 90% confidence and 20% precision level (see Table 2.12a for sample size determinations). Use post retrofit wattage measurement to adjust savings estimates for all like fixtures in each facility, adjusted savings values will be used in post retrofit calculations.

Duration of Measurement: One time post retrofit power measurement on a sample of fixtures and annual visual inspections

Source Data: Equipment specifications, customer interviews, power meters, lighting equipment specifications data

Sample Size Determinations

Required post installation sample size determinations will be made, with an estimated coefficient of variation of 0.5 (CV = 0.5). Usage groups will draw samples sizes from a 90% confidence & 20% precision for lamp and ballast

combination (LBC) power measurements. JCI will execute wattage sampling from logical project site groupings and/or usage groups rather than individual building level sampling. See Table 2.12a below for sample size determinations.

Table 2.12a: Sample Size Estimation Table

Precision	20%	Precision	20%
Confidence	90%	Confidence	90%
Z-Statistic	1.645	Z-Statistic	1.645
Population Size, N	Sample Size, n*	Population Size, N	Sample Size, n*
4	4	60	14
8	6	70	14
12	8	80	15
16	9	90	15
20	10	100	15
25	11	125	15
30	11	150	16
35	12	175	16
40	12	200	16
45	13	300	17
50	13	400	17

Note: The coefficient of variation in the above table is estimated to be 0.5.

Existing/Proposed Burn Hours:

Annual Burn Hours (ABH) is a parameter that is mutually agreed upon and is defined as the number of hours the lighting equipment operates in a given year. In the calculations, ABH was determined through discussion with Facilities personnel and site observation during the audit. These values are used to calculate savings for the upgrade. For the purposes of this agreement, the Existing/Proposed (i.e. pre-retrofit/post retrofit) values in the lighting audit shall be deemed as the floor-annual-burn-hours (i.e. the ABH shall never go below the usage group floor values).

Lighting Savings Calculations

JCI will use the unit Incremental Electrical Energy (\$/kWh) rate (IER, as defined in the Baseline Calculations and Utility Rates section of this document, to calculate avoided energy cost savings.

The following formulas represent the basis for calculating energy savings as described in the lighting calculations:

Demand Savings (kW):

$$\text{Connected kW Saving} = \sum [(\text{Ann. kW/Fixture}_{\text{baseline}} \times \text{Quantity}_{\text{baseline}} - \text{Ann. kW/Fixture}_{\text{post}} \times \text{Quantity}_{\text{post}})]$$

where:

- kW/fixture_{baseline} = Annual lighting baseline demand per fixture type
- kW/fixture_{post} = Annual lighting demand per fixture type during post-installation period
- Quantity_{baseline} = quantity of affected fixtures before the lighting retrofit
- Quantity_{post} = quantity of affected fixtures after the lighting retrofit

Energy Savings (kWh):

$$\text{kWh Savings}_{\text{(Lighting)}} = \sum [\text{Connected kW Savings}_u \times \text{Annual Burn Hours}]_u$$

Energy Cost Savings (\$):

$$\text{Energy Cost Savings}_{\text{(Lighting)}} = \text{kWh Savings}_{\text{(Lighting)}} \times \text{IER} + \text{Connected kW Savings} \times \text{DR}$$

where: DR = Demand Rate (\$/kW)

IER = Incremental Electric Energy Rate (\$/kWh)

ECM-4 Energy Management System

Table 2.13

Site	Energy Management System Savings		Total First Year Projected Energy Cost Avoidance
	Electric Energy	Natural Gas	
	kWh	Therms	
Middle School	3,975	2,622.23	\$ 2,742
Irving ES	2,473	3,443.03	\$ 3,725
City Hall	727	600.70	\$ 901
Senior Center	1,315	263.18	\$ 616
Veteran Comm. Ctr.	1,723	3,923.01	\$ 5,217
Sites Total	10,214	10,852.16	\$ 13,201

Energy savings via the Energy Management System (EMS) upgrade at the Derby facilities in Table 2.13 will be achieved through a combination of HVAC controls strategies as shown below.

Table 2.13a

Site	Temperature Setback	Recommissioning	Exhaust Fan/Relief Damper Control	Demand Controlled Ventilation	Optimal Start/Stop
Middle School		✓		✓	
Irving ES	✓	✓	✓		
City Hall		✓			
Senior Center	✓				✓
Veteran Community Center	✓		✓		✓

Measurement & Verification Plan (M&V Option A)

Pre-Installation: The savings potential (targets) for the EMS were determined using engineered calculations.

During project development, a profile of HVAC operations and systems including rooftop units, air handling units, boilers, and ventilation equipment was completed using nameplate factors, existing EMS parameters, sequences, and facility staff input. The information was used to develop projected savings for EMS control strategies of Temperature Setback, Exhaust Fan/Damper Relief Damper Control, Demand Controlled Ventilation and Optimal Start which are designed in effect to reduce system run hours by delaying the warm-up period required based on outside temperature conditions to times when it is only necessary to run associated HVAC equipment to meet occupied hour set points and ventilation needs.

The measurement boundaries for EMS upgrades include the HVAC and associated electrical and thermal systems.

Post-Installation: Verify EMS control sequence programming changes for Temperature Setback, Exhaust Fan/Damper Relief Control, Demand Controlled Ventilation and Optimal Start strategies. Implement trending to isolate HVAC equipment affected by the control sequence upgrades. Trends of outside air temperature coincident with unoccupied/occupied system start status will be compared to pre-retrofit start schedules. The delay of system occupied start status versus

Schedule 2

scheduled starts will be the basis for energy savings. Engineering calculations within the IGA will be used as a basis for calculating energy savings and trend data (i.e. set points, on/off status, schedules, outside air temps) will be used as a means of verifying that parameters per the calculations are occurring. In working with the controls provider JCI will confirm metrics are being trended and data saved in the repository.

Duration of Measurement: Continuous data trending of HVAC equipment identified above

Source Data: Equipment specifications, customer information, utility billing, EMS control sequences, Building factors relating to development calculation are displayed in Table 2.13b & c.

Table 2.13b

Facility Management System Operations				
	Summer			
Facility	Existing Occupied/ On Hours	Existing Unoccupied / Off Hours	Proposed Occupied/ On Hours	Proposed Unoccupied / Off Hours
Middle School	70	74	72	78
Irving ES	70	74	72	65
City Hall	70	74	72	78
Senior Center	70	74	72	78
Veteran Community Center	70	74	72	78
	Winter			
Facility	Existing Occupied/ On Hours	Existing Unoccupied / Off Hours	Proposed Occupied/ On Hours	Proposed Unoccupied / Off Hours
Middle School	72	65	68	55
Irving ES	72	78	68	55
City Hall	70	60	68	55
Senior Center	72	62	68	55
Veteran Community Center	72	78	68	55

Table 2.13c

Assumptions:	Middle School	Irving ES	City Hall	Senior Center	Veteran Community Center
Occupied Days per Year	217	217	261	261	261
Is Cooling Space Affected by Measure?	Yes	No	Yes	Yes	Yes
Percent of Space Cooled	95%	5%	95%	95%	40%
Estimated % of Space Cooling Controlled	30%	0%	80%	30%	100%
Clg Sytem Eff. kW/Ton	1.13	1.13	1.13	1.13	1.13
Post Retrofit Htg Eff. %	82%	82%	80%	79%	87%
Estimated % of Space Heating Controlled	30%	75%	80%	30%	100%
Building Balance Point	55	55	55	55	55

ECM-6 Fuel Oil to Natural Gas Boiler/Burner Replacement

Table 2.14

Site	Oil to Gas Conv - Boiler/Burner Replacement Savings		Total First Year Projected Energy Cost Avoidance
	Natural Gas	Number 2 Fuel Oil	
	Therms	gal	
Bradley ES	(16,226.35)	14,881	\$ 16,962
Irving ES	(23,059.53)	18,590	\$ 18,575
Sites Total	(39,285.88)	33,471	\$ 35,537

The Bradley Elementary School and Irving Elementary School each have two existing oil-fired boilers. The two hot water boilers will be replaced at Bradley Elementary School. The steam boilers will remain at Irving Elementary but the burners serving the boilers will be replaced with new Powerflame dual burners. New natural gas service with utility meters will be installed. The incremental controls will have a program to modulate the firing rate to ‘follow the load’ (i.e. incrementally modulate with heating demand). Savings for this ECM will result from fuel cost savings and from improvements in equipment energy efficiency.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: The pre-retrofit boiler energy use was calculated using the existing equipment nameplate information, age, fuel consumption history and discussion with facility staff. Baseline boiler system efficiencies are shown in Table 2.14a.

Post-Installation: Verify that approved “Scope of Work” has been completed - inspection and verification of proper boiler installation. Record any changes to the scope and adjust potential savings if necessary. Using the natural gas fuel meters, measure performance period fuel consumption annually. Post-retrofit boiler system energy was calculated using published equipment performance metrics and Heating Degree Days (HDD) posted by the National Weather Service. During the Reporting period energy savings will be calculated using the Fuel Oil and Natural Rates as defined in Section IV Baseline Calculations and Utilities.

Duration of Measurement: Utility billing, EMS trending, and combustion efficiency testing

Source Data: Equipment specifications, fuel billing receipts, boiler nameplate specifications, National Weather Service Heating Degree Days.

M&V Methodology

JCI will use the pre retrofit assumed boiler efficiency, the performance curve for the installed boiler as well as the established baseline Fuel Oil usage at the facility to calculate annual savings. Industry standard weather normalization methodologies will be used to adjust the baseline fuel oil consumption to the performance period (i.e. reporting year) using Heating Degree Day data from the National Weather Service. The performance period energy savings will be determined using the weather adjusted baseline oil consumption value, multiplied by the efficiency gain realized from the installation of high efficiency natural gas boilers and burners. The dollar cost savings associated with fuel savings will be calculated using the Fuel Oil Rate and Natural Gas Rate. One (1) combustion efficiency test will be performed post-installation, the results of which will be plotted on the performance curve for the proposed boiler as a means of curve validation.

Efficiency: The table below presents the pre-retrofit and post-retrofit efficiencies used in the calculations. The values are based on equipment nameplate, equipment age and operations and data published for the new boilers and burners.

Table 2.14a

Bradley ES Boiler Replacement (Boiler Fuel Baseline: 1,827 MBH)	
Pre-Retrofit	Post-Retrofit
Combustion Efficiency – 78%	Combustion Efficiency – Max 96.9%/Low 86.6 %
Standby Loss as percent of input – 0.28%	Standby Loss as percent of input – 0.03%
Cycling Losses - 1%	Cycling Losses - 1%
Combined Seasonal Efficiency - 71.1%	Combined Seasonal Efficiency - 87.4%

Irving ES Burner Replacement (Boiler Fuel Baseline: 2,411 MBH)	
Pre-Retrofit	Post-Retrofit
Combustion Efficiency – 78%	Combustion Efficiency – Max 82.9%/Low 80.0%
Standby Loss as percent of input – 0.28%	Standby Loss as percent of input – 0.28%
Cycling Losses - 1%	Cycling Losses - 1%
Combined Seasonal Efficiency - 72.2%	Combined Seasonal Efficiency - 78.2%

Baseline Determination: The 3-year average annual fuel oil consumption for Bradley Elementary and Irving Elementary was 15,443 gallons and 18,592 gallons, respectively. However, Bradley Elementary is using an existing a standalone oil-fired domestic hot water (DHW) heater that is estimated to annual consume 562 gallons of oil. The fuel oil consumed for DHW is subtracted from the total annual fuel oil consumption leaving 14,881 gallons of fuel oil used for heating by the boilers. Therefore, 14,881 gallons and 18,590 gallons are used to establish the baseline oil consumption for Bradley Elementary and Irving Elementary, respectively. These values shall be considered a minimum value for the baseline fuel consumption annual savings calculations for future reporting periods.

Weather Normalization: The baseline boiler fuel oil consumption will be adjusted using reporting year weather conditions in the form of HDD data from the National Weather Service for Hartford, CT. The weather normalized consumption was calculated using the average HDD over the 3 year baseline fuel oil period (5,458 HDD) divided by a 15 Year average of (5,834 HDD) for the region. The 15 Year HDD for the region will be a floor Report Year HDD value if HDD in the reporting year is less than the 15 year average in the formula below.

JCI will calculate the annual Fuel Oil cost avoidance according to the following formula:

<p>WNBLFS = 3-Year Baseline Average Fuel Oil * (15HDD/3-Year Average HDD)</p> <p>Where:</p> <p>WNBLFS: Weather Normalized Baseline Fuel Oil Savings (Gal.)</p> <p>3-Year Average Baseline Heating Fuel Oil: Bradley ES = 14,881 Gal. Irving ES = 18,590 Gal</p> <p>15YHDD: 15 Year Average HDD (5,834 per NWS Hartford, CT)</p> <p>3-Year Average HDD: (Sep'15 –Aug'18) HDD (5,458 NWS Hartford, CT)</p> <p>NAFOS = WNBLFS * (RPHDD/15YHDD)</p> <p>Where:</p> <p>NAFOS: Net Annual Fuel Oil Savings (Gal.)</p> <p>WNBLFS: Weather Normalized Baseline Fuel Oil Savings (Gal.)</p> <p>RPHDD: Report Period HDD (per NWS Hartford, CT) (or floor value of 5,834 HDD)</p> <p>15YHDD: 15 Year Average HDD (5,834 per NWS Hartford, NY)</p>

Where:

Fuel Oil \$ Savings = NAFOS x * (139,000 BTU/Gal.) * (MMBTU/1,000,000 BTU)* Fuel Oil Rate (\$/MMBTU)

JCI will calculate the annual Natural Gas cost according to the following formula:

ANGC=NAFOS * (FOBEFF/NGBEFF) * (139,000 BTU/Gal) * (MMBTU/1,000,000 BTU)
 Where:
 ANGC: Annual Natural Gas Consumption (MMBTU)
 NAFOS: Net Annual Fuel Oil Savings (Gal.)
 NGBEFF: Natural Gas Boiler System Efficiency
 FOBEFF: Fuel Oil Boiler System Efficiency

Where:

Annual Natural Gas Cost \$ = ANGC x Natural Gas Rate (\$/MMBTU.)

Total Boiler Replacement cost savings reported will be the difference between Fuel Oil \$ Savings and the Annual Natural Gas Cost \$ as defined above.

ECM-7 Energy Efficient DHW Installation

Table 2.15

Site	Energy Efficient DHW Installation			Total First Year Projected Energy Cost Avoidance
	Electric Energy	Annual Electric Demand	Natural Gas	
	kWh	kW	Therms	
High School	27,604	950	(964)	\$ 15,998

The High School boys’ and girls’ locker rooms are each separately served by a 500 gallon, 50 kW existing electric domestic hot water heater. Replace both electric water heaters with a single natural-gas fired condensing domestic hot water heater installed in the fan room in the boys’ locker room. The new condensing hot water heater will serve both the boys and girls locker rooms. The 30 kW electric domestic hot water heater serving the kitchen will be replaced with a natural gas-fired condensing domestic hot water heater. Although the electric heaters are very energy efficient, the impact on the electric demand cost is costly. The condensing domestic hot water heaters can efficiently modulate capacity to follow the domestic hot water load JCI will use the Electric and Natural Gas rates as defined in the Baseline Calculations and Utility Rates section of this document to calculate annual avoided energy cost savings.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: The pre-retrofit hot water heater energy use was calculated using the existing equipment nameplate information, age, and discussion with facility staff.

Post-Installation: Verify that approved “Scope of Work” has been completed - inspect and verify proper installation of the condensing domestic hot water heaters, two recirculation pump systems (one for each locker room), the hot water mixing valves serving each locker room, and the natural gas metering equipment serving the condensing domestic hot water heaters.

Duration of Verification: Equipment inspections, one-time combustion efficiency test to verify domestic hot water heater performance.

Source Data: Equipment specifications

Schedule 2

Although the electric heaters are very energy efficient, the impact on the monthly electric demand cost is costly. The condensing domestic hot water heaters can efficiently modulate capacity to follow the domestic hot water load JCI will use the Electric and Natural Gas rates as defined in the Baseline Calculations and Utility Rates section of this document to calculate annual avoided energy cost savings. A one-time combustion efficiency test will be used to verify the published condensing boiler performance.

Baseline Determination: The baseline electric energy consumption of 84.767 MMBTU is based on the key assumptions presented in the Table 2.15a

Table 2.15a

Key Assumptions	
372 Number of Students	90% Electric System Efficiency
217 Equivalent Student-Days per Year	85% Natural Gas System Efficiency
1.8 Gallons/Student-Day	70 Temperature Rise (F)

JCI will calculate the cost savings resulting from the offset of electricity consumption with equivalent natural gas costs using the formula and conditions set forth below:

Cost Savings = Electric Cost - Natural Gas Cost

Electric Cost = kWh Cost + kW cost

kWh Cost = (DHWL * 1,000,000 * IER) / (ESEFF * 3,412)

Where:

- DHWL = Domestic How Water Baseline Load (84.767 MMBTU)
- 1,000,000 = Unit Conversion Factor BTU/MMBTU
- ESEFF = Electric System Baseline Efficiency (90 percent)
- 3,412 = Unit Conversion Factor BTU/kWh
- IER = Incremental Electric Rate (\$/kWh)

kW Cost = (MD * MO * DR)

Where

- MD = Monthly Demand (100 kW)
- MO = Number of Months (9.5 Months)
- DR = Demand Rate (\$/kW)

Natural Gas Cost = (DHWL * NGR) / NGSEFF

Where:

- DHWL = Domestic How Water Baseline Load (84.767 MMBTU)
- NGR = Natural Gas Rate (\$/MMBTU)
- NGESEFF = Natural Gas System Efficiency (%)

ECM-9 Computer Power Management

Table 2.16

Site	Computers - Power Management Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy	
	kWh	
High School	7,780	\$ 687
Middle School	7,780	\$ 994
Bradley ES	6,224	\$ 1,003
Irving ES	7,002	\$ 881
Sites Total	28,786	\$ 3,565

Installation and configuration of Computer Power Management (CPM) technology reduces energy consumption on a PC desktop level by commanding computers (CPUs) and monitors into active, standby or hibernation modes.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: Baseline energy use was determined through hours of operation provided by schedules and facility personnel input, an equipment audit, and manufacturer energy use specifications. The number of computers to be controlled by the computer power management system was determined to be 370 PCs (see Table 2.16a below for building PC counts) and hours of operations at various levels (Active, Standby, Hibernate and Off modes - see Table 2.16b).

Post-Installation: Work with District IT management to verify that approved computer control software has been installed and working correctly. To determine run hours and associated computer state mode, perform at least one computer management system PC client survey trend log for a period of at least two weeks during each reporting year. Use measured results from annual logging period and incorporate into savings calculations for that year.

Duration of Measurement: Annual measurement of PC energy use

Source Data: Equipment specifications, PC management software analysis/computer state mode hours, District IT staff

Table 2.16a

Building*	PC Quantity
High School	100
Middle School	100
Bradly ES	80
Irving ES	90
Totals	370

*Assumption at 200 work days per year.

The performance of this measure is based on the composition of the Customer’s network infrastructure, number of CPUs, and the assumptions regarding mode of operation and operational days/year. During the Project Term, JCI may adjust savings calculations to reflect changes in the assumptions set forth by Customer’s change in the PC count, days of operation, new scheduling or failure to maintain or update the Power Management software in accordance with manufacturer’s recommendations, or any other reason not related to an act or omission of JCI. In addition, if the changes are material and Customer is not able to provide adequate documentation to allow JCI to make the adjustments described, JCI will be entitled to deem that the Project Benefits relating to this Improvement Measure have been achieved at the targeted level set forth in the table above

M&V Methodology

Through customer input the number of PCs controlled as part of the project is determined to be 370. Input from and coordination with the District’s IT group (or responsible IT person) is critical to annual PC usage surveying process. If JCI is unable to engage the assistance of the responsible District IT associate, JCI will use the baseline PC floor and associated baseline energy savings projection for performance year reporting. If the number of computers controlled within the District drops below 370, a savings adjustment using this value as a floor will be calculated and reported based on the change in PC numbers. Annually, in cooperation with the customer IT group, the computer management system will determine run hours/energy use and percentage in the different modes of operation (i.e. Active, Standby, Hibernate, and Off). An average of the results in each mode over the population of PCs will be the basis for annual energy savings. Table 2.16b provides a pre-retrofit benchmark of the average time the PCs operate in the various modes. Wattages for PC equipment and days per year as stated in the table and will be used for reporting through the term of the guarantee. The annual operational mode percentages will be compared to the pre-retrofit operational mode times in Table 2.16b – the differences between pre & post retrofit operational states will be the basis for calculating savings.

Table 2.16b

Equipment	Operational Modes				Energy kWh/year/unit
	Active	Standby	Hibernate	Off	
CPU					
Average Watts	57	26	4.7	3	
Existing Hrs. / Day	10	2	2	10	132
Proposed Hrs. / Day	5	4	5	10	88
Monitor					
Average Watts	37	3	0	0	
Existing Hrs. / Day	10	4	0	10	76
Proposed Hrs. / Day	5	9	0	10	42

The savings for this ECM are generated through a reduction in run hours used by the network devices; therefore the measurement boundary is the network devices themselves.

The CPM software will measure the average operational states of PC during an annual measurement period (two or more consecutive weeks during school in session periods) and then be annualized to represent average annual energy use per PC. The annual savings will then be calculation according to the following formula:

$$\text{Annual Energy kWh Consumption} = ((\text{Days per year (200)} \times \text{24 hour/day} + (\text{Operational mode hours (Table 2.16b)} \times \text{Watts per mode (measured)}) / 1000$$

$$\text{Annual Energy Savings (kWh)}_{\text{average per pc}} = \text{Average PC Equipment Consumption (kWh)}_{\text{pre-retrofit}} - \text{Average PC Equipment Consumption (kWh)}_{\text{post retrofit}}$$

JCI will use the following formula to calculate annual cost avoided at each facility:

$$\text{Annual \$ Savings} = \text{Annual Energy Savings}_{\text{average per pc}} * \text{Qty} * \text{IER}$$

Where:

IER = Incremental Energy Rate (kWh) (see section: Baseline Calculations & Utility Rates IV)

ECM-10 Water Conservation

Table 2.17

Site	Water Conservation Savings			Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	Natural Gas Therms	Water kGal*	
High School	4,439	0	184	\$ 3,197
Middle School	-	80	23	\$ 423
Bradley ES	-	162	51	\$ 939
Irving ES	-	131	36	\$ 674
City Hall	708	0	23	\$ 416
DPW	598	0	5	\$ 184
Senior Center	-	26	21	\$ 358
Veteran Comm. Ctr.	-	61	13	\$ 278
WPCA	-	7	8	\$ 135
Library	368	0	7	\$ 145
Police	-	74	48	\$ 848
Fire 1	-	33	18	\$ 325
Fire 2	-	52	53	\$ 883
Fire 3	-	7	6	\$ 108
Fire 4	-	70	22	\$ 440
Sites Total	6,113	704	517	\$ 9,353

*1 kGal equals 1000 gallons

A combination of water flow restrictors, new toilets, flushometers, and toilet flush valves designed to reduce the volume of water used with the City and School District will result in reduce water usage. Water savings result in lower water utility volumetric charges as well as associated sewer cost in most applications. In warm water applications, these devices reduce water waste and the associated thermal costs.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: Re-check audit, savings calculations, and conduct and record flow readings on representative sample set of fixtures including toilets and sinks receiving flow restrictors in each building. Use table 2.17a below to determine initial sample sizes.

Post-Installation: Verify that the Scope of Work has been completed and that new equipment is performing per the scope. Record any changes to the scope and adjust potential savings if necessary. Conduct a visual inspection of water conservation improvements and perform a one-time post installation flow readings on the same representative sample of installed flow limiting equipment (including toilets and sinks) as measured during pre-retrofit. Assess performance using a 90% confidence and 20% precision level. Use post retrofit flow measurements that do not fall within precision levels to adjust savings estimates for all like fixtures in each facility that received flow restrictors, adjusted savings values will be used in post retrofit calculations. Verification of pedal valves will be done by visual inspection and functional testing.

Duration of Measurement: One pre & post retrofit measurements and visual inspection on sample fixtures.

Source Data: Product specifications, customer information, equipment inspection, measured flow data.

Sample Size Determinations

Required post installation sample size determinations will be made, with an estimated coefficient of variation of 0.5 (CV = 0.5). Usage groups will draw samples sizes from a 90% confidence and 20% precision for new flow restricting equipment that include toilets and sinks. JCI will execute sampling from logical project site locations groups rather than individual building level sampling. See Table 2.19a below for sample size determinations.

Table 2.17a

Precision	20%	Precision	20%
Confidence	90%	Confidence	90%
Z-Statistic	1.645	Z-Statistic	1.645
Population Size, N	Sample Size, n*	Population Size, N	Sample Size, n*
4	4	60	14
8	6	70	14
12	8	80	15
16	9	90	15
20	10	100	15
25	11	125	15
30	11	150	16
35	12	175	16
40	12	200	16
45	13	300	17
50	13	400	17

Note: The coefficient of variation in the above table is estimated to be 0.5.

The Project Benefits associated with water fixture upgrades include water and sewer savings, along with a reduction in hot water heating fuel for sinks. As described above, savings will be verified by performing a functional tests on a sample set of toilets and faucets receiving flow restriction devices at the time of installation and through assumptions and individual building and fixture audit factors as stated within the IGA and/or calculations as an attachment to this contract.

ECM-12 Photovoltaic Electric Generation (PV)

Table 2.18

Site	Photovoltaic Electric Generation Savings	Total First Year Projected Energy Cost Avoidance
	Electric Energy kWh	
Middle School	263,406	\$ 37,336
Bradley ES	180,406	\$ 31,570
Irving ES	166,269	\$ 23,242
Sites Total	610,081	\$ 92,147

The Solar Photovoltaic (PV) system is a renewable energy resource measure designed to generate electricity from a total of 460 kW AC PV array over three Derby School District buildings. The system was designed using a commercial professional solar system design and analysis software. The PV system is projected to yield 610,081 kWh of electricity in its first year of operation. The system will be behind the meter but will be metered in order to qualify for ZREC credit (Zero Emissions Renewable Energy Credits) at the "bid-in" rates (see Table 2.18a below).

Measurement & Verification Plan (Option B)

Pre-Installation: Using a solar modeling tool (PVSYST) JCI designed a solar PV system consisting of PV modules, arrays and inverters at the Middle School, Bradley Elementary School, and Irving Elementary School buildings. The industry-standard PV-Syst calculation and Helioscope tools provided projected energy (kWh) generation for each building system. The tools account for specific system design factors and uses locational simulation data (i.e. Bridgeport CT Meteo weather data and published local hourly solar radiation data) to calculate projected electric energy (kWh) output. Modelled irradiance (kWh/m²) factors for the Derby locations are documented in Table 2.18b, these values will be used in post retrofit calculations.

Post-Installation: Verify that approved scope of work has been completed and commissioned insuring that the solar PV system components are functioning per design. Test power measurement equipment and tracking system integration to insure accurate data recording. The new solar installation will have kWh meter installed that will track the energy generated from the solar array through a power generation tracking system. This value at contract rates, along with the ZRECs received, will be used to track the contract savings generated by the solar systems (savings tracking is subject to adjustments during the guarantee term – see Solar PV Measure Adjustments below). JCI will measure kWh generation and irradiance and then use the Solar PV energy system power generation calculations below.

Duration of Measurement: Continuous data logging through the Inverter of electric power generation. Periodic site inspections of the equipment and measurement equipment post installation. Report system performance annually throughout the M&V term.

Source Data: Utility and PV generation kWh, solar irradiance, manufacturer's product specifications, PVSYST modeling.

Table 2.18a

	Middle School	Bradley ES	Irving ES
Installed Capacity AC ZREC app	198.3 kW	136.6 kW	125.3 kW
Maximum Annual Quantity ZRECs (MWhs)	263.4	180.4	166.2
Purchase Price per ZREC \$/kWh	0.09	0.09	0.09

Table 2.18b

Month	Horizontal Global Irradiation (kWh/m ²)*
January	58
February	73.9
March	113.1
April	139.7
May	168.1
June	175.7
July	180.8
August	160
September	126
October	94.5
November	58.3
December	47.6
Total	1395.7

*All locations with same modelled kWh/m²

Solar PV Measure Adjustments

Definitions. For purposes of this Agreement, the following terms have the meanings set forth below:

Actual Energy means the energy, over the course of an Energy Year, delivered to the Energy Delivery Point. Units are Megawatt-Hours (MWH).

Baseline Incident Radiation is solar insolation in the plane of the collectors developed from Baseline Weather Conditions and modeled with transformation functions from PVSyst over the course of a Year.

Baseline Weather Conditions means the meteorological data used to determine the Modeled Energy.

Degradation Rate means the percentage by which the Modeled Energy is downwardly adjusted on a compounded annual basis. For purposes of this Agreement, the Degradation Rate shall equal 0.7%.

Energy Contract Rate means the price that will be multiplied by an Energy Shortfall or Energy Surplus. Units are Dollars per Megawatt-Hour (\$/MWH).

Energy Delivery Point means the point of interconnection to the distribution system or service panel.

Energy Year means the period of 365 days following the Commercial Operation Date and each 365 day anniversary thereafter throughout the Guarantee Term.

Force Majeure means conditions that are beyond the reasonable control, and without the intentional misconduct or negligence of the Party claiming the benefits of the Force Majeure, that include, but are not limited to: acts of God or nature; acts of government agencies; strikes; labor disputes; fires; explosions or other casualties; thefts; vandalism; riots or war; acts of terrorism; the unavailability of electrical transmission or

Schedule 2

distribution service at any time; interruptions or degradations in telecommunications, computer, or electronic communications systems that are beyond the reasonable control of JCI; changes in Laws pertaining to the operation of the project; interruption of electrical service at the Property Site or to the Generating Station; requirement by a utility that the Generating Station discontinue operation for any reason; physical obstruction or interference of insolation to the Generating Station, such as overshadowing or shading; appropriation or diversion of electricity by sale or order of any governmental authority having jurisdiction thereof; any action by any governmental authority that prevents or prohibits the

Parties from carrying out their respective obligations under this Agreement; or unavailability of parts, materials or supplies despite commercially reasonable efforts to procure such parts, materials or supplies.

Generating Station means the entirety of the solar generating system, its electrical and mechanical components, mounting or tracking components, inverter(s), modules, meter(s), and monitoring components described in Schedule 1

Global Horizon Irradiance means solar insolation measured at local weather station over the course of an Energy Year from the horizon (flat). Units are Kilowatt-Hours per Square Meter (kWh/m²).

Production Factor means any event or action outside the control of JCI that has the effect of reducing the Actual Energy, including physical obstruction or interference of insolation to the Generating Station, such as overshadowing or shading; utility grid outage; outage directed by Host, Generating Station owner, or utility; casualty events; Force Majeure Events; theft; or vandalism.

Target Energy means the energy, over the course of an Energy Year, calculated by multiplying the Modeled Energy by the ratio of Measured Incident Radiation to the Baseline Incident Radiation and adjusted for events. Units are Megawatt-Hours (MWH).

Annual Saving Determination

Baseline solar power generation as modeled through the PV-Syst tool is equal to 610,081 kWh for year 1. As available solar power will vary from year-to-year and/or system malfunctions or interruptions may occur, only measured kWh generation (adjusted for irradiance) of the system equal to or above the baseline PV-Syst will be used in the annual savings calculations, otherwise the baseline modeled kWh energy generation will be used in performance period calculations.

Solar PV Energy System Power Generation (kWh):

$$ASPVS \$ = (ASPG (kWh_{adj})) \times IER$$

where:

$$ASPV \$ = \text{Annual Solar PV Savings } \$$$

$$ASPG = \text{Annual Solar Power Generation (kWh}_{adj}) = (kWh_{measured})(kWh/m^2_{modelled}) / (kWh/m^2_{actual})$$

(i.e. measured adjusted for irradiance per system inverter totalization or PV-Syst baseline x APVDF, whichever is higher)

$$APVDF = \text{PV Degradation Factor (0.7\%/year)}$$

$$IER = \text{Incremental Electric Rate (IER) Rate (per Section IV Baseline Calculations \& Utility Rates)}$$

Table 2.18c

Building	Proposed Array Size kWDC	Proposed Array Size kWAC	Performance Ratio	Collection Losses* (kWh/kWDC/day)	System Losses* (kWh/kWDC/day)	Inverter Output* (kWh/kWDC/day)
Middle School	220.3	198.3	0.825	0.55	0.14	3.28
Bradley ES	151.8	136.6	0.818	0.59	0.13	3.26
Irving ES	139.2	125.3	0.823	0.58	0.13	3.27
Total:/Average:	511.3	460.2	0.822	0.57	0.13	3.27

* PVSYS Sites total metrics averaged over all locations

ECM-16 Transformer Replacement

Table 2.19

Site	Transformers - Replacements Savings		Total First Year Projected Energy Cost Avoidance
	Electric Energy	Annual Electric Demand	
	kWh	kW	
Middle School	13,868	19	\$ 2,065
WPCA	16,024	-	\$ 2,296
Sites Total	29,893	19	\$ 4,361

Transformers are part of the electrical distribution system that increase/decrease alternating voltages within a building and over time can decrease in efficiency. Less efficient older transformers may produce excess heat (i.e. energy loss), affect the operating reliability of connected equipment (power quality), and may be noisy due to vibration. Transformers optimized for modern electronic equipment reduce losses and improves power quality.

Measurement & Verification Plan (M&V Option A)

Pre-Installation: An audit of transformers was completed at several of the Derby buildings. The project includes replacement of existing transformers with energy efficient transformers at the Middle School and WPCA. Using pre-retrofit equipment specification, calculations were developed to project savings across the units being replaced. Take thermal images of pre-retrofit equipment and prior to construction, perform power logging on a sample of the transformers within each building.

Post-Installation: Verify that approved transformer scope of work has been completed and the units are working properly. Conduct a visual inspection of transformer replacement and take thermal images/photographs of same sample and like time period of equipment imaged above. Perform power logging on new transformers in same locations as transformers logged pre-retrofit and under similar loading conditions and logging duration immediately after commissioning. Savings will be based on measured data and engineering calculations within the IGA. Table 2.19a below provides information on transformers to be replaced and associated variables used to calculate projected savings.

Duration of Measurement: One-time pre & post retrofit power logging, annual visual inspection

Source Data: Product specifications, customer information, inspection, equipment testing, thermal imaging

Table 2.19a

	Location	Nameplate Rating (kVA)	% Load During Normal Op Hrs	% Load Outside Op Hrs	Eq. Normal Operating Hrs./ day	Eq. Normal Operating Days/yr.	Pre-Retrofit Efficiency (Op Hrs)	Post-Retrofit Efficiency (Op Hrs)	Pre-Retrofit Total kW Losses	Post-Retrofit Total kW Losses
Middle School	Basement Electric Rm	45	15.0%	10.0%	16.0	255	91.2%	98.2%	1.28	0.22
	Boiler Room	45					91.2%	98.2%	1.28	0.22
	Cafetorium	45					91.2%	98.2%	1.28	0.22
WPCA	Pump House	75	15.0%	10.0%	16.0	255	93.1%	97.6%	1.62	0.32
	Bsmt. Sludge Pump Rm	75					93.1%	98.2%	1.62	0.32
	Chemical House	45					91.2%	97.6%	1.28	0.22

**CHANGES IN USE OR CONDITION; ADJUSTMENT TO BASELINE
AND/OR ANNUAL PROJECT BENEFITS**

Customer agrees to notify JCI, within fourteen (14) days, of (i) any actual or intended change, whether before or during the Guarantee Term, in the use of any facility, equipment, or Improvement Measure to which this Schedule applies; (ii) any proposed or actual expansions or additions to the premises or any building or facility at the premises; (iii) a change to utility services to all or any portion of the premises; or (iv) any other change or condition arising before or during the Guarantee Term that reasonably could be expected to change the amount of Project Benefits realized under this Agreement.

Such a change, expansion, addition, or condition would include, but is not limited to: (a) changes in the primary use of any facility, Improvement Measure, or portion of the premises; (b) changes to the hours of operation of any facility, Improvement Measure, or portion of the premises; (c) changes or modifications to the Improvement Measures or any related equipment; (d) changes to the M&V Services provided under this Agreement; (e) failure of any portion of the premises to meet building codes; (f) changes in utility suppliers, utility rates, method of utility billing, or method of utility purchasing; (g) insufficient or improper maintenance or unsound usage of the Improvement Measures or any related equipment at any facility or portion of the premises (other than by JCI); (h) changes to the Improvement Measures or any related equipment or to any facility or portion of the premises required by building codes or any governmental or quasi-governmental entity; or (i) additions or deletions of Improvement Measures or any related equipment at any facility or portion of the premises.

Such a change or condition need not be identified in the Baseline in order to permit JCI to make an adjustment to the Baseline and/or the Annual Project Benefits. If JCI does not receive the notice within the time period specified above or travels to either Customer's location or the project site to determine the nature and scope of such changes, Customer agrees to pay JCI, in addition to any other amounts due under this Agreement, the applicable hourly consulting rate for the time it took to determine the changes and to make any adjustments and/or corrections to the project as a result of the changes, plus all reasonable and documented out-of-pocket expenses, including travel costs. Upon receipt of such notice, or if JCI independently learns of any such change or condition, JCI shall calculate and send to Customer a notice of adjustment to the Baseline and/or Annual Project Benefits to reflect the impact of such change or condition, and the adjustment shall become effective as of the date the change or condition first arose. Should Customer fail to promptly provide JCI with notice of any such change or condition, JCI may make reasonable estimates as to the impact of such change or condition and as to the date on which such change or condition first arose in calculating the impact of such change or condition, and such estimates shall be conclusive.

IV. BASELINE CALCULATIONS AND UTILITY RATES

Basis for Determination of Fuel and Utility Escalation Rates

The Base Utility Cost shall be escalated annually by the contracted utility cost escalation commencing during project construction and reflected in the first year guaranteed savings. This contracted escalated utility rate shall be considered the contracted floor rate. If the actual rate is lower than the floor rate shown, the floor rate shall be used. Otherwise the actual rate will be used.

Basis for Determination of Fuel and Utility Floors and Ceilings

JCI and the Customer both acknowledge that Floors and Ceilings are utilized because JCI cannot economically bare the risk associated with fluctuating utility prices that could negatively or positively affect the guaranteed performance savings in terms of dollars; rather JCI is accepting the risk of the performance of the equipment and systems installed under this contract to achieve the performance savings in terms of unit measures of energy, e.g. kW, kWh, MMBtu, kGal.

Baseline Calculation and Utility Rates

The unit utility costs for the baseline period are set forth below as "Base Utility Cost" and shall be used for calculations made under this Schedule. The base utility cost for non-fuel conversion ECMs using electric, natural gas, #2 fuel oil, and water & sewer rates shall be escalated by three and one half percent (3.5%) annually starting during project construction and reflected in the first year guaranteed savings. Energy savings resulting from fuel conversions shall have ceiling rates apply. Specifically, for ECM-6 Fuel Oil to Natural Gas Boiler / Burner Replacement, a ceiling rate no greater than the annual escalation rate shall apply to the natural gas rate. The utility cost used in JCI calculations are defined in the formulas in this section with baseline rates for electric, natural gas, #2 fuel oil, and water & sewer used as floor values. The baseline electricity, natural gas, water & sewer, and fuel oil consumption for Derby facilities represents the average billed costs over a one (1) to three (3) year period (dependent on billing history availability) from **January 2015 through December 2017**.

Electricity

The table below lists the UI/Constellation delivery account numbers, and rates for each site during the baseline period. The Incremental Energy Rate (IER) for kilowatt hours (kWh) and Electric Demand Rate (EDR) for metered kilowatt (kW) at the facilities have been used in the calculations for electrical cost savings. These costs include the Gross Revenue Tax and Fuel Adjustment Charges. Some measures may result in reduced energy use without affecting the monthly peak demand; these will calculate savings for energy (kWh) costs only. Other measures that are likely to reduce the monthly peak demand have energy and demand (kW) savings calculated.

Table 2.20 Electric Baseline Floor Rates

Building/Location Name	Service Address (Derby, CT)	UI/Constellation Electric Account #	UI/Constellation Electric Rate	Incremental Electric (IER) \$/kWh	Demand Rate (EDR) \$/kW	Summer Demand Rate (\$/kW)	Winter Demand Rate (\$/kW)
Derby High School	95 Chatfield St	100001414243 100000188977	Generation -FlatT&D-GS-TOD	\$0.085	\$14.71	\$16.43	\$14.09
Derby Middle School	73 Chatfield Street	100001414183	Generation -FlatT&D-GS-TOD	\$0.123	\$14.92	\$16.43	\$14.09
Bradley Elementary School	155 David Humphreys Road	100000180367 3 meters	Multiple	\$0.156	\$14.76	\$16.43	\$14.09
Irving Elementary School	9 Garden Place	100001435527 2 meters	Generation -FlatT&D-GS-TOD	\$0.122	\$14.85	\$16.43	\$14.09
City Hall	1 Elizabeth Street	100000207128	Generation -FlatT&D-GS-TOD	\$0.095	\$20.36	\$21.61	\$19.55
DPW HWY	5 Coon Hollow Road	100000193932 100000193941	Generation -FlatT&D-GS	\$0.168	\$19.94	\$21.61	\$19.55
Senior Center	293 Main Street			\$0.120	\$20.24	\$21.61	\$19.55
Veteran Community Center/Central Office	35 Fifth Street	100000223424	Generation -Direct BillT&D-GS	\$0.105	\$20.29	\$21.61	\$19.55
WPCA	1 Caroline Street	100001433621	Multiple	\$0.118	\$14.76	\$16.43	\$14.09
Library	313 Elizabeth Street	100000255408	Generation -FlatT&D-GS-TOD	\$0.117	\$14.89	\$16.43	\$14.09
Police	125 Water Street	100000197457	Generation -FlatT&D-GS	\$0.106	\$20.33	\$16.43	\$14.09
Fire 1 (Hotchkiss Hose Co.)	250 David Humphrey Road	100000279873 100000279877	Acc 100000279873 Generation - Flat T&D-GS-TOD	\$0.120	\$20.34	\$21.61	\$19.55
Fire 2 (Storm Engine Co.)	151 Olivia Street	100000223468	Generation -Direct BillT&D-GS	\$0.116	\$20.34	\$21.61	\$19.55
Fire 3 (East End Hose)	1750 Derby Milford Road	100000290797	Generation -Direct BillT&D-GS	\$0.118	\$20.24	\$16.43	\$14.09
Fire 4 (Paugassett H & L)	55 Derby Avenue	100000313379	Generation -Direct BillT&D-GS	\$0.105	\$20.18	\$21.61	\$19.55

The kWh (IER) and kW (EDR) costs have been averaged over the course of the baseline period. In turn, kWh (IER) and kW (EDR) costs will be averaged over the course of the reporting period, as reflected on utility invoices, for equitable cost avoidance savings reporting.

Baseline Electric Calculations

The Incremental Electric Rate to be used in the calculation of savings for the current reporting period shall be the greater of Formulas A-1a or A-1b.

FORMULA A-1a

IER_n = ΣTKC₁₋₁₂ ÷ ΣTKWH₁₋₁₂

Where:

- IER_n: Incremental Electrical Rate (Dollars per kWh) for reporting year n.
- ΣTKC₁₋₁₂: Sum Total of Monthly Electrical Utility Costs (Dollars) for kWh included Fuel Adjustment Cost and other related Energy Charges for Months 1 Through 12 of reporting year n.
- ΣTKWH₁₋₁₂: Sum Total of Monthly Electrical Incremental Use (kWh) for Months 1 Through 12 of reporting year n.

FORMULA A-1b

IER_n = IER_{baseline} x (1 + ER)ⁿ

Where:

- IER_n: Incremental Electric Rate (\$/kWh) for reporting year n
- IER_{baseline}: Incremental Electric Rate for the baseline period (Table 2.21)
- ER: Escalation Rate, 3.5% annually

The Demand Rate to be used in the calculation of savings for the current reporting period shall be the greater of Formulas B-1a or B-1b.

FORMULA B-1a

EDR_n = ΣTKC₁₋₁₂ ÷ ΣTKWH₁₋₁₂

Where:
 EDR_n: Demand Electric Rate (Dollars per kW)
 ΣTKC₁₋₁₂: Sum Total of Monthly Electrical Utility Costs (Dollars) for kW included Fuel Adjustment Cost and other related Energy kW Charges for Months 1 Through 12 of reporting year n.
 ΣTKW₁₋₁₂: Sum Total of Monthly Electrical Demand (kW) for Months 1 Through 12 of reporting year n.

FORMULA B-1b

EDR_n = EDR_{baseline} x (1 + ER)ⁿ

Where:
 EDR_n: Demand Electric Rate (\$/kW) for reporting year n
 EDR_{baseline}: Demand Electric Rate for the baseline period (Table 2.21)
 ER: Escalation Rate, 3.5% annually

Natural Gas

The table below lists the utility distribution company Eversource account numbers, and baseline rates for each Derby facility included in the performance contract. Natural Gas Rates listed are average for the baseline period.

Table 2.21 Natural Gas Baseline Floor Rates

Building/Location Name	Service Address (Derby, CT)	Eversource Natural Gas Account #	Eversource Natural Gas Rate	Natural Gas Rate (NGR) \$/Therm	Rate \$/MMBtu
Derby High School	95 Chatfield St	57688210004	R10	\$0.871	\$8.71
Derby Middle School	73 Chatfield Street	57198505018 57228845095	R30	\$0.796	\$7.96
Bradley Elementary School	155 David Humphreys Road	See Note 1	See Note 1	\$0.926	\$9.26
Irving Elementary School	9 Garden Place	57310960026	R10	\$0.926	\$9.26
City Hall	1 Elizabeth Street	57331216010	R20	\$1.290	\$12.90
DPW HWY	5 Coon Hollow Road	57055200067	R20	\$1.429	\$14.29
Senior Center	293 Main Street	57478410053	R20	\$1.606	\$16.06
Veteran Community Center/Central Office	35 Fifth Street	57920750031	R30	\$1.198	\$11.98
WPCA	1 Caroline Street	57806640017	R20	\$1.404	\$14.04
Library	313 Elizabeth Street	57970970067	R10	\$2.044	\$20.44
Police	125 Water Street	5756291000	R10	\$1.409	\$14.09
Fire 1 (Hotchkiss Hose Co.)	250 David Humphrey Road	57440940054	R20	\$1.388	\$13.88
Fire 2 (Storm Engine Co.)	151 Olivia Street	57814660098	R10	\$1.337	\$13.37
Fire 3 (East End Hose)	1750 Derby Milford Road	57079280012	R10	\$1.426	\$14.26
Fire 4 (Paugassett H & L)	55 Derby Avenue	57488110099	R20	\$1.302	\$13.02

¹New natural gas service will be installed at Bradley Elementary School. Baseline natural gas rates will based on Irving Elementary School natural gas rates.

Baseline Natural Gas Calculations

The natural gas unit costs have been averaged over the course of the baseline period. In turn, unit costs will be averaged over the course of the reporting period, as reflected on utility invoices, for equitable cost avoidance savings reporting.

The Natural Gas Rate to be used in the calculation of savings for the current reporting period shall be the greater of Formulas C-1a or C-1b:

FORMULA C-1a

$$NGR_n = \Sigma TGC_{1-12} \div \Sigma TGU_{1-12}$$

Where:

- NGR_n: Natural Gas Rate (\$/MMBTU) for reporting year n
- ΣTGC₁₋₁₂: Sum Total of Monthly Gas Volumetric charges (Utility) and Supply Costs (\$) for reporting year n
(note: Utility natural gas fixed delivery charges not included in monthly volumetric charges)
- ΣTGU₁₋₁₂: Sum Total of Monthly Gas Purchased (Therms) for Months 1 Through 12 of reporting year n.

FORMULA C-1b

$$NGR_n = NGR_{baseline} \times (1 + ER)^n$$

Where:

- NGR_n: Natural Gas Rate (\$/MMBTU for reporting year n
- NGR_{baseline}: Natural Gas Rate for the baseline period (Table 2.22)
- ER: Escalation Rate, 3.5% annually

Gas consumption is metered and billed in CCF by Eversource.

Fuel Oil

The table below lists the local fuel oil distributor rates for the base period rates for each site in effect during the baseline period. Fuel Oil rates listed are average for the baseline period.

Table 2.23 Fuel Oil #2 Baseline Floor Rates

Building/Location Name	Service Address (Derby, CT)	Fuel Oil Rate (FOR) \$/Gals	Fuel Oil Rate (FOR) \$/MMBtu
Bradley Elementary School	155 David Humphreys Road	\$2.153	\$15.492
Irving Elementary School	9 Garden Place	\$2.153	\$15.492

Baseline Fuel Oil Calculations

The Fuel Oil unit costs have been averaged over the course of the baseline period. In turn, unit costs will be averaged over the course of the reporting period, as reflected on delivery receipts, for equitable cost avoidance savings reporting.

The Fuel Oil Rate to be used in the calculation of savings for the current reporting period shall be the greater of Formulas D-1a or D-1b:

FORMULA D-1a

$$FOR_n = \Sigma TGC_{1-12} \div \Sigma TGU_{1-12}$$

Where:

- FOR_n: Fuel Oil Rate (\$/Gal.) for reporting year n
- ΣTGC₁₋₁₂: Sum Total of Monthly Gas Costs (\$) for reporting year n
- ΣTGU₁₋₁₂: Sum Total of Monthly Gas Purchased (Gals.) for Months 1 Through 12 of reporting year n.

FORMULA D-1b

$$FOR_n = FOR_{baseline} \times (1 + ER)^{(n-1)}$$

Where:

- FOR_n: Fuel Oil Rate (\$/Gal.) for reporting year n
- FOR_{baseline}: Fuel Oil Rate for the baseline period (Table 2.23)
- ER: Escalation Rate, 3.5% annually

Water & Sewer

The table below lists the water supplier (Regional Water Authority) in effect during the baseline period. Water and Sewer Rates listed below are those in effect at the end of the baseline period. These are the rates used in the savings calculations.

Table 2.22

Building/Location Name	Service Address (Derby, CT)	Regional Water Authority Account Number	Water/Sewer \$/kGal
Derby High School	95 Chatfield St		\$14.75
Derby Middle School	73 Chatfield Street		\$14.75
Bradley Elementary School	155 David Humphreys Road	211137732	\$14.72
Irving Elementary School	9 Garden Place		\$14.75
City Hall	1 Elizabeth Street	211161914	\$14.71
DPW HWY	5 Coon Hollow Road		\$15.07
Senior Center	293 Main Street	211161047	\$14.72
Veteran Community Center/Central Office	35 Fifth Street		\$14.74
WPCA	1 Caroline Street	211160502	\$14.69
Library	313 Elizabeth Street	211172515	\$14.69
Police	125 Water Street		\$14.71
Fire 1 (Hotchkiss Hose Co.)	250 David Humphrey Road		\$15.07
Fire 2 (Storm Engine Co.)	151 Olivia Street	211144100	\$14.75
Fire 3 (East End Hose)	1750 Derby Milford Road		\$15.07
Fire 4 (Paugassett H & L)	55 Derby Avenue		\$15.07

The Water and Sewer Rate to be used in the calculation of savings for the current reporting year shall be the greater of Formulas E-1a or E-1b:

FORMULA E-1a

$WSR_n = IW\&SR_n$ <p>Where: WSR_n: Water and Sewer Rate (\$/kGal) for reporting year n $IW\&SR_n$: Water & Sewer rate (\$/kGal) in effect at the end of reporting year n</p>

FORMULA E-1b

$WSR_n = WSR_{baseline} \times (1 + ER)^{(n-1)}$ <p>Where: WSR_n: Water and Sewer Rate (\$/kGal) for reporting year n $WSR_{baseline}$: Water and Sewer Rate for the baseline period (Table 2.24) ER: Escalation Rate, 3.5% annually</p>
--

V. MEASUREMENT & VERIFICATION SERVICES

JCI will provide the M&V Services set forth below in connection with the Assured Performance Guarantee.

1. During the Installation Period, a JCI Performance Assurance Specialist will track Measured Project Benefits. JCI will report the Measured Project Benefits achieved during the Installation Period, as well as any Non-Measured Project Benefits applicable to the Installation Period, to Customer within 60 days of the commencement of the Guarantee Term.
2. Within 60 days of each anniversary of the commencement of the Guarantee Term, JCI will provide Customer with an annual report containing:
 - A. an executive overview of the project's performance and Project Benefits achieved to date;
 - B. a summary analysis of the Measured Project Benefits accounting; and
 - C. depending on the M&V Option, a detailed analysis of the Measured Project Benefits calculations.
3. During the Guarantee Term, a JCI Performance Assurance Specialist will monitor the on-going performance of the Improvement Measures, as specified in this Agreement, to determine whether anticipated Measured Project Benefits are being achieved. In this regard, the Performance Assurance Specialist will periodically assist Customer, on-site or remotely, with respect to the following activities:
 - A. review of information furnished by Customer from the facility management system to confirm that control strategies are in place and functioning;
 - B. advise Customer's designated personnel of any performance deficiencies based on such information;
 - C. coordinate with Customer's designated personnel to address any performance deficiencies that affect the realization of Measured Project Benefits; and
 - D. inform Customer of opportunities to further enhance project performance and of opportunities for the implementation of additional Improvement Measures.
4. For specified Improvement Measures, JCI will:
 - A. conduct pre and post installation measurements required under this Agreement;
 - B. confirm the building management system employs the control strategies and set points specified in this Agreement; and
 - C. analyze actual as-built information and adjust the Baseline and/or Measured Project Benefits to conform to actual installation conditions (e.g., final lighting and water benefits calculations will be determined from the as-built information to reflect the actual mix of retrofits encountered during installation).
 - D. confirm that the appropriate metering and data points required to track the variables associated with the applicable Improvement Measures' benefits calculation formulas are established; and
 - E. set up appropriate data capture systems (e.g., trend and totalization data on the facility management system) necessary to track and report Measured Project Benefits for the applicable Improvement Measure.
 - F. Trend data records maintained in the ordinary course of system operation shall be used and relied upon by Johnson Controls in connection with Project Benefit calculations. Johnson Controls will use commercially reasonable efforts to ensure the integrity of the data collected to calculate the required metrics. In the event data are lost due to equipment failure, power failure or other interruption in data collection, transmission or storage, Johnson Controls will use reasonable engineering methods to estimate the impact of or replace the lost data

CUSTOMER RESPONSIBILITIES

In order for JCI to perform its obligations under this Agreement with respect to the Work, the Assured Performance Guarantee, and the M&V Services, Customer shall be responsible for:

1. Providing JCI, its subcontractors, and its agents reasonable and safe access to all facilities and properties that are subject to the Work and/or M&V Services;
2. Providing for shut down and scheduling of affected locations during installation, including timely shutdowns of chilled water and hot water systems as needed to accomplish the Work and/or M&V Services;
3. Providing timely reviews and approvals of design submissions, proposed change orders, and other project documents;
4. Providing the following information with respect to the project and project site as soon as practicable following JCI's request:
 - a. surveys describing the property, boundaries, topography and reference points for use during construction, including existing service and utility lines;
 - b. geotechnical studies describing subsurface conditions, and other surveys describing other latent or concealed physical conditions at the project site;
 - c. temporary and permanent easements, zoning and other requirements and encumbrances affecting land use, or necessary to permit the proper design and construction of the project and enable JCI to perform the Work;
 - d. a legal description of the project site;
 - e. as-built and record drawings of any existing structures at the project site; and environmental studies, reports and impact statement describing the environmental conditions, including hazardous conditions or materials, in existence at the project site.
5. Securing and executing all necessary agreements with adjacent land or property owners that are necessary to enable JCI to perform the Work;
6. Providing assistance to JCI in obtaining any permits, approvals, and licenses that are JCI's responsibility to obtain as set forth in Schedule 1;
7. Obtaining any permits, approvals, and licenses that are necessary for the performance of the Work and are not JCI's responsibility to obtain as set forth in Schedule 1;
8. Properly maintaining, and performing appropriate preventative maintenance on, all equipment and building systems affecting the Assured Performance Guarantee in accordance with manufacturers' standards and specifications;
9. Providing the utility bills, reports, and similar information reasonably necessary for administering JCI's obligations under the Assured Performance Guarantee within five (5) days of Customer receipt and/or generation or JCI's request therefor;
10. Providing all records relating to energy and/or water usage and related maintenance of the premises and relevant equipment requested by JCI;
11. Providing and installing utility sub-meters on all new construction and/or additions built during the Guarantee Term as recommended by JCI or, alternatively, paying JCI's applicable fees for calculating necessary adjustments to the Assured Performance Guarantee as a result of the new construction;

Schedule 2

12. Providing and maintaining a dedicated telephone line and/or TCP/IP remote connection to facilitate remote monitoring of relevant equipment;
13. Promptly notifying JCI of any change in use or condition described in Section III of Schedule 2 or any other matter that may impact the Assured Performance Guarantee;
14. Taking all actions reasonably necessary to achieve the Non-Measured Project Benefits;
15. If any equipment under control is changed out it is the responsibility of the customer to move the controls and the controls programming to the new equipment
16. Customer is responsible for furnishing or designating a computer for Plug Load Controls software and for maintaining schedules for associated plug load control equipment or equipment groupings
17. Computer software licensing fees after the initial subscriptions have come to term will be assumed by the Customer
18. Construction period staging space for items like equipment storage trailers, job trailers, JCI project employees and sub-contractor parking in / near the facilities to receive Facility Improvement Measures will be arranged by the Customer. Additionally, under the Customer security guidelines, grant access to facilities.
19. Customer is responsible for existing code issues. Any electrical or thermal utility services that increase as a result of code compliance will become the basis for a baseline adjustment.

PRICE AND PAYMENT TERMS

Customer shall make payments to JCI pursuant to this Schedule 4.

1. Work. The price to be paid by the Customer for the Work shall be **\$6,485,848** (the “Agreement Price”). Progress payments (including payment for materials delivered to JCI and work performed on and off-site) shall be made to JCI as follows:
 - i. An invoice for an Initial Payment (30% or **\$1,945,754**) will be submitted by JCI to Customer within five business days after Contract is fully executed and Customer project financing is in place for project development, start up, initial project mobilization and other costs incurred by JCI not previously reimbursed by Customer. This invoice shall be paid to JCI within ten (10) business days of receipt of invoice.
 - ii. The remainder of the Agreement Price will be invoiced via monthly progress invoices using standard AIA G702/703 forms. The Customer shall make progress payments promptly within fifteen (15) days of its receipt of an invoice. Payments that remain unpaid after thirty (30) days shall be subject to a monthly service charge of one and one-half percent (1.5%) per month.

2. M&V Services. In Performance Year 1 through Year 3 the Customer agrees that JCI shall provide M&V services at the pricing stated in Table 4.1. Before the end of Performance Year 3, the Customer can request additional years of M&V Services per the terms stated in Schedule 2, section V Measurement & Verification Services. The schedule of annual payments in Table 4.1 will be due and payable in advance upon receipt of JCI's invoice for such services.

Table 4.1

Year 1	\$	12,418
Year 2	\$	12,418
Year 3	\$	12,418
Year 4	\$	16,695
Year 5	\$	17,197
Year 6	\$	17,713
Year 7	\$	18,245
Year 8	\$	18,792
Year 9	\$	19,356
Year 10	\$	19,936
Year 11	\$	20,534
Year 12	\$	21,150
Year 13	\$	21,785
Year 14	\$	22,438
Year 15	\$	23,111
Year 16	\$	23,805
Year 17	\$	24,519
Year 18	\$	25,254
Total:	\$	310,532

3. Payments to The ECG Group

JCI shall use and fund the services of the City's Technical Owner's Representative, The ECG Group, to develop and manage the project for the City and to supervise and approve the preparation of the plans and specifications for all Energy Conservation Measures (ECM) proposed. ECG's fee shall be **\$367,123** and paid out by JCI in accordance with the following fee schedule:

30% upon Owner signing contract with JCI

30% upon submittal of plans and specifications (Payment shall be made incrementally on a pro-rated basis)

30% upon approval of plans and specifications (Payment shall be made incrementally on a pro-rated basis)

10% upon substantial completion

JCI will remit payment to ECG on a net-30 basis. Invoices that have not been paid by the ESCO within 45 days of receipt of such invoice shall be subject to interest at the rate of 18% per annum.

In addition to any other legal requirements, concerning energy performance contracts, ECG, the Owner's Representative shall certify that he or she is free from financial interest in JCI which conflicts with the proper representation of the City and that full disclosure has been made to the Owner detailing all financial compensation received from JCI

JCI agrees that ECG shall have the right to all environmental, energy, tax, financial, and electrical-related attributes, rights, credits, benefits and characteristics associated with or arising out of the transactions contemplated by this ESPC. This shall include, but not be limited to tax filings under Internal Revenue Code Section 179D. ECG will be designated the sole Section 179D beneficiary.

NOTICE TO PROCEED

Johnson Controls, Inc.
27 Inwood Rd
Rocky Hill, CT 06067
ATTN:

Re: Notice to Proceed for Energy Performance Contract

Dear JCI:

This Notice to Proceed is being issued by The City of Derby (“Customer”) to Johnson Controls, Inc. (“JCI”) pursuant to that certain Performance Contract entered into between Customer and JCI for the purpose of notifying JCI to commence work under such contract (check as applicable).

_____ All Work other than ECM 14, VRF System
_____ ECM 14, VRF System

In the event that this Notice to Proceed is delivered by Customer prior to the execution of the Performance Contract by Customer and JCI, Customer understands and expects JCI will incur significant costs and expenses in complying with this Notice to Proceed. In the event the Performance Contract is not executed by the parties, for any reason, Customer agrees to pay JCI for its costs and fees incurred in complying with this Notice to Proceed on a time and material basis. Customer also agrees JCI shall be entitled to a reasonable markup thereon for profit and overhead. Customer agrees to pay amounts billed by JCI no later than five (5) days after Customer receives JCI’s payment application. JCI will continue to submit payment applications to Customer until the Performance Contract is executed. Once the Performance Contract is executed, JCI will begin submitting its payment applications to Customer in accordance with the terms and conditions set forth therein. Any amounts already paid by Customer will be credited towards the Performance Contract price.

By signing and dating this Notice to Proceed, the parties hereto agree to these terms and represent and warrant they have the authority to execute this Notice to Proceed on behalf of their respective organizations.

City of Derby, CT

Signature: _____

Printed Name: _____

Title: _____

Date: _____

ACKNOWLEDGED & AGREED TO:

JOHNSON CONTROLS, INC.

Signature: _____

Printed Name: _____

Title: _____

Date: _____

CHANGE ORDER

Performance Contract dated _____, 20____ between Johnson Controls, Inc. and Customer	Change Order No.	Date (mo/day/yr)
Customer [Insert Customer Name]		
The above referenced Performance Contract is hereby modified to the extent described below in accordance with the Terms and Conditions of the CHANGE ORDERS section thereof.		
Scope of Work changed as follows:		
Total amount of this Change Order	\$	
Total Performance Contract amount as revised by this Change Order.....	\$	
The time for completion is: <input type="checkbox"/> increased, <input type="checkbox"/> decreased, <input type="checkbox"/> unchanged. The new completion date resulting from this Change Order is:	(mo, day, yr)	
[check if applicable] Assured Performance Guarantee changed as follows:		
Unless specifically changed by this Change Order, all terms, conditions and provisions of the above referenced Performance Contract remain unchanged and in full effect.		
JOHNSON CONTROLS, INC.	CUSTOMER	
Signature:	Signature:	
Printed Name:	Printed Name:	
Title:	Title:	

CERTIFICATE OF SUBSTANTIAL COMPLETION

PARTIES:

JOHNSON CONTROLS, INC. ("JCI")
27 Inwood Rd
Rocky Hill, CT 06067

City of Derby, CT ("Customer")

PROJECT: Performance Contract dated _____, 20__ between JCI and Customer

By executing this Certificate of Substantial Completion, Customer acknowledges the following:

- a. The work set forth in the Performance Contract is substantially complete.
- b. Customer has received the manuals, warranty information, and training required under the Performance Contract.
- c. The following punch list items must be completed by JCI (check as applicable):
 - punch list attached
 - punch list complete
- d. Upon completion of the punch list items, or if such punch list items are complete, JCI and Customer shall sign the Certificate of Final Completion attached hereto.

Dated _____, 20__ .

CUSTOMER:

JOHNSON CONTROLS, INC.

Signature: _____

Signature: _____

Printed Name: _____

Printed Name: _____

Title: _____

Title: _____

CERTIFICATE OF FINAL COMPLETION

PARTIES:

JOHNSON CONTROLS, INC. ("JCI")
27 Inwood Rd
Rocky Hill, CT 06067

City of Derby, CT ("Customer")

PROJECT: Performance Contract dated _____, 20__ between JCI and Customer

By executing this Certificate of Final Completion, Customer acknowledges the following:

- a. The work set forth in the Performance Contract has been reviewed and determined by Customer to be fully complete.
b. Customer accepts the work as complete and hereby releases JCI's obligations under any performance and payment bonds posted for the project as of the date set forth below.

Dated _____, 20__ .

CUSTOMER:

JOHNSON CONTROLS, INC.

Signature: _____

Signature: _____

Printed Name: _____

Printed Name: _____

Title: _____

Title: _____



Energy Savings Performance Contract for the City and Public School District of Derby, CT



Presented by:

Aldo Mazzaferro, CEM, CEA

Director of Technical Services

The ECG Group

March 21st, 2019



Introduction to The ECG Group

- *Specialists* in Energy Savings Performance Contract (ESPC) Owner's Representative Services. *Experts* in technical consulting, energy evaluation and engineering design.
- ECG provides expert guidance from the beginning through to the design, contract and construction phases, staying with you in to the post-construction measurement & verification phase.
- 100+ EPC Projects in NY, CT, and PA – All projects meeting & exceeding guaranteed energy savings. *Local clients include Thomaston, Cheshire, Seymour, Southington, Waterbury, Guilford, Branford, East Haven, Region SD #13, and Capital Region Education Council (CREC).*



ECG is a CCM Energy Consultant
for all statewide ESPC projects

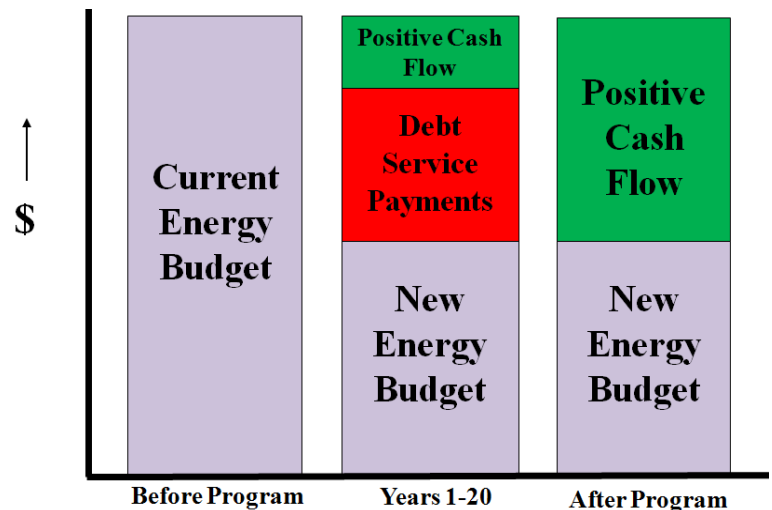
What is an Energy Savings Performance Contract (ESPC)?

- Partnership between a Municipal Agency, Energy Services Company (ESCO), and Owner's Representative.

- [City of Derby, Johnson Controls, and The ECG Group](#)

- Make needed building improvements now and pay for them out of future, guaranteed energy savings.

- ECG's model guarantees no out of pocket cost and no risk.





Activity to Date

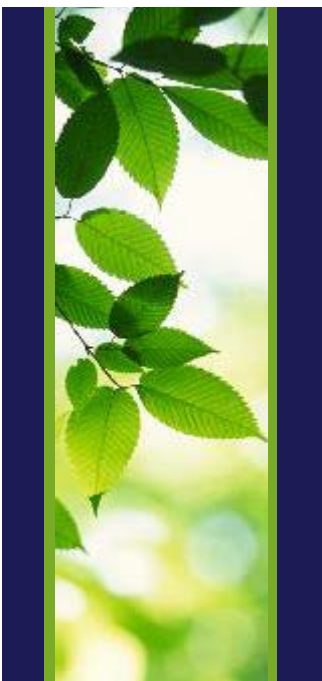
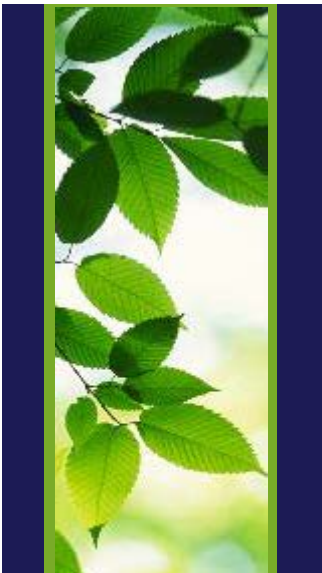
- City selected Johnson Controls via RFQ to conduct investment-grade, detailed energy audit – Winter 2017/18
- City procured The ECG Group to provide owner's representative and engineering services to oversee ESPC Initiative – Spring 2018
- Johnson Controls presented cost/savings/scope proposal from the investment-grade energy audit – Fall 2018
- The ECG Group conducts detailed evaluation of Johnson Controls' proposal on behalf of client – Fall/Winter 2018
- City executed Energy Savings Performance Contract (ESPC) to proceed with financing & implementation of the proposed upgrades – February 2019



Derby PS: Scope Overview

Facility Improvement Measures (FIMS)	Derby HS	Derby MS	Bradley School	Irving School
Comprehensive LED Upgrades	✓	✓	✓	✓
Temperature Controls		✓		✓
Pipe & Valve Insulation			✓	✓
Oil-Gas Conversion				✓
Boiler Upgrade			✓	
Domestic HW Upgrade	✓			
Computer Load Management	✓	✓	✓	✓
Water Conservation	✓	✓	✓	✓
Solar Photovoltaics		✓	✓	✓
Plug Load Controls	✓	✓	✓	✓
VRF Installation (HVAC Upgrade)				✓
Compressor Controls	✓	✓		✓
Transformer Upgrades		✓		

Red Font Indicates Major Scope Highlight





Next Steps

- Construction Kick Off Meeting last week
- Construction schedule is approximately 12-18 months
- Prioritize “Fast Payback” Measures to be implemented ASAP
- Target critical HVAC infrastructure upgrades for Summer 2019 construction window





Thank You!

For more information please contact:



Aldo Mazzaferro
Director of Technical Services
The ECG Group
(631) 360-0006 Ext 410
aldo@theecggroup.com

SAP GOAL AND MEASURES

ACADEMICS

District Growth Areas:

- 1.1 Develop a comprehensive PK-12 curriculum that includes aligned objectives, instructional strategies, and assessments.
- 1.2 Create an environment of high expectations and research-based teaching practices that support students at all tiers of instruction.
- 1.3 Support a collaborative data team process to analyze student work and assessments, evaluate implementation of curriculum, and tiered instructions.
- 1.4 Fully implement a blended-learning curriculum to strengthen personalized learning and increase student engagement

School Growth Areas:

- 1.1 Develop a comprehensive PK-12 curriculum that includes aligned objectives, instructional strategies, and assessments.
- 1.2 Create an environment of high expectations and research-based teaching practices that support students at all tiers of instruction.
- 1.3 Support a collaborative data team process to analyze student work and assessments, evaluate implementation of curriculum, and tiered instructions.
- 1.4 Fully implement a blended-learning curriculum to strengthen personalized learning and increase student engagement

HUMAN CAPITAL

District Growth Areas:

- 2.1 Provide opportunities for district level grade/subject area collaboration to share strategies and build capacity
- 2.2 Provide job embedded coaching and professional development for all staff around academics and social-emotional learning through modeling, practice, and feedback
- 2.3 Model and practice core beliefs
- 2.4 Providing staff with leadership opportunities

School Growth Areas:

- 2.1 Provide opportunities for district level grade/subject area collaboration to share strategies and build capacity
- 2.2 Provide job embedded coaching and professional development for all staff around academics and social-emotional learning through modeling, practice, and feedback
- 2.3 Model and practice core beliefs
- 2.4 Providing staff with leadership opportunities

OPERATIONS

District Growth Areas:

- 3.1 #REF!
- 3.2 #REF!
- 3.3 #REF!
- 3.4 #REF!

School Growth Areas:

- 3.1 Review and analyze, with staff, performance data to identify areas of strength and needs
- 3.2 Continue to seek new funding sources and apply for grants that align to district goals
- 3.3 Support the integrated use of technology throughout the district in all schools and departments (Online Student Registration, Recruitment software and time and labor system)
- 3.4 Support facility, maintenance and renovations to support the 5 year Capital Plan and DAS eligible projects

CULTURE AND CLIMATE

District Growth Areas:

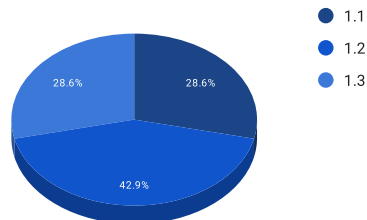
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School Growth Areas:

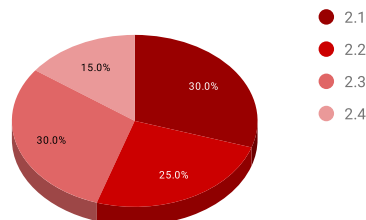
- 4.1 Reduce student chronic absenteeism with the support of Attendance Coordinators
- 4.2 Actively participate on local and state boards and committees
- 4.3 Provide opportunities for recognition/celebrations specific to student and staff accomplishments
- 4.4 Engage students and families with social media, newsletters, School Messenger, electronic signage.

Monthly Statistics Report

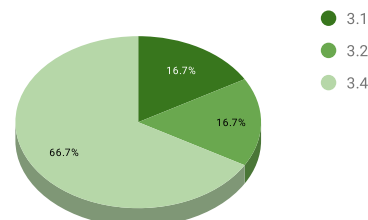
Academics



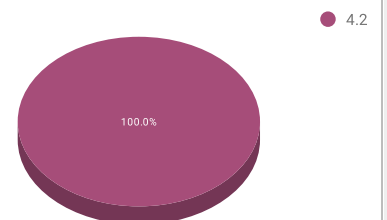
Human Capital



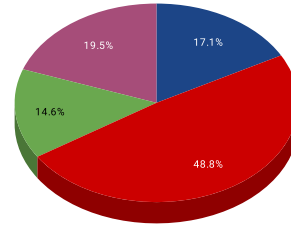
Operations



Culture and Climate



Strategic Plan



- Academics
- Human Capital
- Operations
- Culture & Climate

Indicator	1.1 Develop a comprehensive PK-12 curriculum that includes aligned objectives, instructional strategies, and assessments.	1.2 Create an environment of high expectations and research-based teaching practices that support students at all tiers of instruction.	1.3 Support a collaborative data team process to analyze student work and assessments, evaluate implementation of curriculum, and tiered instructions.	1.4 Fully implement a blended-learning curriculum to strengthen personalized learning and increase student engagement	Date Completed	Academics
Academics Enter a 1 in the cells to indicate alignment to goal	✓	✓	✓			Attended PPT's
		✓	✓			Attended meeting with Turnaround office regarding application to Commissioner's Network
		✓	✓			Meeting with SERC (Special Educaiton Resource Center) to review special education program
	✓					Met with Naviance to plan for course planning tool
						Met with Shelton to Review Middle School Curriculum
Indicator	2.1 Provide opportunities for district level grade/subject area collaboration to share strategies and build capacity	2.2 Provide job embedded coaching and professional development for all staff around academics and social-emotional learning through modeling, practice, and feedback	2.3 Model and practice core beliefs	2.4 Providing staff with leadership opportunities	Date Completed	Human Capital
Human Capital Enter a 1 in the cells to indicate alignment to goal	✓		✓			Attended Superintendent Network Joint Meeting Reflection and Professional Learning
	✓	✓	✓	✓		Conducted Instructional Rounds at Irving & DHS
	✓	✓	✓	✓		Conducted Mid-Year reviews with Admins
	✓	✓	✓	✓		Attended Portrait of a Graduate Training
			✓	✓		Attended CAPSS Ignite Innovation Event
		✓	✓			Planned for Admin Retreat April 3-5m 2019
	✓					Held Individual Teacher Meettings
	✓	✓				Attended MOY Alliance Planning Meeting with CSDE
					Reviewed Curriculum Audit from CES	

Indicator	3.1 Review and analyze, with staff, performance data to identify areas of strength and needs	3.2 Continue to seek new funding sources and apply for grants that align to district goals	3.3 Support the integrated use of technology throughout the district in all schools and departments (Online Student Registration, Recruitment software and time and labor system)	3.4 Support facility, maintenance and renovations to support the 5 year Capital Plan and DAS eligible projects	Date Completed	Operations
Operations Enter a 1 in the cells to indicate alignment to goal				✓		Attended Field House and Baseball Field Committee & Athletic Field Committee meetings
				✓		Attended Budget sub-committee meeting
				✓		Attended weekly meetings with contractors
	✓					Held Labor management meetings with CEA
		✓		✓		Planned for various grants
Indicator	4.1 Reduce student chronic absenteeism with the support of Attendance Coordinators	4.2 Actively participate on local and state boards and committees	4.3 Provide opportunities for recognition/celebrations specific to student and staff accomplishments	4.4 Engage students and families with social media, newsletters, School Messenger, electronic signage.	Date Completed	Culture and Climate
Culture and Climate Enter a 1 in the cells to indicate alignment to goal		✓				Attended CAPSS BOD & Exec. Board meetings
		✓				Conducted SCASA Meeting
		✓				Attended BOA Meeting
		✓				Chaired CAPSS Legislative Committee Meeting
		✓				Attended Housing Task Force Meeting
		✓				Participated in BHCare BOD Meeting
		✓				Attended School and Community Events
		✓				Prepared testimony and testified on education related Bills
					Held Individual Teacher Meetings	



March 2019

Derby Public Schools

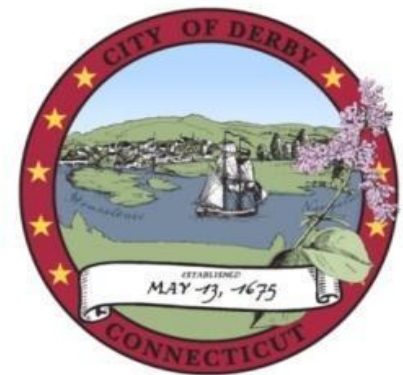
Monthly Board Report

Technology Department

Bradford Langridge, Director of Technology

Carmine D'Onofrio, Lead Technician

Chuck Joaquim, Support Technician



Achievements



Technology Department

- New Hire has started, and is off to a good start.
- New video security vendor has been identified, had a meeting and are working with them to review our current systems.
- All Fiber work has been completed.
- All Erate bids have been reviewed and winning contracts have been identified.
- worked with Bullseye to replace and upgrade hardware for current voip at CO, IRV, BRD.
 - Scheduling DMS and DHS to happen asap depending on Bullseye availability.
- Brought back dedicated days at DMS for 1 to 1 repairs.
- located a local computer shop that will repair iPad screens at a very affordable cost.

Projects



Technology Department

- Moving forward with a voip vendor to draft a formal proposal to show accurate details.
- On going - Reviewing our current servers to resolve any intermittent issues.
- Working to identify all aspects of the current physical network for documentation, and to create a scope of work for the larger project of upgrading and replacing remaining switch hardware.
- Working to get surveillance software current and back under maintenance
- Continuous updating the district website to remove aged content.
- ongoing push to get 1 to 1 numbers up at DHS.
- auditing all physical controls systems and who has access.
- adding a connector to powerschool to our AD to streamline accounts creation and centralize data in our systems.

One to One Updates



Technology Department

Chromebook Distribution

- Continuous project as needed for new students
- Current deployed per school:
 - DHS = 296 (321 students on list)
 - (7) never returned Chromebooks from last year. - attempts have been made by IT and library media specialist to retrieve and or find current status of these chromebooks.
 - 18 students never turned in paperwork, several attempts have been made by IT and library media specialist.
 - DMS = 345 (348 students on list)
 - 1 student never turned in paperwork, several attempts have been made by IT and DMS Guidance.
 - 2 students owe student dues

Repairs for previous month

- Total per location:
- DMS = 24 (next month expected to have higher count, currently have 35)
- DHS = 15 (2 Raise)

Memo

To: Board of Education
From: Mark G. Izzo
CC: Dr. Conway
Date: 3/18/2019
Re: Facility Management Update

Following is a summary of the work completed since the last report:

Bradley

- Resolved heating issues

Irving

- Quick reaction to burst water pipe in lower level – damage was contained – no school days lost. Addressing lingering issues raised by staff
- Resolved issues identified during annual DAS elevator inspection

Derby High School

- Awaiting replacement skylight (on order) to resolve roof leak issue
- Provided coordination for DAS installation of Advanced Manufacturing Center equipment
- Resolved issues identified during annual DAS elevator inspection

Derby Middle School

- Contractor has completed re-piping and pipe repairs. During April break plan is to check the flows on the repaired roof-top units and test the flows with both chiller pumps running.

General

- Provided support for EGC/JCI Energy Savings Performance contract (building plans, facilitated on-site reviews, etc.).
- Provided support for regionalization study (building plans, facilitated on-site reviews, etc.).

Committee of the Whole

February 05, 2019 6:30 PM
Derby Middle School Cafetorium
73 Chatfield Street

Attendance Taken at 6:30 PM:

Present Board Members:

Mr. Dan Foley
Mr. Jim Gildea
Mrs. Laura Harris
Mr. George Kurtyka
Mr. Kenneth Marcucio
Mrs. Janine Netto
Mrs. Debra Borrelli
Mrs. Casey Picheco

Absent Board Members:

Mrs. Rebecca O'Hara
Mr. Kenneth Marcucio left the meeting early.

I. Call to Order

I.a. Opening Ceremonies

I.b. Roll Call

I.c. Additions/Deletions to the agenda

II. Public Participation

No one from the public spoke.

III. Student Representative Report

Mr. Ibrahim discussed a survey that the student council is conducting regarding student behavior expectations. Mr. Gildea asked for his perspective on bathroom conditions, monitoring, safety, etc. Mr. Ibrahim said he feels they are abused. It's very uncomfortable using the bathroom with so many students hanging out in the bathroom vaping. Mr. Gildea asked if more monitoring was needed. He said he was ok with vape detectors, no cameras. Mr. Gildea asked what he felt should be improved on as far as discipline. Mr. Ibrahim said they should focus on respect and accountability.

IV. Administrator's Reports

IV.a. Bradley School Monthly Report

Mr. Ciccarini updated the Board on this past month's activities.

- They celebrated the 100th day of school and jersey day.
- Instructional rounds were held.
- New cafeteria tables were set up.
- It was discovered that the PA system could not be heard in the bathrooms. New speakers were installed to correct the issue.

IV.b. Irving School Monthly Report

- Researched coaching protocols; Ms. Quartiano set up elementary coaches meeting for 2/7 to align and improve coaching protocols and efficacy
- Kim Lavado from SDE met with Gr. 4 and 5 to continue Journeys alignment and rigor work
- Elke from Literacy How met with Gr. 3, 4 and 5 to introduce Structured Literacy lesson format; set up new coaching cycles for 2nd half of year

- Middle of the Year Data Celebrations and Conversations
- Middle of the Year grade level literacy data meetings w/ Kelly from Hill for Literacy and Janet Zarchen from SERC
- Participation in Instructional Rounds at Bradley with one classroom teacher, literacy coach and math coach

IV.c. Derby Middle School Monthly Report

- Q2 Report Cards Issued
- Attended PD on Accountability Conversations
- Winter NWEA Benchmark Completed
- Prepared for the Feb 5th NAEP 8th Grade Assessment to be held at DMS
- Ongoing curriculum analysis

IV.d. Derby High School Monthly Report

- Initial course audit has been completed, currently working with CIA Director to develop curriculum template.
- PSAT was administered to students in grades 9-11 on October 10
- Student data spreadsheets were shared with staff to chart student progress and identify areas for growth

IV.e. Early Childhood Program Director

IV.f. Special Education Report

Mrs. Sheridan updated the Board on the status of the Special Education program.

IV.g. Athletic Department Report

V. Restorative Practices Review

Mrs. Caggiano gave a presentation on Restorative Practices. The Board expressed concern that the school district is too lenient with students and stronger discipline should be implemented.

VI. 2019-2020 District Calendar

Motion Failed: The Board of Education approve the 2019-2020 District Calendar, as recommended by the Superintendent of Schools. failed with a motion by Mrs. Janine Netto and a second by Mr. George Kurtyka.

Mr. Dan Foley	No
Mr. Jim Gildea	No
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	No
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	No
Mrs. Casey Picheco	Yes

Motion Passed: The Board of Education approve the 2019-2020 District Calendar with a start date of August 29th for teachers and students begin on September 3rd with an end date of June 16th as recommended by the Superintendent of Schools. passed with a motion by Mr. Dan Foley and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	No

Mr. Kenneth Marcucio	Yes
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	No

VII. NSBA Conference

Motion Passed: The Board of Education approve the reimbursement for attendance at the National School Board Association conference on March 30th - April 1, 2019 for Dan Foley, Laura Harris and George Kurtyka. passed with a motion by Mrs. Janine Netto and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

VIII. Executive Session

Motion Passed: The Board of Education enter into Executive Session to review the appointment list, resignations and to discuss a personnel matter, and the Superintendent of Schools is invited to attend at 8:35 PM. passed with a motion by Mrs. Janine Netto and a second by Mr. Dan Foley.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

The meeting reopened to the public at 9:10 PM.

IX. Appointment List/Vacancy List

X. Resignations

Motion Passed: The Board of Education accept the resignation of James Rosa, Physical Education Teacher at Derby Middle School, with regret and best wishes. passed with a motion by Mrs. Laura Harris and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	No
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

Motion Passed: The Board of Education accept the resignation of Cathy Smarz, Guidance Secretary at Derby Middle School, with regret and best wishes. passed with a motion by Mrs. Janine Netto and a second by Mrs. Laura Harris.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XI. Lead School Security Officer

Motion Passed: The Board of Education post for the hiring of a Lead School Security Officer, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mrs. Casey Picheco.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XII. Adjourn

Motion Passed: The Board of Education adjourn its meeting at 9:18 PM. passed with a motion by Mrs. Janine Netto and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

Terri Kuskowski
Recording Secretary

Minutes are subject to approval at the next Board meeting.

Board Meeting

February 21, 2019 6:00 PM
Derby Middle School Cafetorium
73 Chatfield Street

Attendance Taken at 6:30 PM:

Present Board Members:

Mr. Dan Foley
Mr. Jim Gildea
Mrs. Laura Harris
Mr. George Kurtyka
Mrs. Janine Netto
Mrs. Debra Borrelli
Mrs. Casey Picheco

Absent Board Members:

Mr. Kenneth Marcucio
Mrs. Rebecca O'Hara

I. Call to Order

I.a. Opening Ceremonies

I.b. Roll Call

I.c. Additions Deletions to the Agenda

Motion Passed: Motion to move executive session after student recognition.
passed with a motion by Mr. Kenneth Marcucio and a second by Mr. George Kurtyka.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

II. Public Participation

No one from the public spoke.

III. Student Recognition

Congratulations to Derby High School, 11th grade student, Kevin Tayag, for taking second place for his photograph "Lake Reflections". Kevin participated in the Teen Vision's Art Show at Sacred Heart University on February 3, 2019.

The following students also participated in the Teen Vision's Art Show:

Vanessa Adamski, Gr. 11
Micaiah Hunter, Gr. 12
Jose Navarro, Gr. 10
Kaya Tinney, Gr. 10
Shaun Uberti, Gr. 9

IV. All-Star Transportation Update

The Board reviewed the transportation report. They discussed the number of bus students and the possibility of consolidating bus stops.

V. Subcommittee Reports

Finance Committee - Nothing to report.

Mrs. Picheco

Negotiations and Personnel Committee - Nothing to report.

Mrs. Borrelli

School/Community Relations and Policy - 2/26 at 5:30 is the next meeting

Mrs. Harris

Plant and Facilities Committee - the architect for a facilities study would need to be self-funded or added to the budget. Dr. Conway said that they could hire the architect through a grant. It will cost approx. 40-45,000.

Mr. Gildea

Long-Range Planning Committee - Nothing to report.

Mr.

Marcucio

Field House and Baseball Field Building Committee - Nothing to report.

Mr. Marcucio

Student Health and Safety Committee - Nothing to report.

Mrs. Netto

VI. Superintendent's Report

- Attended PPT's Attended Portrait of a Graduate Training
- Attended meeting with Turnaround office regarding application to Commissioner's Network
- Meeting with SERC (Special Education Resource Center) to review special education program

Human Capital

- Attended Superintendent Network Joint Meeting Reflection and Professional Learning
- Conducted Instructional Rounds at Bradley
- Conducted Mid-Year reviews with Admins
- Attended Portrait of a Graduate Training
- Attended AASA Conference

Operations

- Attended Field House and Baseball Field Committee & Athletic Field Committee meetings
- Attended Budget sub-committee meeting
- Attended weekly meetings with contractors
- Held Labor management meetings with CEA
- Planned for School Improvement Grant for renovations to the HS Science/Advanced Manufacturing and RAISE Academy
- Visited with Joan to select furniture for Field House

Culture and Climate

- Attended CAPSS BOD & Exec. Board meetings
- Conducted SCASA Meeting
- Attended BOA Meeting
- Chaired CAPSS Legislative Committee Meeting
- Attended Housing Task Force Meeting
- Participated in BHCare BOD Meeting
- Attended School and Community Events
- Prepared testimony and testified on education related Bills
- Attended Valley United Way Event
- Coordinated meetings with Speaker of the House and Minority Leader for Superintendents across the state to discuss issues related to education

VII. Administrator's Reports

VII.a. Technology Report

The Board reviewed the technology report.

VII.b. Facilities Report

Following is a summary of the work we have completed since the last report:

Bradley

- Heating issues were resolved by replacing blower motors and repairing circulation pumps
- Replaced leaking lavatory faucets.
- Replaced hallway lighting
- Waxed café floor and installed new tables (14)

Irving

- Repaired walls and painted Learning Center classrooms.
- Painted lower level hallway.
- Heating issues were resolved by repairing air handler and steam traps.

Derby High School

- Addressed heating issues in four (4) classrooms.
- Source of roof leak has been identified; replacement skylight on order.
- Replaced three (3) café tables.

Derby Middle School

- Replaced roof-top unit motor.
- Contractor has completed re-piping and pipe repairs.

VIII. Approval of Minutes

Motion Passed: The Board of Education approve the minutes from the following meeting:

- January 8, 2019 - Committee of the Whole
- January 17, 2019 - Board Meeting - with a correct to attendance: Ms. Harris was absent. passed with a motion by Mrs. Janine Netto and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent

Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

IX. Financial Report

Motion Passed: The Board of Education approve the financial report for the period through December 31, 2018, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mr. George Kurtyka.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

Motion Passed: The Board of Education approve the transfer of funds from Teacher substitutes for Derby High School to Intern Program in the amount of \$7,800.00. passed with a motion by Mrs. Janine Netto and a second by Mr. George Kurtyka.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

X. Qualitative Research Project Approval

Motion Passed: The Board of Education approve the Qualitative Research Project presented, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mrs. Laura Harris.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XI. Commissioner's Network

Dr. Conway advised the Board that they are working on the application for the Commissioner's Network. The application is due to the State in March.

XII. 2019-2020 Program of Studies

Motion Passed: The Board of Education approve the 2019-2020 Derby High School Program of Studies, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XIII. Discipline Improvement Plan DHS/DMS

The Board discussed student expectations. They reviewed a Powerpoint presentation including a progressive discipline matrix for level 1, 2, & 3 offenses. Mr. Gildea said he'd like administration focus more on improvement plans for issues such as students feeling unsafe in the bathroom. The Board feels they need a better understanding of what the problems actually are so they can work on solutions.

XIV. Donation To The Music Department

Motion Passed: The Board of Education accept the donation of a Yamaha Trumpet to the Music Department from Christine Shortsleeve. passed with a motion by Mrs. Janine Netto and a second by Mr. Dan Foley.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XV. Executive Session

Motion Passed: The Board of Education enter into Executive Session to review the appointment list, personnel matters, and review a contract, and the Superintendent of Schools is invited to attend at 6:36 PM. passed with a motion by Mrs. Janine Netto and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

Motion Passed: Motion to amend previous motion and include the invitation of Dr. Joseph Raiola as also invited to attend. passed with a motion by Mrs. Janine Netto and a second by Mrs. Debra Borrelli.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

The meeting was reopened to the public at 7:15 PM.

XVI. Appointment List/Vacancy List

Motion Passed: The Board of Education approve the appointment of Joshua Dydyn, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mr. Dan Foley.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

Motion Passed: The Board of Education approve the appointment list, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mr. George Kurtyka.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XVII. Derby Educator Contract

Motion Passed: The Board of Education approve the Derby Educator Contract for the period of July 1, 2019 through June 30, 2022, as recommended by the Superintendent of Schools. passed with a motion by Mrs. Janine Netto and a second by Mrs. Casey Picheco.

Mr. Dan Foley	Abstain
---------------	---------

Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

XVIII. Adjourn

Motion Passed: The Board of Education adjourn its meeting at 9:08 PM. passed with a motion by Mrs. Janine Netto and a second by Mr. George Kurtyka.

Mr. Dan Foley	Yes
Mr. Jim Gildea	Yes
Mrs. Laura Harris	Yes
Mr. George Kurtyka	Yes
Mr. Kenneth Marcucio	Absent
Mrs. Janine Netto	Yes
Mrs. Rebecca O'Hara	Absent
Mrs. Debra Borrelli	Yes
Mrs. Casey Picheco	Yes

Terri Kuskowski
Recording Secretary

Minutes are subject to approval at the next Board meeting.



Derby Public Schools Business Manager's Report March 21, 2019

This financial detail provides the operating budget information for the month ending February 28, 2019 as follows:

<u>Line</u>	<u>Description</u>	<u>Proj. Balance</u>
100	Salaries (Certified and Non-Certified)	\$160,325
200	Benefits	(\$100,150)
300	Professional Services	\$47,009
400	Property Services	\$38,852
500	Other Purchased Services	(\$588,321)
600	Supplies and Materials	\$161,918
700	Equipment	\$13,122
800	Dues and Fees	\$10,636
Operating Financial Report		(\$256,610)
	Insurance waiver/unemploy reimb	\$ 90,652
	SSOs funded by E-Rate \$	\$ 73,983
	Excess Costs Grant (prelim)	\$ 481,149
Operating Financial Report - Adjusted		\$389,173

Operating Budget Major Variance Drivers

100 SALARIES – as reported / E-rate funds for SSOs

200 BENEFITS – as reported / City to reimburse unemployment and waiver funds

300 PROFESSIONAL SERVICES – need to set remaining POs for pupil services

400 PROPERTY SERVICES – as reported

500 OTHER PURCHASED SERVICES – monitoring SPED costs / partial offset with Excess Cost funds

600 SUPPLIES & MATERIALS – spend down in process

700 EQUIPMENT – as reported

800 DUES & FEES – as reported

State and Federal Grants Summary FY18 – FY19

Total Federal/State Grants	<u>Projected Balance</u> \$1,042,978
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Derby has received grants for such purposes Title I, Title II, Title III, Special Education (IDEA), School Readiness, Alliance & Priority School District, Pre-School Development, Smart Start and Perkins. Each grant has spending criteria requiring careful monitoring to maintain the intention of each program.

Federal grants are typically two-year grants. Any grant noted with a C/O (carryover) is in its second year.

Noteworthy grant information:

- Working final modifications to Title IV and School Improvement Grant (SIG FY19 for DHS Math) grant applications.

Financial Summary

Motion: *The Board of Education approve the financial report for the period through February 28, 2019, as recommended by the Superintendent of Schools and,*

The information contained on the following financial report includes:

- Object & Account Description – A summary total of all object accounts and their descriptions as indicated in the school budget
- Budget – The approved and adopted budget for the fiscal year 2018-2019
- Transfers – Board of Education approved transfers (>\$5K) required to cover expenses not anticipated during budget deliberations
- Adjusted Budget – Reflects approved transfers
- Expenditures – Actual expenditures incurred through the date of the financial report
- Encumbered – Purchase orders or contracts obligating funds but not yet processed for payment through the date of the financial report
- Balance – The adjusted budget less expended and encumbered costs
- Estimated Adjustments – Funding not encumbered but anticipated to be obligated on a later financial report or obligations expected to be released on a later financial report
- Grant Cash Received – Found on the grant report (last page) and reflects the actual cash received from the state for this fiscal year through the date of the financial report

Other noteworthy information:

- PowerSchool has advised that the Phoenix product (HR and General Ledger systems) has entered the final phase of its lifecycle with discontinuation of support and maintenance effective July 1, 2020. Working with CASBO and PowerSchool on next steps – 42 districts currently use the product.

Derby Food Service		
Statement of Activity		
February 2019		
	<u>Total</u>	
	Feb 2019	Jul 2018 - Feb 2019 (YTD)
Revenue		
Income	91.66	141.28
Catering Income	1,866.00	14,599.00
Intergovernmental		
Government - NSL	39,525.42	276,524.01
Government-Breakfast	13,880.59	100,460.26
Government-Snacks	2,140.32	20,364.78
Matching Funds		15,371.00
Total Intergovernmental	\$ 55,546.33	\$ 412,720.05
Revenue	5,709.11	38,742.04
Revenue-Mealpay	5,900.85	36,777.61
Total Income	\$ 69,113.95	\$ 502,979.98
Total Revenue	\$ 69,113.95	\$ 502,979.98
Cost of Goods Sold		
Cost of Goods Sold		
Beverage Purchases	1,196.94	10,171.78
Food Purchases	23,776.72	186,688.28
Paper Supplies	2,469.26	16,770.63
Total Cost of Goods Sold	\$ 27,442.92	\$ 213,630.69
Total Cost of Goods Sold	\$ 27,442.92	\$ 213,630.69
Gross Profit	\$ 41,671.03	\$ 289,349.29
Expenditures		
Bank Charges & Fees		20.00
Beverage Purchasesv	1,873.03	11,974.95
Computer Expense		5,201.65
Office Supplies	119.10	119.10
Other Business Expenses	199.91	19,106.45
Outside Services		500.00
Payroll		
Salaries & Wages	32,265.74	237,257.50
Total Payroll	\$ 32,265.74	\$ 237,257.50
Purchases	490.18	6,161.67
Repairs & Maintenance	139.49	755.37
Student Rebate		29.01
Total Expenditures	\$ 35,087.45	\$ 281,125.70
Net Operating Revenue	\$ 6,583.58	\$ 8,223.59
Net Revenue (pre-adjusted)	\$ 6,583.58	\$ 8,223.59
		\$ 15,000.00
		<i>Van expense to be capitalized (Van)</i>
Net Revenue (Adjusted)		23,223.59

Bank account balance as of 3/18/19 = \$115,635
CSDE Claims not paid = \$106,990
Estimated cash position (above less A/P) = \$183,438

Respectfully submitted,

Mark G. Izzo

3/21/19

Derby Public Schools
Monthly Financial Report - February 2019

March 1, 2019

OBJECT & ACCOUNT DESCRIPTION	BUDGET 2018 - 2019	TRANSFERS 2018 - 2019	ADJ BUDGET 2018 - 2019	EXPENDITURES 2018 - 2019	ENCUMBERED 2018 - 2019	BALANCE 2018 - 2019	ESTIMATED ADJUSTMENTS	PROJECTED YEAR-END
Central Administration	\$ 308,457	\$ -	\$ 308,457	\$ 193,440	\$ 116,584	\$ (1,567)	\$ -	\$ (1,567)
School Principals/Directors	\$ 926,255	\$ (6,956)	\$ 919,299	\$ 577,317	\$ 346,765	\$ (4,783)	\$ -	\$ (4,783)
Teachers - Regular	\$ 6,418,808	\$ 6,956	\$ 6,425,764	\$ 3,496,317	\$ 2,843,686	\$ 85,761	\$ -	\$ 85,761
Teachers Substitutes	\$ 75,600	\$ (7,800)	\$ 67,800	\$ 54,288	\$ -	\$ 13,512	\$ -	\$ 13,512
Teachers - Special Education	\$ 746,006	\$ -	\$ 746,006	\$ 363,155	\$ 311,599	\$ 71,253	\$ -	\$ 71,253
Pupil Services	\$ 729,179	\$ -	\$ 729,179	\$ 405,914	\$ 321,994	\$ 1,272	\$ -	\$ 1,272
Library/Media	\$ 63,729	\$ -	\$ 63,729	\$ 34,426	\$ 29,413	\$ (110)	\$ -	\$ (110)
Retirement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Total Certified Salaries	\$ 9,268,034	\$ (7,800)	\$ 9,260,234	\$ 5,124,856	\$ 3,970,041	\$ 165,338	\$ -	\$ 165,338
Secretaries, Clerical	\$ 466,565	\$ -	\$ 466,565	\$ 298,600	\$ 173,697	\$ (5,733)	\$ -	\$ (5,733)
Technology	\$ 96,479	\$ -	\$ 96,479	\$ 57,664	\$ 38,815	\$ (0)	\$ -	\$ (0)
Custodians/Facilities	\$ 786,466	\$ -	\$ 786,466	\$ 536,762	\$ 200,859	\$ 48,845	\$ 48,845	\$ 0
Nurses	\$ 197,555	\$ -	\$ 197,555	\$ 132,819	\$ 66,451	\$ (1,716)	\$ -	\$ (1,716)
Paraprofessionals	\$ 25,786	\$ -	\$ 25,786	\$ 15,411	\$ 7,310	\$ 3,066	\$ -	\$ 3,066
Spec. Educ.Paraprofess/Tutors	\$ 810,400	\$ -	\$ 810,400	\$ 459,958	\$ 274,485	\$ 75,957	\$ -	\$ 75,957
Coaching/Extra Curr. Stipends	\$ 146,990	\$ -	\$ 146,990	\$ 93,880	\$ 8,668	\$ 44,442	\$ 44,442	\$ (0)
Security	\$ 16,630	\$ -	\$ 16,630	\$ 38,766	\$ 51,846	\$ (73,983)	\$ -	\$ (73,983)
Salaries, Miscellaneous	\$ 26,164	\$ -	\$ 26,164	\$ 20,185	\$ 8,584	\$ (2,605)	\$ -	\$ (2,605)
Sub-Total Non-Certified Salaries	\$ 2,573,035	\$ -	\$ 2,573,035	\$ 1,654,045	\$ 830,716	\$ 88,274	\$ 93,287	\$ (5,013)
Total Salaries	\$ 11,841,069	\$ (7,800)	\$ 11,833,269	\$ 6,778,900	\$ 4,800,757	\$ 253,612	\$ 93,287	\$ 160,325
FICA	\$ 443,000	\$ -	\$ 443,000	\$ 252,962	\$ -	\$ 190,038	\$ 190,038	\$ (0)
Medical Insurance	\$ 5,000	\$ -	\$ 5,000	\$ 1,337	\$ 1,411	\$ 2,252	\$ -	\$ 2,252
Life Insurance	\$ 21,000	\$ -	\$ 21,000	\$ 16,052	\$ 2,948	\$ 2,000	\$ -	\$ 2,000
Workers Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unemployment Compensation	\$ -	\$ -	\$ -	\$ 47,771	\$ -	\$ (47,771)	\$ -	\$ (47,771)
Other Employee Benefits	\$ (13,750)	\$ -	\$ (13,750)	\$ 42,881	\$ -	\$ (56,631)	\$ -	\$ (56,631)
Total Benefits	\$ 455,250	\$ -	\$ 455,250	\$ 361,003	\$ 4,359	\$ 89,888	\$ 190,038	\$ (100,150)

Derby Public Schools
Monthly Financial Report - February 2019

March 1, 2019

OBJECT & ACCOUNT DESCRIPTION	BUDGET 2018 - 2019	TRANSFERS 2018 - 2019	ADJ BUDGET 2018 - 2019	EXPENDITURES 2018 - 2019	ENCUMBERED 2018 - 2019	BALANCE 2018 - 2019	ESTIMATED ADJUSTMENTS	PROJECTED YEAR-END
Adult Education	\$ 110,000	\$ -	\$ 110,000	\$ 101,528	\$ -	\$ 8,472		\$ 8,472
Homebound/Tutors	\$ 25,858	\$ -	\$ 25,858	\$ 13,836	\$ 12,442	\$ (420)	\$ -	\$ (420)
Professional Development	\$ 4,000	\$ -	\$ 4,000	\$ (1,153)	\$ -	\$ 5,153	\$ -	\$ 5,153
Intern Program	\$ -	\$ 7,800	\$ 7,800	\$ 7,800	\$ -	\$ -	\$ -	\$ -
Pupil Services	\$ 182,956	\$ -	\$ 182,956	\$ 83,963	\$ 47,394	\$ 51,599	\$ 51,599	\$ 0
Audit/Legal Services	\$ 80,200	\$ -	\$ 80,200	\$ 34,925	\$ 37,075	\$ 8,200	\$ -	\$ 8,200
Other Purchased Services	\$ 241,000	\$ -	\$ 241,000	\$ 142,462	\$ 80,834	\$ 17,704	\$ -	\$ 17,704
School Physician	\$ 12,300	\$ -	\$ 12,300	\$ 4,400	\$ -	\$ 7,900	\$ -	\$ 7,900
Total Professional Services	\$ 656,314	\$ 7,800	\$ 664,114	\$ 387,761	\$ 177,745	\$ 98,608	\$ 51,599	\$ 47,009
Water, Electricity, Natural Gas	\$ 527,000	\$ -	\$ 527,000	\$ 313,741	\$ 220,623	\$ (7,363)	\$ -	\$ (7,363)
Repairs Instructional	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contracted Services Office	\$ 3,726	\$ -	\$ 3,726	\$ 2,207	\$ -	\$ 1,519	\$ -	\$ 1,519
Repairs Maintenance of Buildings	\$ 273,398	\$ -	\$ 273,398	\$ 224,231	\$ 9,479	\$ 39,688	\$ -	\$ 39,688
Lease/Rentals	\$ 79,000	\$ -	\$ 79,000	\$ 46,281	\$ 27,711	\$ 5,008	\$ -	\$ 5,008
Total Property Services	\$ 883,124	\$ -	\$ 883,124	\$ 586,460	\$ 257,812	\$ 38,852	\$ -	\$ 38,852
Pupil Transportation-Regular,504	\$ 722,526	\$ -	\$ 722,526	\$ 431,276	\$ 285,052	\$ 6,198	\$ -	\$ 6,198
Pupil Transportation - Spec. Educ.	\$ 518,387	\$ -	\$ 518,387	\$ 415,592	\$ 297,802	\$ (195,007)	\$ -	\$ (195,007)
Transportation-Fuel	\$ 75,000	\$ -	\$ 75,000	\$ 52,341	\$ 22,659	\$ -	\$ -	\$ -
Voc-Educ. Transportation	\$ 18,000	\$ -	\$ 18,000	\$ -	\$ -	\$ 18,000	\$ -	\$ 18,000
Athletic/Student Act. Transport.	\$ 67,789	\$ (3,767)	\$ 64,022	\$ 29,678	\$ 28,923	\$ 5,421	\$ -	\$ 5,421
Insurance-General Liability	\$ 7,500	\$ -	\$ 7,500	\$ 5,827	\$ -	\$ 1,673	\$ -	\$ 1,673
Communication Services	\$ 254,050	\$ -	\$ 254,050	\$ 123,239	\$ 114,229	\$ 16,582	\$ -	\$ 16,582
Advertising	\$ 1,000	\$ -	\$ 1,000	\$ 565	\$ -	\$ 435	\$ -	\$ 435
Tuition-Out of District Regular	\$ 168,000	\$ -	\$ 168,000	\$ 120,292	\$ -	\$ 47,708	\$ -	\$ 47,708
Tuition - Out of District SPED	\$ 2,284,812	\$ -	\$ 2,284,812	\$ 1,837,989	\$ 939,872	\$ (493,049)	\$ -	\$ (493,049)
Travel/Meetings	\$ 22,000	\$ -	\$ 22,000	\$ 13,782	\$ 4,500	\$ 3,718	\$ -	\$ 3,718
Total Other Purchased Services	\$ 4,139,064	\$ (3,767)	\$ 4,135,297	\$ 3,030,581	\$ 1,693,038	\$ (588,321)	\$ -	\$ (588,321)
Instructional/General Supplies	\$ 41,610	\$ 998	\$ 42,608	\$ 29,156	\$ 4,810	\$ 8,642		\$ 8,642
Interscholastic Athletics	\$ 97,247	\$ 5,269	\$ 102,516	\$ 55,140	\$ 19,479	\$ 27,897		\$ 27,897
Licensing/Software Maintenance	\$ 169,050	\$ -	\$ 169,050	\$ 84,398	\$ 24,950	\$ 59,703	\$ -	\$ 59,703
Office Supplies	\$ 15,325	\$ -	\$ 15,325	\$ 24,278	\$ 971	\$ (9,924)	\$ -	\$ (9,924)
Postage/Mailings	\$ 12,239	\$ -	\$ 12,239	\$ 4,646	\$ 840	\$ 6,753	\$ -	\$ 6,753
Custodial/Maintenance Supplies	\$ 132,935	\$ -	\$ 132,935	\$ 55,882	\$ 22,740	\$ 54,314	\$ -	\$ 54,314
School Health Supplies	\$ 6,425	\$ -	\$ 6,425	\$ 4,896	\$ 59	\$ 1,471	\$ -	\$ 1,471
Heating Oil	\$ 87,750	\$ -	\$ 87,750	\$ 10,008	\$ 77,742	\$ -	\$ -	\$ -
Textbooks	\$ 13,005	\$ (2,500)	\$ 10,505	\$ 1,464	\$ 10	\$ 9,031	\$ -	\$ 9,031
Library/AV Books and Supplies	\$ 3,200	\$ -	\$ 3,200	\$ (1,286)	\$ 455	\$ 4,031	\$ -	\$ 4,031
Total Supplies and Materials	\$ 578,785	\$ 3,767	\$ 582,552	\$ 268,580	\$ 152,055	\$ 161,918	\$ -	\$ 161,918

Derby Public Schools
Monthly Financial Report - February 2019

March 1, 2019

OBJECT & ACCOUNT DESCRIPTION	BUDGET 2018 - 2019	TRANSFERS 2018 - 2019	ADJ BUDGET 2018 - 2019	EXPENDITURES 2018 - 2019	ENCUMBERED 2018 - 2019	BALANCE 2018 - 2019	ESTIMATED ADJUSTMENTS	PROJECTED YEAR-END
New Equipment - Instructional	\$ 1,500	\$ -	\$ 1,500	\$ 795	\$ 412	\$ 293	\$ -	\$ 293
New Equipment - Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Replace Equipment - Instructional	\$ 1,650	\$ -	\$ 1,650	\$ 962	\$ 98	\$ 590	\$ -	\$ 590
Replace Equipment - Support	\$ 26,350	\$ -	\$ 26,350	\$ 12,181	\$ 1,930	\$ 12,239	\$ -	\$ 12,239
Security Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Equipment	\$ 29,500	\$ -	\$ 29,500	\$ 13,938	\$ 2,440	\$ 13,122	\$ -	\$ 13,122
Dues and Fees	\$ 33,500	\$ -	\$ 33,500	\$ 22,564	\$ 300	\$ 10,636	\$ -	\$ 10,636
Other Objects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Dues and Fees	\$ 33,500	\$ -	\$ 33,500	\$ 22,564	\$ 300	\$ 10,636	\$ -	\$ 10,636
TOTAL ADOPTED BUDGET	\$ 18,616,606	\$ -	\$ 18,616,606	\$ 11,449,786	\$ 7,088,506	\$ 78,314	\$ 334,924	\$ (256,610)
SSOs - E-Rate \$								\$ 73,983
Excess cost grant (prelim)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 481,149
City - unemployment/waiver	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90,652
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
TOTAL FINANCIAL REPORT	\$ 18,616,606	\$ -	\$ 18,616,606	\$ 11,449,786	\$ 7,088,506	\$ 78,314	\$ 334,924	\$ 389,173

Derby Public Schools
Monthly Financial Report - February 2019

March 1, 2019

GRANT DESCRIPTION	GRANT AWARD	GRANT CASH RECEIVED	EXPENDITURE	ENCUMBERED	AVAILABLE BALANCE	ESTIMATED ADJUSTMENT	YEAR END BALANCES
STATE OF CT GRANTS							
Adult Education	\$ 128,626	\$ 85,751	\$ 128,626	\$ -	\$ -	\$ -	\$ -
School Readiness	\$ 121,813	\$ 87,642	\$ 68,079	\$ 53,734	\$ -	\$ -	\$ -
Alliance	\$ 1,218,472	\$ 600,000	\$ 500,751	\$ 465,091	\$ 252,630	\$ -	\$ 252,630
Alliance C-0	\$ 79,775	\$ 79,775	\$ 70,189	\$ 11,375	\$ (1,788)	\$ -	\$ (1,788)
PSD	\$ 619,185	\$ 200,000	\$ 94,583	\$ 179,702	\$ 344,900	\$ 20,832	\$ 324,068
PSD C-O	\$ 236,442	\$ 236,442	\$ 233,732	\$ -	\$ 2,710	\$ -	\$ 2,710
Summer School	\$ 30,286	\$ -	\$ 188	\$ -	\$ 30,098	\$ -	\$ 30,098
Summer School C-O	\$ 8,421	\$ 8,421	\$ -	\$ -	\$ 8,421	\$ -	\$ 8,421
AD After School C-O	\$ 7,361	\$ 7,361	\$ -	\$ -	\$ 7,361	\$ -	\$ 7,361
PDG	\$ 491,531	\$ 360,000	\$ 280,806	\$ 192,472	\$ 18,254	\$ -	\$ 18,254
Smart Start	\$ 150,000	\$ 105,000	\$ 94,967	\$ 56,223	\$ (1,189)	\$ -	\$ (1,189)
Project ExeCEL	\$ 15,000	\$ 1,000	\$ 748	\$ 8	\$ 14,244	\$ -	\$ 14,244
Commissioner's Network	\$ 49,750	\$ 10,000	\$ -	\$ 24,000	\$ 25,750	\$ -	\$ 25,750
After School	\$ 14,804	\$ 5,000	\$ 1,544	\$ -	\$ 13,260	\$ -	\$ 13,260
In Service Training Competitive	\$ 3,881	\$ -	\$ -	\$ -	\$ 3,881	\$ -	\$ 3,881
FEDERAL GRANTS							
Title I Improving Basic Education	\$ 523,104	\$ 225,000	\$ 173,580	\$ 202,197	\$ 147,328	\$ -	\$ 147,328
Title I Improve Educ. C-O	\$ 69,745	\$ 69,745	\$ 71,395	\$ -	\$ (1,650)	\$ -	\$ (1,650)
Title I Improving Basic Education - 1003a	\$ 79,568	\$ 79,568	\$ 62,884	\$ 97,991	\$ (81,307)	\$ (24,980)	\$ (56,327)
Title I Improving Basic Education - 1003a	\$ 51,547	\$ 51,547	\$ 4,945	\$ -	\$ 46,603	\$ 24,980	\$ 21,623
Title I Improving Basic Education - 1003a	\$ 31,701	\$ 15,000	\$ -	\$ -	\$ 31,701	\$ -	\$ 31,701
Title II Part A Teachers	\$ 65,106	\$ -	\$ 1,920	\$ -	\$ 63,186	\$ -	\$ 63,186
Title II Part A Teachers C-O	\$ 1,727	\$ 1,727	\$ -	\$ -	\$ 1,727	\$ -	\$ 1,727
Title IV - Student Support & Enrichment	\$ -	\$ -	\$ 342	\$ -	\$ (342)	\$ -	\$ (342)
IDEA Part B - Section 611	\$ 351,244	\$ 200,000	\$ 118,003	\$ 109,389	\$ 123,853	\$ -	\$ 123,853
IDEA Part B - Section 611 C-O	\$ 34,696	\$ 34,696	\$ 32,727	\$ 1,836	\$ 133	\$ -	\$ 133
IDEA Pre School	\$ 15,104	\$ 11,000	\$ 23,079	\$ 12,856	\$ (20,832)	\$ (20,832)	\$ 0
National School Lunch Pgm Equip Assist	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	\$ -	\$ -	\$ -
Carl Perkins	\$ 26,607	\$ 18,000	\$ 12,258	\$ 302	\$ 14,047	\$ -	\$ 14,047
TOTAL FEDERAL/STATE GRANTS	\$ 4,440,497	\$ 2,507,675	\$ 1,990,344	\$ 1,407,175	\$ 1,042,978	\$ -	\$ 1,042,978

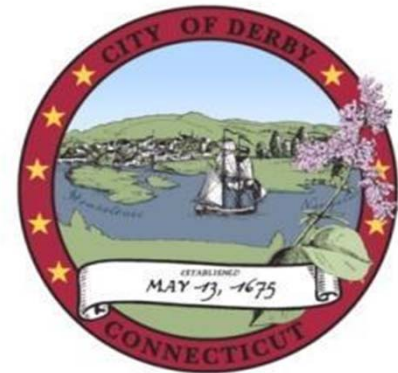
* Grants so-marked have not been awarded

Note: CO denotes carryover funding from the prior year

Derby Public Schools

FY20 Operating Budget

**Board of Education Meeting
March 21, 2019**



For Discussion Purposes Only

Topics

- FY20 “Superintendent’s” Budget
- Budget timeline
- General discussion



FY20 Budget



OBJECT SUMMARY

	BUDGET 2018 - 2019	BUDGET 2019 - 2020	CHANGE	% CHANGE
Central Administration	\$ 308,457	\$ 316,882	\$ 8,425	2.73%
School Principals/Directors	\$ 926,255	\$ 939,074	\$ 12,819	1.38%
Teachers - Regular	\$ 6,418,808	\$ 6,469,801	\$ 50,993	0.79%
Teachers Substitutes	\$ 75,600	\$ 75,600	\$ -	0.00%
Teachers - Special Education	\$ 746,006	\$ 747,292	\$ 1,286	0.17%
Pupil Services	\$ 729,179	\$ 747,467	\$ 18,288	2.51%
Library/Media	\$ 63,729	\$ 65,076	\$ 1,347	2.11%
Retirement	\$ -	\$ -	\$ -	
Sub-Total Certified Salaries	\$ 9,268,034	\$ 9,361,192	\$ - \$ 93,158	1.01%
Secretaries, Clerical	\$ 466,565	\$ 480,791	\$ 14,226	3.05%
Technology	\$ 96,479	\$ 96,164	\$ (315)	-0.33%
Custodians/Facilities	\$ 786,466	\$ 803,618	\$ 17,152	2.18%
Nurses	\$ 197,555	\$ 210,215	\$ 12,660	6.41%
Paraprofessionals	\$ 25,786	\$ 4,104	\$ (21,682)	-84.08%
Spec. Educ.Paraprofess/Tutors	\$ 810,400	\$ 856,866	\$ 46,466	5.73%
Coaching/Extra Curr. Stipends	\$ 146,990	\$ 154,998	\$ 8,008	5.45%
Security	\$ 16,630	\$ 17,046	\$ 416	2.50%
Salaries, Miscellaneous	\$ 26,164	\$ 35,740	\$ 9,576	36.60%
Sub-Total Non-Certified Salaries	\$ 2,573,035	\$ 2,659,542	\$ - \$ 86,508	3.36%
Total Salaries	\$ 11,841,069	\$ 12,020,734	\$ - \$ 179,666	1.52%
FICA	\$ 443,000	\$ 420,000	\$ (23,000)	-5.19%
Medical Insurance	\$ 5,000	\$ 5,000	\$ -	0.00%
Life Insurance	\$ 21,000	\$ 21,000	\$ -	0.00%
Workers Compensation	\$ -	\$ -	\$ -	
Unemployment Compensation	\$ -	\$ -	\$ -	
Other Employee Benefits	\$ (13,750)	\$ -	\$ 13,750	-100.00%
Total Benefits	\$ 455,250	\$ 446,000	\$ - \$ (9,250)	-2.03%

For Discussion Purposes Only

FY20 Budget



OBJECT SUMMARY (CONTINUED)

	BUDGET 2018 - 2019	BUDGET 2019 - 2020	CHANGE	% CHANGE
Adult Education	\$ 110,000	\$ 110,000	\$ -	0.00%
Homebound/Tutors	\$ 25,858	\$ 26,502	\$ 644	2.49%
Professional Development	\$ 4,000	\$ 3,000	\$ (1,000)	-25.00%
Intern Program	\$ -	\$ -	\$ -	
Pupil Services	\$ 182,956	\$ 199,650	\$ 16,694	9.12%
Audit/Legal Services	\$ 80,200	\$ 74,000	\$ (6,200)	-7.73%
Other Purchased Services	\$ 241,000	\$ 210,000	\$ (31,000)	-12.86%
School Physician	\$ 12,300	\$ 12,300	\$ -	0.00%
Total Professional Services	\$ 656,314	\$ 635,452	\$ - \$ (20,862)	-3.18%
Water,Electricity, Natural Gas	\$ 527,000	\$ 532,500	\$ 5,500	1.04%
Repairs Instructional	\$ -	\$ -	\$ -	
Contracted Services Office	\$ 3,726	\$ 4,140	\$ 414	11.11%
Repairs Maintenance of Buildings	\$ 273,398	\$ 303,775	\$ 30,378	11.11%
Lease/Rentals	\$ 79,000	\$ 79,000	\$ -	0.00%
Total Property Services	\$ 883,124	\$ 919,415	\$ - \$ 36,292	4.11%
Pupil Transportation-Regular,504	\$ 722,526	\$ 735,000	\$ 12,474	1.73%
Pupil Transportation - Spec. Educ.	\$ 518,387	\$ 569,062	\$ 50,675	9.78%
Transportation-Fuel	\$ 75,000	\$ 81,500	\$ 6,500	8.67%
Voc-Educ. Transportation	\$ 18,000	\$ 18,000	\$ -	0.00%
Athletic/Student Act. Transport.	\$ 67,789	\$ 71,192	\$ 3,403	5.02%
Insurance-General Liability	\$ 7,500	\$ 7,500	\$ -	0.00%
Communication Services	\$ 254,050	\$ 254,050	\$ -	0.00%
Advertising	\$ 1,000	\$ 1,000	\$ -	0.00%
Tuition-Out of District Regular	\$ 168,000	\$ 184,000	\$ 16,000	9.52%
Tuition - Out of District SPED	\$ 2,284,812	\$ 2,497,309	\$ 212,497	9.30%
Travel/Meetings	\$ 22,000	\$ 30,000	\$ 8,000	36.36%
Total Other Purchased Services	\$ 4,139,064	\$ 4,448,613	\$ - \$ 309,549	7.48%

FY20 Budget



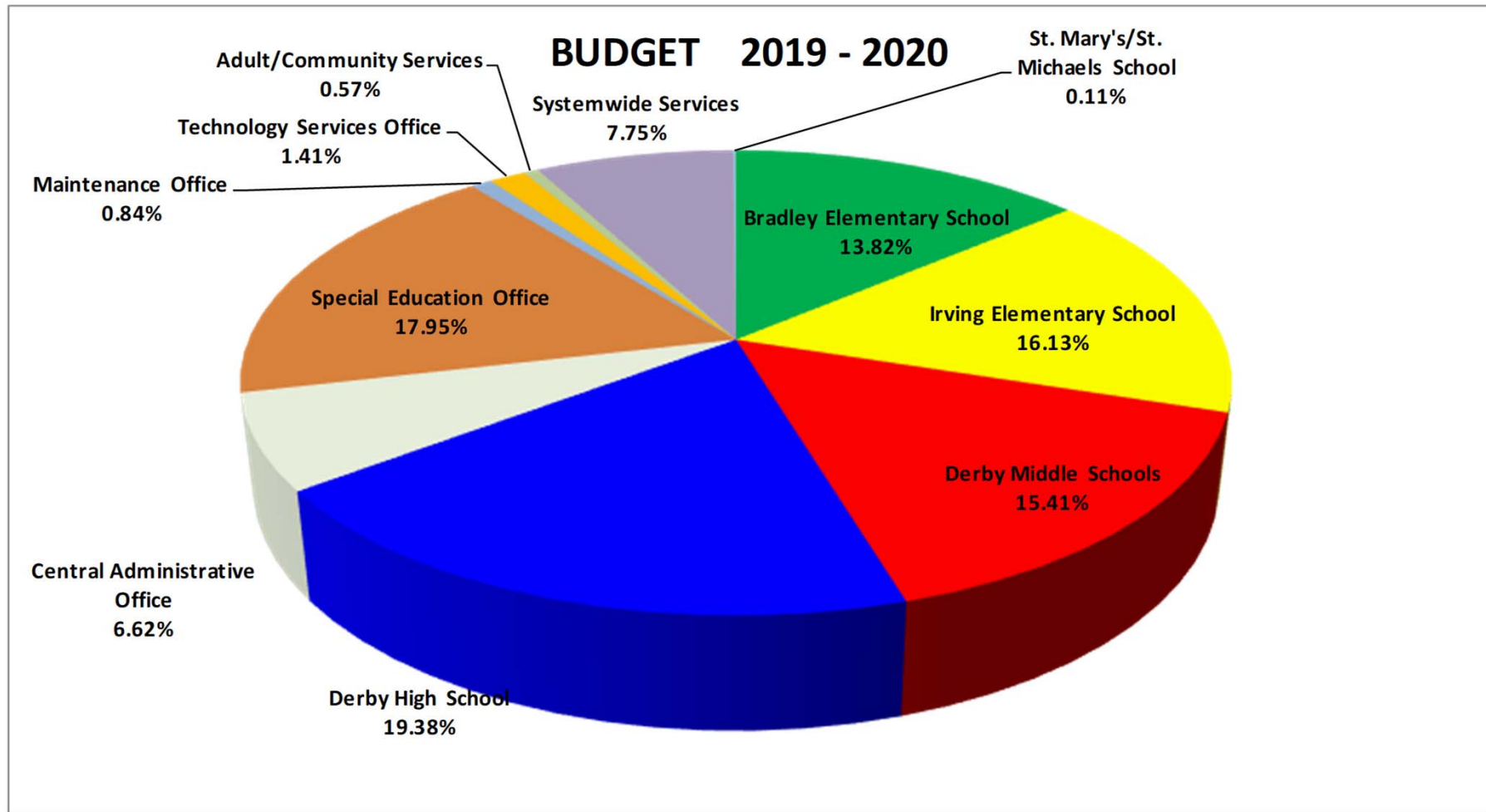
OBJECT SUMMARY (CONTINUED)

	BUDGET 2018 - 2019	BUDGET 2019 - 2020	CHANGE	% CHANGE
Instructional/General Supplies	\$ 41,610	\$ 42,991	\$ 1,381	3.32%
Interscholastic Athletics	\$ 97,247	\$ 123,217	\$ 25,971	26.71%
Licensing/Software Maintenance	\$ 169,050	\$ 169,050	\$ -	0.00%
Office Supplies	\$ 15,325	\$ 24,325	\$ 9,000	58.73%
Postage/Mailings	\$ 12,239	\$ 13,020	\$ 781	6.38%
Custodial/Maintenance Supplies	\$ 132,935	\$ 166,169	\$ 33,234	25.00%
School Health Supplies	\$ 6,425	\$ 6,425	\$ -	0.00%
Heating Oil	\$ 87,750	\$ 76,200	\$ (11,550)	-13.16%
Textbooks	\$ 13,005	\$ 8,005	\$ (5,000)	-38.45%
Library/AV Books and Supplies	\$ 3,200	\$ 3,200	\$ -	0.00%
Total Supplies and Materials	\$ 578,785	\$ 632,602	\$ - \$ 53,816	9.30%
New Equipment - Instructional	\$ 1,500	\$ 1,500	\$ -	0.00%
New Equipment - Support	\$ -	\$ -	\$ -	
Replace Equipment - Instructional	\$ 1,650	\$ 1,650	\$ -	0.00%
Replace Equipment - Support	\$ 26,350	\$ 26,350	\$ -	0.00%
Security Enhancements	\$ -	\$ -	\$ -	
Total Equipment	\$ 29,500	\$ 29,500	\$ - \$ -	0.00%
Dues and Fees	\$ 33,500	\$ 39,500	\$ 6,000	17.91%
Other Objects	\$ -	\$ -	\$ -	
Total Dues and Fees	\$ 33,500	\$ 39,500	\$ - \$ 6,000	17.91%
TOTAL BUDGET	\$ 18,616,606	\$ 19,171,816	\$ - \$ 555,210	2.98%

For Discussion Purposes Only



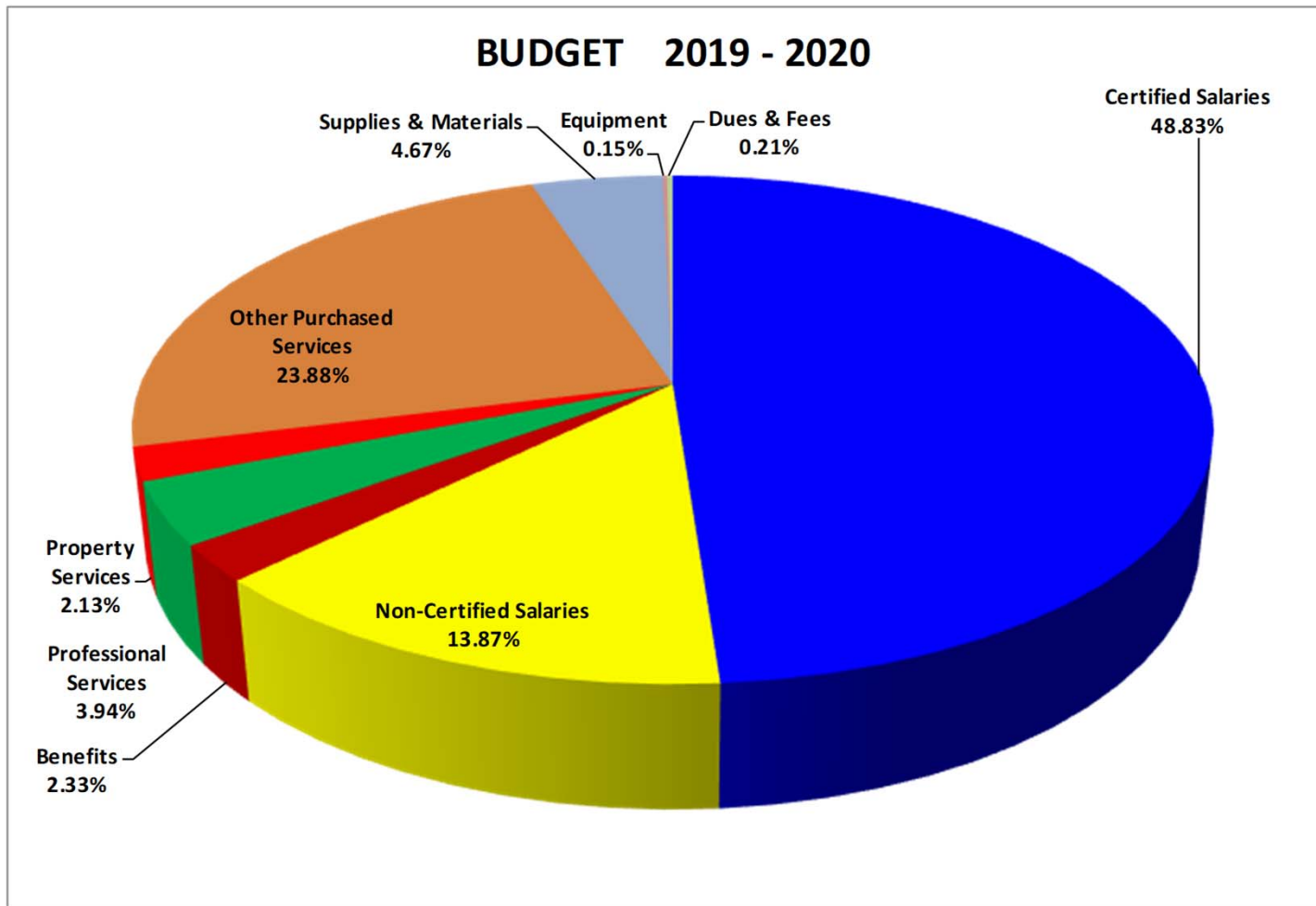
FY20 Budget - Location



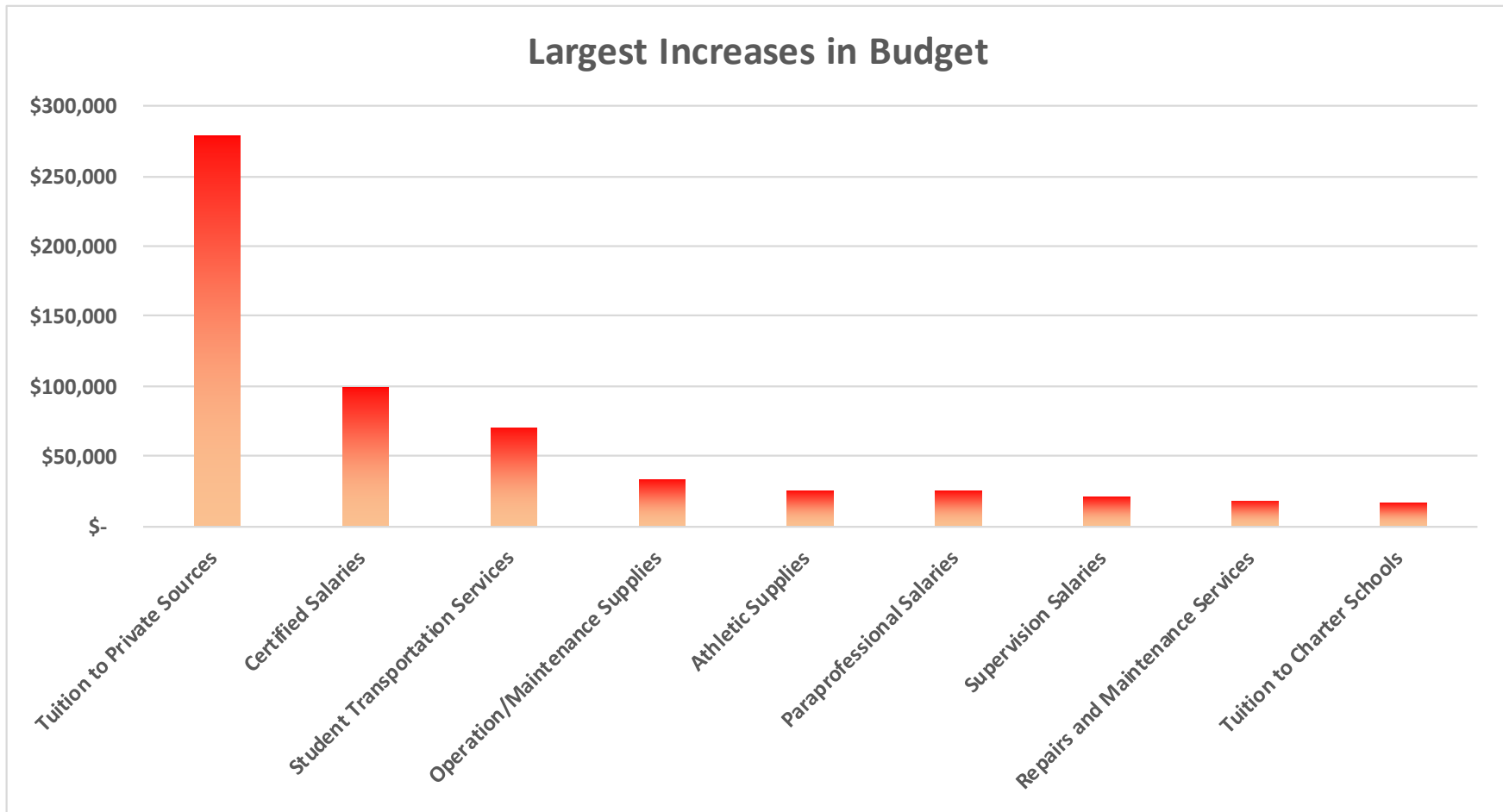
For Discussion Purposes Only



FY20 Budget - Object



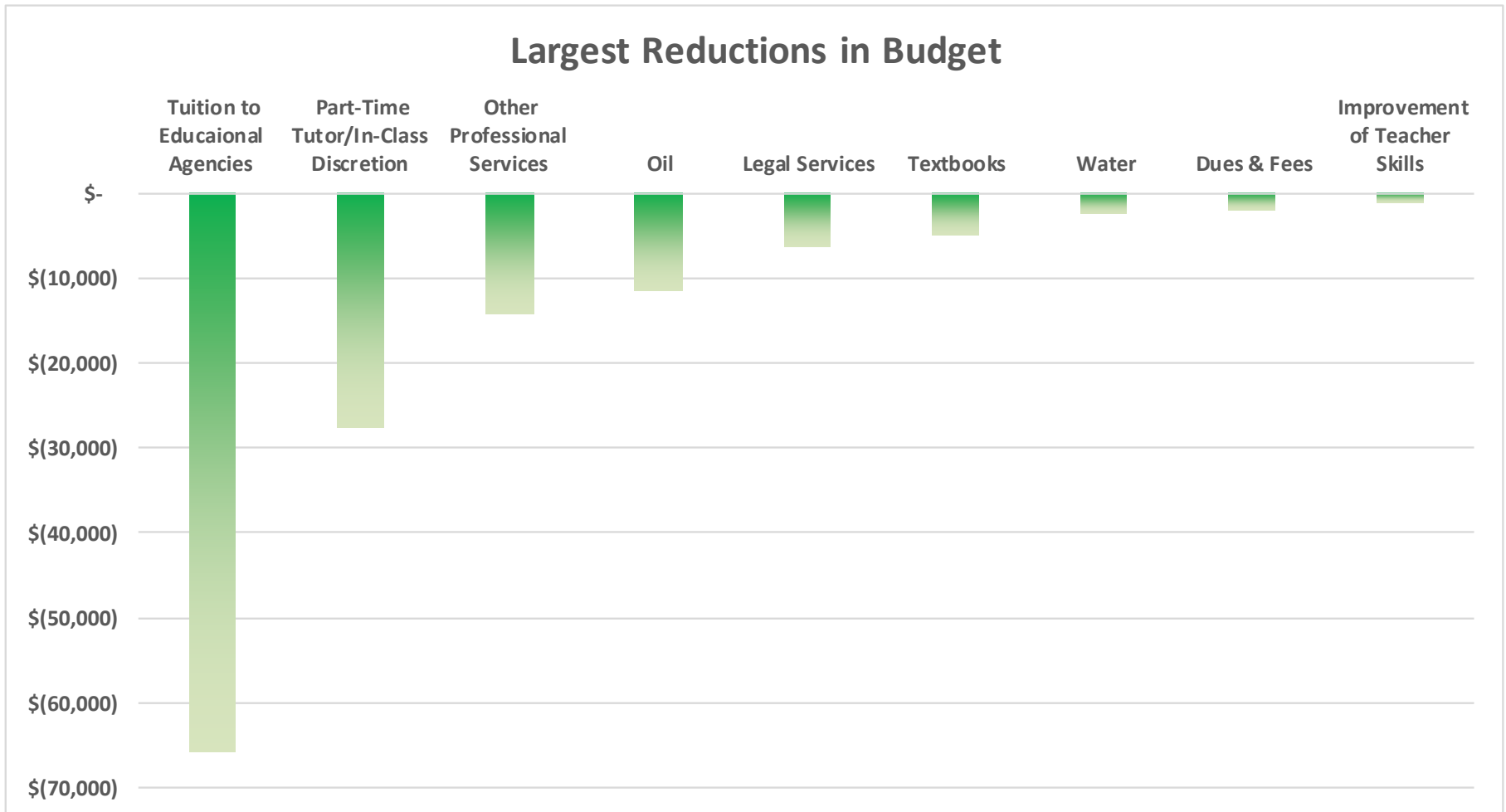
FY20 Budget



FY20 Budget



Largest Reductions in Budget



For Discussion Purposes Only

FY20 Budget



Staffing Analysis

Staffing Additions:

1.0 Paraprofessional (1:1), Irving

-To provide aide to one (1) assigned student

Staffing Eliminations:

1.0 Reading Tutor, Irving

- Open position



SPED Cost Summary: FY17-FY19

<u>COST CATEGORY</u>	<u>Actuals</u>		<u>Estimated</u>
	<u>FY16-17</u>	<u>FY17-18</u>	<u>FY18-19</u>
Teachers	\$ 2,153	\$ 2,368	\$ 2,427
Purchased Services	\$ 140	\$ 284	\$ 293
SPED Tuition	\$ 1,771	\$ 2,242	\$ 2,766
Supplies, Property Serv, Equipment	\$ 15	\$ 14	\$ 14
SPED Transportation (out of district)	\$ 517	\$ 516	\$ 634
Total ED001 reported (less benefits)	\$ 4,596	\$ 5,424	\$ 6,134
% increase fm PY	9.3%	18.0%	13.1%



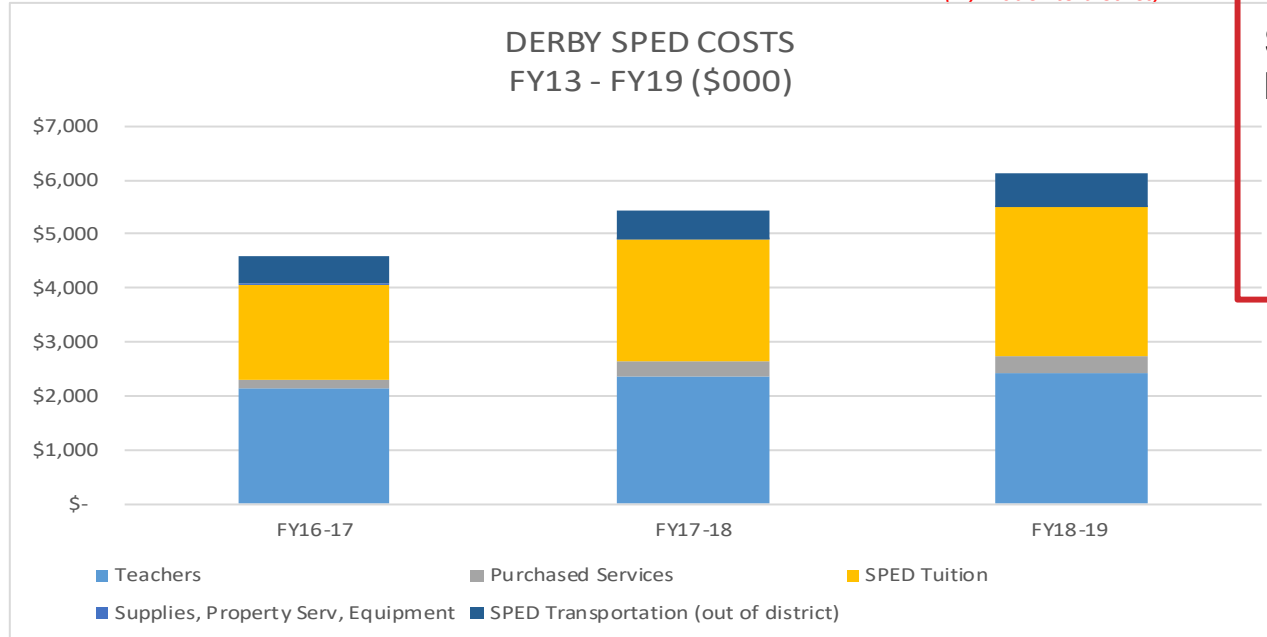
SPED students - out of district

23

30

37

(w/2 back to district)



Discussion Point:

Request City add \$240K "contingency budget" for three (3) additional outplacements based on PY experience?



ECS/City Funding

	<u>FY19</u> <u>w/FINAL ECS</u>	<u>FY20</u> <u>w/Gov Proposed</u>	<u>% inc</u> <u>Notes</u>
Local Education Funding	\$ 11,750,917	\$ 11,750,917	0.0%
State ECS Funding (less AD Grant)	\$ 6,865,689	\$ 6,865,689	0.0% Assume ECS "flat"
Total Funding - Operating Budget	\$ 18,616,606	\$ 18,616,606	
BoE Budget Request =	\$ 18,980,321	\$ 19,171,816	1.0%
Delta \$ to City =	\$ (363,715)	\$ (555,210)	
Delta % to City =	3.10%	4.72%	
Proposed budget change	3.21%	2.98%	
Actual Budget Change	1.23%		



Budget Timeline

Initial Finance Committee meeting	11/26/18
Initial FY20 budget discussion with BoE	12/13/17
Initial meeting with administrators	12/17-21
Finance Committee meeting	1/14/19
Initial budgets out to administrators	1/23
Administrator budget reviews	Week of 1/28
Finance committee meeting	2/4
Final draft budget prep	2/12-22
Finance committee meeting	2/20 (not required)
Proposed budget presented to BOE	3/5
Final budget iterations	3/6-12
Finance committee meeting	3/13
Budget presented to BOE; vote	3/21
BOE budget to City Hall	4/1

General Discussion



PROPOSAL

DATE: March 12, 2019

PREPARED FOR

Derby Public Schools (CT)

Dr. Matthew Conway

Superintendent of Schools

FROM

Vydmedia (D,B.A. Open Mic On Education)

Alan Rudt

arudt@openmiconeducation.org

(917) 881-7202

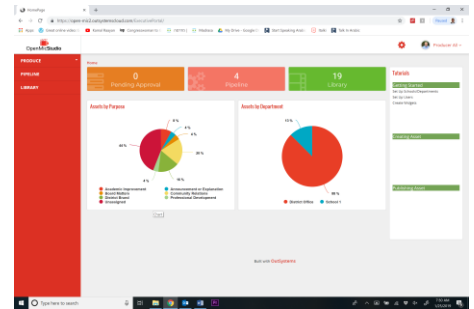
OPEN MIC PROPOSAL FOR DERBY (CT)

Research shows that meaningful communication is *the* essential ingredient for parents and community involvement with schools. When involvement is high, test scores climb, remediation rates dip, graduation rates improve, volunteerism increases. Parents are more supportive of district initiatives when everyone understands and values their role in making the school district successful. In particular, video has been shown to be most effective in building pride for district accomplishments and cultivating a sense of ownership within the community for the challenges they face.

Open Mic's **Video Creation Studio** offers school districts an end-to-end solution for producing professional, high-impact District and School videos. Subscribers can:

PIPELINE – Users initiate the creation of a custom video and manage every stage of the production process... video shoots, media collection, post-production editing, final review, raw video storage... it's all here!

LIBRARY – retrieve videos from *Media Library*, a powerful content management systems. Easily publish website-embedded widgets and to social connections with a few simple clicks.



Other key features of **Studio**:

- district-level oversight/permission system for school-level video creation
- manage community-contributed content
- professional quality editing, motion graphics, color- and audio-correction
- cost per video is less than one-tenth that of video production vendors

DELIVERABLES

1. Full production services for 6 videos over 12-month period
2. Open Mic **Studio**
 - 2 User accounts
 - 2 Website Widgets
 - Professional development, Tech Support
3. Dedicated Vimeo 'Plus' account for video HD video delivery
4. Long-term storage of all raw footage (FERPA compliance)

COST PROPOSAL

Open Mic at Derby Public Schools (CT)

Item	Description	Cost
1	6 Video Segments	\$3,000
2	In-District Video Shoots, as needed	\$200 ea.
3	Open Mic Studio <ul style="list-style-type: none">• 2 User accounts• 2 Website Widgets• Professional Development• Tech Support	incl.

Terms

- Payable after delivery of services
- Non-binding; both parties may cancel at any time
- Proposal is valid through April 15, 2019

VIDEO PRODUCTION AGREEMENT

Vydmedia D.B.A. Open Mic On Education (“OPEN MIC”) agrees to provide Derby Public Schools, Connecticut (“DERBY”) with video production, storage, retrieval-on-demand, and publishing services.

OWNERSHIP OF VIDEO

OPEN MIC acknowledges and agrees that video produced for DERBY and/or its member districts belongs to and shall be the sole and exclusive property of DERBY or the member district for whom it was produced. OPEN MIC reserves the right to showcase DERBY and member district videos within its portals (“Open Mic Studio” and “Open Mic Gallery”) and, on occasion, for marketing purposes on its public website, www.OpenMicOnEducation.org. If OPEN MIC wishes to utilize DERBY or member district videos for any other purpose other than these limited cases, it must obtain explicit written permission from DERBY or the member districts to do so.

OPEN MIC agrees to perform appropriate actions to secure DERBY and member district ownership of its videos, which includes providing access to all videos by authorized DERBY or member district personnel, backup and disaster recovery, privacy safeguards, and the eventual transfer of the entire video library at owner’s request. Included within ‘privacy safeguards’ is OPEN MIC’s obligation to ensure that only video intentionally published by video owner is accessible by the public, and that all ‘raw’ video and video not yet published is not accessible to the general public, either on Vimeo or any other cloud-based service or platform utilized by OPEN MIC.

DERBY and member district ownership of video extends to all ‘raw’ video ingested by OPEN MIC for the production of finished videos. Raw video will be saved for a period of seven (7) years as required by the Family Educational Rights and Privacy Act (FERPA). OPEN MIC will transfer ‘raw’ video to DERBY or member districts upon request.

WARRANTY

OPEN MIC warrants that videos produced for DERBY or its member districts do not infringe any copyright, violate any property rights, or contain any scandalous, libelous, or unlawful matter.

COST

DERBY shall pay OPEN MIC the sum of \$3,000 for the production of six (6) videos, and an additional \$200 for each on-site video shoot, to be procured at the discretion of DERBY and subject to OPEN MIC’s availability. Videos must be completed within a year on commencement of first video. On-site video shoots OPEN MIC is responsible for all expenses incurred for video production services; DERBY is not responsible for any additional costs unless explicitly agreed upon in writing.

For Vydmedia (D.B.A. “OPEN MIC”)

Alan Rudt

For DERBY PUBLIC SCHOOLS (CT)

3/7/2019

DERBY PUBLIC SCHOOLS

School Trip Proposal / Request Form

Travel / Study Approval for Out of State and or Overnight Trips

School: Bradley Principal: Mario Ciccarini
 Date(s) of Trip: 5/15-17/2019 Trip Organizer(s): Mario Ciccarini
 Destination of Trip: Nature's Classroom - Lakeside, CT
 Grade level of student participants: 5 No. of Students: 55

Educational Objectives including related classroom activities prior to / following the trip:

Science (NGSS) themed activities (Life, Earth, Physical)
Team-Building activities w/ students
from both elementary schools.

Funding Source(s): Alliance Grant; PTA; Student activities fund;
parents + guardians
 Complete if students are paying for all or part of the trip.

Total fees required from each student: Transportation Cost: \$430 Event Fee: \$295 pp

Meals — Lodging: —

Source(s) of funds for students who qualify for fee waiver: Alliance +
Student activities

Cost of Nurse (if applicable): — Funding source: — [] No students are identified with health concerns

Name of travel agent (if applicable): N/A

Name of transportation service vendor: All-Star Transportation

No. of buses required: 1 Cost per bus: \$430

Date / Time of trip: Departing Derby: 5/15/19 Returning to Derby: 5/17/19
10 A.M. 1:30 P.M.

Number of chaperones on trip: 5 staff per day + NC counselors (8-10)

Completed forms should be submitted to the principal who, if the trip is approved, will forward this to the Superintendent of Schools and Board of Education for final approval.

Include the information below when submitting this approval form. (Place a check mark by each item indicating its inclusion in the approval packet.)

Information outlining parental financial responsibility should there be an emergency cancellation

Parent / Guardian letter explaining the trip and travel itinerary

Parent / Guardian Permission and Acknowledgment of Risk for Student Travel Form

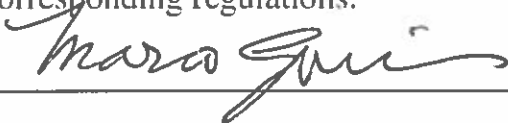
Emergency Plan (Includes arrangements for medical needs, parent / guardian contact information, access to communication devices, and procedures for general potential emergency situations)

List of Chaperone Names and Phone Numbers with MPS employees noted

Telephone Tree in the event of an emergency

Be sure the school administrator has a list of those students participating in the activity and a copy of the emergency contact numbers.

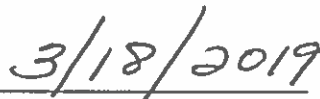
I / We certify that this trip proposal is in accordance with Derby Public Schools policies and corresponding regulations:



Signature, Trip Organizer(s)

Trip approved


Signature, Principal / Assistant Principal



Date

Signature, Superintendent or Designee

Date

Trip Denied

Reason: _____

Signature, Superintendent or Designee

Date

Out-of State / Overnight Trips Checklist

- Obtained approval at least three (3) weeks prior to the trip.
- Submitted list of participating students submitted to Principal and Health Office at least two (2) weeks prior to the trip.
- Submitted an updated list of participating students to Principal and Health Office on day of trip (No students should be added to the original list on the day of the trip.)
- Arranged substitute teacher with the Principal / designee if needed
- Arranged instructional and supervisory assignments for students not participating
- Arranged appropriate number of chaperones and provided orientation
- Clearly explained expectations of students
- Received parent permission forms and emergency medical forms
- No students are identified with health concerns

Teacher Directions: After your School Trip Proposal / Request Form has been approved, you are required to complete this form, and send it home to parents. Only those students whose parents have signed and returned the form to you will be permitted to go on the school trip. You should follow these directions: 1) Use one form per trip; 2) complete the school portion (top half) of form; 3) duplicate one form per student; and 4) send a copy home for parent and student signatures.

Revised: March 2018



Bradley Elementary School

155 David Humphreys Road • Derby, CT 06418-2250
Mr. Mario Ciccarini, Principal
Phone: (203) 736-5040 • www.derbyps.org/Bradley

Email: MCiccarini@derbyps.org

Please read this form, and, if you give your child permission to attend the school trip, sign and return it to your child's teacher.

Date of Trip: 5/15,16,17/2019 Trip Organizer(s): Mario Ciccarini

Destination of Trip: Nature's Classroom Lakeside, 190 Kenyon Rd., Lakeside CT 06758

Educational Objectives: Science-related themes and activities;
Team-building; Join both elementary schools prior to M.S.

Supervision:

- Students will be directly supervised by adults at all times.
 - Students will be directly supervised by adults with the following exceptions:
 - A School Nurse will be present on this school trip. -provided by Nature's Classroom
- Transportation Provided: School Bus Charter Bus Personal Vehicle Leased Vehicle

Related Risks: Swimming Pool Amusement / Theme Park Beach or Ocean Other None
Out in nature; insects; allergies

Student Agreement:

Student Name: _____ Grade: _____

While participating on this school trip, I will accept responsibility for maintaining conduct in accordance with the Bradley School Code of Conduct and I will follow directions of the school trip organizers / chaperones at all times.

Student Signature: _____ Date: _____

Parent / Guardian Permission:

I have read and understand the attached description of the school trip. I also understand that participation in the school trip will involve activities of school property; therefore, neither the Board of Education nor its employees and volunteers will have any responsibility for the condition or use of any non-school property.

I give permission for _____ to participate in all aspects of this school trip.

Parent / Guardian Signature: _____ Date: _____

Parent Contact Number: _____

At Bradley School we leave our P.A.W.S. on everything we do. We Persevere, Act Responsibly, Work and Play Safely, and Show Respect. These are the characteristics that define who we are and will help us become positive role models in our school and community.

Nature's Classroom Chaperones:

Master schedule will be determined closer to the date of the field trip

Mario Ciccarini [REDACTED]

Allison Hill [REDACTED]

Cindy Klabonski [REDACTED]

Lindsay Koreiwo [REDACTED]

Ronald Swierbitowicz [REDACTED]

Cheryl Shea [REDACTED]

Amy Tancreti [REDACTED]

Karen Marrone [REDACTED]

Drew Conlon [REDACTED]



Bradley Elementary School

155 David Humphreys Road • Derby, CT 06418-2250

Mr. Mario Ciccarini, Principal

Phone: (203) 736-5040 • www.derbyps.org/Bradley

Email: MCiccarini@derbyps.org

March 25, 2019

Nature's Classroom Field Trip

Dear Grade 5 Parent/Guardian,

We are very excited that the Board of Education has once again approved our field trip to Nature's Classroom in Lakeside, CT for May 15-17, 2019.

This packet includes all the forms that need to be completed prior to the trip. They include:

- Permission Form – completed by student and guardian
- Nature's Classroom student registration
- Home and Health Questionnaire
- Medication Administration Form

The cost of the Nature's Classroom trip is normally \$295 per student + transportation. Our school district has already paid the deposit for all students. The cost will be lowered further through some of our own fundraising we have been doing throughout the school year. **NO MONEY IS DUE RIGHT NOW.** In April a letter will be going home with students once we know how many students are attending. That letter will indicate a balance and due date.

If you would like your child to attend this year's trip please return the permission form and all other forms to the main office by Wednesday, April 10, 2019. **Again, we only need the forms back – no payment needed right now.**

If you have any questions please feel free to contact me at your earliest convenience.

Sincerely,

A handwritten signature in black ink that reads "Mario Ciccarini".

Mr. Ciccarini

At Bradley School we leave our P.A.W.S. on everything we do. We Persevere, Act Responsibly, Work and Play Safely, and Show Respect. These are the characteristics that define who we are and will help us become positive role models in our school and community.



Itinerary for Grade 5 Nature's Classroom Field Trip

Wednesday 5/15/2019:

- We are leaving Bradley School between 9:45 and 10:00 am.
- Students should leave their luggage/bags in the front hallway outside of the foyer.
- Parents/guardians have the option of sending students to school their normal way but depending on how many bags they have that may be challenging.
- We recommend dropping students off to school with their bags.
- If you decide to have your student stay with you in the morning they must be at Bradley no later than 9:30 am to allow for time to help load the bus.

- We should arrive at Lakeside around 11:00 am.
- We will unload the bags from the bus and follow the directions of the camp staff.
- Lunch will be served at noon.
- Dinner will be served at 5 pm.
- Lights out by 10 pm (subject to discretion of adult supervising cabin).

Thursday 5/16/2019:

- Breakfast at 8 am
- Lunch at 12 pm
- Dinner at 5 pm

Friday 5/17/2019:

- Breakfast at 8 am
- Lunch at 11:30 am
- Depart for Bradley School by 12:30 pm
- Arrive at Bradley School by 1:30 pm - students to go home with parent/designee pickups

If you have any questions please feel free to call the main office or email Mr. Ciccarini at mciccarini@derbyps.org

Nature's Classroom

at Lakeside, CT



DIRECTIONS

From I-84 in Waterbury, CT: Take exit 20 (Route 8) north towards Torrington. Take exit 38 (Route 6, Route 109). Bear left at the end of the ramp and go under the overpass. Turn left at the first light and follow signs for Route 6 and Route 109. In about 0.5 miles, at the stop sign, continue diagonally across the intersection onto Route 109. Black Rock School will be on your left. **Continue on Route 109 through East Morris stop sign to the stop sign in Morris (intersection of Route 61). Continue straight on Route 109 for 3 more miles. Pass a cemetery, lake, and go up a hill. At the top of the hill, turn left onto Kenyon Road (this is a tricky turn, look for the Episcopal Camp sign). Camp entrance is about 0.5 miles on the left.**

From southbound Route 8: Take exit 38 (Route 6, Route 109). Continue straight through the light onto Route 6 and Route 109. In about 0.5 miles veer right onto Route 109. Black Rock School will be on your left. Follow directions in bold above.



FEATURES

This property features eight recently renovated cabins sleeping 14 to 16 students each. Each cabin has a private adult room and an attached bathroom.

The property also contains about 400 acres of woodlands, a historic family cemetery, and rock walls dating back to the 1600s.

Clockwise from top left:

- Each cabin sleeps 14 to 16 students. Adults sleep in a private room in the cabin. Each cabin has its own bathroom with several sinks, toilet stalls and shower stalls.

- Students find a wide variety of creatures from yellow-spotted salamanders to crayfish. With such a densely rich property, there is a wealth of wildlife to find.

- Lucky students may have the chance to

find several species of reptile, including this ring-necked snake. They may also run across turtles, garter snakes, and deer tracks.

- Eight cabins ring the large field in front of the dining hall.

Lakeside, CT



DEAR PARENTS,

Your child will soon have an opportunity to participate in a residential outdoor school program. This letter attempts to answer some of the questions parents usually ask. Please feel free to ask us about any other concerns you may have about the program. Outdoor environmental education uses the out-of-doors for learning experiences that cannot easily take place in the classroom. Students and teachers learning outdoor awareness in this extended classroom can use the experience to help in their understanding of the natural environment, their school subjects, and the way people live. The program includes activities such as examining life in lakes and swamps, investigating weather, Colonial and Native American skills, and confidence building group challenges. A variety of field walks, classes in all subjects, and evening activities insure an exciting, stimulating experience.

SUPERVISION AND STAFF: Students are supervised 24 hours a day. In addition to the classroom teachers and chaperones accompanying each visiting group, Nature's Classroom has a permanent staff residing on site consisting of a director, environmental teachers on 1:12 ratio, and a nurse, EMT or health staff person on call at all times.

HEALTH AND SAFETY: There is no requirement that students undergo a medical examination before attending Nature's Classroom. The program is physically intensive, however, and you may wish to consult your physician if there are any concerns that should be brought to the attention of the staff. Such guidance will assist them in planning the program of activities with the students. Please note any special health concerns on the Nature's Classroom medical forms. The forms **must** be completed before a student can attend. Health and safety are our most important objectives! A fully staffed and equipped hospital is less than 30 minutes away from all of our facilities. Every student is covered by insurance while attending the program.

CLOTHING AND EQUIPMENT: A clothing and equipment checklist is furnished. Particular care should be taken in supplying ample footwear and pants, as students frequently participate in activities in wet areas. Clothes should be chosen for comfort and durability, rather than style. Please add or delete items appropriate for the season (gloves, hats, parkas, etc.)

FOOD AND LODGING: Meals are prepared by a permanent cooking staff and are served family style. Special dietary needs should be noted on the medical forms. Students, visiting teachers, and chaperones are lodged in winterized dormitories and cabins. Parents are welcome to visit any of our Environmental Education Centers and to view the facilities; such visits, however, should be made before or after your child's experience, preferably midweek. The physical facilities are always open, so a weekend visit might be possible. You must call the site and make an appointment with the Program Coordinator before coming.

TELEPHONE: The telephone is **not** available for the students' use, and parents are asked not to call students **except in case of an emergency**. The Nature's Classroom telephone number is **860-567-8403**.

MAIL: Mail is most appreciated by students, but to be safe, allow **4 days** for delivery. Mail posted midweek may not reach Nature's Classroom until Friday after the group has left (please make sure there is a return address in case we need to send it back). Please include the name of both the student and the school to assist delivery. Mail should be sent to **Nature's Classroom, 190 Kenyon Rd, Lakeside, CT 06758**.

OVERVIEW OF NATURE'S CLASSROOM

Nature's Classroom offers a unique educational experience to students and their teachers. The goal of the program is to create an educational community that integrates social development, student-driven exploration and interdisciplinary study. Students are under adult supervision at all times both during the day and at night. Small student to teacher ratios are maintained to promote personal growth and provide individualized attention to each student. The Nature's Classroom staff is comprised of professional staff with a wide variety of academic backgrounds and interests. Nature's Classroom encourages students to cooperate as a community, strengthen their self-concept and gain an appreciation of curiosity and learning. Working closely with your student's classroom teachers, Nature's Classroom develops a program that dovetails with the classroom curriculum and reinforces key concepts.

A typical day at Nature's Classroom features a morning *Field Group*, afternoon *Special Interest Classes*, and a *Large Group Activity* in the evening.

Field Group is generally the first activity of the day. Students are assigned by their classroom teachers to a field group; each field group is assigned to a single Nature's Classroom teacher. During field group, a strong emphasis is placed on working and learning as a team. Each day with their field group, students have the opportunity to explore in natural surroundings while studying important ecological concepts and their connection to the world and its life support systems. Students are encouraged to use critical thinking skills and work together to investigate a wide variety of natural phenomena and relationships.

Special Interest Classes occur primarily in the afternoon. Students have an opportunity to choose classes from a wide range of interests and disciplines. Nature's Classroom prides itself in presenting hands-on classes that are planned in conjunction with your student's classroom teachers. Classes are selected to reinforce and build upon your school's curriculum and explore the relationships between various academic disciplines. In order to provide students with the maximum opportunity for discovery and growth, a new selection of classes are available each day.

Large Group Activities and evening programs are selected by the classroom teachers to best suit the needs and goals of the students. With subjects ranging from science to leadership, traditional living to theatre, and everything in between, large group activities are a great way to create shared experiences for all Nature's Classroom participants.

Breakfast, lunch and dinner are provided, as well as an evening snack at the close of each day. Meals provide an opportunity to interact with other members of the community and share personal triumphs and discoveries. The diversity of subject matter covered within field groups, classes and other activities encourages students and teachers alike to share their excitement and engage in meaningful conversation around the table. Medications and first aid are administered by an RN, EMT or other medical personnel who is always available. Lodging is dormitory styled.

Students return from Nature's Classroom with newfound interests, lasting memories, and a greater sense of independence. Relationships formed and strengthened among both students and their teachers carry over into the classroom and beyond. The real life experience, both social and academic, inspires an increased understanding and a deeper appreciation of community, education and curiosity. We look forward to providing your child with a unique opportunity to learn and play in a safe and supportive environment.

Sample Basic Schedule

First Day

- 11:00 Arrival & Settling In
- 12:00 Lunch
- Orientation
- Field Experience
- 4:00 Special Interest Classes
- 5:30 Dinner
- 7:00 Quest
- 9:00 Quiet Sing



Second Day

- 7:15 Rise and Shine!
- 8:00 Breakfast & Clean Up
- 9:30 Field Experience
- 12:00 Lunch
- Free Time
- 2:00 Special Interest Classes
- 4:00 Special Interest Classes
- 5:30 Dinner and Free Time
- 7:00 Night Experience
- 9:00 Quiet Sing

Third Day

- 7:30 Luggage Out
- 8:00 Breakfast
- Final Clean Up
- Field Experience
- Evaluation
- 12:00 Lunch
- Departure



Sample of Special Interest Programming

The curriculum for **Nature's Classroom** contains over 500 hands-on science, math, humanities, and social studies lesson plans with follow-up activities for use in the schoolroom as well as references for further investigation.

FIRST CLASS

- SC Double Bubble (Chemistry of Soap)
Just Plane Fun (Flight and Aerodynamics)
Incredible Edibles (Edible Plants)
- MA Geodome (Geodesic Dome Construction)
Get Lost (Map and Compass, Orienting)
- HM Feed Your Face (Natural Cosmetics)
- SS The Oil Game (Sharing a Limited Resource)

SECOND CLASS

- SC Go with the Flow (Heart and Blood)
Soccerball Dissection (Human Physiology)
Egg Drop (Package Design)
Go Fly a Kite (Wind, Atmosphere)
- MA Up and Away (Hot Air Balloons)
- HM On the Air (Radio Broadcast Writing)
- SS It's the Law (Criminal Justice)

THIRD CLASS

- SC Crystals (Chemistry)
Compost It (Biology)
Pollution Solution
Oh Rats! (Dissection)
- MA Speed Boats (Stream Power)
- HM Woods Words (Poetry)
- SS Egg Babies (Responsibility)



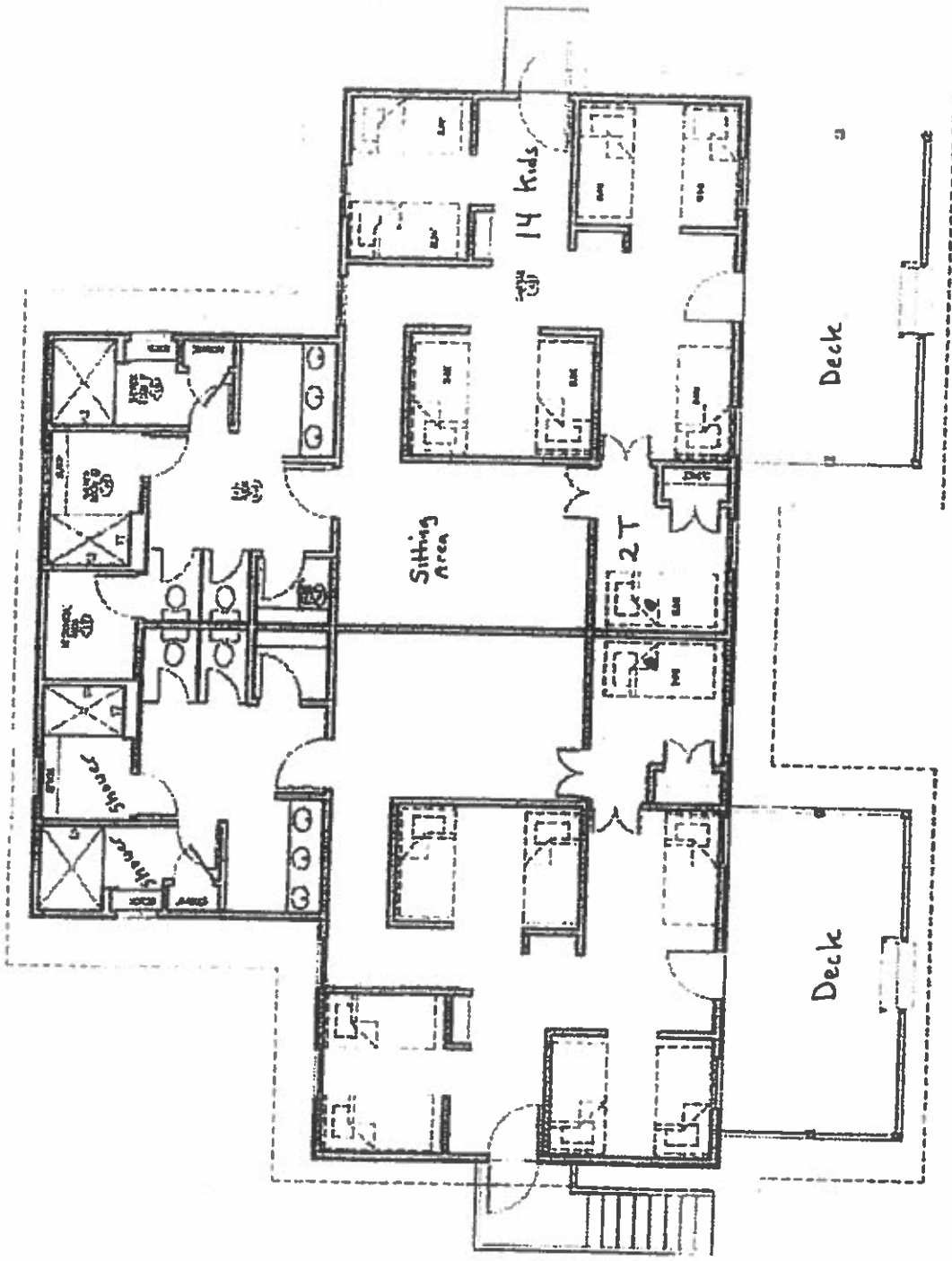
The preceding is a **SAMPLE** outline of courses for a group size requiring nine of our instructors. The specific courses offered vary with the time of year, location, current **Nature's Classroom** instructors, and goals the visiting school wishes to achieve.

SC: Science

MA: Math

HM: Humanities

SS: Social Studies



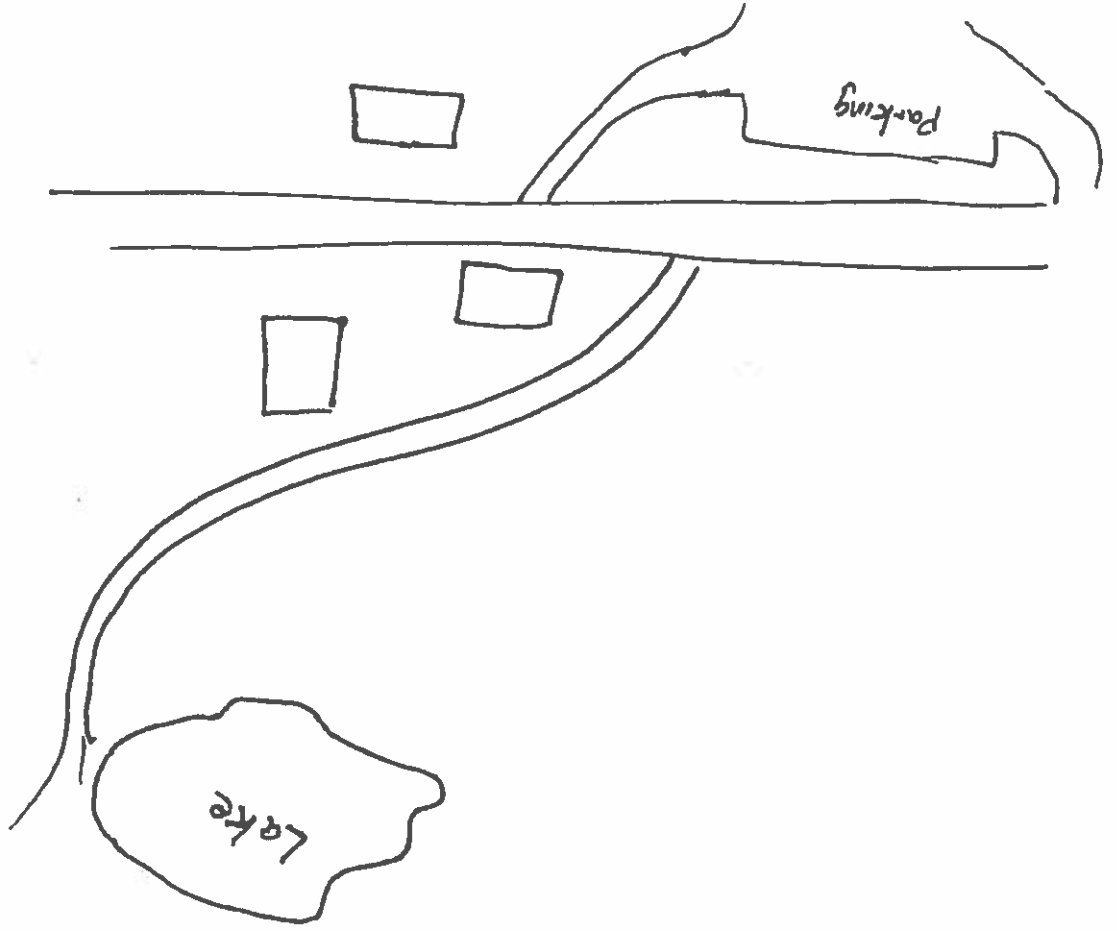
CABIN FLOOR PLAN

CABIN
 CAMP WASHINGTON
 MORRIS, CONNECTICUT

Nature's Classroom
Lakeside, CT

Fields & Forests

Sport Fields



Kenyon Hall
All Purpose

Basketball
&
Volleyball
area

D C CABIN
B A CABIN

F E CABIN

H G CABIN

Dining Hall

NC STAFF

[Unlabeled building]

[Unlabeled building]

[Unlabeled building]

NATURE'S CLASSROOM STUDENT REGISTRATION

Please print all information and please fill in all the blanks

Child's Name _____ Date of Birth _____
(Last) (First)

Age _____ Sex _____ Weight _____ Height _____

Address _____
(No. and Street) (Town) (State) (Zip)

Parent's Name(s) _____

Email Address _____

Home Telephone (____) _____ Alternate Telephone (____) _____

Family Physician _____ Telephone (____) _____

I give permission for (Name) _____ to attend Nature's Classroom

for the period of _____ as part of the outdoor education program

of (School Name) _____ . I understand that the director of Nature's Classroom may, if necessary, for my child's health, have him/her hospitalized or use outside medical, surgical, or dental care. I also understand that the director and/or school leaders may dismiss my child from Nature's Classroom if, in their opinions, his/her conduct or influence is not in the best interest of the entire group. No refund is given if such action is taken for discipline reasons. Nature's Classroom has my permission to use my child's image, voice and/or likeness for promotional purposes.

Date _____ Signature _____ Relationship _____

MEDICAL PERMISSION SLIP

Should your child become ill, get a headache, catch a cold or have other minor medical or dental problems, do you give permission for the administration of basic first aid at the discretions of the Nature's Classroom staff?

Yes _____ No _____

Date _____ Signature _____ Relationship _____

If Ibuprofen or Tylenol needs to be administered, do you prefer:

IBUPROFEN _____ TYLENOL _____ OTHER (Specify) _____

Nature's Classroom

HOME AND HEALTH INFORMATION QUESTIONNAIRE

Child's Name: _____ Date of Session: _____

The questions below are provided to give you a framework within which to provide that needed information to us. Please feel free to add whatever information you think will be helpful – attach additional sheets if necessary. We will share this information with your child's classroom teachers prior to his/her arrival at camp. Thank you for your cooperation.

1. Is this your child's first prolonged stay away from home? _____

2. Is this your child's first sleep away experience? _____

3. Has your child ever had a problem with homesickness? If yes, please explain briefly. _____

4. Does your child have a bed wetting problem? _____

5. Date of last tetanus booster shot (not a tetanus shot given after an injury). _____

6. Are there any restrictions on your child's activities? Please include any special health concerns, e.g., special diet, recent hospitalizations, fractured bones, etc.

7. List any allergies, e.g., food, environmental, medication, and explain degrees of severity and current treatment.

8. Does your child have any sensory, physical or cognitive disabilities? Yes No If yes, explain.

9. Has anything happened recently in your child's life that may affect him/her emotionally or physically while at camp? If yes, please explain.

10. Additional information:

Nature's Classroom

MEDICATION ADMINISTRATION FORM

All medications (including prescription, non-prescription and vitamins) must come in original containers.

Please complete *all parts* of the following chart for all medications being sent or the medication cannot be administered. If more than four medications are needed, please copy this page.

CHILD'S NAME: _____

I hereby give permission for the staff of Nature's Classroom to oversee the administration of the following medication(s) to my child:

Medication	Dose (mg, tsp)	Time Medication Taken				
		Breakfast	Lunch	Dinner	Bed	Other

Comments (reason for taking medications, special considerations): _____

Your child will not be allowed to keep any medication in his/her cabin. Prescribed medications must be in original container with pharmacy label containing Rx number, the name of the medication, the dosage, directions for administration, and the child's name. Whenever possible, a copy of the doctor's prescription or letter may be sent to clarify any discrepancies. All non-prescription medication must be in their original containers, clearly labeled with the child's name, name of the medication and direction for use.

Signed: _____ Dated: _____

Relationship: _____

SUGGESTED EQUIPMENT LIST FOR NATURE'S CLASSROOM

This list is for a three day program and dependent upon *seasonal weather*. Plan for everything!

---Water Bottle *** Super important!

---1 Sleeping bag or bedroll (sheets and blanket)

---1 Pillow and pillowcase

---2 Pairs of jeans/pants

---Multiple shirts (short and long sleeve)

---1 Sweatshirt/hoodie or sweater

---Pajamas

---1 Pair of slippers/flip-flops for cabin

---Shorts for cabin use only

---Many changes of underwear (for 3 days at least 4)

---Multiple pairs of socks (at least 2 per day)

---1 Warm jacket/coat

---Hat(s): warm hat and/or ball cap

---Gloves, scarf

---Shoes (2-3 Pairs): old sneakers, rain boots, well-broken-in hiking boots, etc.

---1 Raincoat or poncho

---Toiletries: soap (and container), shampoo, toothpaste, toothbrush, deodorant, towels, washcloths

---Laundry bag or extra pillow case

---Pre-addressed stamped envelopes or postcards, paper and pens, etc. for writing home

---Notebook(s) and writing utensils

---Sunscreen

---Insect repellent (no aerosols please)

---"Day pack" or backpack

---Camera: preferably disposable

---Flashlight (optional)

---Book for reading at night

---Deck of playing cards (optional)



DO NOT SEND:

- Electronics: cell phones, i-pods, MP3 players, portable gaming systems, kindles, nooks, tablets, etc.
- Pocket knife, candy/gum/food

***Please do NOT buy new clothes or shoes for your child to wear at Nature's Classroom. Send old clothes that you do not mind your child getting dirty during outdoor activities.

***Please make sure that every personal item (shoes, camera, socks, etc.) are clearly labeled with your child's name. Sharpie everything!

***If your child loses any items at Nature's Classroom, contact the Program Coordinator immediately. NATURE'S CLASSROOM TAKES NO RESPONSIBILITY FOR LOST ITEMS.

DERBY PUBLIC SCHOOLS

FIELD TRIP REQUEST FORM (IN STATE)

School: Irving School Principal: Aimee Misset
 Date(s) of Trip: 5/15 - 5/17 Trip Organizer(s): Jacqueline Nathman
 Destination of Trip: Nature's Classroom - Lakeside CT
 Grade level of student participants: 5 No. of Students: 59

Educational Objectives including related classroom activities prior to / following the trip:

Science (NBSS) themed activities (Life, Earth, Physical)
Team-Building activities w/ students from both
elementary schools

Funding Source(s): Alliance Grant, PTO, parents & guardians

Total fees required from each student: _____

Breakdown of Fees: Transportation Cost: \$430 Event Fee: \$295 pp Meals —

Cost of Nurse (if applicable): — [] No students are identified with health concerns.

*Name of transportation service vendor: All-Star No. of buses required: 1

Cost per bus: \$430

Date / Time of trip: Departing Derby: 5/15/19 Returning to Derby: 5/17/19

Number of chaperones on trip: 5 staff per day + NC Counselors
 (10 am - 1:30 pm)
 (K-10)

Include the information below when submitting this approval form.

(Place a check mark by each item indicating its inclusion in the approval packet.)

Parent / guardian letter explaining the trip and travel itinerary

Permission Slip

List of Chaperone Names and Phone Numbers

Be sure the school administrator has a list of those students participating in the activity and a copy of the emergency contact numbers.

In State Field Trip Request Form must be approved by:

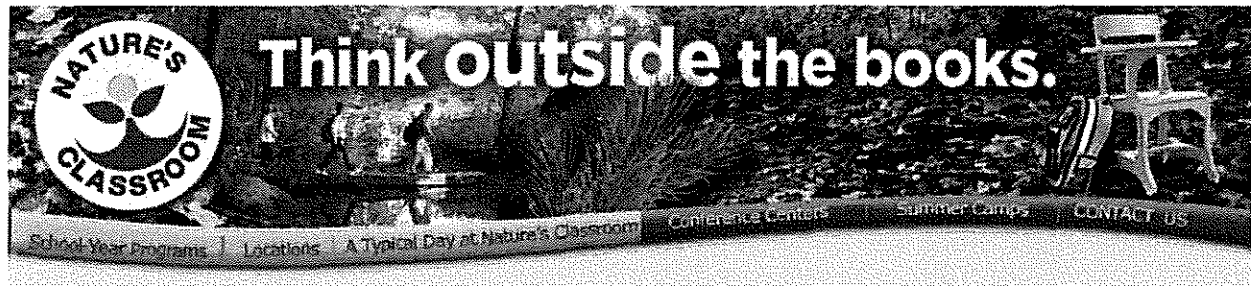
Principal: Recommendation for Approval AM Recommendation Trip Be Denied _____

Comments: _____

Superintendent: Trip Approved _____ Trip Denied _____

Comments: _____

Revised March 2018



Irving School is excited to be offering our fifth grade student an opportunity to learn outside of the classroom at the Lakeside CT location of Nature's Classroom. Nature's Classroom offers a unique educational experience to students and their teachers. The goal of Nature's Classroom is to create a living-learning community that integrates the social development of that community with academic experiences. Common goals that are woven throughout the experience are for the students to improve his/her self-concept; to work together with others for the positive benefit of all members of the community; to recognize that the community is comprised of individuals with their own individual needs; and to gain an understand of what education can offer him/her. Each Nature's Classroom program is developed in conjunction with the classroom teachers in order to create an experience that is connected to the school's curriculum and goals.

We have reserved May 15-17, 2019 for our visit to Nature's Classroom. We will be leaving Irving on Wednesday the 15th at approximately 10:00 a.m. and returning to Irving on Friday the 17th at approximately 1:30 p.m. The cost of the Nature's Classroom trip is normally \$287 per student + transportation. The school district has already put a substantial amount towards the trip and we have done some of our own fundraising. NO MONEY IS DUE RIGHT NOW. Permission slips and medical forms are due Friday, April 6th. Once we determine the number of students attending, we will send a final cost letter home with your child on Tuesday April 10th. That letter will indicate the cost of the trip which is due, May 9th. Last year the cost was \$194 per student, with some students paying much less as a result of fundraising such as, Cookie Dough Fundraiser or the Pasta Dinner.

If you have any questions, please feel free to call or email your child's classroom teacher.

Sincerely,

The Fifth Grade Team

Nature's Classroom Procedures

We are so excited for our upcoming trip to Nature's Classroom. Here is some important information about drop-off and pick-up procedures.

Drop-off:

- All students must be brought to school with their luggage packed (ie-no loose pillows) by 9:00 a.m on Wednesday, May 15th.
- All belongings must be labeled with the child's name.
- Any medication needs to be out and ready to be checked in (in a ziploc bag). As a reminder, it must be in its original box and have the child's name on it. It should also be listed on their medical form that we have already received. If it is additional, please let us know then.
- After your child has checked-in, we ask that all parents leave, so we can resume our day.

Pick-Up:

- We will be arriving back at Irving School on Friday, May 17th at 1:30 p.m.
- Parents are asked to pick their child up at this time. **Do not park in the bus lane. We need to be able to pull in with the students.**
- Weather pending, we will unpack and wait on the grassy area outside the gym.
- When you pick up your child please be sure to sign your child out (there will be a sheet outside) and pick up any medications you gave us.
- Please fill out and detach the bottom of this form, so we can easily dismiss your child on Friday. If there is an issue, please let your child's classroom teacher know.

I plan on picking up my child, _____ on Friday, May 18th at 1:30 p.m from Irving School.

Parent Signature _____

Chaperone Names	Contact #
Jacqueline Nathman	203-823-0223
Stacey Mullenax	203-954-7191
Stacey Wasilnak	203-214-0366
Nick Bartoli	570-704-6892
Elise Chambers	203-906-6731

Nature's Classroom

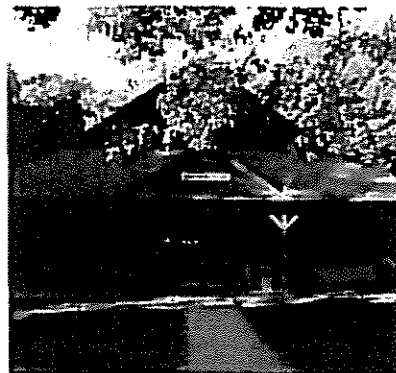
at Lakeside, CT



DIRECTIONS

From I-84 in Waterbury, CT: Take exit 20 (Route 8) north towards Torrington. Take exit 38 (Route 6, Route 109). Bear left at the end of the ramp and go under the overpass. Turn left at the first light and follow signs for Route 6 and Route 109. In about 0.5 miles, at the stop sign, continue diagonally across the intersection onto Route 109. Black Rock School will be on your left. Continue on Route 109 through East Morris stop sign to the stop sign in Morris (intersection of Route 61). Continue straight on Route 109 for 3 more miles. Pass a cemetery, lake, and go up a hill. At the top of the hill, turn left onto Kenyon Road (this is a tricky turn, look for the Episcopal Camp sign). Camp entrance is about 0.5 miles on the left.

From southbound Route 8: Take exit 38 (Route 6, Route 109). Continue straight through the light onto Route 6 and Route 109. In about 0.5 miles veer right onto Route 109. Black Rock School will be on your left. Follow directions in bold above.



FEATURES

This property features eight recently renovated cabins sleeping 14 to 16 students each. Each cabin has a private adult room and an attached bathroom.

The property also contains about 400 acres of woodlands, a historic family cemetery, and rock walls dating back to the 1600s.

Clockwise from top left:

- Each cabin sleeps 14 to 16 students. Adults sleep in a private room in the cabin. Each cabin has its own bathroom with several sinks, toilet stalls and shower stalls.

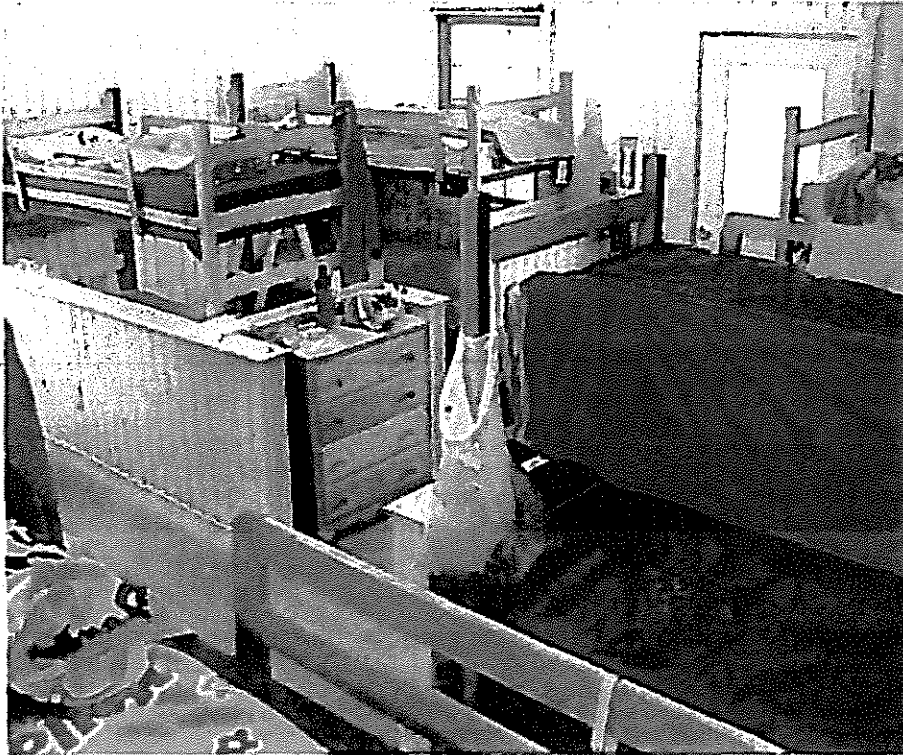
- Students find a wide variety of creatures from yellow-spotted salamanders to crayfish. With such a densely rich property, there is a wealth of wildlife to find.

- Lucky students may have the chance to

find several species of reptile, including this ring-necked snake. They may also run across turtles, garter snakes, and deer tracks.

- Eight cabins ring the large field in front of the dining hall.

Lakeside, CT



DEAR PARENTS,

Your child will soon have an opportunity to participate in a residential outdoor school program. This letter attempts to answer some of the questions parents usually ask. Please feel free to ask us about any other concerns you may have about the program. Outdoor environmental education uses the out-of-doors for learning experiences that cannot easily take place in the classroom. Students and teachers learning outdoor awareness in this extended classroom can use the experience to help in their understanding of the natural environment, their school subjects, and the way people live. The program includes activities such as examining life in lakes and swamps, investigating weather, Colonial and Native American skills, and confidence building group challenges. A variety of field walks, classes in all subjects, and evening activities insure an exciting, stimulating experience.

SUPERVISION AND STAFF: Students are supervised 24 hours a day. In addition to the classroom teachers and chaperones accompanying each visiting group, Nature's Classroom has a permanent staff residing on site consisting of a director, environmental teachers on 1:12 ratio, and a nurse, EMT or health staff person on call at all times.

HEALTH AND SAFETY: There is no requirement that students undergo a medical examination before attending Nature's Classroom. The program is physically intensive, however, and you may wish to consult your physician if there are any concerns that should be brought to the attention of the staff. Such guidance will assist them in planning the program of activities with the students. Please note any special health concerns on the Nature's Classroom medical forms. The forms must be completed before a student can attend. Health and safety are our most important objectives! A fully staffed and equipped hospital is less than 30 minutes away from all of our facilities. Every student is covered by insurance while attending the program.

CLOTHING AND EQUIPMENT: A clothing and equipment checklist is furnished. Particular care should be taken in supplying ample footwear and pants, as students frequently participate in activities in wet areas. Clothes should be chosen for comfort and durability, rather than style. Please add or delete items appropriate for the season (gloves, hats, parkas, etc.)

FOOD AND LODGING: Meals are prepared by a permanent cooking staff and are served family style. Special dietary needs should be noted on the medical forms. Students, visiting teachers, and chaperones are lodged in winterized dormitories and cabins. Parents are welcome to visit any of our Environmental Education Centers and to view the facilities; such visits, however, should be made before or after your child's experience, preferably midweek. The physical facilities are always open, so a weekend visit might be possible. You must call the site and make an appointment with the Program Coordinator before coming.

TELEPHONE: The telephone is **not** available for the students' use, and parents are asked not to call students **except in case of an emergency**. The Nature's Classroom telephone number is 860-567-8403.

MAIL: Mail is most appreciated by students, but to be safe, allow 4 days for delivery. Mail posted midweek may not reach Nature's Classroom until Friday after the group has left (please make sure there is a return address in case we need to send it back). Please include the name of both the student and the school to assist delivery. Mail should be sent to Nature's Classroom, 190 Kenyon Rd, Lakeside, CT 06758.

OVERVIEW OF NATURE'S CLASSROOM

Nature's Classroom offers a unique educational experience to students and their teachers. The goal of the program is to create an educational community that integrates social development, student-driven exploration and interdisciplinary study. Students are under adult supervision at all times both during the day and at night. Small student to teacher ratios are maintained to promote personal growth and provide individualized attention to each student. The Nature's Classroom staff is comprised of professional staff with a wide variety of academic backgrounds and interests. Nature's Classroom encourages students to cooperate as a community, strengthen their self-concept and gain an appreciation of curiosity and learning. Working closely with your student's classroom teachers, Nature's Classroom develops a program that dovetails with the classroom curriculum and reinforces key concepts.

A typical day at Nature's Classroom features a morning *Field Group*, afternoon *Special Interest Classes*, and a *Large Group Activity* in the evening.

Field Group is generally the first activity of the day. Students are assigned by their classroom teachers to a field group; each field group is assigned to a single Nature's Classroom teacher. During field group, a strong emphasis is placed on working and learning as a team. Each day with their field group, students have the opportunity to explore in natural surroundings while studying important ecological concepts and their connection to the world and its life support systems. Students are encouraged to use critical thinking skills and work together to investigate a wide variety of natural phenomena and relationships.

Special Interest Classes occur primarily in the afternoon. Students have an opportunity to choose classes from a wide range of interests and disciplines. Nature's Classroom prides itself in presenting hands-on classes that are planned in conjunction with your student's classroom teachers. Classes are selected to reinforce and build upon your school's curriculum and explore the relationships between various academic disciplines. In order to provide students with the maximum opportunity for discovery and growth, a new selection of classes are available each day.

Large Group Activities and evening programs are selected by the classroom teachers to best suit the needs and goals of the students. With subjects ranging from science to leadership, traditional living to theatre, and everything in between, large group activities are a great way to create shared experiences for all Nature's Classroom participants.

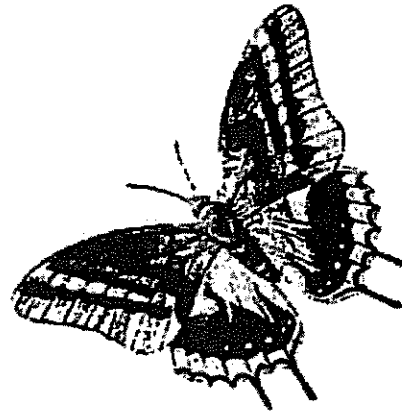
Breakfast, lunch and dinner are provided, as well as an evening snack at the close of each day. Meals provide an opportunity to interact with other members of the community and share personal triumphs and discoveries. The diversity of subject matter covered within field groups, classes and other activities encourages students and teachers alike to share their excitement and engage in meaningful conversation around the table. Medications and first aid are administered by an RN, EMT or other medical personnel who is always available. Lodging is dormitory styled.

Students return from Nature's Classroom with newfound interests, lasting memories, and a greater sense of independence. Relationships formed and strengthened among both students and their teachers carry over into the classroom and beyond. The real life experience, both social and academic, inspires an increased understanding and a deeper appreciation of community, education and curiosity. We look forward to providing your child with a unique opportunity to learn and play in a safe and supportive environment.

Sample Basic Schedule

First Day

- 11:00 Arrival & Settling In
- 12:00 Lunch
- Orientation
- Field Experience
- 4:00 Special Interest Classes
- 5:30 Dinner
- 7:00 Quest
- 9:00 Quiet Sing



Second Day

- 7:15 Rise and Shine!
- 8:00 Breakfast & Clean Up
- 9:30 Field Experience
- 12:00 Lunch
- Free Time
- 2:00 Special Interest Classes
- 4:00 Special Interest Classes
- 5:30 Dinner and Free Time
- 7:00 Night Experience
- 9:00 Quiet Sing

Third Day

- 7:30 Luggage Out
- 8:00 Breakfast
- Final Clean Up
- Field Experience
- Evaluation
- 12:00 Lunch
- Departure



Sample of Special Interest Programming

The curriculum for **Nature's Classroom** contains over 500 hands-on science, math, humanities, and social studies lesson plans with follow-up activities for use in the schoolroom as well as references for further investigation.

FIRST CLASS

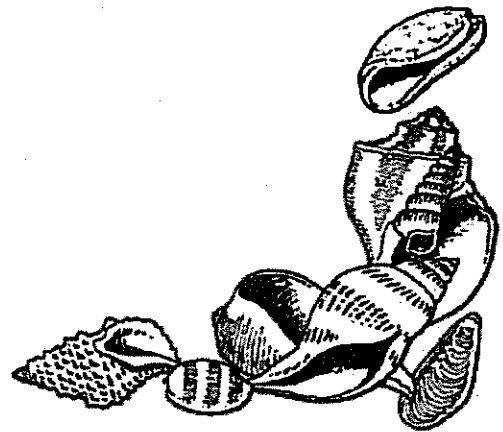
- SC Double Bubble (Chemistry of Soap)
Just Plane Fun (Flight and Aerodynamics)
Incredible Edibles (Edible Plants)
 - MA Geodome (Geodesic Dome Construction)
Get Lost (Map and Compass, Orienting)
 - HM Feed Your Face (Natural Cosmetics)
 - SS The Oil Game (Sharing a Limited Resource)
-

SECOND CLASS

- SC Go with the Flow (Heart and Blood)
Soccerball Dissection (Human Physiology)
Egg Drop (Package Design)
Go Fly a Kite (Wind, Atmosphere)
- MA Up and Away (Hot Air Balloons)
- HM On the Air (Radio Broadcast Writing)
- SS It's the Law (Criminal Justice)

THIRD CLASS

- SC Crystals (Chemistry)
Compost It (Biology)
Pollution Solution
Oh Rats! (Dissection)
- MA Speed Boats (Stream Power)
- HM Woods Words (Poetry)
- SS Egg Babies (Responsibility)



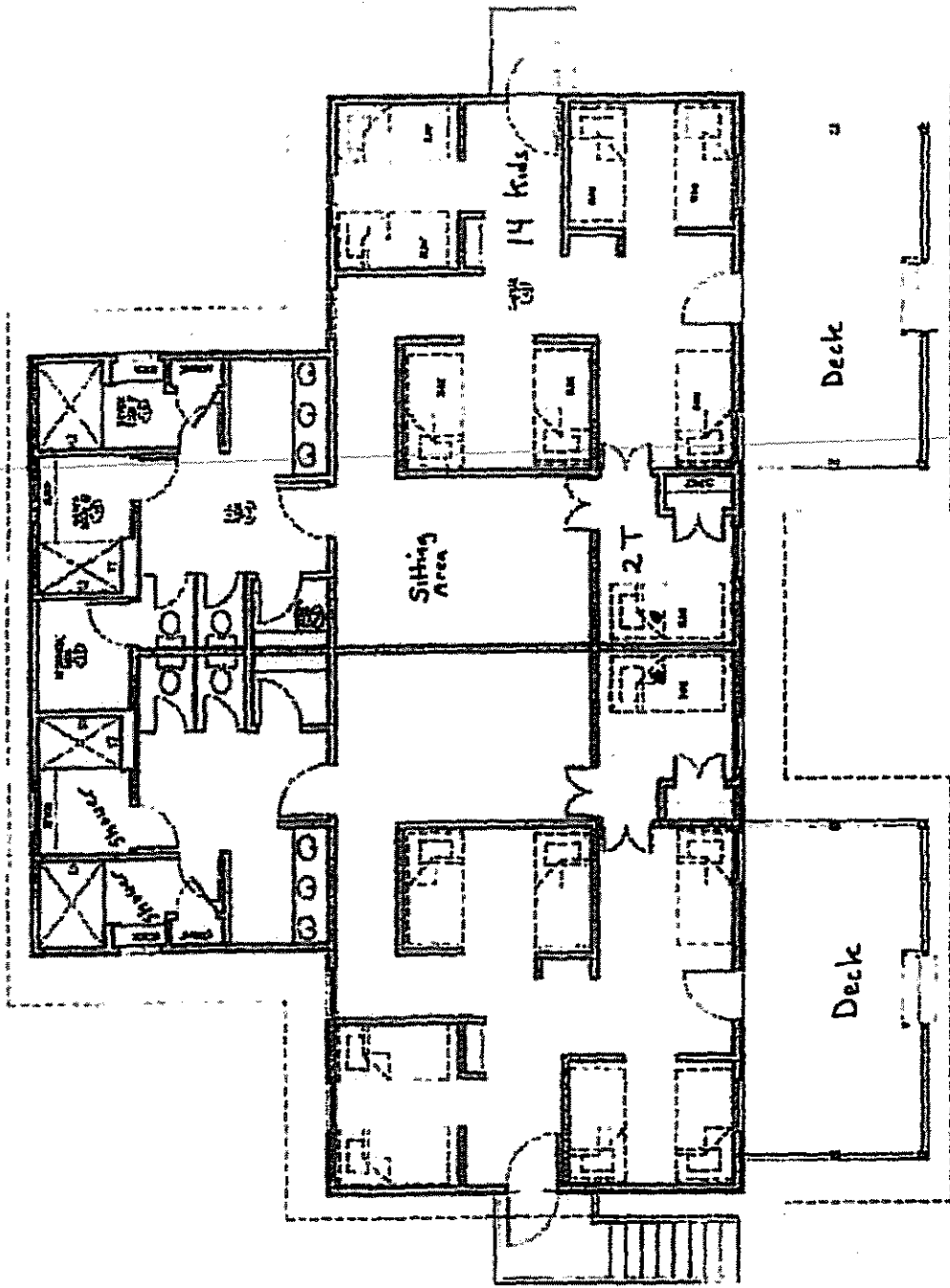
The preceding is a **SAMPLE** outline of courses for a group size requiring nine of our instructors. The specific courses offered vary with the time of year, location, current **Nature's Classroom** instructors, and goals the visiting school wishes to achieve.

SC: Science

MA: Math

HM: Humanities

SS: Social Studies



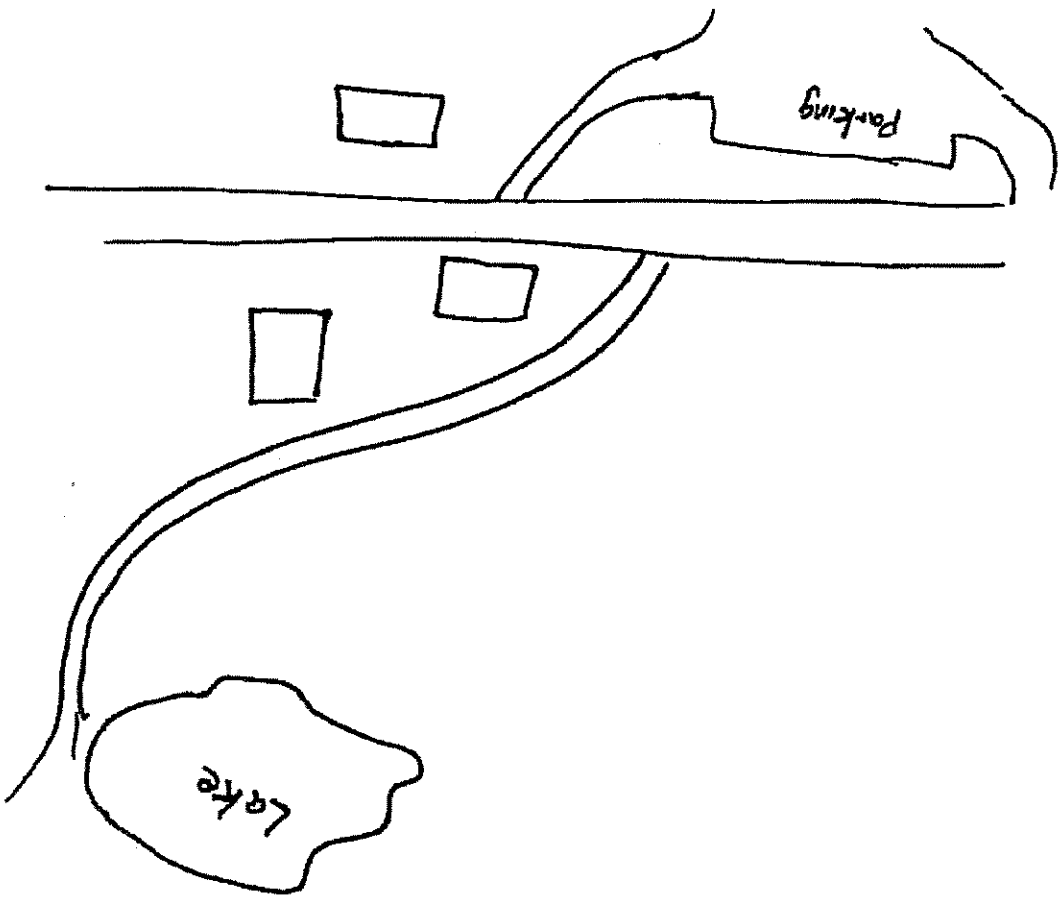
CABIN FLOOR PLAN

CABIN
 CAMP WASHINGTON
 MORRIS, CONNECTICUT

Nature's Classroom
Lakeside, CT

Sport
Fields

Fields
&
forests



NC STAFF

F E
Cabin

H G
CABIN

Dining
Hall

D C
Cabin

B A
Cabin

Kenyon
Hall

All
Purpose

Basketball
&
Volleyball
area

NATURE'S CLASSROOM STUDENT REGISTRATION

Please print all information and please fill in all the blanks

Child's Name _____ Date of Birth _____
(Last) (First)

Age _____ Sex _____ Weight _____ Height _____

Address _____
(No. and Street) (Town) (State) (Zip)

Parent's Name(s) _____

Email Address _____

Home Telephone (____) _____ Alternate Telephone (____) _____

Family Physician _____ Telephone (____) _____

I give permission for (Name) _____ to attend Nature's Classroom

for the period of _____ as part of the outdoor education program

of (School Name) _____ . I understand that the director of

Nature's Classroom may, if necessary, for my child's health, have him/her hospitalized or use outside medical, surgical, or dental care. I also understand that the director and/or school leaders may dismiss my child from Nature's Classroom if, in their opinions, his/her conduct or influence is not in the best interest of the entire group. No refund is given if such action is taken for discipline reasons. Nature's Classroom has my permission to use my child's image, voice and/or likeness for promotional purposes.

Date _____ Signature _____ Relationship _____

MEDICAL PERMISSION SLIP

Should your child become ill, get a headache, catch a cold or have other minor medical or dental problems, do you give permission for the administration of basic first aid at the discretions of the Nature's Classroom staff?

Yes _____ No _____

Date _____ Signature _____ Relationship _____

If Ibuprofen or Tylenol needs to be administered, do you prefer:

IBUPROFEN _____ TYLENOL _____ OTHER (Specify) _____

Nature's Classroom

HOME AND HEALTH INFORMATION QUESTIONNAIRE

Child's Name: _____ Date of Session: _____

The questions below are provided to give you a framework within which to provide that needed information to us. Please feel free to add whatever information you think will be helpful – attach additional sheets if necessary. We will share this information with your child's classroom teachers prior to his/her arrival at camp. Thank you for your cooperation.

1. Is this your child's first prolonged stay away from home? _____

2. Is this your child's first sleep away experience? _____

3. Has your child ever had a problem with homesickness? If yes, please explain briefly. _____

4. Does your child have a bed wetting problem? _____

5. Date of last tetanus booster shot (not a tetanus shot given after an injury). _____

6. Are there any restrictions on your child's activities? Please include any special health concerns, e.g., special diet, recent hospitalizations, fractured bones, etc.

7. List any allergies, e.g., food, environmental, medication, and explain degrees of severity and current treatment.

8. Does your child have any sensory, physical or cognitive disabilities? Yes No If yes, explain.

9. Has anything happened recently in your child's life that may affect him/her emotionally or physically while at camp? If yes, please explain.

10. Additional information:

Nature's Classroom

MEDICATION ADMINISTRATION FORM

All medications (including prescription, non-prescription and vitamins) must come in original containers.

Please complete *all parts* of the following chart for all medications being sent or the medication cannot be administered. If more than four medications are needed, please copy this page.

CHILD'S NAME: _____

I hereby give permission for the staff of Nature's Classroom to oversee the administration of the following medication(s) to my child:

Medication	Dose (mg, tsp)	Time Medication Taken				
		Breakfast	Lunch	Dinner	Bed	Other

Comments (reason for taking medications, special considerations): _____

Your child will not be allowed to keep any medication in his/her cabin. Prescribed medications must be in original container with pharmacy label containing Rx number, the name of the medication, the dosage, directions for administration, and the child's name. Whenever possible, a copy of the doctor's prescription or letter may be sent to clarify any discrepancies. All non-prescription medication must be in their original containers, clearly labeled with the child's name, name of the medication and direction for use.

Signed: _____ Dated: _____

Relationship: _____

SUGGESTED EQUIPMENT LIST FOR NATURE'S CLASSROOM

This list is for a three day program and dependent upon *seasonal weather*. Plan for everything!

---Water Bottle *** Super important!

---1 Sleeping bag or bedroll (sheets and blanket)

---1 Pillow and pillowcase

---2 Pairs of jeans/pants

---Multiple shirts (short and long sleeve)

---1 Sweatshirt/hoodie or sweater

---Pajamas

---1 Pair of slippers/flip-flops for cabin

---Shorts for cabin use only

---Many changes of underwear (for 3 days at least 4)

---Multiple pairs of socks (at least 2 per day)

---1 Warm jacket/coat

---Hat(s): warm hat and/or ball cap

---Gloves, scarf

---Shoes (2-3 Pairs): old sneakers, rain boots, well-broken-in hiking boots, etc.

---1 Raincoat or poncho

---Toiletries: soap (and container), shampoo, toothpaste, toothbrush, deodorant, towels, washcloths

---Laundry bag or extra pillow case

---Pre-addressed stamped envelopes or postcards, paper and pens, etc. for writing home

---Notebook(s) and writing utensils

---Sunscreen

---Insect repellent (no aerosols please)

---"Day pack" or backpack

---Camera: preferably disposable

---Flashlight (optional)

---Book for reading at night

---Deck of playing cards (optional)



DO NOT SEND:

- Electronics: cell phones, I-pods, MP3 players, portable gaming systems, kindles, nooks, tablets, etc.
- Pocket knife, candy/gum/food

***Please do NOT buy new clothes or shoes for your child to wear at Nature's Classroom. Send old clothes that you do not mind your child getting dirty during outdoor activities.

***Please make sure that every personal item (shoes, camera, socks, etc.) are clearly labeled with your child's name. Sharpie everything!

***If your child loses any items at Nature's Classroom, contact the Program Coordinator Immediately. NATURE'S CLASSROOM TAKES NO RESPONSIBILITY FOR LOST ITEMS.

LICENSE AGREEMENT

THIS LICENSE AGREEMENT (the “Agreement”) is entered into by and between the CITY OF DERBY BOARD OF EDUCATION, a Connecticut Municipal Board of Education (the “Licensor”), with a principal place of business at 35 Fifth Street, Derby, Connecticut, 06418, acting herein by Jim Gildea, its Chairman, duly authorized and the STATE OF CONNECTICUT (the “Licensee” or the “State”) acting herein by and through Melody A. Currey, its Commissioner of the Department of Administrative Services, with an address of 450 Columbus Boulevard, Suite 1501, Hartford, Connecticut, 06103, pursuant to the authority conferred upon her pursuant to the provisions of the Connecticut General Statutes Section 4b-30, as revised.

WHEREAS, the Licensor has custody and control of Derby High School (the “High School”) located at 75 Chatfield Street, Derby, Connecticut 06418;

WHEREAS, the Connecticut CSCU State Colleges and Universities (“CSCU”), for the Board of Regents for Higher Education, desires for Housatonic Community College (“HCC”) to use laboratory and classroom space, room numbers G01 and G03, located on the ground floor of the High School; and

WHEREAS, DAS has the authority to enter into this License Agreement on behalf of the State for CSCU.

NOW THEREFORE, for good and valuable consideration and the mutual promises contained herein, the parties hereto agree as follows:

1. License.

a. The Licensor hereby grants to the Licensee a temporary, non-exclusive license to enter over, across and upon the High School in order to use laboratory and classroom space as shown in Exhibit A attached hereto and made a part hereof (the “License Area”), along with restrooms located in the general area of the licensed spaces, for the purpose of HCC providing the following academic programs: (1) a College Connections program during normal High School hours, Monday through Friday 7:30AM and 1:55PM (the “High School Hours”) to provide early college education and training in Advanced Manufacturing to high school students from the City of Derby and other surrounding school systems as approved in advance by Licensor; and (2) non-credit Advanced Manufacturing programs for adult learners and the incumbent worker population, when approved in advance by Licensor (the College Connections program and the Advanced Manufacturing program is collectively referred to herein as the “Academic Program”). The Licensor shall also provide, on a non-exclusive basis, parking for HCC staff and program participants in the on-site surface parking lot adjacent to the License Area as shown in Exhibit A(1), or in other High School general parking areas if the adjacent parking lot is full.

b. The Licensee expressly agrees that it does not and shall not claim, at any time, any interest or estate of any kind or extent whatsoever in the High School or License Area.

2. Duties of Licensor.

a. The Licensor shall be responsible for the management and operation of the License Area, as a laboratory and classroom space, consistent with Licensor's past practice, including but not limited to, providing utilities, custodial, IT, security, lighting, maintenance (as needed to keep the License Area in good working order and condition), and snow and ice removal and sanding of the outside areas of the High School and parking lots.

b. Expenses for services above normal maintenance shall be paid by Licensee. Any such services must be arranged and approved in advance by Licensor.

3. Consideration.

a. The Licensor agrees to permit the Licensee use of the License Area in exchange for HCC providing college-credit courses to High School students along with other school system high school students who may attend the Academic Program when approved by the Licensor in advance. The direct cost of instruction, books and materials for these courses is to be borne and paid by the Licensee through non-state grant funds for the 2018 – 2019 high school academic year. The Licensor, and other school systems that participate in the Academic Programs, shall fund the direct cost of instruction books and materials for these courses starting in the fall semester, 2019. Initial course offerings for the Academic Program will include: (1) drill press and saw, (2) manufacturing and bench work, and (3) basic blueprint reading. Successful completion of all three (3) courses, with individual final course grades of C or better, shall yield five (5) total credit hours applicable toward HCC's Industrial Technology degree program. The Academic Program may be expanded with additional courses as determined by both the Licensor and Licensee. The success of the Academic Program will be measured by key factors such as, including but not limited to, high student enrollment to the Academic Program and to HCC and the availability of federal funding.

b. The Licensee is to provide and install and maintain in good working order, all equipment and furnishings required to administer the above Academic Programs including desks, tables, chairs, computers, and machine/laboratory equipment. After termination or expiration of this Agreement, as applicable, Licensee shall promptly remove all such personal property.

c. Expenses incurred for the operation of the Academic Program after High School Hours will be assessed in advance between Licensee and Licensor on a case by case basis prior to the occurrence to determine to whom expenses, or partial expenses, will be assessed. Any of the Academic Program courses held after High School Hours must be arranged and approved in advance by Licensor.

4. Term.

a. The term of this Agreement shall be three (3) years and will commence upon the date this Agreement is approved by the Office of the Attorney General (the “Commencement Date”). This Agreement shall not take effect until and unless approved by the Office of the Attorney General. Notwithstanding the foregoing, if a determination is made either by Licensor and Licensee that the Academic Program is not producing desired outcomes, Licensor and/or Licensee may terminate this Agreement, without cause or penalty, at any time upon one hundred eighty (180) days prior written notice to the other party.

b. This Agreement may be renewed upon the mutual approval of Licensor and Licensee for one additional three (3) year and, upon the completion of that additional term, for one final one (1) year term (collectively, the “Renewal Term”) totaling up to seven (7) years. The Licensee shall provide Licensor one hundred eighty (180) days’ advance written notice of its intention to renew this Agreement. Licensor shall then have a period of sixty (60) days’ after receipt of such notice to notify Licensee by written notice whether Licensor wishes to renew this Agreement. Licensor’s failure to reply to Licensee’s renewal request shall be deemed Licensor’s approval. All other terms and conditions of this Agreement shall remain in effect for the Renewal Term.

5. Use.

a. Hours of use for the College Connection Program for High School students will occur during High School Hours. Hours of use for the non-credit Advanced Manufacturing Courses to be offered to adult learners and incumbent workers will occur on evenings and weekends at times to be mutually agreed upon in advance by the Licensor and Licensee.

b. The Licensee shall not use the License Area on days when Licensor has an emergency High School closing, including days in which Licensor has High School during the day but cancels afternoon and/or evening programs and/or activities of the Licensor.

c. The Licensee shall use the License Area solely for the purposes permitted in this Agreement.

d. No dangerous explosives or hazardous substances may be brought onto, stored or used on or in the License Area.

e. The Licensee acknowledges that Licensor, or Licensor’s employees, agents or contractors, may access the License Area during hours of allowable use included in Section 5(a), as may be necessary or required, in Licensor’s reasonable discretion.

f. The Licensee’s use of the License Area is subject and subordinate to any rules or regulations, including, but not limited to, security procedures and orders, promulgated by Licensor from time to time concerning the License Area and High School grounds, whether or not attached to this Agreement.

g. Licensee shall give prompt notice to the Licensor in case of an accident in the License Area during Licensee's periods of use.

h. The Licensee shall pay the reasonable costs of all repairs, replacements, deterioration or damages to the interior of the License Area including, without limitation, plumbing, electrical, fire alarm systems, floor surfaces, glass, all partitions, ceilings and doors, within or servicing the License Area, occasioned by negligent acts or omissions or willful misconduct of the Licensee, the Licensee's officers, agents, employees, clients, invitees, licensees, visitors, guests or servants. Licensor will provide Licensee an invoice detailing the cost of said repairs or replacements. Licensee shall reimburse Licensor within thirty (30) days of receipt of such invoice, provided that Licensee does not dispute any charges in the invoice. In the event of an invoice dispute, the Licensee shall deliver a written statement to the Licensor no later than ten (10) days prior to the date payment is due on the disputed invoice listing all disputed items and providing a reasonably detailed description of each disputed item. In the event of such dispute, Licensor and Licensee agree to work together to resolve the same.

i. The Licensee shall be responsible for any equipment or other personal property it keeps in the License Area. Licensor shall not be required to repair any injury or damage by fire or other cause or to make any repairs or replacements of any equipment or other personal property of Licensee, Licensee's employees and invitees, provided such injury or damage is not attributed to Licensor, Licensor's employees, invitees or students. At the expiration of the Term or on any termination of this Agreement, Licensee shall vacate and remove all of its equipment and other personal property from the License Area and leave the License Area in good order and condition. The Licensee shall be responsible for the cost of any such removal, including the cost of repairing any damage to the License Area caused by such removal.

6. Insurance.

a. Throughout the term of this Agreement, and any extension thereof, Licensee shall maintain, at Licensee's sole cost and expense, a policy or policies of commercial general liability insurance, including contractual liability coverage, in an amount not less than \$1,000,000.00 for all damages arising out of bodily injuries to, or death of, all persons and injuries to or destruction of property, in any one accident or occurrence, and, subject to that limit per accident, a total (or aggregate) limit of \$2,000,000.00 for all damages arising out of bodily injuries to, or death of, all persons and injuries to or destruction of property per policy period. In addition, Licensee shall maintain a Commercial Umbrella Liability policy having limits of \$5,000,000 occurrence/\$5,000,000 aggregate in excess of Commercial General Liability, Business Automobile, and Employers Liability Insurance. Such insurance policy or policies shall name the Licensor and Licensor's, agents and employees as additional insureds. Licensor acknowledges Licensee may self-insure.

b. The Licensor and Licensee shall maintain Worker's Compensation and Employer's Liability insurance in compliance with the laws of the state of Connecticut, which coverage

shall include Employer's Liability coverage with minimum limits of \$1,000,000 for each accident, \$1,000,000 for disease, and \$1,000,000 for each employee, per policy period. Licensee is self-insured for Workers' Compensation and Employer's Liability as required by Connecticut General Statute Sections 31-284(a) through (c).

c. Throughout the Term, Licensor also shall maintain, at Licensor's sole cost and expense, a policy or policies of standard fire and casualty insurance, including special form coverage, insuring the License Area against all risks of damage thereto, together with endorsements insuring against damage and other loss, costs and expenses due to earthquake, demolition, increased cost of construction, contingent liability associated with building laws and regulations, and, if any portion of the License Area is located is within a 100 year flood zone, also flood. The coverage limits for such insurance shall be not less than one hundred percent (100%) of the full replacement cost of the License Area and, in all events, in such amounts so that Licensor is not deemed a co-insurer of any loss, risk or damage covered thereby. The amount of casualty insurance maintained by Licensor shall in no way limit the Licensor's obligations to repair or reconstruct the License Area or any portion thereof following a casualty.

d. All insurance shall be written on an occurrence basis as opposed to "claims made" basis.

e. The insurance required hereunder shall be written with insurers licensed to do business in the State of Connecticut and which are rated A-(VIII) or better by the latest edition of Best's Rating Guide or, if not available, any generally recognized replacement therefor. Each policy of insurance required hereunder shall provide for a minimum of thirty (30) days prior notice of any cancellation or changes in coverage. Copies of insurance policies required of one party shall be provided to the other not later than the Commencement Date and thereafter not later than thirty (30) days prior to the expiration of each such policy.

f. Nothing herein shall preclude either party from procuring and maintaining, at such party's sole cost and expense, such additional insurance coverage as such party deems desirable or appropriate, provided, however, that all liability insurance (other than insurance policies for garage-keeper's liability, workers compensation and employer's liability) maintained by Licensee shall name Licensor and Licensor's officials, agents and employees as additional insureds. Any insurance maintained by the Licensee hereunder shall be primary and non-contributory and not in excess of any other insurance maintained by Licensor and/or any other persons or parties. Any insurance maintained by Licensor shall be in excess of any and all insurance maintained by Licensee and shall not contribute with it.

g. The Licensor shall be fully and solely responsible for any and all costs and expenses associated with and thus shall pay any and all coverage deductibles and/or self-insured retentions under any policies maintained by Licensor in connection with the Property.

h. Intentionally Omitted.

i. The Licensee shall assume and pay all costs and billings for premiums and audit charges earned and payable under the insurance it is required to maintain as set forth above. Each such insurance policy shall state that the insurance company shall agree to investigate and defend the insured against all claims for damages, even if groundless.

7. State Standard Provisions.

a. Definitions for terms as used in this Section:

- (i) Claims: All actions, suits, claims, demands, investigations and proceedings of any kind, open, pending or threatened, whether mature, unmatured, contingent, known or unknown, at law or in equity, in any forum.
- (ii) Contract: This Agreement.
- (iii) Contractor: The Licensor.
- (iv) Contractor Parties: A Contractor's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the Contractor is in privity of oral or written contract and the Contractor intends for such other person or entity to perform under the Contract in any capacity.

Records: All working papers and such other information and materials as may have been accumulated by the Contractor in performing the Contract, including but not limited to, documents, data, plans, books, computations, drawings, specifications, notes, reports, records, estimates, summaries, memoranda and correspondence, kept or stored in any form.

- (v) State: The State of Connecticut, including any office, department, board, council, commission, institution or other agency or entity of the State.

b. Indemnification:

- (1) The Contractor shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, from the willful misconduct or negligent acts or omissions of Contractor or Contractor Parties (collectively, the "Acts"); and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with any such Claims, Acts or the Contract. The Contractor shall use counsel reasonably acceptable to the State in carrying out its obligations under this section. The Contractor's obligations under this section to indemnify, defend and hold harmless against claims includes claims concerning confidentiality of any part of or all of the Contractor's bid, proposal or any Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopied

compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the performance.

- (2)The Contractor shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the negligence or willful misconduct of the State or any other person or entity acting under the direct control or supervision of the State.
- (3)The Contractor shall reimburse the State for any and all damages to the real or personal property of the State caused by the acts of the Contractor or any Contractor Parties. The State shall give the Contractor reasonable notice of any such claims.
- (4)The Contractor's duties under this section shall remain fully in effect and binding in accordance with the terms and conditions of the Contract, without being lessened or compromised in any way, even where the Contractor is alleged or is found to have merely contributed in part to the acts giving rise to the claims and/or where the State is alleged or is found to have contributed to the acts giving rise to the claims.
- (5)The Contractor shall carry and maintain at all times during the term of the Contract, and during the time that any provisions survive the term of the Contract, sufficient general liability insurance to satisfy its obligations under this Contract. The Contractor shall name the State as an additional insured on the policy and shall provide a copy of the policy to the State prior to the effective date of the Contract. The Contractor shall not begin performance until the delivery of the policy to the State. The State shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the State is contributorily negligent.
- (6)The rights provided in this section for the benefit of the State shall encompass the recovery of attorneys' and other professionals' fees expended in pursuing a claim against a third party.
- (7)This section shall survive the termination of the Contract and shall not be limited by reason of any insurance coverage.

c. Audit and Inspection of Plants, Places of Business and Records:

- (1)The State and its agents, including, but not limited to, the Connecticut Auditors of Public Accounts, Attorney General and State's Attorney and their respective agents, may, at reasonable hours, inspect and examine all of the parts of the Contractor's and Contractor Parties' plants and places of business which, in any way, are related to, or involved in, the performance of this Contract.
- (2)The Contractor shall maintain, and shall require each of the Contractor Parties to maintain, accurate and complete Records. The Contractor shall make all of its and the Contractor Parties' Records available at all reasonable hours for audit and inspection by the State and its agents.

- (3)The State shall make all requests for any audit or inspection in writing and shall provide the Contractor with at least twenty-four (24) hours' notice prior to the requested audit and inspection date. If the State suspects fraud or other abuse, or in the event of an emergency, the State is not obligated to provide any prior notice.
- (4)The Contractor will pay for all costs and expenses of any audit or inspection which reveals information that, in the sole determination of the State, is sufficient to constitute a breach by the Contractor under this Contract. The Contractor will remit full payment to the State for such audit or inspection no later than 30 days after receiving an invoice from the State. If the State does not receive payment within such time, the State may setoff the amount from any moneys which the State would otherwise be obligated to pay the Contractor.
- (5)The Contractor shall keep and preserve or cause to be kept and preserved all of its and Contractor Parties' Records until three (3) years after the latter of (i) final payment under this Agreement, or (ii) the expiration or earlier termination of this Agreement, as the same may be modified for any reason. The State may request an audit or inspection at any time during this period. If any Claim or audit is started before the expiration of this period, the Contractor shall retain or cause to be retained all Records until all Claims or audit findings have been resolved.
- (6)The Contractor shall cooperate fully with the State and its agents in connection with an audit or inspection. Following any audit or inspection, the State may conduct and the Contractor shall cooperate with an exit conference.
- (7)The Contractor shall incorporate this entire Section verbatim into any contract or other agreement that it enters into with any Contractor Party.

d. Whistleblowing: This Contract may be subject to the provisions of Section 4-61dd of the Connecticut General Statutes. In accordance with this statute, if an officer, employee or appointing authority of the Contractor takes or threatens to take any personnel action against any employee of the Contractor in retaliation for such employee's disclosure of information to any employee of the contracting state or quasi-public agency or the Auditors of Public Accounts or the Attorney General under the provisions of subsection (a) of such statute, the Contractor shall be liable for a civil penalty of not more than five thousand dollars for each offense, up to a maximum of twenty per cent of the value of this Contract. Each violation shall be a separate and distinct offense and in the case of a continuing violation, each calendar day's continuance of the violation shall be deemed to be a separate and distinct offense. The State may request that the Attorney General bring a civil action in the Superior Court for the Judicial District of Hartford to seek imposition and recovery of such civil penalty. In accordance with subsection (f) of such statute, each large state contractor, as defined in the statute, shall post a notice of the provisions of the statute relating to large state contractors in a conspicuous place which is readily available for viewing by the employees of the Contractor.

9. Miscellaneous.

a. At the expiration or termination of this Agreement, the Licensee may continue to utilize the License Area on a month-to-month basis subject to the same terms, conditions and covenants contained herein. Notwithstanding this provision, the Licensor shall not charge and the Licensee shall not pay an increase in the consideration unless the Licensor shall have provided the Licensee written demand of the increase at least 45 days prior to the requested effective date and such increase has been previously approved in writing by the State Properties Review Board.

b. All notices required under this Agreement shall be in writing and shall be transmitted by certified mail, return receipt requested (postage prepaid) as follows:

to the Licensee at: Commissioner of Administrative Services, Department of
Administrative Services, 450 Columbus Boulevard, Suite 1501,
Hartford, Connecticut, 06103

with a copy to: Department of Administrative Services, Administrator, Statewide
Leasing and Property Transfer Unit, 450 Columbus Boulevard,
Suite 1402, Hartford, Connecticut, 06103

to the Licensor at: Derby Public Schools
Attn: Superintendent
35 Fifth Street
Derby, Connecticut, 06418

c. This Agreement, whatever the circumstances, shall not be binding on the Licensor or Licensee unless and until approved by the Office of the Attorney General of the State of Connecticut and delivered to the Licensor.

d. This Agreement may not be modified except in writing signed by both the Licensor and Licensee. Any modification of this Agreement or additional obligation assumed by either of the Licensor or the Licensee in connection with this Agreement shall be binding only if evidenced in a writing signed by the Licensor and the Licensee or an authorized representative of the Licensor or the Licensee, and approved by the Office of the Attorney General of the State of Connecticut.

e. The parties acknowledge and agree that nothing in this Agreement shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by Federal law or the laws of the State of Connecticut to the State or any of its officers and employees, which they may have had, now have or will have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.

f. This Agreement shall not be recorded on the Land Records.

g. The failure of either party to insist upon the performance of any of the terms and conditions of this Agreement or the waiver of any breach of any of the terms and conditions of this Agreement, shall not be construed as thereafter waiving any such terms and conditions, but the same shall continue and remain in full force and effect as if no such forbearance or waiver had occurred.

h. This Agreement is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Agreement as if they had been fully set forth in it. The Agreement may also be subject to the applicable parts of Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services and to Executive Order No. 49 of Governor Dannel P. Malloy, promulgated May 22, 2015, mandating disclosure of certain gifts to public employees and contributions to certain candidates for office. If Executive Order 14 and/or Executive Order 49 are applicable, they are deemed to be incorporated into and are made a part of the Agreement as if they had been fully set forth in it. At the Licensor's request, the Licensee shall provide a copy of these orders to the Licensor.

i. Intentionally omitted.

j. For all State contracts, defined in Conn. Gen. Stat. §9-612(g)(1) as having a value in a calendar year of \$50,000 or more, or a combination or series of such agreements or contracts having a value of \$100,000 or more, the authorized signatory to this Agreement expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice, as set forth in "Notice to Executive Branch State Contractors and Prospective State Contractors of Campaign Contribution and Solicitation Limitations," attached as Exhibit B.

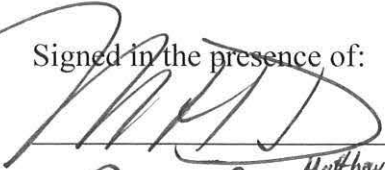
k. The parties deem the Agreement to have been made in the City of Hartford, State of Connecticut. Both parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by Federal law or the laws of the State of Connecticut do not bar an action against the State, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Licensor waives any objection which it may now have or will have to the laying of venue of any claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.


[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this License Agreement to be executed as set forth below.

CITY OF DERBY BOARD OF EDUCATION

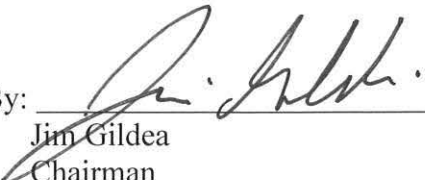
Signed in the presence of:



Matthew J. Conway


Dina Gotowala

By: _____



Jim Gildea
Chairman
Duly Authorized

Date signed: _____

12/17/18

STATE OF CONNECTICUT

Signed in the presence of:

By: _____


Melody A. Currey
Its Commissioner of Administrative Services
Duly Authorized

Date signed: _____

STATE OF CONNECTICUT)
)
COUNTY OF NEW HAVEN) ss: Derby

On this the 17 day of December, 2018, before me, the undersigned officer, personally appeared Jim Gildea, executed the foregoing Agreement as his free act and deed and the free act and deed of said City of Derby Board of Education.

In witness whereof I hereunto set my hand.


Commissioner of the Superior Court
Notary Public
My Commission Expires: 2/28/2023

STATE OF CONNECTICUT)
)
COUNTY OF HARTFORD) ss: Hartford

On this the _____ day of _____, 2018, before me, the undersigned officer, personally appeared Melody A. Currey, Commissioner of the Department of Administrative Services, State of Connecticut, known to me to be the person described in the foregoing instrument, and acknowledged that she executed the same in the capacity as therein stated and for the purposes therein contained.

In Witness Whereof I hereunto set my hand.

Commissioner of the Superior Court
Notary Public
My Commission Expires:

Accepted:
CONNECTICUT BOARD OF REGENTS FOR HIGHER EDUCATION
By: CONNECTICUT STATE COLLEGES AND UNIVERSITIES

By: Mark E. Ojakian
Mark E. Ojakian
Its President

Date signed: 1-2-19

Approved:
OFFICE OF POLICY AND MANAGEMENT:

By: _____
Susan Weisselberg
Its Deputy Secretary

Date signed: _____

Approved:
STATE PROPERTIES REVIEW BOARD

By: _____
Edwin S. Greenberg
Its Chairman

Date signed: _____

Approved:
OFFICE OF THE ATTORNEY GENERAL

By: _____
Joseph Rubin
Its Associate Attorney General

Date signed: _____

EXHIBIT A

License Area

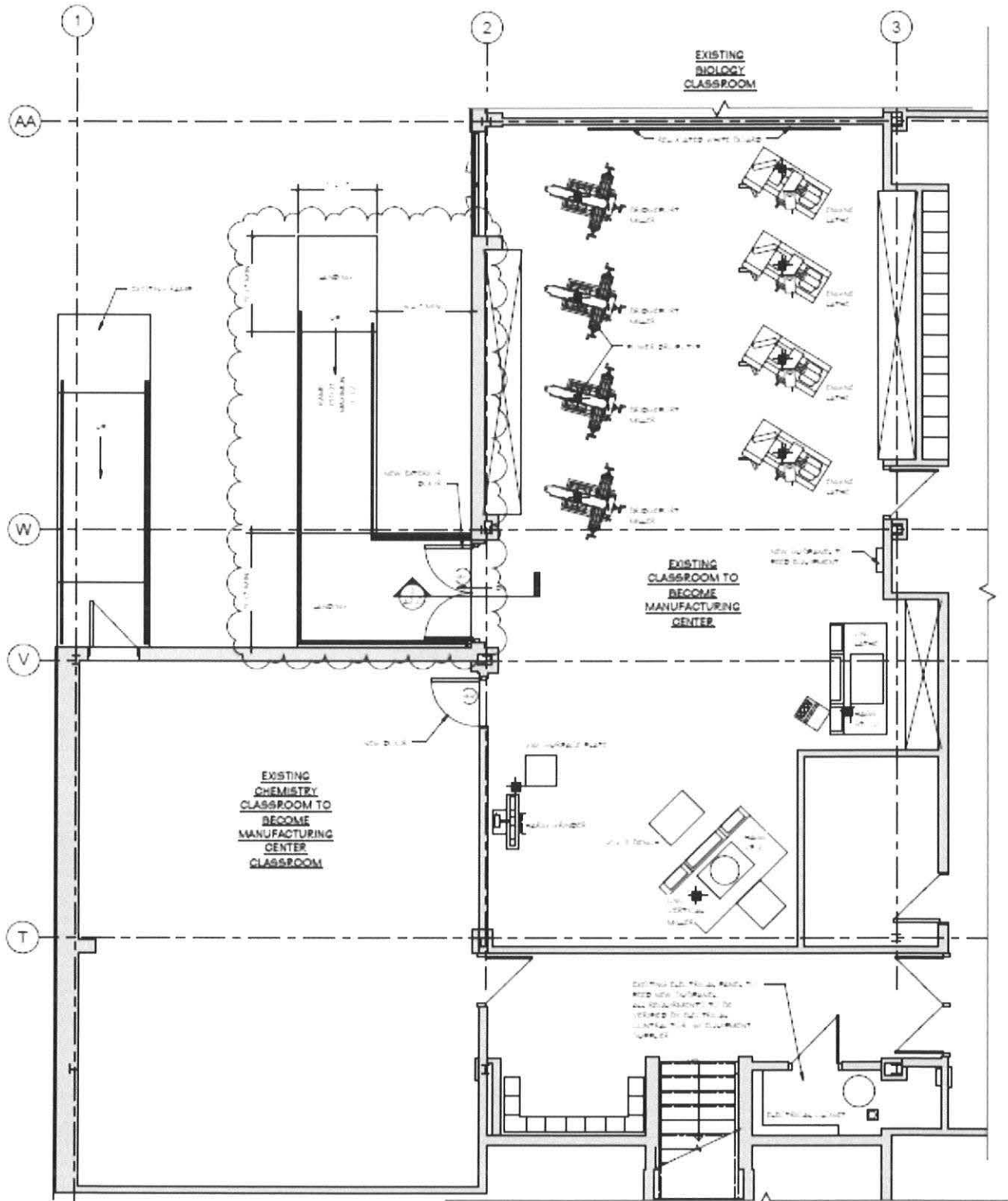


EXHIBIT A(1)

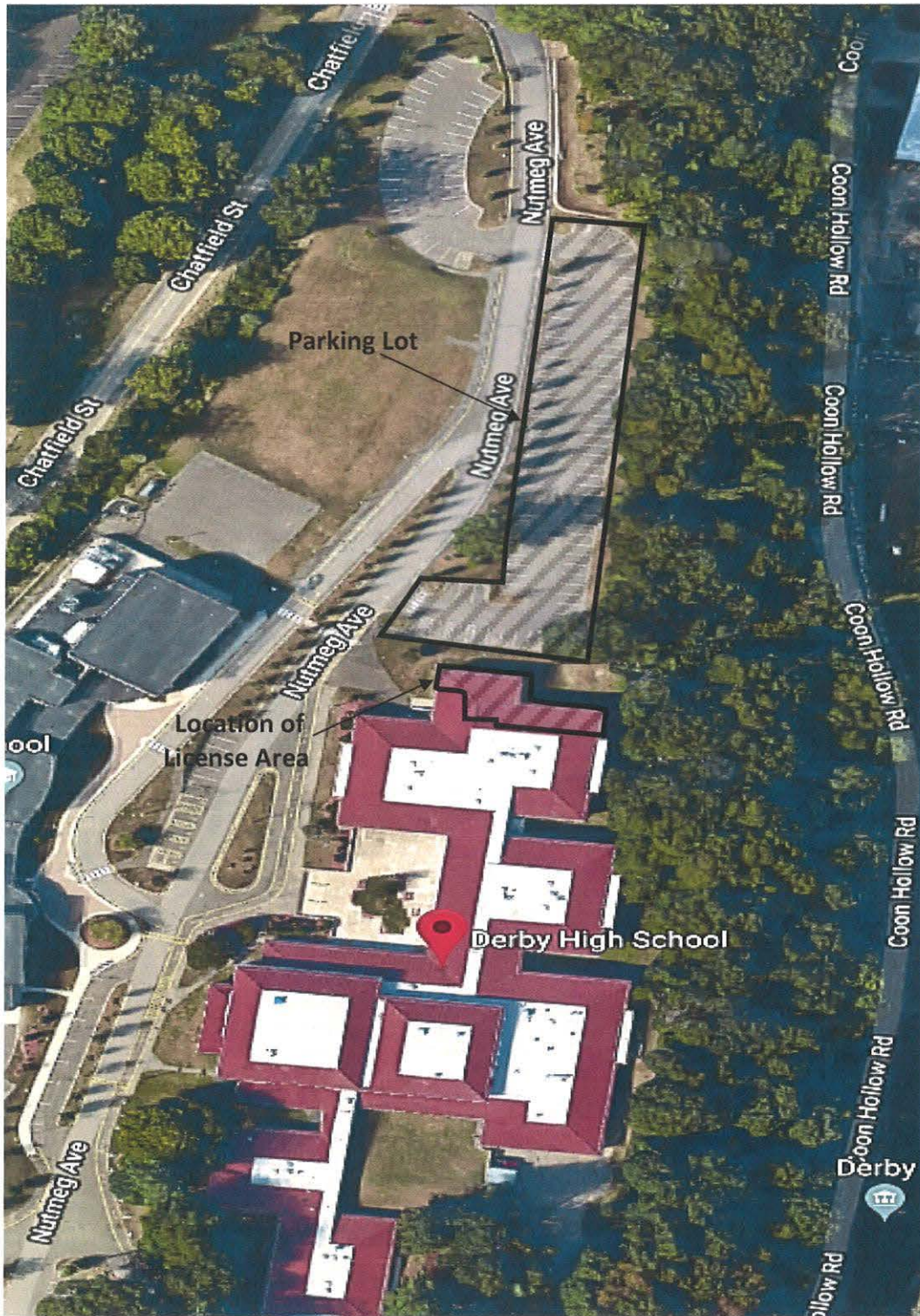


EXHIBIT B

Notice to Executive Branch State Contractors and Prospective State Contractors of Campaign Contribution and Solicitation Limitations

This notice is provided under the authority of Connecticut General Statutes §9-612(g)(2), as amended by P.A. 10-1, and is for the purpose of informing state contractors and prospective state contractors of the following law (*italicized words are defined on the reverse side of this page*).

CAMPAIGN CONTRIBUTION AND SOLICITATION LIMITATIONS

No state contractor, prospective state contractor, principal of a state contractor or principal of a prospective state contractor, with regard to a *state contract* or *state contract solicitation* with or from a state agency in the executive branch or a quasi-public agency or a holder, or principal of a holder of a valid prequalification certificate, shall make a contribution to (i) an exploratory committee or candidate committee established by a candidate for nomination or election to the office of Governor, Lieutenant Governor, Attorney General, State Comptroller, Secretary of the State or State Treasurer, (ii) a political committee authorized to make contributions or expenditures to or for the benefit of such candidates, or (iii) a party committee (which includes town committees).

In addition, no holder or principal of a holder of a valid prequalification certificate, shall make a contribution to (i) an exploratory committee or candidate committee established by a candidate for nomination or election to the office of State senator or State representative, (ii) a political committee authorized to make contributions or expenditures to or for the benefit of such candidates, or (iii) a party committee.

On and after January 1, 2011, no state contractor, prospective state contractor, principal of a state contractor or principal of a prospective state contractor, with regard to a state contract or state contract solicitation with or from a state agency in the executive branch or a quasi-public agency or a holder, or principal of a holder of a valid prequalification certificate, shall **knowingly solicit** contributions from the state contractor's or prospective state contractor's employees or from a *subcontractor* or *principals of the subcontractor* on behalf of (i) an exploratory committee or candidate committee established by a candidate for nomination or election to the office of Governor, Lieutenant Governor, Attorney General, State Comptroller, Secretary of the State or State Treasurer, (ii) a political committee authorized to make contributions or expenditures to or for the benefit of such candidates, or (iii) a party committee.

DUTY TO INFORM

State contractors and prospective state contractors are required to inform their principals of the above prohibitions, as applicable, and the possible penalties and other consequences of any violation thereof.

PENALTIES FOR VIOLATIONS

Contributions or solicitations of contributions made in violation of the above prohibitions may result in the following civil and criminal penalties:

Civil penalties—Up to \$2,000 or twice the amount of the prohibited contribution, whichever is greater, against a principal or a contractor. Any state contractor or prospective state contractor which fails to make reasonable efforts to comply with the provisions requiring notice to its principals of these prohibitions and the possible consequences of their violations may also be subject to civil penalties of up to \$2,000 or twice the amount of the prohibited contributions made by their principals.

Criminal penalties—Any knowing and willful violation of the prohibition is a Class D felony, which may subject the violator to imprisonment of not more than 5 years, or not more than \$5,000 in fines, or both.

CONTRACT CONSEQUENCES

In the case of a state contractor, contributions made or solicited in violation of the above prohibitions may result in the contract being voided.

In the case of a prospective state contractor, contributions made or solicited in violation of the above prohibitions shall result in the contract described in the state contract solicitation not being awarded to the prospective state contractor, unless the State Elections Enforcement Commission determines that mitigating circumstances exist concerning such violation.

The State shall not award any other state contract to anyone found in violation of the above prohibitions for a period of one year after the election for which such contribution is made or solicited, unless the State Elections Enforcement Commission determines that mitigating circumstances exist concerning such violation.

Additional information may be found on the website of the State Elections Enforcement Commission, www.ct.gov/seec. Click on the link to “Lobbyist/Contractor Limitations.”

DEFINITIONS

“State contractor” means a person, business entity or nonprofit organization that enters into a state contract. Such person, business entity or nonprofit organization shall be deemed to be a state contractor until December thirty-first of the year in which such contract terminates. “State contractor” does not include a municipality or any other political subdivision of the state, including any entities or associations duly created by the municipality or political subdivision exclusively amongst themselves to further any purpose authorized by statute or charter, or an employee in the executive or legislative branch of state government or a quasi-public agency, whether in the classified or unclassified service and full or part-time, and only in such person's capacity as a state or quasi-public agency employee.

“Prospective state contractor” means a person, business entity or nonprofit organization that (i) submits a response to a state contract solicitation by the state, a state agency or a quasi-public agency, or a proposal in response to a request for proposals by the state, a state agency or a quasi-public agency, until the contract has been entered into, or (ii) holds a valid prequalification certificate issued by the Commissioner of Administrative Services under section 4a-100.

“Prospective state contractor” does not include a municipality or any other political subdivision of the state, including any entities or associations duly created by the municipality or political subdivision exclusively amongst themselves to further any purpose authorized by statute or charter, or an employee in the executive or legislative branch of state government or a quasi-public agency, whether in the classified or unclassified service and full or part-time, and only in such person's capacity as a state or quasi-public agency employee.

“Principal of a state contractor or prospective state contractor” means (i) any individual who is a member of the board of directors of, or has an ownership interest of five per cent or more in, a state contractor or prospective state contractor, which is a business entity, except for an individual who is a member of the board of directors of a nonprofit organization, (ii) an individual who is employed by a state contractor or prospective state contractor, which is a business entity, as president, treasurer or executive vice president, (iii) an individual who is the chief executive officer of a state contractor or prospective state contractor, which is not a business entity, or if a state contractor or prospective state contractor has no such officer, then the officer who duly possesses comparable powers and duties, (iv) an officer or an employee of any state contractor or prospective state contractor who has *managerial or discretionary responsibilities with respect to a state contract*, (v) the spouse or a *dependent child* who is eighteen years of age or older of an individual described in this subparagraph, or (vi) a political committee established or controlled by an individual described in this subparagraph or the business entity or nonprofit organization that is the state contractor or prospective state contractor.

“State contract” means an agreement or contract with the state or any state agency or any quasi-public agency, let through a procurement process or otherwise, having a value of fifty thousand dollars or more, or a combination or series of such agreements or contracts having a value of one hundred thousand dollars or more in a calendar year, for (i) the rendition of services, (ii) the furnishing of any goods, material, supplies, equipment or any items of any kind, (iii) the construction, alteration or repair of any public building or public work, (iv) the acquisition, sale or lease of any land or building, (v) a licensing arrangement, or (vi) a grant, loan or loan guarantee. “State contract” does not include any agreement or contract with the state, any state agency or any quasi-public agency that is exclusively federally funded, an education loan, a loan to an individual for other than commercial purposes or any agreement or contract between the state or any state agency and the United States Department of the Navy or the United States Department of Defense.

“State contract solicitation” means a request by a state agency or quasi-public agency, in whatever form issued, including, but not limited to, an invitation to bid, request for proposals, request for information or request for quotes, inviting bids, quotes or other types of submittals,

through a competitive procurement process or another process authorized by law waiving competitive procurement.

“Managerial or discretionary responsibilities with respect to a state contract” means having direct, extensive and substantive responsibilities with respect to the negotiation of the state contract and not peripheral, clerical or ministerial responsibilities.

“Dependent child” means a child residing in an individual’s household who may legally be claimed as a dependent on the federal income tax of such individual.

“Solicit” means (A) requesting that a contribution be made, (B) participating in any fund-raising activities for a candidate committee, exploratory committee, political committee or party committee, including, but not limited to, forwarding tickets to potential contributors, receiving contributions for transmission to any such committee or bundling contributions, (C) serving as chairperson, treasurer or deputy treasurer of any such committee, or (D) establishing a political committee for the sole purpose of soliciting or receiving contributions for any committee. Solicit does not include: (i) making a contribution that is otherwise permitted by Chapter 155 of the Connecticut General Statutes; (ii) informing any person of a position taken by a candidate for public office or a public official, (iii) notifying the person of any activities of, or contact information for, any candidate for public office; or (iv) serving as a member in any party committee or as an officer of such committee that is not otherwise prohibited in this section.

“Subcontractor” means any person, business entity or nonprofit organization that contracts to perform part or all of the obligations of a state contractor's state contract. Such person, business entity or nonprofit organization shall be deemed to be a subcontractor until December thirty first of the year in which the subcontract terminates. “Subcontractor” does not include (i) a municipality or any other political subdivision of the state, including any entities or associations duly created by the municipality or political subdivision exclusively amongst themselves to further any purpose authorized by statute or charter, or (ii) an employee in the executive or legislative branch of state government or a quasi-public agency, whether in the classified or unclassified service and full or part-time, and only in such person's capacity as a state or quasi-public agency employee.

“Principal of a subcontractor” means (i) any individual who is a member of the board of directors of, or has an ownership interest of five per cent or more in, a subcontractor, which is a business entity, except for an individual who is a member of the board of directors of a nonprofit organization, (ii) an individual who is employed by a subcontractor, which is a business entity, as president, treasurer or executive vice president, (iii) an individual who is the chief executive officer of a subcontractor, which is not a business entity, or if a subcontractor has no such officer, then the officer who duly possesses comparable powers and duties, (iv) an officer or an employee of any subcontractor who has managerial or discretionary responsibilities with respect to a subcontract with a state contractor, (v) the spouse or a dependent child who is eighteen years of age or older of an individual described in this subparagraph, or (vi) a political committee established or controlled by an individual described in this subparagraph or the business entity or nonprofit organization that is the subcontractor.

City of Derby, Connecticut

One Elizabeth Street - 06418



Marc J. Garofalo, MPA, CCTC
Town / City Clerk

Telephone - 203.736.1462 Extension 2
FAX - 203.736.1479

Email - townclerk@derbyct.gov

Certificate of Incumbency

I, Marc J. Garofalo, Town / City Clerk of the City of Derby, CT do hereby certify that on the date of this certificate the officers of the City of Derby listed below were duly chosen, qualified and acting officers of the City of Derby, holding the offices indicated in the official titles following their respective names with the terms of service indicated thereafter.

James Gildea Chair, Board of Education 12-2-2017 to 12-7-2019

I further certify that the seal which has been impressed on this certificate is the legally adopted, proper and only official seal of the City of Derby.

In witness whereof, I have signed this certificate and impressed on this certificate the seal of the City of Derby, CT, as of the 20th day of December, 2018.

A handwritten signature in black ink that reads "Marc J. Garofalo". The signature is written in a cursive, flowing style.

Marc J. Garofalo, MPA, CCTC
Town / City Clerk
City of Derby, CT

SEAL

Relations with Vendors

The school district shall not extend favoritism to any vendors. Each order shall be placed on the basis of quality, price and delivery with past service being a factor if all other considerations are equal.

Conflicts of Interest and Endorsements

The district will not purchase supplies or materials from a staff member of the school district, nor from a member of the household of the staff member unless the purchase follows the formal purchasing procedures.

Employees of the district:

- may not participate in the selection, award or administration of a contact if there is a real or apparent conflict of interest;
- Employees of the district will not endorse products or services in such a manner that will identify him/her as an employee of the district;
- In general, may neither solicit nor accept gratuities, favors or anything of monetary value from contractors or parties to subcontracts. However, the district may set standards for situations in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. DO WE NEED LAST SENTENCE?

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Based on the severity of any infraction, the penalties could include a written reprimand to the district member's personnel file, a suspension (with/without pay) or termination as determined by the Superintendent and Board of Education.

Affirmative Action

The school district shall not enter into any contract with a person, agency, or organization if it has knowledge that such person, agency or organization discriminates on the basis of race, color, religious creed, age, marital status, national origin, sex, sexual orientation, or physical handicap or disability, either in employment practices or in the provision of benefits or services to students or employees.

Legal Reference: Connecticut General Statutes

4a-60 Nondiscrimination and affirmative action provisions in contracts of the state and political subdivisions rather than municipalities

4a-60a Contracts of the state and political subdivisions, other than municipalities, to contain provisions re nondiscrimination on the basis of sexual orientation

[46a-58](#) through [46a-81](#) re discriminatory practices

Title VII, Civil Rights Act, 42 U.S.C. 2000e et seq. as amended by
Title IX, Equal Employment Opportunity Act

Title IX of the Education Amendments of 1972; 42 U.S.C. 1134n et
seq. (Higher Education Act)

Policy adopted: [October 15, 2013](#)

DERBY PUBLIC SCHOOLS

Derby, Connecticut

School Activity Fund

The Superintendent of Schools or his or her designee shall direct the maintenance of a school activity fund through which the following funds may be accounted:

- 1. That portion of the finances of school lunch programs not provided by town appropriations;
- 2. Driver education costs not provided by town appropriations;
- 3. Such funds of schools and school organizations approved by the Superintendent, including amounts received by gifts and donations;

The Board of Education Business Manager shall ~~designate a treasurer, who shall be bonded, to:~~

- 1. Maintain separate accounts within the activity fund for each school lunch program, for each driver education program, and for each school fund and each organization fund included in the fund;
- 2. Make expenditures from such fund in the manner prescribed and authorized by the Superintendent or his or her designee, provided the control of school funds and the funds of all school organizations shall remain in the name of the respective schools and organizations.

Gifts, grants, and bequests in cash or checks shall be deposited in the school activity fund and used for the educational benefit of students.

Class Accounts

- 1) Beginning with the class of 2019, the class account shall be brought to a zero balance by December 31 of the graduation year. The class may elect one of the following options for the expenditure of funds from the class account:
 - a) Work with the school administration to select and present a class gift;
 - b) Request movement of the funds to the Derby High School "General Scholarship" account to benefit future classes, or;
 - c) Work with the class advisor(s) and school administration to establish a trust account in the name of the graduating class – the funds from the closed class account shall no longer be part of the Derby High School activity funds and be managed separately by a class committee. If this option is selected, a letter from the bank stating an account has been established including the account number and names of officers on the account must be presented to the principal. A final disbursement to the trust account will be requested from the business office with the check sent directly to the bank for deposit into the trust account.

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The class officers shall select one of the options outlined above, complete the Form 3453 (Class Account Disbursement Form) and provide the form to the school principal and business manager. Any class account funds remaining on deposit after December 31 following the class graduation shall be permanently transferred to the Derby High School "General Scholarship" account.

2) For classes graduating prior to June 2019

- a) The class, upon its next reunion, shall be required to bring the class account balance to \$0. The Derby High School principal shall appoint a committee comprised of the class officers or, if the officers cannot be located, at least three (3) individuals of the class to arrange for final expenditure or transfer of the funds.
- b) The principal shall inform the committee of their class account balance.
- c) The committee shall attempt to notify each member of the graduated class of the final plan to disburse the class funds. The notice should include the names and contact information (phone and/or e-mail address) for the committee with a date for a final meeting to review and accept a plan.
- d) The committee, acting upon input from the graduating class, shall select one of the options outlined in Class Accounts section 1) and provide the completed Form 3453 to the school principal and business manager.

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The accounts of the school activity fund shall be considered town accounts and audited in the same manner as all other town accounts.

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- (cf. [1324](#) Soliciting Funds from and by Students)
 - (cf. [3280](#) Gifts, Grants, and Bequests)
 - (cf. [3432](#) Financial Records and Reports)
 - (cf. [3434](#) Periodic Audits)
 - (cf. 3534 Employee/Officer Bonds)
- Legal Reference: Connecticut General Statutes
[10-222a](#) Boards to have use of funds from repayment and insurance proceeds for school materials.
[10-237](#) School activity funds.

Policy adopted: ~~October 15, 2013~~ [April xx, 2019](#)

DERBY PUBLIC SCHOOLS
Derby, Connecticut

DERBY PUBLIC SCHOOLS

Derby, Connecticut

School Activity Fund – Class Account Disbursement Request

Graduating Class Year: _____

Fund Balance: \$ _____.

Disbursement options (check one):

Provide class gift to Derby High School

Transfer funds to Derby High School General Scholarship Fund

Disburse funds to specified bank trust account (letter attached from bank)

Institution: _____

Account #: _____

Names on account: _____

Approvals:

Class Officers

Printed / signed name / Date

Printed / signed name / Date

Printed / signed name / Date

Printed / signed name / Date

Derby High School Principal / Date

Derby Business Manager / Date

Students

P5144.1

Use of Physical Force

The Board of Education (Board) believes that maintaining an orderly, safe environment is conducive to learning and is an appropriate expectation of all staff members within the district. To the extent that staff actions comply with all applicable statutes and Board policy governing the use of physical force, including physical restraint of students and seclusion of students, staff members will have the full support of the Board of Education in their efforts to maintain a safe environment.

The Board recognizes that there are times when it becomes necessary for staff to use reasonable restraint or place a student in seclusion as an emergency intervention to protect a student from harming himself/herself or to protect others from harm.

Definitions

Life-threatening physical restraint means any physical restraint or hold of a person that restricts the flow of air into a person's lungs, whether by chest compression or any other means, or immobilizes or reduces the free movement of a person's arms, legs or head while the person is in the prone position.

Psychopharmacologic agent means any medication that affects the central nervous system, influencing thinking, emotion or behavior.

Physical restraint means any mechanical or personal restriction that immobilizes or reduces the free movement of a person's arms, legs or head. Excluded from this definition is briefly holding a person in order to calm or comfort the person; restraint involving the minimum contact necessary to safely escort a person from one area to another; medical devices including but not limited to, supports prescribed by a health care provider to achieve proper body position or balance; helmets or other protective gear used to protect a person from injuries due to a fall; or helmets, mitts and similar devices used to prevent self-injury when the device is part of a documented treatment plan or individualized education program pursuant to Connecticut's special education laws or prescribed or recommended by a medical professional and is the least restrictive means to prevent such self-injury.

School employee means a teacher, substitute teacher, school administrator, Superintendent, guidance counselor, psychologist, social worker, nurse, physician, school paraprofessional, or coach employed by the Board of Education or working in a public elementary, middle or high school; or any other individual who, in the performance of his/her duties has regular contact with students and who provides services to or on behalf of students enrolled in the district's schools, pursuant to a contract with the board of education.

Seclusion means the involuntary confinement of a student in a room, with or without staff supervision, in a manner that prevents the student from leaving. Seclusion does not include an exclusionary time out.

Exclusionary time out means a temporary, continuously monitored separation of a student from an ongoing activity in a non-locked setting, for the purpose of calming such student or deescalating such student's behavior.

Student means a child (A) enrolled in grades kindergarten to twelve, inclusive, in a public school under the jurisdiction of a local or regional Board of Education, (B) receiving special education and related services in an institution or facility operating under contract with a local or regional Board of Education, (C) enrolled in a program or school administered by a regional education service center, or (D) receiving special education and related services from an approved private special education program, but shall not include any child receiving educational services from Unified School District #2 or the Department of Mental Health and Addiction Services.

Conditions Pertaining to the Use of Physical Restraint and/or Seclusion

- A. School employees shall not use a life-threatening physical restraint on a student.
- B. If any instance of physical restraint or seclusion of a student exceeds fifteen minutes an administrator or his/her designee, or a school health or mental health personnel, or a board certified behavioral analyst, who has received training in the use of physical restraint and seclusion shall determine whether continued physical restraint or seclusion is necessary to prevent immediate or imminent injury to the student or to others. Upon a determination that such continued physical restraint or seclusion is necessary, such individual shall make a new determination every thirty minutes thereafter regarding whether such physical restraint or seclusion is necessary to prevent immediate or imminent injury to the student or to others.
- C. No student shall be placed in seclusion unless:
 - a. The use of seclusion is as an emergency intervention to prevent immediate or imminent injury to the student or to others, provided the seclusion is not used for discipline or convenience and is not used as a substitute for a less restrictive alternative.
 - b. Such student is continually monitored by a school employee during the period of such student's seclusion. Any student voluntarily or involuntarily placed in seclusion or restrained shall be regularly evaluated by a school employee for indications of physical distress. The school employee conducting the evaluation shall enter each evaluation in the student's educational record. Monitor shall mean by direct observation or by observation using video monitoring within physical proximity sufficient to provide aid as may be required.
 - c. The area in which such student is secluded is equipped with a window or other fixture allowing the student a clear line of sight beyond the area of seclusion.

d. Seclusion shall not be utilized as a planned intervention in a student's behavioral intervention plan, individualized education program or plan pursuant to Section 504 of the Rehabilitation Act of 1973, as amended from time to time.

D. School employees may not use a psychopharmacologic agent on a student without that student's consent except (1) as an emergency intervention to prevent immediate or imminent injury to the student or to others, or (2) as an integral part of the student's established medical or behavioral support or educational plan, as developed consistent with Section 17a-543 of the Connecticut General Statutes or, if no such plan has been developed, as part of a licensed practitioner's initial orders. The use of psychopharmacologic agents, alone or in combination, may be used only in doses that are therapeutically appropriate and not as a substitute for other appropriate treatment.

E. In the event that physical restraint or seclusion is used on a student four or more times within twenty school days:

a. ~~An~~ An administrator, one or more of such student's teachers, the parent/guardian of such student and, if any, a mental health professional shall convene for the purpose of:

- i. Conducting or revising a behavioral assessment of the student;
- ii. Creating or revising any applicable behavioral intervention plan; and
- iii. Determining whether such student may require special education.

b. If such student is a child requiring special education or is a child being evaluated for eligibility for special education and awaiting a determination, such student's planning and placement team shall convene for the purpose of (1) conducting or revising a behavioral assessment of the student, and (2) creating or revising any applicable behavioral intervention plan, including, but not limited to, such student's individualized education plan.

F. The parent/guardian of a student who is placed in physical restraint or seclusion shall be notified not later than twenty-four hours after the student is placed in physical restraint or seclusion. A reasonable effort shall be made to provide such notification immediately after such physical restraint or seclusion is initiated.

G. School employees shall not use a physical restraint on a student or place a student in seclusion unless he/she has received training on the proper means for performing such physical restraint or seclusion.

H. ~~Beginning July 1, 2016, T~~he Board of Education, and each institution or facility operating under contract with the Board to provide special education for children, including any approved private special education program, shall:

- a. Record each instance of the use of physical restraint or seclusion on a student;

b. Specify whether the use of seclusion was in accordance with an individualized education program;

c. Specify the nature of the emergency that necessitated the use of such physical restraint or seclusion; and

d. Include such information in an annual compilation on its use of such restraint and seclusion on students.

I. The Board and institutions or facilities operating under contract with the Board to provide special education for children, including any approved private special education program shall provide such annual compilation to the Department of Education in order to examine incidents of physical restraint and seclusion in schools.

J. Any use of physical restraint or seclusion on a student shall be documented in the student's educational record. The documentation shall include:

a. The nature of the emergency and what other steps, including attempts at verbal deescalation, were taken to prevent the emergency from arising if there were indications that such an emergency was likely to arise; and

b. A detailed description of the nature of the restraint or seclusion, the duration of such restraint or seclusion and the effect of such restraint or seclusion on the student's established educational plan.

K. Any incident of the use of restraint or seclusion that results in physical injury to a student shall be reported to the State Board of Education.

Required Training and Prevention Training Plan

Training shall be provided by the Board to the members of the crisis intervention team for each school in the district. The Board may provide such training to any teacher, administrator, school professional or other school employee, designated by the school principal and who has direct contact with students regarding physical restraint and seclusion of students. ~~school professionals, paraprofessional staff members and administrators regarding physical restraint and seclusion of students.~~ Such training shall be provided during the school year commencing July 1, 2017 and each school year thereafter, and shall include, but not be limited to: ~~based in over a period of three years beginning with the school year commencing July 1, 2015, and shall include, but not be limited to:~~

1. An overview of the relevant laws and regulations regarding the use of physical restraint and seclusion on students. *(Such overview is to be provided by the Department of Education commencing July 1, 2017 on or after July 1, 2015, and annually thereafter, in a manner and form as prescribed by the Commissioner of Education.)*

2. The creation of a plan by which the Board will provide training regarding the prevention of incidents requiring physical restraint or seclusion of students. ~~school professionals, paraprofessional staff members and administrators with training and professional development regarding the prevention of incidents requiring physical restraint or seclusion of students.~~

Such plan is to be implemented not later than July 1, 2018, ~~7,~~ and must include a provision to require the training of all school professionals, paraprofessional staff members and administrators in the prevention of such incidents not later than July 1, 2019 and periodically thereafter as prescribed by the Commissioner of Education.

3. The Board will create a plan, to be implemented not later than July 1, 2018, ~~7,~~ requiring the training of all school professionals, paraprofessional staff members and administrators by regarding the proper means of physically ~~r~~restraining or secluding a student, including, but not limited to:

a. ~~Various types of physical restraint and seclusion;~~ Verbal defusing and de-escalation;

b. ~~The differences between life-threatening physical restraint and other varying levels of physical restraint;~~ Prevention strategies;

c. Various types of physical restraint and seclusion;

d. The differences between life-threatening physical restraint and other varying levels of physical restraint; permissible physical restraint and pain compliance techniques; and

de. The differences between permissible physical restraint and pain compliance techniques; and

f. Monitoring methods to prevent harm to a student who is physically restrained or in seclusion, including training in the proper means of physically restraining or secluding a student.

g. Recording and reporting procedures on the use of physical restraint and seclusion.

Crisis Intervention Teams

For the school year commencing July 1, 2017 and each school year thereafter, the Board requires each school in District to identify a crisis intervention team. By July 1, 2015, and each school year thereafter, the Board requires each school in the District to identify a crisis intervention team. Such team shall consist of any teacher, administrator, school professional or other school employee designated by the school principal and who has direct contact with student and trained in the use of physical restraint and seclusion. ~~school professionals, paraprofessional staff members and administrators trained in the use of physical restraint and seclusion.~~

Such teams shall respond to any incident in which the use of physical restraint or seclusion may be necessary as an emergency intervention to prevent immediate or imminent injury to a student or to others.

Each member of the crisis intervention team shall be recertified in the use of physical restraint and seclusion on an annual basis. The Board shall maintain a list of the members of the crisis intervention team for each student.

Not later than January 2, 2019, the Board establishes this portion of this policy regarding the use of an exclusionary time out, as defined in this policy. This policy regarding exclusionary time outs includes, but need not be limited to, the following requirements:

1. Exclusionary time outs are not to be used as a form of discipline;
2. At least one school employee remain with the student, or be immediately available to the student such that the student and school employee are able to communicate verbally, throughout the exclusionary time out.
3. The space used for an exclusionary time out is clean, safe, sanitary and appropriate for the purpose of calming such student or deescalating such student's behavior;
4. The exclusionary time out period terminate as soon as possible; and
5. If such student is a child requiring special education, as defined in C.G.S. 10-76a, or a child being evaluated for special education, pursuant to C.G.S. 10-76d, and awaiting a determination, and the interventions or strategies are unsuccessful in addressing such student's problematic behavior, such student's planning and placement team shall convene as soon as is practicable to determine alternative interventions or strategies.

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Dissemination of Policy

This policy and its procedures shall be made available on the District's website and in the Board's procedural manual. The policy shall be updated not later than sixty (60) days after the adoption or revision of regulations promulgated by the State Board of Education.

(cf. [4148/4248](#) - Employee Protection)

(cf. 5141.23 - Students with Special Health Care Needs)

(cf. 5144.2 – Use of Exclusionary Time Out Settings)

Legal Reference: Connecticut General Statutes

- [10-76b](#) State supervision of special education programs and services.
- [10-76d](#) Duties and powers of boards of education to provide special education programs and services.
- [10-236b](#) Physical restraint and seclusion of students by school employees. (as amended by PA 17-220 and PA 18-51)

[46a-150](#) Definitions. (as amended by PA 07-147 and PA 15-141)

[46a-152](#) Physical restraint, seclusion and use of psychopharmacologic agents restricted. Monitoring and documentation required.

[46a-153](#) Recording of use of restraint and seclusion required. Review of records by state agencies. Reviewing state agency to report serious injury or death to Office of Protection and Advocacy for Persons with Disabilities and to ~~OO~~Office of Child Advocate. (as amended by PA 12-88)

[53a-18](#) Use of reasonable physical force or deadly physical force generally.

[53a-19](#) Use of physical force in defense of person.

[53a-20](#) Use of physical force in defense of premises.

[53a-21](#) Use of physical force in defense of property.

PA 07-147 An Act Concerning Restraints and Seclusion in Public Schools.

PA 15-141 An Act Concerning Seclusion and Restraint in Schools.

State Board of Education Regulations Sections [10-76b-5](#) through [10-76b-11](#).

Policy adopted: April 20, 2017

DERBY PUBLIC SCHOOLS

Derby, Connecticut

Confidential Board of Education Only

Derby Public Schools

3/21/2019

Administrator Appointments

Position	School	Salary	Certification	Posting	Funding Source (s)	Recommended	replacing	Salary	Start Date	Candidate	Salary Delta	Bio
Faculty Appointments												
Position	School	Salary	Certification	Posting	Funding Source (s)	Recommended	replacing	Salary	Start Date	Candidate	Salary Delta	Bio
Support Staff Appointments **												
Position	School	Salary	Certification	Posting	Funding Source (s)	Recommended	replacing	Salary	Start Date	Candidate	Salary Delta	Bio
											-\$3,332.00	

** Support staff appointments have been made by the Superintendent in keeping with Board Policy 4212 to and with the Personnel Protocol adopted by the Board on January 21, 2010 / No further action on the part of the Board is required

Recommended Coaching Appointments ***

Position	School	Salary	Certification	Posting	Funding Source (s)	Recommended	replacing	Salary	Start Date	Candidate	Salary Delta	Bio
Baseball Coach	Derby Middle School	Stipend \$1,350.00	Coaches Certification		Operating Fund	M. Bradshaw		\$1,350.00	3/25/19	Joshua Dydyn		
Volunteer Baseball Coach	Derby High School	No Stipend	Coaches Certification		n/a	M. Bradshaw		0	3/11/19	Frank Eisenach-Fedak		

*** The Athletic Director is responsible for seeing to it that all coaches are properly certified for a period covering the entire season prior to the first practice.

Recommended Coaching Rehires ***

Position	School	Salary	Certification	Posting	Funding Source (s)	Recommended	replacing	Salary	Start Date	Candidate	Salary Delta	Bio
Boys Outdoor Track Coach	Derby Middle School	Stipend \$1,350.00	Coaches Certification		Operating Fund	M. Bradshaw		\$1,350.00	2/11/19	Jennifer Andrews		
Girls Outdoor Track Coach	Derby Middle School	Stipend \$1,350.00	Coaches Certification		Operating Fund	M. Bradshaw		\$1,350.00	2/11/19	Michael Gozzo		
Softball Coach	Derby High School	Stipend \$5,638.00	Coaches Certification		Operating Fund	M. Bradshaw		\$5,638.00	2/11/19	Joseph DiMartino		
Outdoor Track Coach	Derby High School	Stipend \$5,638.00	Coaches Certification		Operating Fund	M. Bradshaw		\$5,638.00	2/15/19	Nicholas DiLuggo		
Asst. Baseball Coach	Derby High School	Stipend \$4,364.00	Coaches Certification		Operating Fund	M. Bradshaw		\$4,364.00	3/18/19	Adam Baker		
Asst. Outdoor Track Coach	Derby High School	Stipend \$4,364.00	Coaches Certification		Operating Fund	M. Bradshaw		\$4,364.00	3/18/19	Lucia Hanock		
Baseball Coach	Derby High School	Stipend \$5,638.00	Coaches Certification		Operating Fund	M. Bradshaw		\$5,638.00	2/11/19	Steven Bainer		
Volunteer Baseball Coach	Derby High School	No Stipend	Coaches Certification		n/a	M. Bradshaw		0	2/11/19	Julian Sobin		
Volunteer Softball Coach	Derby High School	No Stipend	Coaches Certification		n/a	M. Bradshaw		0	2/11/19	Jennifer Moffat		
Softball Coach	Derby Middle School	Stipend \$1,350.00	Coaches Certification		Operating Fund	M. Bradshaw		\$1,350.00	2/11/19	Shawn Hayden		
											-\$3,332.00	
											-\$80,786.65	

Confidential Board of Education Only								
Derby Public Schools								
3/21/2019								
Administrator Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing
Facilities Manager	District	TBD		1/7/2019	Posted	Operating	M. Izzo	D. Nardone
Faculty Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing
Math Intervention	DHS	DEA Salary Scale	029 Certification	06/04/2018	Posted	School Improvement Grant - DHS Math	M. Pascale	K. Mihovik resigned
SPED Coach K-3 Literacy	Irving & Bradley	DEA Salary Scale	165 Certification	06/09/2018	Posted	Alliance Grant	S. Sheridan	New Position
Speech Pathologist (LT sub)	Various	DEA Salary Scale	061 Certification	1/10/2019	Posted	Operating		
Talented & Gifted Teacher	Various	DEA Salary Scale	165 Certification	1/16/2019	Posted	Alliance Grant	J. Olson	New Position
Special Education Teacher	DHS	DEA Salary Scale	165 Certification	1/16/19	Posted	Operating / IDEA	M. Pascale	P. Martin
Support Staff Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing
School Security Officer (0.5 FTE)	District	\$20.00 / hr	Law Enforcement	07/27/2018	Posted	E-Rate Rebates	M. Conway	New position
Guidance Secretary (.5)	DMS	\$22.81 / hr	n/a	02/11/2019		Operating Account	R. Caggiano	C. Smarz resigned
Substitute Nurses	District	\$125 per diem	Nurse Certification	09/12/2018	Re-Posted	Operating Account	F. Mengold	need nurse subs.
Paraprofessional	DMS	\$14.25 / hr	Parapro	1/4/2019	Posted	Operating Account	S. Sheridan	S. Jayana
School Climate Specialist	Irving	\$17.00/hr	n/a	2/27/19	Posted	Operating Account	A. Misset	New position
Coaching Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing

Kenya Barrett

932 Hancock Avenue
Bridgeport, CT 06605
203-685-6109
Barrett.kenya@gmail.com

March 14, 2019

Jim Burns
Derby Board of Education
35 Fifth Street
Derby, CT 06418

Dear Mr. Burns,

I would like to notify you that I am resigning from my position as Secretary to the Special Education Director at Derby Public Schools effective March 14th.

Thank you very much for the opportunity you've given me to learn all about special education. I have genuinely enjoyed my time with the company, and I believe the experience has taught me much about education overall.

Sincerely,

Kenya Barrett

Confidential Board of Education Only								
Derby Public Schools								
3/21/2019								
Administrator Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing
Facilities Manager	District	TBD		1/7/2019	Posted	Operating	M. Izzo	D. Nardone
Faculty Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing
Math Intervention	DHS	DEA Salary Scale	029 Certification	06/04/2018	Posted	School Improvement Grant - DHS Math	M. Pascale	K. Mihovik resigned
SPED Coach K-3 Literacy	Irving & Bradley	DEA Salary Scale	165 Certification	06/09/2018	Posted	Alliance Grant	S. Sheridan	New Position
Speech Pathologist (LT sub)	Various	DEA Salary Scale	061 Certification	1/10/2019	Posted	Operating		
Talented & Gifted Teacher	Various	DEA Salary Scale	165 Certification	1/16/2019	Posted	Alliance Grant	J. Olson	New Position
Special Education Teacher	DHS	DEA Salary Scale	165 Certification	1/16/19	Posted	Operating / IDEA	M. Pascale	P. Martin
Support Staff Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing
School Security Officer (0.5 FTE)	District	\$20.00 / hr	Law Enforcement	07/27/2018	Posted	E-Rate Rebates	M. Conway	New position
Guidance Secretary (.5)	DMS	\$22.81 / hr	n/a	02/11/2019		Operating Account	R. Caggiano	C. Smarz resigned
Substitute Nurses	District	\$125 per diem	Nurse Certification	09/12/2018	Re-Posted	Operating Account	F. Mengold	need nurse subs.
Paraprofessional	DMS	\$14.25 / hr	Parapro	1/4/2019	Posted	Operating Account	S. Sheridan	S. Jayana
School Climate Specialist	Irving	\$17.00/hr	n/a	2/27/19	Posted	Operating Account	A. Misset	New position
Coaching Vacancies								
Position	School	Salary	Certification	Posting Date	Status	Funding Source (s)	Recommended	replacing



DERBY PUBLIC SCHOOLS
ENROLLMENT REPORT
3/21/2019

Grade	LRU	Bradley	Irving	DMS	DHS	RAISE	TOTALS
PreK	47						47
Kdg.		38	48				86
1		40	54				94
2		40	50				90
3		37	52				89
4		36	62				98
5		56	59				115
6				121			121
7				128		5	128
8				101		3	101
9					80	3	80
10					87	2	87
11					86	3	86
12					71	2	71
Totals	47	247	325	350	324	18	1293



School: Little Raiders University **Term:** 18-19 Year

Enrollment Summary: Scheduling/Reporting Ethnicity as of 03/21/2019 (R)

Little Raiders University

View:

Scheduling/Reporting Ethnicity

Students:

- All Active Enrollments
 Current Selection

Date:

03/21/2019

Grade Level	Total in Grade	American Indian	Asian/Pacific Island	African-American	Caucasian	Hispanic	Unclassified
-2	18 13 / 5	0 0 / 0	0 0 / 0	4 4 / 0	4 3 / 1	8 5 / 3	2 1 / 1
-1	29 19 / 10	0 0 / 0	1 0 / 1	8 5 / 3	7 4 / 3	7 6 / 1	6 4 / 2
Total	47 32 / 15	0 0 / 0	1 0 / 1	12 9 / 3	11 7 / 4	15 11 / 4	8 5 / 3

The Scheduling/Reporting Ethnicity view displays student ethnicity data that is used in scheduling and preconfigured reporting. See the help for more information.

Legend

Icons - Date Entry



School: Bradley School Term: 18-19 Year

Enrollment Summary: Scheduling/Reporting Ethnicity as of 03/21/2019 (R)

Bradley School

View:

Scheduling/Reporting Ethnicity

Students:

All Active Enrollments

Current Selection

Date:

03/21/2019

Grade Level	Total in Grade	American Indian	Asian/Pacific Island	African-American	Caucasian	Hispanic	Unclassified
0	38 18 / 20	0 0 / 0	0 0 / 0	2 2 / 0	10 4 / 6	13 7 / 6	13 5 / 8
1	40 27 / 13	0 0 / 0	1 1 / 0	6 4 / 2	14 12 / 2	13 6 / 7	6 4 / 2
2	40 20 / 20	0 0 / 0	2 2 / 0	8 2 / 6	17 8 / 9	10 6 / 4	3 2 / 1
3	37 18 / 19	0 0 / 0	2 0 / 2	11 7 / 4	14 7 / 7	9 4 / 5	1 0 / 1
4	36 19 / 17	0 0 / 0	0 0 / 0	4 2 / 2	25 14 / 11	6 3 / 3	1 0 / 1
5	56 32 / 24	0 0 / 0	4 3 / 1	9 5 / 4	30 15 / 15	11 8 / 3	2 1 / 1
Total	247 134 / 113	0 0 / 0	9 6 / 3	40 22 / 18	110 60 / 50	62 34 / 28	26 12 / 14

The Scheduling/Reporting Ethnicity view displays student ethnicity data that is used in scheduling and preconfigured reporting. See the help for more information.

Legend

Icons  - Date Entry



School: Irving School Term: 18-19 Year

Enrollment Summary: Scheduling/Reporting Ethnicity as Irving School of 03/21/2019 (R)

View: Scheduling/Reporting Ethnicity Students: All Active Enrollments Current Selection Date: 03/21/2019

Grade Level	Total in Grade	American Indian	Asian/Pacific Island	African-American	Caucasian	Hispanic	Unclassified
0	48 34 / 14	0 0 / 0	0 0 / 0	8 7 / 1	11 8 / 3	16 11 / 5	13 8 / 5
1	54 19 / 35	0 0 / 0	1 1 / 0	8 2 / 6	20 8 / 12	16 4 / 12	9 4 / 5
2	50 29 / 21	0 0 / 0	0 0 / 0	15 10 / 5	8 4 / 4	23 12 / 11	4 3 / 1
3	52 25 / 27	0 0 / 0	2 2 / 0	11 2 / 9	13 7 / 6	18 9 / 9	8 5 / 3
4	62 33 / 29	1 1 / 0	0 0 / 0	15 10 / 5	19 10 / 9	21 9 / 12	6 3 / 3
5	59 33 / 26	0 0 / 0	2 2 / 0	11 5 / 6	12 6 / 6	27 15 / 12	7 5 / 2
Total	325 173 / 152	1 1 / 0	5 5 / 0	68 36 / 32	83 43 / 40	121 60 / 61	47 28 / 19

The Scheduling/Reporting Ethnicity view displays student ethnicity data that is used in scheduling and preconfigured reporting. See the help for more information.

Legend

Icons - Date Entry



School: Derby Middle School Term: 18-19 Year

Enrollment Summary: Scheduling/Reporting Ethnicity as of 03/21/2019 (D)

Derby Middle School

View: Scheduling/Reporting Ethnicity **Students:** All Active Enrollments Current Selection **Date:** 03/21/2019

Grade Level	Total in Grade	American Indian	Asian/Pacific Island	African-American	Caucasian	Hispanic	Unclassified
6	121 63 / 58	0 0 / 0	3 1 / 2	31 22 / 9	43 19 / 24	44 21 / 23	0 0 / 0
7	128 62 / 66	0 0 / 0	4 2 / 2	21 8 / 13	54 26 / 28	49 26 / 23	0 0 / 0
8	101 51 / 50	0 0 / 0	6 2 / 4	20 11 / 9	51 30 / 21	24 8 / 16	0 0 / 0
Total	350 176 / 174	0 0 / 0	13 5 / 8	72 41 / 31	148 75 / 73	117 55 / 62	0 0 / 0

The Scheduling/Reporting Ethnicity view displays student ethnicity data that is used in scheduling and preconfigured reporting. See the help for more information.

Legend

Icons - Date Entry



School: Derby High School **Term:** 18-19 Year

Enrollment Summary: Scheduling/Reporting Ethnicity as of 03/21/2019 (R)

Derby High School

View:

Scheduling/Reporting Ethnicity

Students:

- All Active Enrollments
 Current Selection

Date:

03/21/2019

Grade Level	Total in Grade	American Indian	Asian/Pacific Island	African-American	Caucasian	Hispanic	Unclassified
9	80 44 / 36	0 0 / 0	1 0 / 1	17 11 / 6	37 21 / 16	21 11 / 10	4 1 / 3
10	87 47 / 40	0 0 / 0	1 1 / 0	16 9 / 7	42 22 / 20	25 13 / 12	3 2 / 1
11	86 41 / 45	0 0 / 0	4 2 / 2	17 10 / 7	44 18 / 26	21 11 / 10	0 0 / 0
12	71 43 / 28	0 0 / 0	0 0 / 0	13 8 / 5	36 24 / 12	20 11 / 9	2 0 / 2
Total	324 175 / 149	0 0 / 0	6 3 / 3	63 38 / 25	159 85 / 74	87 46 / 41	9 3 / 6

The Scheduling/Reporting Ethnicity view displays student ethnicity data that is used in scheduling and preconfigured reporting. See the help for more information.

Legend

Icons - Date Entry



School: RAISE Academy Term: 18-19 Year

Enrollment Summary: Scheduling/Reporting Ethnicity as of 03/21/2019 (R)

RAISE Academy

View: Scheduling/Reporting Ethnicity Students: All Active Enrollments Current Selection Date: 03/21/2019

Grade Level	Total in Grade	American Indian	Asian/Pacific Island	African-American	Caucasian	Hispanic	Unclassified
7	5 3/2	0 0/0	0 0/0	2 1/1	2 2/0	1 0/1	0 0/0
8	3 3/0	0 0/0	0 0/0	2 2/0	0 0/0	1 1/0	0 0/0
9	3 1/2	0 0/0	0 0/0	1 0/1	2 1/1	0 0/0	0 0/0
10	2 2/0	0 0/0	0 0/0	1 1/0	1 1/0	0 0/0	0 0/0
11	3 2/1	0 0/0	0 0/0	0 0/0	2 1/1	1 1/0	0 0/0
12	2 0/2	0 0/0	0 0/0	0 0/0	1 0/1	1 0/1	0 0/0
Total	18 11/7	0 0/0	0 0/0	6 4/2	8 5/3	4 2/2	0 0/0

The Scheduling/Reporting Ethnicity view displays student ethnicity data that is used in scheduling and preconfigured reporting. See the help for more information.

Legend

Icons - Date Entry

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Derby Public Schools 2018-2019

Fiscal Year 2018 - 2019

Checks from 2/1/2019 through 2/28/2019

Vendor	Batch	Bank #	Bank Account#	Check Date	Check #	Amount	Run#	
43206	Amazon.com	AP AMX 1-19	9	37965124361100	2/6/2019	6707	\$282.91	50
48499	BJ's	AP AMX 1-19	9	37965124361100	2/6/2019	6708	\$70.16	50
53773	Hartford Current	AP AMX 1-19	9	37965124361100	2/6/2019	6709	\$15.15	50
64166	Intuit QB ONLINE	AP AMX 1-19	9	37965124361100	2/6/2019	6710	\$60.60	50
48601	NAEYC	AP AMX 1-19	9	37965124361100	2/6/2019	6711	\$150.00	50
64277	School Nutrition Association	AP AMX 1-19	9	37965124361100	2/6/2019	6712	\$15.00	50
494	Carlos Schweitzer, M.D.	AP AMX 1-19	9	37965124361100	2/6/2019	6713	\$1,100.00	50
43216	Stamps.com Inc.	AP AMX 1-19	9	37965124361100	2/6/2019	6714	\$673.87	50
59099	Stop & Shop	AP AMX 1-19	9	37965124361100	2/6/2019	6715	\$25.05	50
Total for Bank #: 9						\$2,392.74		
Total for Run #: 50						\$2,392.74		
2113	W. B. Mason	WB Amx 1-19	9	37965124361100	2/6/2019	6716	\$1,754.72	51
Total for Bank #: 9						\$1,754.72		
Total for Run #: 51						\$1,754.72		
2113	W. B. Mason	WB Mas 1-19	9	37965124361100	2/7/2019	6717	\$1,624.61	52
2113	W. B. Mason	WB Mas 1-19	9	37965124361100	2/7/2019	6718	\$1,674.36	52
Total for Bank #: 9						\$3,298.97		
Total for Run #: 52						\$3,298.97		
53978	American Airlines	AP Amx Jan	9	37965124361100	2/7/2019	6719	\$783.28	53
53742	AMEX Misc	AP Amx Jan	9	37965124361100	2/7/2019	6720	\$30.00	53
59154	Hotels.com	AP Amx Jan	9	37965124361100	2/7/2019	6721	\$102.47	53
Total for Bank #: 9						\$915.75		
Total for Run #: 53						\$915.75		
8644	All Star Transportation	AP 2-8-19	5	003852858449	2/8/2019	40401	\$59,995.62	54
44	Allen's Plumbing Supply Co.	AP 2-8-19	5	003852858449	2/8/2019	40402	\$150.40	54
759	City of Derby	AP 2-8-19	5	003852858449	2/8/2019	40403	\$255.60	54
30418	Committee for Children	AP 2-8-19	5	003852858449	2/8/2019	40404	\$459.00	54
167	CAS	AP 2-8-19	5	003852858449	2/8/2019	40405	\$50.00	54
43305	Carmine D'Onofrio	AP 2-8-19	5	003852858449	2/8/2019	40406	\$96.28	54
48577	Derby Food Services	AP 2-8-19	5	003852858449	2/8/2019	40407	\$189.00	54
36147	Veronica Dilullo	AP 2-8-19	5	003852858449	2/8/2019	40408	\$128.84	54
69335	Drunk Busters of America, LLC	AP 2-8-19	5	003852858449	2/8/2019	40409	\$208.00	54
69312	The Eagle Leasing Company	AP 2-8-19	5	003852858449	2/8/2019	40410	\$119.00	54
59132	Edgewood Press, Inc.	AP 2-8-19	5	003852858449	2/8/2019	40411	\$389.00	54
48690	Eversource	AP 2-8-19	5	003852858449	2/8/2019	40412	\$6,223.46	54
48645	Frontier Communications	AP 2-8-19	5	003852858449	2/8/2019	40413	\$41.39	54
266	General Muffler & Auto Supply Inc	AP 2-8-19	5	003852858449	2/8/2019	40414	\$962.94	54
43246	Kelly Services Inc.	AP 2-8-19	5	003852858449	2/8/2019	40415	\$6,146.00	54
48620	KidSense Therapy Group	AP 2-8-19	5	003852858449	2/8/2019	40416	\$36,272.50	54
53979	Lynn Langridge	AP 2-8-19	5	003852858449	2/8/2019	40417	\$23.20	54
18907	NCS Pearson	AP 2-8-19	5	003852858449	2/8/2019	40418	\$755.06	54
59035	New Haven Athletics	AP 2-8-19	5	003852858449	2/8/2019	40419	\$259.00	54
64187	Novus Insight, Inc.	AP 2-8-19	5	003852858449	2/8/2019	40420	\$1,376.00	54
48474	Paxton Patterson, LLC	AP 2-8-19	5	003852858449	2/8/2019	40421	\$7,530.91	54
492	School Specialty	AP 2-8-19	5	003852858449	2/8/2019	40422	\$103.56	54
64128	Spark Energy Gas, LLC	AP 2-8-19	5	003852858449	2/8/2019	40423	\$63.39	54
25050	The Children's Center of Hamden	AP 2-8-19	5	003852858449	2/8/2019	40424	\$2,250.00	54
38126	The Institute of Professional Practice,	AP 2-8-19	5	003852858449	2/8/2019	40425	\$31,500.00	54
67	Troy Industrial Solutions	AP 2-8-19	5	003852858449	2/8/2019	40426	\$90.40	54
59106	Winsupply of Shelton Co.	AP 2-8-19	5	003852858449	2/8/2019	40427	\$256.45	54
Total for Bank #: 5						\$155,895.00		

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Vendor	Batch	Bank #	Bank Account#	Check Date	Check #	Amount	Run#	
Total for Run #: 54						\$155,895.00		
16	ACES	AP 2-15-19	5	003852858449	2/14/2019	40428	\$72,701.60	55
16	ACES	AP 2-15-19	5	003852858449	2/14/2019	40429	\$15,923.10	55
16	ACES	AP 2-15-19	5	003852858449	2/14/2019	40430	\$53,297.30	55
693	Alexander's Hardware, Inc	AP 2-15-19	5	003852858449	2/14/2019	40431	\$167.20	55
30437	Automated Logic Contracting Svcs	AP 2-15-19	5	003852858449	2/14/2019	40432	\$1,389.00	55
24454	Boys & Girls Village, Inc.	AP 2-15-19	5	003852858449	2/14/2019	40433	\$72,390.00	55
119	Cooperative Education. Services	AP 2-15-19	5	003852858449	2/14/2019	40434	\$12,819.36	55
48577	Derby Food Services	AP 2-15-19	5	003852858449	2/14/2019	40435	\$137.00	55
69335	Drunk Busters of America, LLC	AP 2-15-19	5	003852858449	2/14/2019	40436	\$170.00	55
43356	Dugmore & Duncan Inc.	AP 2-15-19	5	003852858449	2/14/2019	40437	\$38.20	55
691	East River Energy	AP 2-15-19	5	003852858449	2/14/2019	40438	\$8,007.95	55
69340	EZ Flex, LLC	AP 2-15-19	5	003852858449	2/14/2019	40439	\$6,439.00	55
43443	Follett School Solutions, Inc.	AP 2-15-19	5	003852858449	2/14/2019	40440	\$104.33	55
2118	Hillyard Rovic Inc	AP 2-15-19	5	003852858449	2/14/2019	40441	\$314.95	55
53733	Horace Mann	AP 2-15-19	5	003852858449	2/14/2019	40442	\$20.25	55
43246	Kelly Services Inc.	AP 2-15-19	5	003852858449	2/14/2019	40443	\$2,713.65	55
43190	Lexia Learning Foundations Inc.	AP 2-15-19	5	003852858449	2/14/2019	40444	\$1,919.99	55
69289	Pat Mahoney Electric	AP 2-15-19	5	003852858449	2/14/2019	40445	\$1,500.00	55
48474	Paxton Patterson, LLC	AP 2-15-19	5	003852858449	2/14/2019	40446	\$188.74	55
53715	Paychex of New York LLC	AP 2-15-19	5	003852858449	2/14/2019	40447	\$753.46	55
53912	Peoples Transit	AP 2-15-19	5	003852858449	2/14/2019	40448	\$5,460.00	55
64157	PSAT 8/9	AP 2-15-19	5	003852858449	2/14/2019	40449	\$763.00	55
38056	PSAT/NMSQT	AP 2-15-19	5	003852858449	2/14/2019	40450	\$1,196.00	55
69321	Michael R Ricci	AP 2-15-19	5	003852858449	2/14/2019	40451	\$800.00	55
59027	Rocky Hill High School	AP 2-15-19	5	003852858449	2/14/2019	40452	\$125.00	55
491	School Nurse Supply Inc.	AP 2-15-19	5	003852858449	2/14/2019	40453	\$1,317.31	55
491	School Nurse Supply Inc.	AP 2-15-19	5	003852858449	2/14/2019	40454	\$6.32	55
492	School Specialty	AP 2-15-19	5	003852858449	2/14/2019	40455	\$2,817.76	55
43216	Stamps.com Inc.	AP 2-15-19	5	003852858449	2/14/2019	40456	\$192.74	55
18949	Staples	AP 2-15-19	5	003852858449	2/14/2019	40457	\$96.94	55
24269	TRC Lockbox	AP 2-15-19	5	003852858449	2/14/2019	40458	\$4,239.75	55
602	United Illuminating	AP 2-15-19	5	003852858449	2/14/2019	40459	\$40,631.35	55
625	Verizon Wireless	AP 2-15-19	5	003852858449	2/14/2019	40460	\$525.01	55
Total for Bank #: 5						\$309,166.26		
Total for Run #: 55						\$309,166.26		
8644	All Star Transportation	AP 2-22-19	5	003852858449	2/22/2019	40461	\$25,296.82	56
44	Allen's Plumbing Supply Co.	AP 2-22-19	5	003852858449	2/22/2019	40462	\$375.00	56
64145	American Chaircar Services, LLC	AP 2-22-19	5	003852858449	2/22/2019	40463	\$21,925.00	56
43416	Apple Store New haven	AP 2-22-19	5	003852858449	2/22/2019	40464	\$394.00	56
687	City of Derby	AP 2-22-19	5	003852858449	2/22/2019	40465	\$50,587.00	56
58970	CompuClaim	AP 2-22-19	5	003852858449	2/22/2019	40466	\$649.53	56
36170	Delta Education	AP 2-22-19	5	003852858449	2/22/2019	40467	\$298.24	56
25191	Advanced Corporate Networking, Inc.	AP 2-22-19	5	003852858449	2/22/2019	40468	\$616.00	56
69312	The Eagle Leasing Company	AP 2-22-19	5	003852858449	2/22/2019	40469	\$228.00	56
43407	East Haven Builders Supply	AP 2-22-19	5	003852858449	2/22/2019	40470	\$239.00	56
958	EastConn	AP 2-22-19	5	003852858449	2/22/2019	40471	\$8,075.00	56
43357	Electronic Security & Controls Inc.	AP 2-22-19	5	003852858449	2/22/2019	40472	\$4,029.50	56
43425	Flinn Scientific	AP 2-22-19	5	003852858449	2/22/2019	40473	\$196.94	56
266	General Muffler & Auto Supply Inc	AP 2-22-19	5	003852858449	2/22/2019	40474	\$49.04	56
69339	J. R Russo, LLC	AP 2-22-19	5	003852858449	2/22/2019	40475	\$1,350.00	56
64254	Jahnke Architecture	AP 2-22-19	5	003852858449	2/22/2019	40476	\$2,950.00	56
330	Jostens	AP 2-22-19	5	003852858449	2/22/2019	40477	\$20.06	56
43246	Kelly Services Inc.	AP 2-22-19	5	003852858449	2/22/2019	40478	\$3,922.91	56
64274	Klingberg Family Centers, Inc.	AP 2-22-19	5	003852858449	2/22/2019	40479	\$22,100.10	56

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Vendor	Batch	Bank #	Bank Account#	Check Date	Check #	Amount	Run#
69289	Pat Mahoney Electric	AP 2-22-19	5 003852858449	2/22/2019	40480	\$472.60	56
24453	People to Places, Inc.	AP 2-22-19	5 003852858449	2/22/2019	40481	\$19,506.25	56
24453	People to Places, Inc.	AP 2-22-19	5 003852858449	2/22/2019	40482	\$9,938.75	56
53912	Peoples Transit	AP 2-22-19	5 003852858449	2/22/2019	40483	\$1,470.00	56
64238	Scholastic Education	AP 2-22-19	5 003852858449	2/22/2019	40484	\$864.26	56
491	School Nurse Supply Inc.	AP 2-22-19	5 003852858449	2/22/2019	40485	\$220.04	56
492	School Specialty	AP 2-22-19	5 003852858449	2/22/2019	40486	\$26.60	56
53936	Select Physical Therapy, Inc	AP 2-22-19	5 003852858449	2/22/2019	40487	\$14,000.00	56
43442	Shelley Sheridan	AP 2-22-19	5 003852858449	2/22/2019	40488	\$137.60	56
19107	Social Studies School Service	AP 2-22-19	5 003852858449	2/22/2019	40489	\$35.85	56
38055	Standard Insurance Company	AP 2-22-19	5 003852858449	2/22/2019	40490	\$2,696.57	56
2557	TEAM, Inc	AP 2-22-19	5 003852858449	2/22/2019	40491	\$26,812.58	56
25050	The Children's Center of Hamden	AP 2-22-19	5 003852858449	2/22/2019	40492	\$19,893.93	56
588	Tower Equipment Company Inc.	AP 2-22-19	5 003852858449	2/22/2019	40493	\$197.20	56
67	Troy Industrial Solutions	AP 2-22-19	5 003852858449	2/22/2019	40494	\$225.75	56
48486	US Bank Equipment Finance	AP 2-22-19	5 003852858449	2/22/2019	40495	\$4,883.00	56
617	Valley Electric Supply Co.	AP 2-22-19	5 003852858449	2/22/2019	40496	\$605.80	56
59106	Winsupply of Shelton Co.	AP 2-22-19	5 003852858449	2/22/2019	40497	\$78.18	56
43228	Yale-Child Study Center	AP 2-22-19	5 003852858449	2/22/2019	40498	\$10,725.00	56
59070	Zangari Cohn Cuthbertson Duhl & Grell	AP 2-22-19	5 003852858449	2/22/2019	40499	\$2,828.95	56
Total for Bank #: 5						\$258,921.05	
Total for Run #: 56						\$258,921.05	
16	ACES	AP 2-28-19	5 003852858449	2/28/2019	40500	\$67,780.50	57
16	ACES	AP 2-28-19	5 003852858449	2/28/2019	40501	\$15,811.70	57
16	ACES	AP 2-28-19	5 003852858449	2/28/2019	40502	\$53,297.30	57
38189	ADMIN Partners LLC	AP 2-28-19	5 003852858449	2/28/2019	40503	\$37.50	57
80	Blanchette Sporting Goods	AP 2-28-19	5 003852858449	2/28/2019	40504	\$1,412.00	57
24454	Boys & Girls Village, Inc.	AP 2-28-19	5 003852858449	2/28/2019	40505	\$51,030.00	57
43373	CASBO	AP 2-28-19	5 003852858449	2/28/2019	40506	\$85.00	57
69353	Center for Children with Special Needs,	AP 2-28-19	5 003852858449	2/28/2019	40507	\$3,500.00	57
36138	ChimeNet Inc.	AP 2-28-19	5 003852858449	2/28/2019	40508	\$5,900.00	57
59047	COMPUCONN Computer Connections	AP 2-28-19	5 003852858449	2/28/2019	40509	\$4,993.60	57
119	Cooperative Education. Services	AP 2-28-19	5 003852858449	2/28/2019	40510	\$95,675.00	57
36170	Delta Education	AP 2-28-19	5 003852858449	2/28/2019	40511	\$67.14	57
19076	Department of Labor	AP 2-28-19	5 003852858449	2/28/2019	40512	\$11,876.77	57
48577	Derby Food Services	AP 2-28-19	5 003852858449	2/28/2019	40513	\$1,048.00	57
13705	Eric Armin Inc.	AP 2-28-19	5 003852858449	2/28/2019	40514	\$793.23	57
48690	Eversource	AP 2-28-19	5 003852858449	2/28/2019	40515	\$186.82	57
48645	Frontier Communications	AP 2-28-19	5 003852858449	2/28/2019	40516	\$50.82	57
69348	Future Pro Inc.	AP 2-28-19	5 003852858449	2/28/2019	40517	\$330.00	57
276	Gopher	AP 2-28-19	5 003852858449	2/28/2019	40518	\$209.19	57
2	Dina Gotowala	AP 2-28-19	5 003852858449	2/28/2019	40519	\$87.00	57
298	Home Depot	AP 2-28-19	5 003852858449	2/28/2019	40520	\$887.82	57
53786	Infoshred, LLC	AP 2-28-19	5 003852858449	2/28/2019	40521	\$18.00	57
43246	Kelly Services Inc.	AP 2-28-19	5 003852858449	2/28/2019	40522	\$3,096.04	57
30252	KONE Inc.	AP 2-28-19	5 003852858449	2/28/2019	40523	\$230.00	57
343	Lamotex Inc.	AP 2-28-19	5 003852858449	2/28/2019	40524	\$370.00	57
69314	Language Lizard LLC	AP 2-28-19	5 003852858449	2/28/2019	40525	\$499.85	57
53839	LifeBridge Community Services	AP 2-28-19	5 003852858449	2/28/2019	40526	\$150.00	57
19152	Angela Lillemoe	AP 2-28-19	5 003852858449	2/28/2019	40527	\$236.24	57
30258	Literacy How, Inc.	AP 2-28-19	5 003852858449	2/28/2019	40528	\$2,400.00	57
53866	Natures Classroom	AP 2-28-19	5 003852858449	2/28/2019	40529	\$2,800.00	57
64187	Novus Insight, Inc.	AP 2-28-19	5 003852858449	2/28/2019	40530	\$1,376.00	57
401	Nutmeg Time Inc.	AP 2-28-19	5 003852858449	2/28/2019	40531	\$115.00	57
402	Nutty Company Inc.	AP 2-28-19	5 003852858449	2/28/2019	40532	\$115.28	57

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Vendor	Batch	Bank #	Bank Account#	Check Date	Check #	Amount	Run#
53715	Paychex of New York LLC	AP 2-28-19	5 003852858449	2/28/2019	40533	\$755.62	57
825	Regional School District #14	AP 2-28-19	5 003852858449	2/28/2019	40534	\$3,411.40	57
25170	Sacred Heart University	AP 2-28-19	5 003852858449	2/28/2019	40535	\$7,800.00	57
25011	Shelton Printing LLC	AP 2-28-19	5 003852858449	2/28/2019	40536	\$80.00	57
64128	Spark Energy Gas, LLC	AP 2-28-19	5 003852858449	2/28/2019	40537	\$14,145.77	57
38126	The Institute of Professional Practice,	AP 2-28-19	5 003852858449	2/28/2019	40538	\$29,800.00	57
67	Troy Industrial Solutions	AP 2-28-19	5 003852858449	2/28/2019	40539	\$70.95	57
617	Valley Electric Supply Co.	AP 2-28-19	5 003852858449	2/28/2019	40540	\$489.49	57
Total for Bank #: 5						\$383,019.03	
Total for Run #: 57						\$383,019.03	
Total:						\$1,115,363.52	

CHECK TOTALS BY FUND WITHIN DATE RANGE

01	General Fund	\$931,142.00
02	Federal Grants - Current Year	\$117,655.47
03	State Grants	\$10,150.58
05	Food Service Funds	\$191.24
12	Federal Grants - Carry-Over Year	\$56,224.23
GRAND TOTAL		\$1,115,363.52

Discipline Logs - 2/15/2019 through 2/28/2019

Bradley School

ID	Grade	Inc Date	Inc Type	Action
10620	5	02/ 27/ 19	Insubordination/ Disrespect	Student Conference
10965	2	02/ 15/ 19	Disruptive Behavior	Student Conference
13607	2	02/ 21/ 19	Inappropriate behavior	Office Detention

Derby High School

ID	Grade	Inc Date	Inc Type	Action
12596	11	02/ 24/ 19	Skipping Class	After School Detention
14215	9	02/ 26/ 19	Serious Disorderly Conduct	ISS
1874	12	02/ 24/ 19	Skipping Class	After School Detention
1916	12	02/ 24/ 19	Skipping Class	After School Detention
3371	10	02/ 20/ 19	Disruptive Behavior	After School Detention
10317	12	02/ 22/ 19	Serious Disorderly Conduct	OSS
9858	12	02/ 25/ 19	Accumulation of demerits	ISS
3845	9	02/ 26/ 19	Serious Disorderly Conduct	ISS
4049	9	02/ 25/ 19	Inappropriate behavior	ISS
3317	10	02/ 20/ 19	Fighting/ Altercation/ Phys Aggression	ISS
4422	9	02/ 28/ 19	Fighting/ Altercation/ Phys Aggression	ISS
12367	10	02/ 28/ 19	Fighting/ Altercation/ Phys Aggression	OSS
2619	11	02/ 22/ 19	Fighting/ Altercation/ Phys Aggression	ISS
2192	11	02/ 24/ 19	Skipping Class	After School Detention
2192	11	02/ 27/ 19	Failure to Attend Detention/ ISS	ISS
6812	11	02/ 22/ 19	Insubordination/ Disrespect	OSS
13919	9	02/ 26/ 19	Serious Disorderly Conduct	ISS
3360	10	02/ 20/ 19	Teasing	After School Detention
7562	9	02/ 26/ 19	Serious Disorderly Conduct	ISS
2762	11	02/ 22/ 19	Fighting/ Altercation/ Phys Aggression	ISS
3528	9	02/ 26/ 19	Serious Disorderly Conduct	ISS
19074	10	02/ 24/ 19	Skipping Class	After School Detention
3417	10	02/ 24/ 19	Skipping Class	After School Detention
3915	9	02/ 28/ 19	Fighting/ Altercation/ Phys Aggression	ISS
20074	9	02/ 28/ 19	Fighting/ Altercation/ Phys Aggression	ISS

Derby Middle School

ID	Grade	Inc Date	Inc Type	Action
8299	6	02/ 20/ 19	Tardiness	Student Conference
15377	7	02/ 15/ 19	Disruptive Behavior	Office Detention
11279	8	02/ 28/ 19	Insubordination/ Disrespect	Office Detention
7670	6	02/ 21/ 19	Skipping Class	Student Conference
5924	8	02/ 26/ 19	Disruptive Behavior	OSS
12585	6	02/ 25/ 19	Insubordination/ Disrespect	Office Detention
7869	7	02/ 21/ 19	Obscene Language/ Profanity	ISS
7685	6	02/ 20/ 19	Insubordination/ Disrespect	Office Detention
7685	6	02/ 26/ 19	Failure to Attend Detention/ ISS	Office Detention

5071	8	02/ 20/ 19	Skipping Class	Student Conference
11236	6	02/ 25/ 19	Threat/ Intimidate/ Verbal Harass	ISS
5410	6	02/ 25/ 19	Insubordination/ Disrespect	Office Detention
6386	7	02/ 22/ 19	Skipping Class	Student Conference
7813	6	02/ 22/ 19	Obscene Language/ Profanity	ISS
5193	8	02/ 25/ 19	Insubordination/ Disrespect	ISS
6937	7	02/ 15/ 19	Verbal Altercation	OSS
12599	7	02/ 15/ 19	Fighting/ Altercation/ Phys Aggression	OSS
12599	7	02/ 26/ 19	Inappropriate behavior	Student Conference
6385	7	02/ 20/ 19	Skipping Class	ISS
6398	7	02/ 22/ 19	Skipping Class	Student Conference
7214	8	02/ 21/ 19	Insubordination/ Disrespect	Office Detention
7817	6	02/ 22/ 19	Disruptive Behavior	Student Conference
7214	8	02/ 26/ 19	Unauthorized Area	ISS
7214	8	02/ 28/ 19	Insubordination/ Disrespect	ISS
11476	8	02/ 21/ 19	Battery Assault	OSS
15379	6	02/ 21/ 19	Physical Altercation	ISS
6382	6	02/ 15/ 19	Insubordination/ Disrespect	Office Detention
13716	6	02/ 20/ 19	Tardiness	Student Conference
9863	6	02/ 22/ 19	Disruptive Behavior	Student Conference
12579	8	02/ 26/ 19	Obscene Language/ Profanity	OSS
6918	8	02/ 26/ 19	Disruptive Behavior	OSS
13830	6	02/ 20/ 19	Insubordination/ Disrespect	ISS
13830	6	02/ 22/ 19	Disorderly Conduct	Office Detention
13830	6	02/ 25/ 19	Insubordination/ Disrespect	OSS
5562	8	02/ 21/ 19	Battery Assault	OSS
12571	6	02/ 21/ 19	Inappropriate behavior	Office Detention

Irving School

ID Irving	Grade	Inc Date	Inc Type	Action
13750	3	02/ 21/ 19	Disruptive Behavior	Behavior Intervention
19322	1	02/ 27/ 19	Obscene Language/ Profanity	Loss of privileges
9933	5	02/ 28/ 19	Disruptive Behavior	Lunch Detention
16462	2	02/ 21/ 19	Serious Disorderly Conduct	Loss of privileges
13817	1	02/ 26/ 19	Serious Disorderly Conduct	ISS
14976	0	02/ 15/ 19	Fighting/ Altercation/ Phys Aggression	Student Conference
14976	0	02/ 26/ 19	Inappropriate behavior	Student Conference

RAISE

ID	Grade	Inc Date	Inc Type	Action
12264	7	02/ 21/ 19	Physical Altercation	OSS
11480	10	02/ 22/ 19	Serious Disorderly Conduct	OSS