

Garland Independent School District

Board of Trustees

Regular Meeting

Tuesday, March 23, 2021

Agenda

5:00 PM

I. Call to Order and Determination of a Quorum

II. Pledges of Allegiance

III. Meetings of the Board of Trustees will be held in the Board Room, 601 S. Jupiter Garland, Texas 75042. Due to health concerns related to the COVID-19 coronavirus, members of the public may attend board meetings in the Garland/Rowlett Rooms of Harris Hill Administration Building with live streaming. Per TEA Guidance as referenced in Governor Abbott's Executive Order GA-34, everyone physically present must wear a face mask at all times and should practice six-foot social distancing.

IV. Public Forum: Members of the public who wish to make comments may complete a Public Comment Participation Request in person at Harris Hill Administration Building or via email at BoardPublicComments@garlandisd.net prior to the start of the meeting indicated in the posting notice. The emailed comments will be read aloud at the meeting by a designated speaker. Emails should include the requester's name, address and the detailed topic to be read aloud. In addition, comments must be limited to issues that can be presented in a public forum and are directly related to the posted and noticed agenda items. Complaints about student discipline, specific student issues or personnel must be addressed through appropriate administrative channels, in accordance with the Texas Open Meetings Act and Board policy. For more information about public comment procedures, please review the Board Policy for Public Comment accessible at the following link: <https://pol.tasb.org/Policy/Code/364?filter=BED>.

V. Information Items

- | | |
|--|---|
| A. Recognize Leadership Garland - Sherese Lightfoot | 4 |
| B. Evidence of Excellence | |
| 1. Recognize Texas Music Educators Association (TMEA) All-State Recipients - Joseph Figarelli | 5 |
| C. Going the Extra Mile (GEMs) | |
| 1. Recognize Going the Extra Mile (GEM) Recipient GRS-TV - Sherese Lightfoot | 6 |

D. Receive Information Regarding TxSSC Outstanding Individual Service Award Bestowed to Pat Lamb – Dr. Shelley Garrett	8
VI. Discussion Items	
A. Trustees' Report	10
1. Trustee attendance at recent district and community events	
2. Announcement of upcoming district and community events	
3. Recognition of outstanding performance by district staff and students	
4. Recognition of new programs and special activities	
5. Message from Board President	
B. Superintendent's Report	18
C. Future Agenda Items	20
VII. Consent Agenda - Consider approval of	
A. Human Resources Report	22
VIII. Action Item (Non Consent)	
A. Consider Approval of Waiver for Low Attendance - District Affairs Committee	25
B. Consider Approval of Waiver for Missed School Days - District Affairs Committee	31
C. Consider Approval of Budget Transfers and Amendments to the 2020-2021 General Fund and Student Nutrition Service Fund – Finance Committee	32
D. Consider Approval of Tax Refunds for Overpayments or Erroneous Payments – Finance Committee	37
E. Consider Approval of Job Order Contractor for HVAC Equipment and Fine Arts Acoustical Sound Panels for O'Banion Middle School Fine Arts Addition and Renovations (2014 Bond Program) – Facilities Committee	41
F. Consider Approval of Lakeview Centennial High School HVAC Ductwork Replacement Project – Facilities Committee	44
G. Consider Approval of Locations of Private Cellular Tower at Jackson Technology Center for Math and Science - Matt Yeager	84
H. New Bids	
1. Contract #215-21 – Consider Approval of Purchase of Maintenance General Trades Merchandise and Services– Finance Committee	106
2. Contract #321-21 Consider Approval of Purchase of PK Textbook Adoption – Finance Committee	112
I. Renewal Bids	
1. Contract #204-16 - Consider Extension of Test and Balance Services – Facilities Committee	116
J. Increase to Awarded Bids	
1. Contract #500-4.4-19 - Consider Approval of Increase in the Project Owner Contingency Amount for Coyle Middle School Fine Arts Addition and Renovations (2014 Bond Program) – Facilities Committee	119

IX. Executive Session: Executive session will be held for purposes permitted by Texas Open Meetings Act, Texas Government Code Section 551.001 et seq.

A. Pursuant to Texas Government Code Section 551.071, private consultation with the Board's attorney, in person or by phone, when the Board seeks the advice of its attorney about: 1) pending or contemplated litigation; 2) a settlement offer; or 3) on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with this chapter.

B. Pursuant to Texas Government Code Section 551.074, deliberation regarding the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; or to hear a complaint or charge against an officer or employee.

1. Consultation and deliberation regarding administrative recommendations including Director Communications.

X. Reconvene from Executive Session for action relative to items considered during Executive Session

A. Consideration and possible action regarding administrative recommendations including Director Communications.

XI. Adjournment



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Leadership Garland

Agenda Section: Information Item

Administrator Responsible: Sherese Lightfoot, Executive Director of Communications & Public Relations

Summary/Background Information:

Leadership Garland, Class 40, is spending the day virtually touring the district and learning all that Garland ISD has to offer its students and families, as well as the Garland, Rowlett and Sachse communities. Attending the Board of Trustees meeting is the final stop in their day of gaining knowledge about district opportunities and operations.

Administrative Recommendations:

For your information.



Garland Independent School District Board of Trustees

Date of Meeting:	March 23,2021
Agenda Item:	Evidence of Excellence Award
Agenda Section:	Information Items
Administrator Responsible:	Joseph Figarelli Director of Visual and Performing Arts
Board Goal Objective:	Superintendent Goal #4 & #6

Superintendent Goal #4 – Educational Leadership

The superintendent provides leadership and direction for an educational system that is based on desired student achievement.

Superintendent Goal #6 – Community Relations & Relationship Building

The superintendent maintains a positive and productive working relationship with District employees and the community.

Summary/Background Information:

Continuing a longstanding Garland ISD tradition, several high schoolers recently received the highest honor a Texas music student can receive. They bested competition across the state to earn a spot in one of 18 ALL-State bands, choirs and orchestras. While more than 70,000 students audition every year, just three percent achieve the coveted All-State title.

Administrative Recommendations:

Provided for your information only.



**Garland Independent School District
Board of Trustees**

Date of Meeting: March 23, 2021
Agenda Item: Going the Extra Mile (GEM) Recognition
Agenda Section: Information Item
Administrator Responsible: Sherese Lightfoot, Executive Director of Communications and Public Relations

Board Goal Objective:

OBJECTIVE A: EARLY LITERACY (Reading)

Percent of students in grade 3 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Reading.

OBJECTIVE B: EARLY LITERACY (Writing)

Percent of students in grade 4 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Writing.

OBJECTIVE C: ENGLISH LANGUAGE ACQUISITION

Percent of ELL students demonstrating English language acquisition, as measured by yearly progress indicator on the Texas English Language Proficiency Assessment System (TELPAS).

OBJECTIVE D: SCIENTIFIC UNDERSTANDING

Percent of students in grade 8 demonstrating scientific understanding as measured by Meets Grade Level performance on STAAR Science.

OBJECTIVE E: MATHEMATICAL PROFICIENCY

Percent of students demonstrating mathematical proficiency as measured by Meets Grade Level performance by the end of grade 9 on STAAR Algebra I EOC.

OBJECTIVE I: GRADUATION OUTCOMES

Percent of students successfully completing graduation and College, Career, Military Ready (CCM-R) requirements.

Superintendent's Goal:

Superintendent Goal #6 – Community Relations & Relationship Building

The superintendent maintains a positive and productive working relationship with District employees and the community.

Summary/Background Information: The Going the Extra Mile (GEM) recognition is a district acknowledgement of those outstanding Garland ISD employees who display superior commitment, innovation, leadership, work ethic, accomplishments and/or initiative.

Garland ISD GEM (Going the Extra Mile) Recognition is open to any GISD employee, and anyone can nominate an employee as a GEM. Those selected are notified and recognized at a GISD Board of Trustees meeting once a month.

The GRS-TV department, was nominated by Gina Makidon for going above and beyond every day to produce video content to support our district initiatives and showcase our students, staff, programs, schools and events.

Administrative Recommendation:

Provided for your consideration.



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Receive Information Regarding TxSSC Outstanding Individual Service Award Bestowed to Pat Lamb

Agenda Section: Information Item

Administrator Responsible: Dr. Shelley Garrett
Assistant Superintendent of Safety & Operations

Board Goal Objective:

OBJECTIVE I: GRADUATION OUTCOMES

Percent of students successfully completing graduation and College, Career, Military Ready (CCM-R) requirements.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

This report gives information regarding a prestigious safety recognition awarded to GISD's Director of Security by the Texas School Safety Center.

This agenda item was reviewed by the Facilities Committee on March 9, 2021.

Administrative Recommendations:

Provided for your information.



MEMO

Date: February 14, 2021

To: Board of Trustees

From: Shelley Garrett, Ed.D., Assistant Superintendent of Safety & Operations

RE: TxSSC Outstanding Individual Service Award Bestowed to Pat Lamb

Garland ISD was notified on February 12, 2021, that Pat Lamb will be recognized in the Texas School Safety Center's Safety Spotlight Program for the OUTSTANDING INDIVIDUAL SERVICE AWARD and will be featured in the upcoming TxSSC Newsletter, as well as on the TxSSC [Facebook](#) and [Twitter](#) pages.

The Outstanding Individual Service Award is bestowed upon an individual who has made a significant contribution to school safety and security through their personal initiative, commitment, strong advocacy efforts, and leadership. Behind the scenes, Mr. Lamb has been providing prudent security leadership in our school district and in our community since December 2014. He consistently ensures the safety of students, staff, visitors, and property 24 hours a day, seven days a week.



Garland Independent School District Board of Trustees

Date of Meeting:	March 23, 2021
Agenda Item:	Trustees' Report
Agenda Section:	Discussion Item
Administrator Responsible:	Dr. Ricardo López Superintendent
Board Goal Objective:	

OBJECTIVE A: EARLY LITERACY (Reading)

Percent of students in grade 3 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Reading.

OBJECTIVE B: EARLY LITERACY (Writing)

Percent of students in grade 4 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Writing.

OBJECTIVE C: ENGLISH LANGUAGE ACQUISITION

Percent of ELL students demonstrating English language acquisition, as measured by yearly progress indicator on the Texas English Language Proficiency Assessment System (TELPAS).

OBJECTIVE D: SCIENTIFIC UNDERSTANDING

Percent of students in grade 8 demonstrating scientific understanding as measured by Meets Grade Level performance on STAAR Science.

OBJECTIVE E: MATHEMATICAL PROFICIENCY

Percent of students demonstrating mathematical proficiency as measured by Meets Grade Level performance by the end of grade 9 on STAAR Algebra I EOC.

OBJECTIVE F: POSTSECONDARY READINESS (SAT Exams)

Percent of students demonstrating postsecondary readiness exam success, as measured by meeting college ready benchmarks through 11TH grade SAT School Day.

OBJECTIVE G: POSTSECONDARY READINESS (AP Exams)

Percent of students demonstrating postsecondary readiness exam success, as measured by AP exams with qualifying criterion scores.

OBJECTIVE H: STUDENT MANAGEMENT

Percent of discretionary exclusionary consequences as measured by ISS, OSS, and DAEP.

OBJECTIVE I: GRADUATION OUTCOMES

Percent of students successfully completing graduation and College, Career, Military Ready (CCM-R) requirements.

Superintendent Goal #1 – Student Results

Garland ISD will ensure ALL students graduate prepared for college, careers and life by increasing student performance measures, postsecondary readiness, and graduation rates and decreasing student management incidences.

Superintendent Goal #2 – Fiscal Responsibility

Ratings inputted for the Measured Analysis Goals are only a point of reference for trustee rating as each board member has the autonomy to change the rating. Measured Analysis Ratings will follow the state accountability factors for rounding.

Superintendent Goal #3 – Board Relations

The superintendent maintains a positive and productive working relationship with the board of trustees and the community.

Superintendent Goal #4 – Educational Leadership

The superintendent provides leadership and direction for an educational system that is based on desired student achievement.

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Superintendent Goal #6 – Community Relations & Relationship Building

The superintendent maintains a positive and productive working relationship with District employees and the community.

Summary/Background Information:

Trustees report to other trustees, the administrative staff and the public of activities that impact the Board's governance of the District. Trustees may report on the following subjects:

1. Trustee attendance at recent district and community events.
2. Announcement of upcoming district and community events.
3. Recognition of outstanding performance by district staff and students.
4. Recognition of new programs and special activities.
5. Message from Board President.

Administrative Recommendations:

For discussion.

March 22, 2021 - March 28, 2021

March 2021							April 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	

Monday, March 22

Tuesday, March 23

1:00pm - 4:00pm Board Workshop-Budget Workshop (Boardroom)

5:00pm - 7:00pm Board Meeting (Board Room) - Mechelle Hogan ↻

Wednesday, March 24

6:30pm - 8:00pm NTAASB Meeting (Virtual)

Thursday, March 25

Friday, March 26

Saturday, March 27

Sunday, March 28

March 29, 2021 - April 4, 2021

March 2021							April 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	

<p>Monday, March 29</p>	<p>Tuesday, March 30</p>
<p>Wednesday, March 31</p> <p><input type="checkbox"/> 11:30am - 12:30pm Safety and Security Committee Meeting (Boardroom)</p>	<p>Thursday, April 1</p>
<p>Friday, April 2</p> <p><input type="checkbox"/> Student/Staff Holiday</p>	<p>Saturday, April 3</p> <hr/> <p>Sunday, April 4</p> <p><input type="checkbox"/> Easter Day (United States)</p>

April 5, 2021 - April 11, 2021

April 2021						May 2021							
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2	3						1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

Monday, April 5

Tuesday, April 6

Wednesday, April 7

9:00am - 10:30am GISD Council PTA Meeting (TBD)

Thursday, April 8

Friday, April 9

Saturday, April 10

Sunday, April 11

April 12, 2021 - April 18, 2021

April 2021							May 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2 3							1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

<p>Monday, April 12</p>	<p>Tuesday, April 13</p> <ul style="list-style-type: none"> <input type="checkbox"/> 3:00pm - 3:50pm Facilities Committee Meeting (Board Room) - Mechelle Hogan <input type="checkbox"/> 4:00pm - 5:50pm Finance and Audit Committee Meeting (Board Room) - Mechelle Hogan <input type="checkbox"/> 6:00pm - 7:50pm District Affairs Committee Meeting (Board Room)
<p>Wednesday, April 14</p>	<p>Thursday, April 15</p> <ul style="list-style-type: none"> <input type="checkbox"/> Tax Day (United States)
<p>Friday, April 16</p>	<p>Saturday, April 17</p> <hr/> <p>Sunday, April 18</p>

April 19, 2021 - April 25, 2021

April 2021							May 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2 3							1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

Monday, April 19

Tuesday, April 20

Wednesday, April 21

Administrative Professionals Day (United States)

Thursday, April 22

Friday, April 23

Saturday, April 24

Sunday, April 25

April 26, 2021 - May 2, 2021

April 2021							May 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2 3							1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

<p>Monday, April 26</p>	<p>Tuesday, April 27</p> <p>5:00pm - 7:00pm Board Meeting (Board Room) - Mechelle Hogan </p>
<p>Wednesday, April 28</p>	<p>Thursday, April 29</p>
<p>Friday, April 30</p>	<p>Saturday, May 1</p> <hr/> <p>Sunday, May 2</p>



Garland Independent School District Board of Trustees

Date of Meeting:	March 23, 2021
Agenda Item:	Superintendent's Report
Agenda Section:	Discussion Item
Administrator Responsible:	Dr. Ricardo López Superintendent
Board Goal Objective:	

OBJECTIVE A: EARLY LITERACY (Reading)

Percent of students in grade 3 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Reading.

OBJECTIVE B: EARLY LITERACY (Writing)

Percent of students in grade 4 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Writing.

OBJECTIVE C: ENGLISH LANGUAGE ACQUISITION

Percent of ELL students demonstrating English language acquisition, as measured by yearly progress indicator on the Texas English Language Proficiency Assessment System (TELPAS).

OBJECTIVE D: SCIENTIFIC UNDERSTANDING

Percent of students in grade 8 demonstrating scientific understanding as measured by Meets Grade Level performance on STAAR Science.

OBJECTIVE E: MATHEMATICAL PROFICIENCY

Percent of students demonstrating mathematical proficiency as measured by Meets Grade Level performance by the end of grade 9 on STAAR Algebra I EOC.

OBJECTIVE F: POSTSECONDARY READINESS (SAT Exams)

Percent of students demonstrating postsecondary readiness exam success, as measured by meeting college ready benchmarks through 11TH grade SAT School Day.

OBJECTIVE G: POSTSECONDARY READINESS (AP Exams)

Percent of students demonstrating postsecondary readiness exam success, as measured by AP exams with qualifying criterion scores.

OBJECTIVE H: STUDENT MANAGEMENT

Percent of discretionary exclusionary consequences as measured by ISS, OSS, and DAEP.

OBJECTIVE I: GRADUATION OUTCOMES

Percent of students successfully completing graduation and College, Career, Military Ready (CCM-R) requirements.

Superintendent Goal #1 – Student Results

Garland ISD will ensure ALL students graduate prepared for college, careers and life by increasing student performance measures, postsecondary readiness, and graduation rates and decreasing student management incidences.

Superintendent Goal #2 – Fiscal Responsibility

Ratings inputted for the Measured Analysis Goals are only a point of reference for trustee rating as each board member has the autonomy to change the rating. Measured Analysis Ratings will follow the state accountability factors for rounding.

Superintendent Goal #3 – Board Relations

The superintendent maintains a positive and productive working relationship with the board of trustees and the community.

Superintendent Goal #4 – Educational Leadership

The superintendent provides leadership and direction for an educational system that is based on desired student achievement.

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Superintendent Goal #6 – Community Relations & Relationship Building

The superintendent maintains a positive and productive working relationship with District employees and the community.

Summary/Background Information:

Dr. López will provide an update on District and community events.

Administrative Recommendations:

Provided for your information and discussion.



Garland Independent School District Board of Trustees

Date of Meeting:	March 23, 2021
Agenda Item:	Future Agenda Items
Agenda Section:	Discussion Item
Administrator Responsible:	Dr. Ricardo López Superintendent
Board Goal Objective:	

OBJECTIVE A: EARLY LITERACY (Reading)

Percent of students in grade 3 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Reading.

OBJECTIVE B: EARLY LITERACY (Writing)

Percent of students in grade 4 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Writing.

OBJECTIVE C: ENGLISH LANGUAGE ACQUISITION

Percent of ELL students demonstrating English language acquisition, as measured by yearly progress indicator on the Texas English Language Proficiency Assessment System (TELPAS).

OBJECTIVE D: SCIENTIFIC UNDERSTANDING

Percent of students in grade 8 demonstrating scientific understanding as measured by Meets Grade Level performance on STAAR Science.

OBJECTIVE E: MATHEMATICAL PROFICIENCY

Percent of students demonstrating mathematical proficiency as measured by Meets Grade Level performance by the end of grade 9 on STAAR Algebra I EOC.

OBJECTIVE F: POSTSECONDARY READINESS (SAT Exams)

Percent of students demonstrating postsecondary readiness exam success, as measured by meeting college ready benchmarks through 11TH grade SAT School Day.

OBJECTIVE G: POSTSECONDARY READINESS (AP Exams)

Percent of students demonstrating postsecondary readiness exam success, as measured by AP exams with qualifying criterion scores.

OBJECTIVE H: STUDENT MANAGEMENT

Percent of discretionary exclusionary consequences as measured by ISS, OSS, and DAEP.

OBJECTIVE I: GRADUATION OUTCOMES

Percent of students successfully completing graduation and College, Career, Military Ready (CCM-R) requirements.

Superintendent Goal #1 – Student Results

Garland ISD will ensure ALL students graduate prepared for college, careers and life by increasing student performance measures, postsecondary readiness, and graduation rates and decreasing student management incidences.

Superintendent Goal #2 – Fiscal Responsibility

Ratings inputted for the Measured Analysis Goals are only a point of reference for trustee rating as each board member has the autonomy to change the rating. Measured Analysis Ratings will follow the state accountability factors for rounding.

Superintendent Goal #3 – Board Relations

The superintendent maintains a positive and productive working relationship with the board of trustees and the community.

Superintendent Goal #4 – Educational Leadership

The superintendent provides leadership and direction for an educational system that is based on desired student achievement.

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Superintendent Goal #6 – Community Relations & Relationship Building

The superintendent maintains a positive and productive working relationship with District employees and the community.

Summary/Background Information:

Trustees may submit items to be placed on future Board Meeting agendas.

Administrative Recommendations:

For discussion.



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Human Resources Report

Agenda Section: Consent Agenda

Administrator Responsible: Dr. Gradyne Brown
Assistant Superintendent Human Resources

Board Goal Objective:

OBJECTIVE I: GRADUATION OUTCOMES

Percent of students successfully completing graduation and College, Career, Military Ready (CCM-R) requirements.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Please see attached recommendations for the new personnel, terminations, leaves of absence, and resignations for the 2020-21 school year.

Administrative Recommendations:

Administration recommends approval.

PERSONNEL ADMINISTRATION
RECOMMENDED TERMINATIONS, RESIGNATIONS AND RETIREMENTS

Name	Job Title	School/Dept.	Experience	Reasons	Effective Date
Ananthaiah, Chethana	Oracle Application Developer	Oracle	4 years with GISD	Resignation/ EAD Expiration	3/11/2021
Buller, Doug	Teach/PE	Williams Elem.	28 years/26 with GISD	Deceased	2/18/2021
Chiamaka Chikezie, Lena U.	Teach/Special Ed. ABC	Back Elem.	1 year with GISD	Resignation/ Personal	3/22/2021
Crenshaw, Pamela L.	Teach/Dyslexia	Special Education	19 years/2 with GISD	Retirement	6/9/2021
Cruz, Nora	Teach/2nd Grade Bilingual	Stephens Elem.	46 years/26 with GISD	Retirement	6/9/2021
Cundiff, John L.	Teach/Music	Stephens Elem.	26 years/17 with GISD	Retirement	6/9/2021
Delgado, Elise J.	Teach/ESL	Webb M.S.	15 years/4 with GISD	Resignation/ Relocation	6/9/2021
Dunavant, Scott D.	Teach/Social Studies/Coach	Rowlett H.S.	10 years/7 with GISD	Resignation/ Relocation	6/10/2021
Espina Cole, Debbette M.	Teach/4th Grade	Golden Meadows Elem.	13 years/9 with GISD	Resignation/ Career Change	6/9/2021
Izaguirre, Jr., Martin	Teach/Spanish	Jackson T.C.	14 years/7 with GISD	Resignation/ Relocation	6/9/2021
Jackson, Judson E.	Teach/Social Studies	CC @ Brandenburg	28 years with GISD	Deceased	3/3/2021
Jacobson, Paul D.	Teach/5th Grade	Stephens Elem.	1 year with GISD	Resignation/ Personal	6/9/2021
Jones, Linda R.	Teach/KN	Hickman Elem.	30 years/21 with GISD	Retirement	6/9/2021
King, Ronisha M.	Nurse	Bullock Elem.	0 years with GISD	Resignation/ Health Reasons	3/1/2021
Lambert, Catherine A.	Teach/KN	Stephens Elem.	22 years/1 with GISD	Resignation/ Personal	6/9/2021
Lemons, Stevie A.	Librarian	Luna Elem.	10 years/6 with GISD	Resignation/ Career Change	6/9/2021
Martinez-Lqamari, Adriana	Teach/Intervention Specialist	Roach Elem.	10 years/8 with GISD	Resignation/ Professional Development	4/2/2021
Miller, Kendall O.	Boys Athletic Coordinator	Lakeview Cent. H.S.	22 years/10 with GISD	Resignation/ Other TX School	2/12/2021
Moody, John C.	Teach/ESL	Sam Houston M.S.	4 years/2 with GISD	Resignation/ Moving out of State	6/9/2021
Rodriguez, Anthony	Teach/2nd Grade Bilingual	Cooper Elem.	5 years/3 with GISD	Resignation/ Personal	6/9/2021
Schnitker, Kimberly A.	Librarian	Pearson Elem.	26 years/24 with GISD	Retirement	6/9/2021

PERSONNEL ADMINISTRATION
RECOMMENDED TERMINATIONS, RESIGNATIONS AND RETIREMENTS

Segala, Clarice M.	Nurse	Centerville Elem.	19 years with GISD	Retirement	6/9/2021
Short, Derik T.	Teach/English/Coach	Naaman Forest H.S.	24 years/14 with GISD	Resignation/ Personal	6/10/2021
Simmons, Susan R.	Teach/PE	Schrade M.S.	28 years/19 with GISD	Retirement	6/9/2021
Professional Resignation/Retirements:		Approved to Date:	177		
		Current:	24		
B. Support Personnel					
<u>Name</u>	<u>Job Title</u>	<u>School/Dept.</u>	<u>Experience</u>	<u>Reasons</u>	
Walker, Vickie N.	Secretary	Student Nutrition Services	24 years with GISD	Retirement	6/30/2021
ParaProfessional Resignation/Retirements:		Approved to Date:	12		
		Current:	1		
Other TX School - has informed us of taking a position at another Texas school district					
Personal - used at the discretion of the employee and no specific reason given or shared					
Career Change - has informed us of taking a position outside of education					



**Garland Independent School District
Board of Trustees**

Date of Meeting: March 23, 2021

Agenda Item: Waiver for Low Attendance

Agenda Section: Action Items

Administrator Responsible: Dr. Babetta Hemphill
Executive Director
Student Services & School Choice

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Presentation of the Low Attendance Waivers

Per the *Student Attendance Accounting Handbook* §3.8.1.4, for a day when school was held, but attendance was at least 10 percentage points below the overall district average attendance rate or the applicable campus for the prior year because of issues related to inclement weather, health, or safety, the district may apply for a waiver to have the day excluded from ADA and FSP funding calculations.

With Board approval, the District will request a Low Attendance Waiver for campuses that have attendance at least 10 percentage points below the last year's overall average attendance due to inclement weather on February 12, 2021.

Administrative Recommendations:

Administration recommends approval for the Low Attendance Waiver request.



Attendance Waivers

2020-2021 School Year

Types of Waivers

Low Attendance

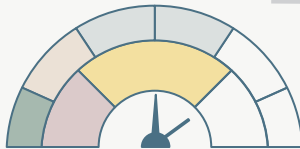


Districts or campuses can request a waiver to excuse any instructional days from ADA and FSP funding calculations that have attendance at least 10 percentage points below the last school year's overall average attendance, for the district or applicable campus due to inclement weather, health, or safety-related issues.

Missed School Days



Districts or campuses can request a waiver for excused absences if instructional days are missed due to inclement weather, health, safety-related, or other issues.



February 11, 2021

Type of Waiver

Missed School Day

Reason

Inclement Weather-
Ice

Things to Know

The 180-day requirement will be waived.



Waiver Information

A Low Attendance Waiver will be requested for this date due to the 10% difference in ADA from last year.

February 12, 2021

	2021	2020
<u>District</u>	94.46	96.07
Shugart	82.26	92.82
Centerville	85.46	96.44





February 15-19, 2021

Type of Waiver

Reason

Missed School Day

Inclement Weather-
Snow and Power Outages

Missed school days for the period of 2/15/21 – 2/26/21 count towards the ADSY 180-day requirement under TEC, Sec. 48.0051(c), in response to weather system guidance sent by TEA.

For this weather system only, LEAs do not need to make up the first two missed days before qualifying for a missed school day waiver that counts towards the 180-day requirement. ADSY districts must still submit requests for a waiver





Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Waiver for Missed School Days

Agenda Section: Action Items

Administrator Responsible: Babetta Hemphill
Executive Director
Student Services & School Choice

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Per the *Student Attendance Accounting Handbook* §3.8.1.3 -

Missed School Day Waivers

If weather, safety, or health issues cause the district to fall short of the required number of minutes/days beyond the additional minutes/days already built into the adopted school calendar for makeup minutes/days, a missed school day waiver application must be submitted using TEA's automated waiver application system.

The District will request a waiver for a missed school day due to ice on February 11, 2021. The minutes built into the instructional calendar will offset the missed instruction on that day. No make-up is necessary. We are requesting the waiver as recommended by TEA.

Additionally, due to the statewide weather event and power outages of the week of February 15, 2021, the District will submit a waiver for the entire week's attendance. Per correspondence with Superintendents on February 17, 2021, TEA will waive all 5 days without requiring make-up days or utilizing bad weather days. All requests for waivers require Board approval.

Administrative Recommendations:

Administration recommends approval of the Missed School Days Waiver request.



**Garland Independent School District
Board of Trustees**

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Budget Transfers and Amendments to the 2020-2021 General Fund and Student Nutrition Service Fund

Agenda Section: Action Item

Administrator Responsible: Ms. Brandy Mayo
Executive Director of Budget

Board Goal Objective:

Not applicable.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Shown are the transfers and amendments proposed for approval and their respective impacts on the general fund and student nutrition service fund.

This agenda item was reviewed during the Finance Committee Meeting on March 9, 2021.

Administrative Recommendations:

Provided for your consideration.



**BUDGET TRANSFERS AND AMENDMENTS
FOR THE GENERAL FUND
FISCAL YEAR 2020-21
March 23, 2021**

REVENUES:

	Original Budget	Revised Budget	Current Transfers Requested	Current Amendments Requested	Proposed Amended Budget
57 Local Revenue	\$ 230,653,531	\$ 217,789,287	\$ -	\$ (3,580,000)	\$ 214,209,287
58 State Revenue	320,008,654	291,235,654			291,235,654
59 Federal Revenue	9,000,000	9,000,000			9,000,000
Total Revenues	\$ 559,662,185	\$ 518,024,941	\$ -	\$ (3,580,000)	\$ 514,444,941

EXPENDITURES:

11 Instruction	\$ 318,782,474	\$ 314,227,680	\$ (143,615)		\$ 314,084,065
12 Instructional Resources and Media Services	8,224,571	8,317,852	3,668		8,321,520
13 Curriculum Development and Instructional Staff Development	14,005,577	13,516,034	62,702		13,578,736
21 Instructional Leadership	9,696,055	9,321,860	(113,472)		9,208,388
23 School Leadership	34,986,245	34,658,406	12,870		34,671,276
31 Guidance, Counseling and Evaluation	26,267,605	26,330,084	186,500		26,516,584
32 Social Work Services	1,046,663	836,193	(165,000)		671,193
33 Health Services	7,874,364	9,455,457	164,900		9,620,357
34 Student Transportation	19,610,924	19,256,992			19,256,992
35 Food Service	300,000	251,517			251,517
36 Extracurricular Activities	13,877,625	13,551,799	(2,194)		13,549,605
41 General Administration	20,035,055	18,804,899	34,680		18,839,579
51 Facilities Maintenance & Operations	46,266,388	45,943,268	1,507		45,944,775
52 Security and Monitoring Services	7,197,217	8,673,106	17,870		8,690,976
53 Data Processing Services	17,057,325	15,367,301	(27,966)		15,339,335
61 Community Services	2,047,132	1,881,263	(32,450)		1,848,813
71 Debt Service - Principal on Long-Term Debt	484,000	484,000			484,000
72 Debt Service Interest on Long-Term Debt					-
73 Bond Issuance Cost and Fees					-
81 Facilities Acquisition and Construction		48,483			48,483
95 Juvenile Justice Program	36,000	36,000			36,000
99 Other Intergovernmental Charges	928,839	963,769			963,769
Total Expenditures	\$ 548,724,059	\$ 541,925,963	\$ -	\$ -	\$ 541,925,963
Excess (Deficiency) Revenues Over (Under) Expenditures	\$ 10,938,126	\$ (23,901,022)	\$ -	\$ (3,580,000)	\$ (27,481,022)
Other Financing Sources	\$ -	\$ -	\$ -	\$ -	\$ -
Other Financing Uses	\$ -	\$ -	\$ -	\$ -	\$ -
Net Change in Fund Balance	\$ 10,938,126	\$ (23,901,022)	\$ -	\$ (3,580,000)	\$ (27,481,022)



**DETAIL OF BUDGET TRANSFERS AND AMENDMENTS
FOR THE GENERAL FUND
FISCAL YEAR 2020-21
March 23, 2021**

Budget Transfers

Expenditures

	Increase	Decrease	Net
11 Instruction	\$ 70,185	\$ 213,800	\$ (143,615)
12 Instructional Resources and Media Services	3,668	-	\$ 3,668
13 Curriculum Development and Instructional Staff Development	215,168	152,466	\$ 62,702
21 Instructional Leadership	77,406	190,878	\$ (113,472)
23 School Leadership	16,150	3,280	\$ 12,870
31 Guidance, Counseling and Evaluation	186,540	40	\$ 186,500
32 Social Work Services	-	165,000	\$ (165,000)
33 Health Services	165,000	100	\$ 164,900
36 Extracurricular Activities	23,894	26,088	\$ (2,194)
41 General Administration	37,000	2,320	\$ 34,680
51 Facilities Maintenance & Operations	1,507	-	\$ 1,507
52 Security and Monitoring Services	18,570	700	\$ 17,870
53 Data Processing Services	-	27,966	\$ (27,966)
61 Community Services	-	32,450	\$ (32,450)
Total Expenditures	815,088	815,088	-

Budget neutral transfers to realign expenditures.

Budget Amendments

	Increase	Decrease	Net
57 Local Revenue		\$ 3,580,000	\$ (3,580,000)
Total Revenues	-	3,580,000	(3,580,000)

Reduction in local revenue due to lower than expected returns in interest income



**BUDGET TRANSFERS AND AMENDMENTS
FOR THE STUDENT NUTRITION SERVICE FUND
FISCAL YEAR 2020-21
March 23, 2021**

	Original Budget	Revised Budget	Current Transfers Requested	Current Amendments Requested	Proposed Amended Budget
REVENUES:					
57 Local Revenue	\$ 7,262,000	\$ 3,631,000	\$ -	\$ -	\$ 3,631,000
58 State Revenue	170,000	170,000			170,000
59 Federal Revenue	26,370,809	13,185,405			13,185,405
Total Revenues	\$ 33,802,809	\$ 16,986,405	\$ -	\$ -	\$ 16,986,405
EXPENDITURES:					
35 Food Service	\$ 34,302,809	\$ 25,944,374	\$ -	\$ 1,000,000	\$ 26,944,374
Total Expenditures	\$ 34,302,809	\$ 25,944,374	\$ -	\$ 1,000,000	\$ 26,944,374
<i>Excess (Deficiency) Revenues Over (Under) Expenditures</i>	\$ (500,000)	\$ (8,957,969)	\$ -	\$ (1,000,000)	\$ (9,957,969)
<i>Other Financing Sources</i>	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Other Financing Uses</i>	\$ -	\$ -	\$ -	\$ -	\$ -
Net Change in Fund Balance	\$ (500,000)	\$ (8,957,969)	\$ -	\$ (1,000,000)	\$ (9,957,969)

**DETAIL OF BUDGET TRANSFERS AND AMENDMENTS
FOR THE STUDENT NUTRITION SERVICE FUND
FISCAL YEAR 2020-21
March 23, 2021**

Budget Amendments

Revenue	Increase	Decrease	Net
Assigned Fund Balance	\$ -	\$ 1,000,000	\$ (1,000,000)
Total Revenue	\$ -	\$ 1,000,000	\$ (1,000,000)

Decrease \$1 million from fund balance to support cafeteria food related costs.

Expenditures	Increase	Decrease	Net
35 Food Service	\$ 1,000,000	\$ -	\$ 1,000,000
Total Expenditures	\$ 1,000,000	\$ -	\$ 1,000,000

Increase function 35 by \$1 million to support cafeteria food related costs.



**Garland Independent School District
Board of Trustees**

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Tax Refunds for Overpayments
or Erroneous Payments

Agenda Section: Action Item

Administrator Responsible: Ms. Kristi Cooper
Director of Tax Services

Board Goal Objective:

Not Applicable

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Attached is a list of refunds that were determined to be overpaid.

See Attached List

These refunds, totaling \$161,184.93 will be presented to the Finance Committee for review on March 9, 2021 and submitted to the Board for approval at the March 23, 2021 board meeting.

Administrative Recommendations:

Provided for your consideration.



Garland Independent School District
Department of Taxation

Street Address

901 West State Street
Garland, TX
75040

Phone

972-494-8570

FAX

972-494-8631

February 22, 2021

To: Allison Davenport
Executive Director of Finance
Business Operations

From: Kristi Cooper
Director of Tax Services

Re: Refunds for Overpayments or Erroneous Payments

Under section 31.11 of the Texas Property Tax Code, if the collector determines that a payment was erroneous or excessive and exceeds \$500.00 it must also be approved by the governing body before refunded.

Attached are refunds from January 2021 that were determined to be overpaid.

There are no delinquent accounts under the above named person or account number. If you have any questions or comments, please contact me.

BOARD REFUNDS FOR OVERPAYMENTS OR ERRONEOUS PAYMENTS

<u>NAME</u>	<u>ADDRESS</u>	<u>AMOUNT</u>	<u>REASON</u>
1. Providence Title Co	1332 East Belt Line Rd	\$ 946.97	2020 Erroneous
2. Cenlar, Services by Corelogic Tax Services, LLC	3001 Hackberry Rd	\$ 2,482.34	2020 Overpayment
3. Armstrong Patricia Carolyn	1442 Blanco Ln	\$ 733.17	2020 Overpayment
4. The Shalimar Ashley Neal Irrv Trust	508 Hearthland Crossing	\$ 2,120.63	2020 Overpayment
5. Alamo Title	700 E Southlake Blvd, Ste 150	\$ 2,332.70	2020 Overpayment
6. Alamo Title	700 E Southlake Blvd, Ste 150	\$ 1,869.00	2020 Overpayment
7. Smith Jordan	6802 Lakehurst Ln	\$ 3,538.33	2020 Overpayment
8. Harvey Jennifer	3118 Hillcrest Dr	\$ 1,389.10	2020 Overpayment
9. FNF Lawyers Title of Texas, Inc	16479 Dallas Pkwy, Ste 390	\$ 753.05	2020 Overpayment
10. Meritage Homes of Texas LLC	8840 Cypress Waters Blvd, Ste 100	\$ 3,685.36	2020 Overpayment
11. Roger W Coombes	4869 Demeter Way	\$ 2,096.43	2020 Erroneous
12. Stanners Carol M	9702 Shoal Creek Dr	\$ 4,169.41	2020 Overpayment
13. Sealy Industrial Partners LP	333 Texas Street, Ste 1050	\$ 1,466.35	2020 Overpayment
14. Nguyen Luat T & Trinh	9614 Peach Tree Ln	\$ 617.18	2020 Overpayment
15. Winans Family Partnership LP	1801 Dover Dr	\$ 627.86	2020 Overpayment
16. The Weekly Group Co	1111 N Post Oak Rd	\$ 749.01	2020 Overpayment
17. Ryan Tax Compliance Services LLC	16220 North Scottsdale Rd, Ste 450	\$ 544.11	2020 Overpayment
18. Ready Mortgage Corp	301 S Sherman St, Ste 117	\$ 2,294.63	2020 Overpayment
19. Shellpoint Mortgage Servicing, Corelogic as Agent for	3001 Hackberry Rd	\$ 2,587.98	2020 Overpayment
20. Shellpoint Mortgage Servicing, Corelogic as Agent for	3001 Hackberry Rd	\$ 3,873.55	2020 Overpayment
21. Cenlar, Services by Corelogic Tax Services, LLC	3001 Hackberry Rd	\$ 857.87	2020 Overpayment
22. Corelogic Commercial Real Estate	PO Box 9222	\$ 10,050.40	2020 Overpayment
23. Hudson Home Management	2800 Postoak Blvd, Ste 3700	\$ 2,875.92	2020 Overpayment
24. Rasing Cane's	6800 Bishop Rd	\$ 17,588.20	2020 Overpayment
25. Nguyen Anh & Nancy	1509 Blue Jay Rd	\$ 624.72	2020 Overpayment
26. Servis One, Inc	314 S Franklin Street	\$ 1,736.95	2020 Overpayment
27. M/I Homes of DFW, LLC	4131 Worth Ave, Ste 420	\$ 703.53	2020 Overpayment
28. M/I Homes of DFW, LLC	4131 Worth Ave, Ste 420	\$ 879.41	2020 Overpayment
29. LaSalle Investment Management	17776 Preston Rd, Ste 100	\$ 58,417.95	2020 Overpayment
30. Diverse Resources Inc	PO Box 830675	\$ 1,849.15	2020 Overpayment
31. New Day Properties LLP	2809 Exchange St	\$ 1,407.58	2020 Overpayment

<u>NAME</u>	<u>ADDRESS</u>	<u>AMOUNT</u>	<u>REASON</u>
32. New Day Properties LLP	2809 Exchange St	\$ 2,507.14	2020 Overpayment
33. Cooper Concrete Co	PO Box 461118	\$ 2,782.08	2020 Overpayment
34. Colonial	PO Box 2988	\$ 3,839.88	2020 Overpayment
35. Covius Mortgage	12410 E Mirabeau Pkwy, Ste 100	\$ 1,922.58	2020 Overpayment
36. Covius	12410 E Mirabeau Pkwy, Ste 100	\$ 4,053.83	2020 Overpayment
37. Northplace Church of the Assemblies of God	2800 Pleasant valley Rd	\$ 7,076.99	2020 Overpayment
38. Airgas	PO Box 6675	\$ 2,469.39	2020 Overpayment
39. Intax Inc	PO Box 54767	\$ 664.20	2020 Overpayment
Total		\$ 161,184.93	

No delinquent accounts under above named person or account number

No interest due on any above refund



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Job Order Contractor for HVAC Equipment and Fine Arts Acoustical Sound Panels for O'Banion Middle School Fine Arts Addition and Renovations (2014 Bond Program)

Agenda Section: Action Item

Administrator Responsible: Mr. Javier Fernandez
Director of Facilities Planning and Construction Services

Board Goal Objective:

Not Applicable.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

CSP #500-3.1-18 issued for O'Banion Middle School Fine Arts Addition and Renovations as part of the 2014 Bond Program omitted HVAC equipment and ductwork for the choir room converted to classrooms. The acoustical sound panels for the band hall and choir room were also omitted as part of design and construction. It is staff's recommendation to utilize a Job Order Contractor to furnish and install equipment and materials to complete the project.

MART, Inc. General Contractors

Furnish and install HVAC equipment for classrooms (former choir room)	\$125,350
Furnish and install acoustical sound panels in band hall and choir room	\$87,826

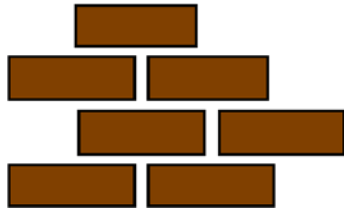
The total amount is \$213,176. The potential funding is as indicated below.

2014 Bond Authorization (681)

This agenda item was presented at the Facilities Committee and Finance Committee for review on March 9, 2021.

Administrative Recommendations:

Provided for your consideration.



MART, INC.

GENERAL CONTRACTORS

February 23, 2021

Garland ISD
701 N. First Street
Garland, TX 75040-5705

Attn: Javier Fernandez
Re: O'Banion MS HVAC Replacement

Dear Javier,

Please accept this letter as our instrument of proposal to complete the referenced work described below, based on GISD/Alliance Architects construction plans, dated 01/07/2021, and site visit held February 9, 2021.

Inclusions:

- Furnish labor, material, equipment and supervision, during regular business hours, required to complete job in a timely manner
- Submit for Construction/Mechanical Permit as needed
- Remove existing ceiling grid and tie up light fixtures to access work areas
- Remove existing rooftop HVAC units and ductwork components as needed
- Supply and install three (3) new AAON package gas/electric rooftop units with roof curbs and curb adapter(s) as needed
- Supply and install registers, grills, diffusers, ductwork, thermostats as needed
- Supply and install Electrical modification needed to power new units
- Supply and install new ceiling grid and tile; reset existing light fixtures
- Clean up of all debris created by us

Trade Work Coordination:

- Contractor to consult and coordinate with GISD Fire Sprinkler contractor
- Contractor to consult and coordinate with GISD Security department
- Contractor to consult and coordinate with GISD Technology contractor

Exclusions:

- Sales Tax
- GISD costs associated with Fire Sprinkler, Security and Technology trade work

Proposed Project Cost: **\$125,350.00**

We trust you will find this proposal in order, but should you have any questions, please do not hesitate to call.

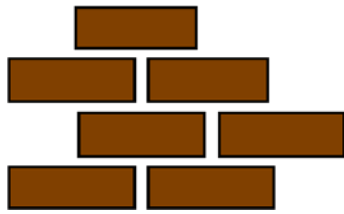
Respectfully,

Pamela Marley
JOC Sales

1503 Perry Street
Irving, TX 75060



(972) 721-1522 Phone
(972) 721-1660 FAX
www.Martgc.com



MART, INC.

GENERAL CONTRACTORS

February 23, 2021

Garland ISD
701 N. First Street
Garland, TX 75040-5705

Attn: Javier Fernandez
Re: O'Banion MS Band Hall Sound Panels

Dear Javier,

Please accept this letter as our instrument of proposal to complete the referenced work described below, based on GISD/Alliance Architects construction plans, dated 01/07/2021, and site visit held February 9, 2021.

Inclusions:

- Furnish labor, material, equipment and supervision, during regular business hours, required to complete job in a timely manner
- Provide and install plastic protection for existing furnishings and equipment
- Supply and install the following:
 - 76 Sound Concepts Interact acoustical absorber wall panels 3" thick
 - 59 Sound Concepts Interact type 1 barrel wall diffusers
 - 17 Sound Concepts Interact type 2 barrel wall diffusers
 - 16 Sound Concepts Interact barrel ceiling diffusers, standard white painted finish
 - Fabric - Gilford of Maine FR701-2100 (limited to 1 color selection - submittal to be provided)
- Clean up of all debris created by us

Special Conditions:

- Lead Time from approved Submittals is currently 9-10 weeks from Order
- Panels will be installed where best fit and not necessarily per Drawing(s), subject to sprinklers, existing light fixtures, and other existing devices

Exclusions:

- Permit and Sales Tax

Proposed Project Cost:

\$87,826.00

We trust you will find this proposal in order, but should you have any questions, please do not hesitate to call.

Respectfully,

Pamela Marley
JOC Sales

1503 Perry Street
Irving, TX 75060

MART, INC.
43rd
Anniversary
1977 - 2020

(972) 721-1522 Phone
(972) 721-1660 FAX
www.Martgc.com



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Lakeview Centennial High School HVAC Ductwork Replacement Project

Agenda Section: Action Item

Administrator Responsible: Mr. Javier Fernandez
Director of Facilities Planning and Construction Services

Board Goal Objective:

Not Applicable.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Based on a study performed by EMA of existing HVAC ductwork within the facility, it is staff's recommendation to establish a project to replace all ductwork from air handling units to fan coil units. The procurement delivery method proposed for the project is the Competitive Sealed Proposal (CSP).

The rough order of magnitude estimated project cost is \$797,060 (which includes engineering services of approximately \$39,600).

The potential funding source is indicated below.

Education Stabilization Fund (651)

The agenda item was presented at the Facilities Committee and Finance Committee for review on March 9, 2021.

Administrative Recommendations:

Provided for your consideration.

Facility Improvement Recommendation Report

Lakeview Centennial High School Ductwork Leakage Study

Garland ISD

February 2021



Summary Report

Garland ISD - Lakeview Centennial High School Ductwork Leakage Study

SUMMARY	3
BUILDING DESCRIPTION & SYSTEM OVERVIEW	4
SITE OBSERVATION AND DATA FROM AHUs AND VAVs	5
FIM RECOMMENDATIONS	15
CONCLUSIONS & IMPLEMENTATION	16
APPENDIX A	17

SUMMARY

This findings and recommendation report has been prepared by EMA Engineering and Consulting on behalf of Garland ISD in Garland, Texas as a part of the Facility Improvement/ Retro-Commissioning services. The primary focus of this report is on the ductwork leakage in the VAV AHU's at Lakeview Centennial High School and the potential solutions to relieve the issue.

This report is based on the site visit on 12/23/2020. Complete System Balance was hired by EMA Engineering and Consulting to do leakage testing on 9 existing Air Handling Units. Complete System Balance accomplished the leakage testing by doing a coil bank traverse inside each AHU. CSB used a Velgrid along with a calibrated Air Data Multimeter to read the CFM. CSB then compared the actual CFM readings to what the control software was reading on the VAVs that serve each AHU. There were significant CFM differences in what the control software was reading and the actual traverse readings. The most significant observations are listed below:

- Significant amounts of airflow leakage of approximately 32%, 33% and 31% in the ductwork of AHU's C4, D2, and D4, respectively.
- A large gash was clearly visible on the side of the main ductwork of AHU D2 (Figure 2)

A summary of the findings is shown below.

Table 1. Leakage Summary

AHU TAG	Scheduled CFM	AHU Actual Flow	Sum Flow Rate at VAV boxes	Estimated Leakage	Percent Leakage
AHU-C1	14950	15918	12475	3443	22%
AHU-C2	12050	12292	8751	3541	29%
AHU-C3	12765	12404	9165	3239	26%
AHU-C4	19210	15199	10352	4847	32%
AHU-C5	8995	6368	7342	974	15%
AHU-D1	18460	19470	13791	5679	29%
AHU-D2	16460	14295	9584	4711	33%
AHU-D3	20360	18545	14881	3664	20%
AHU-D4	20230	22132	15330	6802	31%

BUILDING DESCRIPTION & SYSTEM OVERVIEW

The two-story classrooms at Lakeview Centennial High School are served by Multiple Multizone VAV AHU's, Single Zone AHU's, Single zone VAV RTU's, and a split system. The study of interest focuses only of the 9 existing VAV AHU's. These AHU's blow large amounts of conditioned air to their respective VAV boxes via a long string of ductwork that leads to the intended space.

The configuration of current system is Fig 1. shown below:

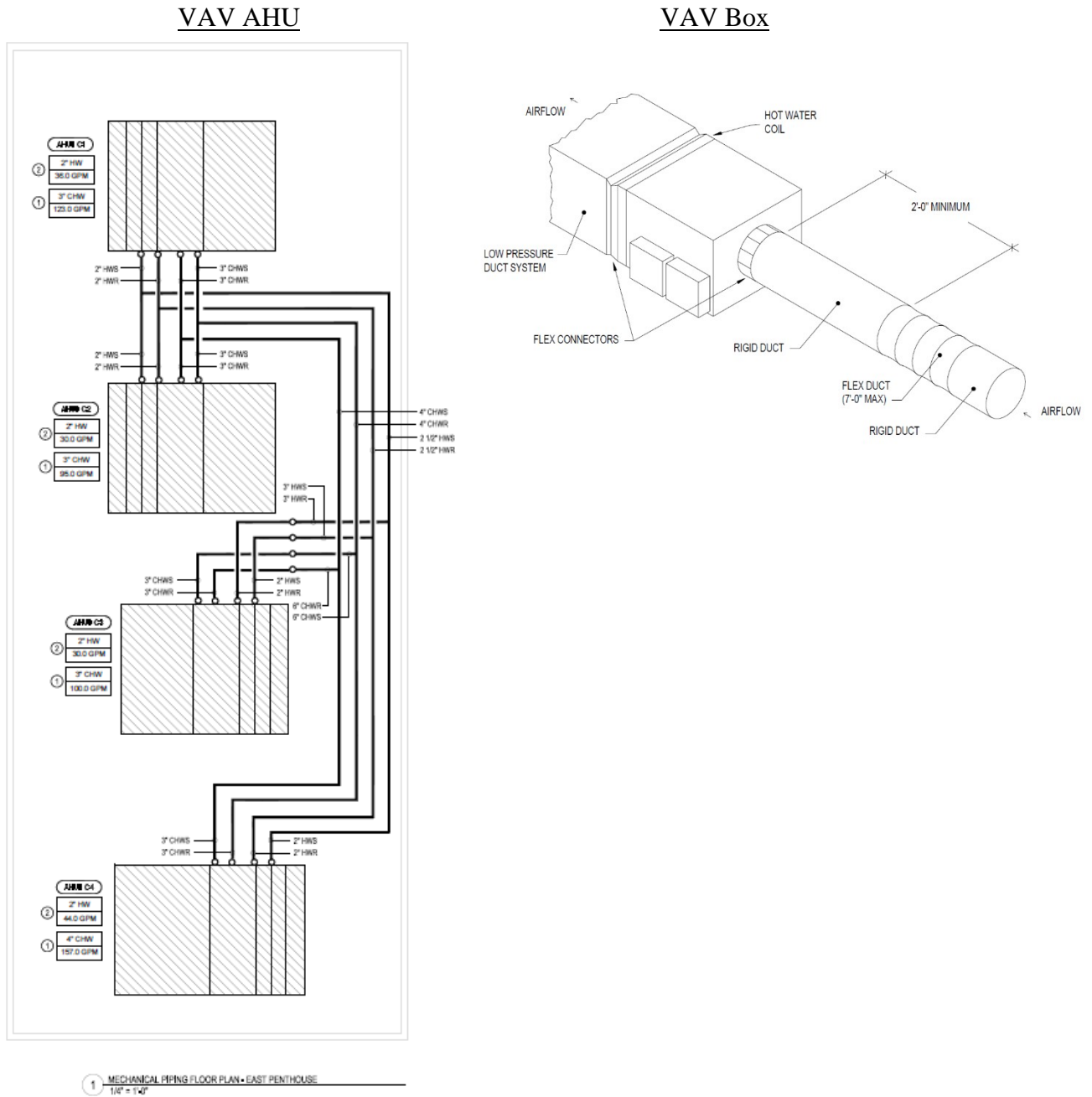


Figure 1. System Configuration

SITE OBSERVATION AND DATA FROM AHUs AND VAVs

The Ductwork Leakage Study was performed by measuring the amount air delivered by an AHU and then recording the amount of air that reaches its respective VAV boxes down the line. Each AHU was forced into cooling so that they could provide the max cooling cfm to the VAV boxes. The air delivered by each AHU was measured by doing a coil bank traverse inside the AHU. The average cfm delivered by each AHU was found by taking the average of 25 measurements taken by CSB's Velgrid with a calibrated Air Data Multimeter. More information on this process can be found in Appendix A. The amount of air at the end of the run was found by using JMS controls to read and sum the cfm readings at each VAV box. Each penthouse containing an AHU was also briefly examined for obvious leakages in the system as seen in Figure 2.



Figure 2. Large visible penetration in the duct of AHU-D2

As the tests were run, the data was recorded as seen below. The tags and values in each table were taken directly from the JMS front end.

Table 1. AHU-C1

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
10-34A	1000	2141	150	450
10-34B	1000	2141	300	621
10-36	1000	2139	300	654
10-42	1000	2135	150	655
10-43	1000	2131	150	612
10-46	1800	2125	200	982
10-52	800	Comp Lab	240	912
10-48	1000	2123	75	905
11-19	1600	2115	480	858
11-18	1600	2113	480	1311
11-17	1600	2111	150	1047
11-16	1600	2109	480	1004
10-35	200	COMP RM	80	212
10-38	200	2137A	25	62
10-41	1000	2133	300	750
10-44	1000	2129	300	460
10-47	1600	2127	400	982
10-49	400	2119B	80	0

SCHEDULED MAX CFM	14950
FLOW AT AHU	15918
SUM FLOW AT VAV BOXES	12475
LOST CFM	3443

Table 2. AHU-C2

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
4-52	1000	1133	150	973
4-48	1000	1131	300	940
4-46	1000	1129	300	1003
4-45	1000	1127	300	428
4-43	1000	1125	300	259
4-42	1000	1123	150	956
4-41	1000	1119	300	886
4-40	1000	1121	300	1003
4-33	OFF	1113	90	0
4-35	200	1115C	50	213
4-36	*controller disconnected*	1115D	50	0
4-30	200	1115F	15	154
4-28	500	SMALL RM	150	-1
4-29	1000	1115	300	981
4-27	1000	1108	100	955
4-26	*controller disconnected*	1108A	100	0
4-34	OFF	1108B	25	0
4-32	*controller disconnected*	PHOTO	0	0

SCHEDULED MAX CFM	12050
FLOW AT AHU	12292
SUM FLOW AT VAV BOXES	8751
LOST CFM	3541

Table 3. AHU-C3

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
4-03	1000	1136	300	845
4-02	1000	1135	300	939
4-05	1000	1132	300	983
4-06	1000	1130	150	1008
4-07	1000	1128	300	1002
4-09	800	1124	150	756
4-11	1000	1126	300	981
4-13	2000	BRK RM	200	211
4-14	800	1120	240	243
4-16	1000	1118	200	1024
4-18	1000	1114	300	207
4-19	OFF	1115	250	0
4-20	1000	1112	300	967

SCHEDULED MAX CFM	12765
FLOW AT AHU	12404
SUM FLOW AT VAV BOXES	9165
LOST CFM	3239

Table 4. AHU-C4

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
10-01	1000	2130	300	868
10-06	1000	2128	200	798
10-07	1000	2126	300	786
10-09	1000	2124	300	704
10-08	1000	2122	300	828
10-10	1000	2120	300	418
10-12	1000	2118	50	812
10-13	1000	2116	300	837
10-17	1500	2112	450	1164
10-16	1500	2114	450	1204
10-21	600	2110	180	58
10-23	200	2100C	80	204
11-10	1400	2105	420	788
11-14	1400	2107	420	729
11-13	200	COMP LAB	80	153

SCHEDULED MAX CFM	19210
FLOW AT AHU	15199
SUM FLOW AT VAV BOXES	10352
LOST CFM	4847

Table 5. AHU-C5

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
5-28	500	CLINIC	50	498
5-30	200	NURSE	50	188
5-25	500	CLINIC	50	445
5-24	200	1057	80	84
5-23	200	1059	80	82
5-22	200	1061	80	139
5-21	200	1063	80	43
5-19	400	COFFEE	120	361
5-31	500	WORK RM	150	511
5-50	400	1051	120	293
5-49	400	PRINCIPAL	100	98
5-59	2000	SAO	200	1772
5-53	700	ATTENDANCE	250	353
5-57	200	COFFEE	25	84
5-51	*controller disconnected*	OFFICE	OFF	OFF
5-48	2000	1055	150	2090
5-46	OFF	RECEPTION	OFF	OFF
5-41	200	COUNSELOR	80	145
5-43	OFF	COUNSELOR	OFF	OFF
5-39	OFF	COUNSELOR	OFF	OFF
5-39B	OFF	COUNSELOR RECEPTION	OFF	OFF
5-38	OFF	COUNSELOR RECEPTION	OFF	OFF
5-37	OFF	COUNSELOR	OFF	OFF
5-36	OFF	OFFICE	OFF	OFF
5-35	OFF	COUNSELOR	OFF	OFF
5-42	200	COUNSELOR	80	156

SCHEDULED MAX CFM	8995
FLOW AT AHU	6368
SUM FLOW AT VAV BOXES	7342
LOST CFM	974

Table 6. AHU-D1

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
14-19B	1000	2235	100	264
14-19A	1000	2235	75	152
14-19C	1000	2235	150	1011
14-20	300	2235A	50	216
14-21B	2000	2233	150	1511
14-21A	2000	2233	600	2011
14-22	500	2233A	20	506
14-23A	1000	2231	50	173
14-23B	1600	2231	480	1078
14-20	300	2235A	50	212
13-13B	1000	2229	300	1009
13-14B	1000	2227	50	1018
13-13A	1000	2229	300	1036
13-14A	1000	2227	50	1046
13-15	500	2225A	25	532
13-16B	1000	2225	200	1061
13-16A	600	2225	180	628
13-17A	1000	2223	0	328
13-17B	*controller disconnected*	2223	0	0

SCHEDULED MAX CFM	18460
FLOW AT AHU	19470
SUM FLOW AT VAV BOXES	13791
LOST CFM	5679

Table 7. AHU-D2

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
VAV 7-19	1000	1237	150	638
7-21	1000	1235	150	371
7-20	1000	1233	200	579
7-23	1000	1224	300	1013
7-22	1000	1231	300	1002
6-30	1200	1227	0	1110
6-29	600	CORRIDOR	0	610
6-31	1000	1225	100	597
6-32	1000	1223	200	670
6-35	1000	1221	0	340
6-34	1000	1219	0	730
6-37	1000	1215	0	620
6-36	1000	1217	0	545
6-41B	1920	THEATRE	0	759

SCHEDULED MAX CFM	16460
FLOW AT AHU	14295
SUM FLOW AT VAV BOXES	9584
LOST CFM	4711

Table 8. AHU-D3

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
7-01	1000	1246	0	94
7-02	1000	1244	150	125
7-08	1000	1242	150	250
7-03	1000	1240	150	199
7-09	800	CORRIDOR	240	235
6-04	800	1236	0	24
6-02	1200	1238	25	158
6-05	300	WORK RM	0	13
6-09	500	1232	15	93
6-03	1000	1228	0	128
6-12B	1000	ART	100	-42
6-12A	1000	ART	300	87
6-21	500	1220	0	127
6-24	1000	1214	0	143
6-15B	1000	ART	75	136
6-15A	1000	ART	150	62
6-20	1000	1218	0	149
6-27	1000	1216	0	127
6-16	1400	1222	420	588

SCHEDULED MAX CFM	20360
FLOW AT AHU	18545
SUM FLOW AT VAV BOXES	14881
LOST CFM	3664

Table 9. AHU-D4

VAV Box #	Max CFM	Room #	Min Flow Set Point	Actual CFM
14-01	1000	2242	150	512
14-07	800	2240	240	339
14-11	250	CONF RM	50	258
14-12A	1000	2232	150	826
14-12B	1000	2232	300	496
14-13A	1000	2230	150	773
14-13B	1000	2230	150	859
14-15A	1000	2228	300	802
14-15B	1000	2228	100	908
14-14	300	2228A	80	196
13-02A	1000	FOOD LAB	50	784
13-02B	1000	FOOD LAB	200	759
13-04A	1000	2224	300	852
13-03A	1000	2224	150	740
13-04B	1000	2224	150	839
13-03B	1000	2224	300	1029
13-07	2000	2222B	200	572
13-08	1000	2222	150	890
13-06	1000	2222	300	984
13-11	1000	2222	300	978
13-09	1000	2222	300	934

SCHEDULED MAX CFM	20230
FLOW AT AHU	22132
SUM FLOW AT VAV BOXES	15330
LOST CFM	6802

FIM RECOMMENDATIONS

Option	Description	Estimated Cost	Priority
FIM #1	Full Ductwork Replacement of all existing VAV AHU's	\$415,700	High

FIM Recommendation #1: Full Ductwork Replacement of all existing VAV AHU's

The current condition of the ductwork system of the 9 VAV AHU's at Lakeview Centennial High School is such that the units may not be able to effectively and efficiently cool the spaces that they serve. The severe leakage in the system could lead to unsatisfied spaces and consequently higher energy usage per unit as each unit will work harder to satisfy their respective zones.

The proposed corrective action is to:

1. Demolish the existing ductwork system of the 9 VAV AHU's and replace the ductwork system with new medium pressure ductwork that has 1" insulation.

The estimated budget for FIM #1 is shown in below.

<u>Description</u>	<u>Estimated Cost</u>
Estimated Cost of Materials and Labor	\$215,000.00
Estimated Cost of Demolition	\$50,700.00
Estimated Cost of 1" Insulation for Medium Pressure Ductwork	\$150,000.00
Total (for 9 VAV AHUs)	\$415,700

CONCLUSIONS & IMPLEMENTATION

This report provided herein was created to assist Garland ISD at Lakeview Centennial High School in identifying the leakage from the ductwork in the building's VAV AHU's. Based on the investigation, site observations, and system reviews conducted by EMA and Complete System Balance, one Facility Improvement Measures (FIM) is recommended. EMA is available to discuss the schedule for such implementation and to discuss the recommendations in further detail.

APPENDIX A

Complete System Balance

TESTING AND BALANCING OF AIR AND HYDRONIC SYSTEMS

PO Box 399
Rockwall, Texas 75087

(972) 965-4289

Certified Test; Adjust; Balance Report

Project: Lakeview High School Leakage Testing

Location: Garland, TX

Engineer / Consultant: EMA Engineering and Consulting

Owner: Garland Independent School District

NEBB Certification #
3451



Project Number #
20100

THE DATA PRESENTED IN THIS REPORT IS A RECORD OF SYSTEM MEASUREMENT AND FINAL ADJUSTMENTS THAT HAVE BEEN OBTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF NEBB PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING ENVIRONMENTAL SYSTEMS. ANY VARIANCES FROM DESIGN QUANTITIES, WHICH EXCEED NEBB TOLERANCES, ARE NOTED IN THE TEST-ADJUST-BALANCE REPORT PROJECT SUMMARY.

Date:

1/6/2021

President

Cody Lee

COMPLETE SYSTEM BALANCE

PO Box 399
Rockwall, Texas 75087
(972)-965-4289
completesystembalance.com

EMA Engineering and Consulting
328 South Broadway Avenue
Tyler, TX 75702

RE: Testing and Balancing
JOB NAME: Lakeview Centennial High
School Leakage Testing

Location: Garland, Texas

We have completed the testing on the above referenced project. The testing and adjusting has been performed in accordance with the highest standards and within the limitations of the installed system.

If there are any questions concerning this report, please contact me.

Complete System Balance
Cody M. Lee
President

Complete System Balance

P.O. Box 399
Rockwall, Texas 75087
972 965-4289

Summary Page

Remarks Page

Air Handling Units

AHU- C1	Pg. 1
AHU- C2	Pg. 2
AHU- C3	Pg. 3
AHU- C4	Pg.'s 4-5
AHU- C5	Pg. 6
AHU- D1	Pg. 7
AHU- D2	Pg. 8
AHU- D3	Pg. 9
AHU- D4	Pg. 10

Appendix A: Abbreviations

Appendix B: Calibrations

Appendix C: Plans

Summary

Complete System Balance was hired by EMA Engineering and Consulting to do leakage testing on 9 existing Air Handling Units. Complete System Balance accomplished the leakage testing by doing a coil bank traverse inside each AHU. CSB used a Velgrid along with a calibrated Air Data Multimeter to read the CFM. CSB then compared the actual CFM readings to what the control software was reading on the VAVs that serve each AHU. There was significant CFM differences in what the control software was reading and the actual traverse readings. Please see the Remarks section of this report for more information.

Remarks

AHU-C1	VAV-10-49 is not reading airflow in the control software.	Pg. 1
AHU-C1	Traversed CFM at the coil is 15,918. Control software says the VAVs served from AH-C1 are reading a combined 12,475 CFM. Complete System Balance believes there is either 22% leakage in this duct system and/or the VAVs are out of calibration.	Pg. 1
AHU-C2	VAVs 4-26, 4-32, & 4-36 are not reading airflow in the control software.	Pg. 2
AHU-C2	Traversed CFM at the coil is 12,292. Control software says the VAVs served from AH-C2 are reading a combined 8,751 CFM. Complete System Balance believes there is either 29% leakage in this duct system and/or the VAVs are out of calibration.	Pg. 2
AHU-C3	Traversed CFM at the coil is 12,404. Control software says the VAVs served from AH-C3 are reading a combined 9,165 CFM. Complete System Balance believes there is either 26% leakage in this duct system and/or the VAVs are out of calibration.	Pg. 3
AHU-C4	Traversed CFM at the coil is 15,199. Control software says the VAVs served from AH-C4 are reading a combined 10,352 CFM. Complete System Balance believes there is either 32% leakage in this duct system and/or the VAVs are out of calibration.	Pg.'s 4-5

AHU-C5 **Traversed CFM at the coil is 6,368. Control software says the VAVs served from AH-C5 are reading a combined 7,342 CFM. Complete System Balance believes that the VAVs are no longer calibrated.** **Pg. 6**

AHU-D1 **Traversed CFM at the coil is 19,470. Control software says the VAVs served from AH-D1 are reading a combined 13,791 CFM. Complete System Balance believes there is either 29% leakage in this duct system and/or the VAVs are out of calibration.** **Pg. 7**

AHU-D2 **Traversed CFM at the coil is 14,295. Control software says the VAVs served from AH-D2 are reading a combined 9,584 CFM. Complete System Balance believes there is either 33% leakage in this duct system and/or the VAVs are out of calibration.** **Pg. 8**

AHU-D3 **Traversed CFM at the coil is 4,246. Control software says the VAVs served from AH-D3 are reading a combined 2,694 CFM. Complete System Balance believes there is either 37% leakage in this duct system and/or the VAVs are out of calibration.** **Pg. 9**

AHU-D3 **Both the return & outside air damper were found closed 100% in normal operation.** **Pg. 9**

AHU-D4 **Traversed CFM at the coil is 22,132. Control software says the VAVs served from AH-D4 are reading a combined 15,330 CFM. Complete System Balance believes there is either 31% leakage in this duct system and/or the VAVs are out of calibration.** **Pg. 10**



Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #C1/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

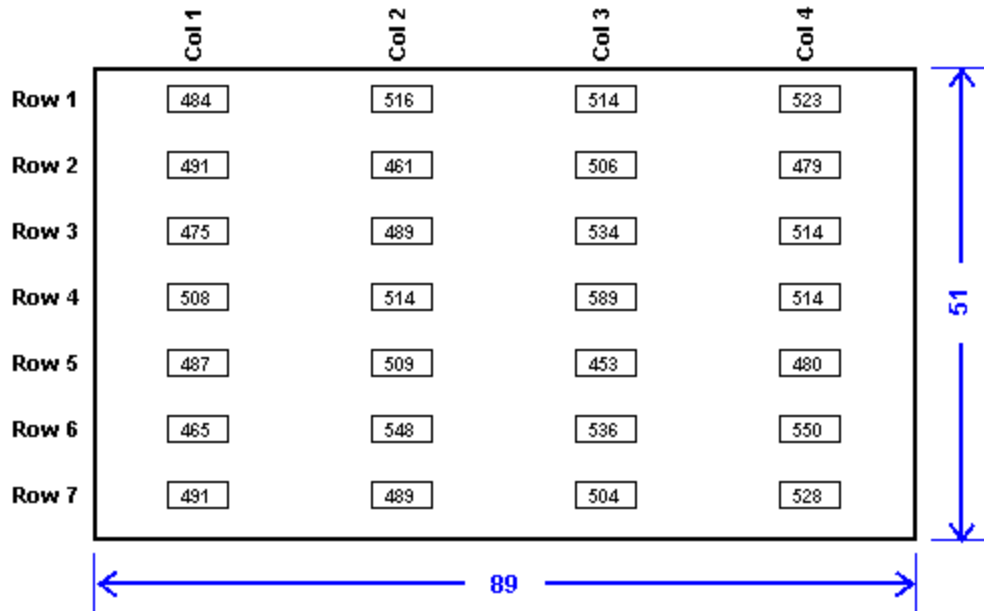
Design Data	
Design CFM	14950 cfm

Final Data	
Sum of Readings	14151 Total FPM
Average Reading	505 fpm
Actual Total CFM	15918 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	51.00 in
Actual Width	89.00 in
Air Flow Area	31.52 sq. ft
Number Of Rows	7
Readings Per Row	4
Total Readings	28

Log:	Date	Tester	Notes
AHU #C1/Coil Traverse	12/23/2020	Cody Lee	VAV 10-49 is not reading flow in the control software.
AHU #C1/Coil Traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 12,475 CFM.
AHU #C1/Coil Traverse	12/23/2020	Cody Lee	Tested @ 60 Hz

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #C2/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

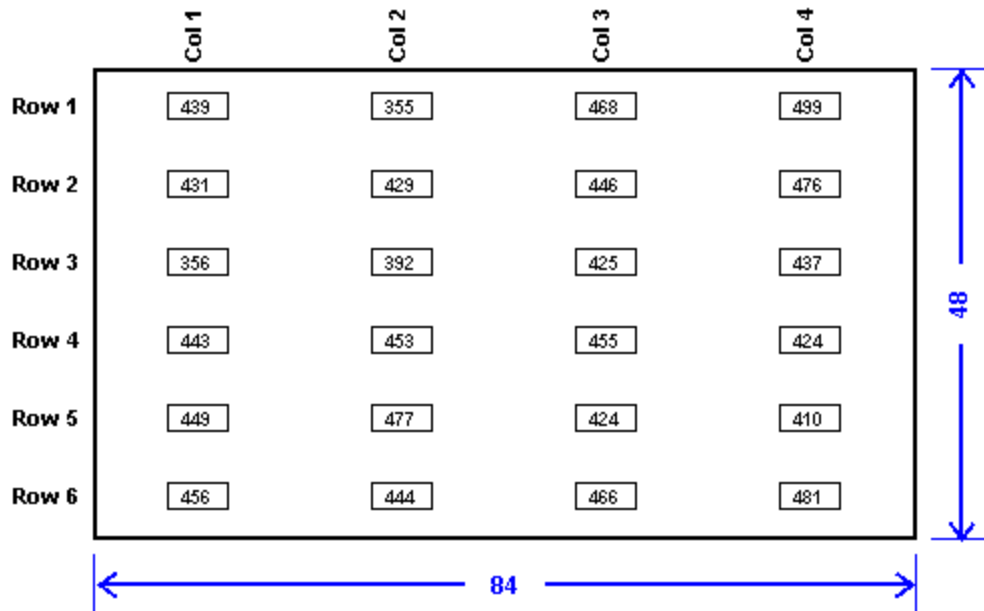
Design Data	
Design CFM	12050 cfm

Final Data	
Sum of Readings	10535 Total FPM
Average Reading	439 fpm
Actual Total CFM	12292 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	48.00 in
Actual Width	84.00 in
Air Flow Area	28.00 sq. ft
Number Of Rows	6
Readings Per Row	4
Total Readings	24

Log:	AHU #C2/Coil Traverse	12/23/2020	Cody Lee	VAV's 4-26, 4-32 & 4-36 are not reading airflow in the control software. Combined airflow at the VAV's according to control software is 8,751 CFM. Tested @ 60 HZ
	AHU #C2/Coil Traverse	12/23/2020	Cody Lee	
	AHU #C2/Coil Traverse	12/23/2020	Cody Lee	

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #C3/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

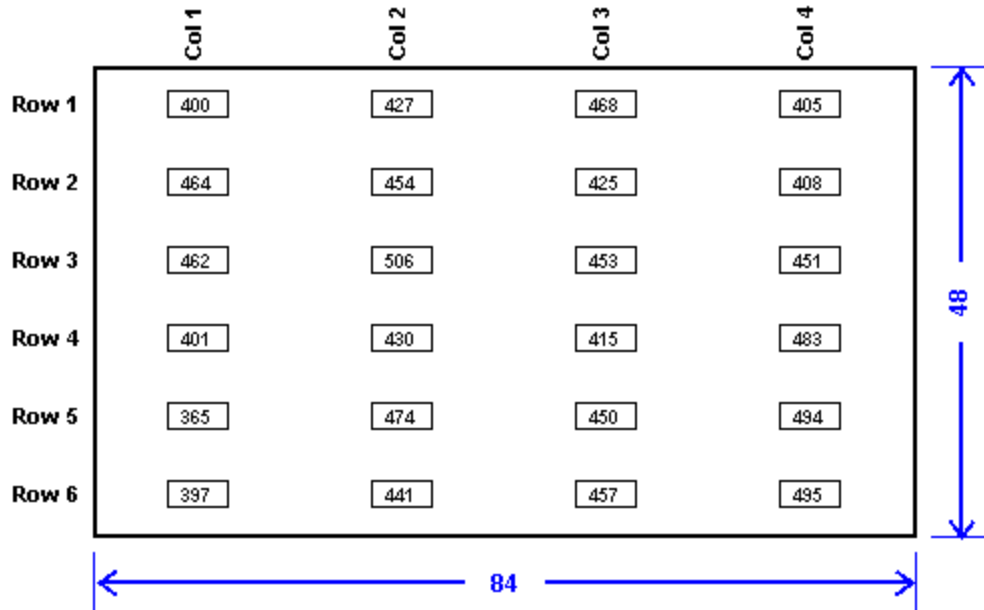
Design Data	
Design CFM	12765 cfm

Final Data	
Sum of Readings	10625 Total FPM
Average Reading	443 fpm
Actual Total CFM	12404 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	48.00 in
Actual Width	84.00 in
Air Flow Area	28.00 sq. ft
Number Of Rows	6
Readings Per Row	4
Total Readings	24

Log:	AHU #C3/Coil Traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 9,165 CFM. Tested @60 HZ
	AHU #C3/Coil Traverse	12/23/2020	Cody Lee	

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #C4

Log:	AHU #C4	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 10,352 CFM. Tested @ 60 HZ
	AHU #C4	12/23/2020	Cody Lee	



Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #C4/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

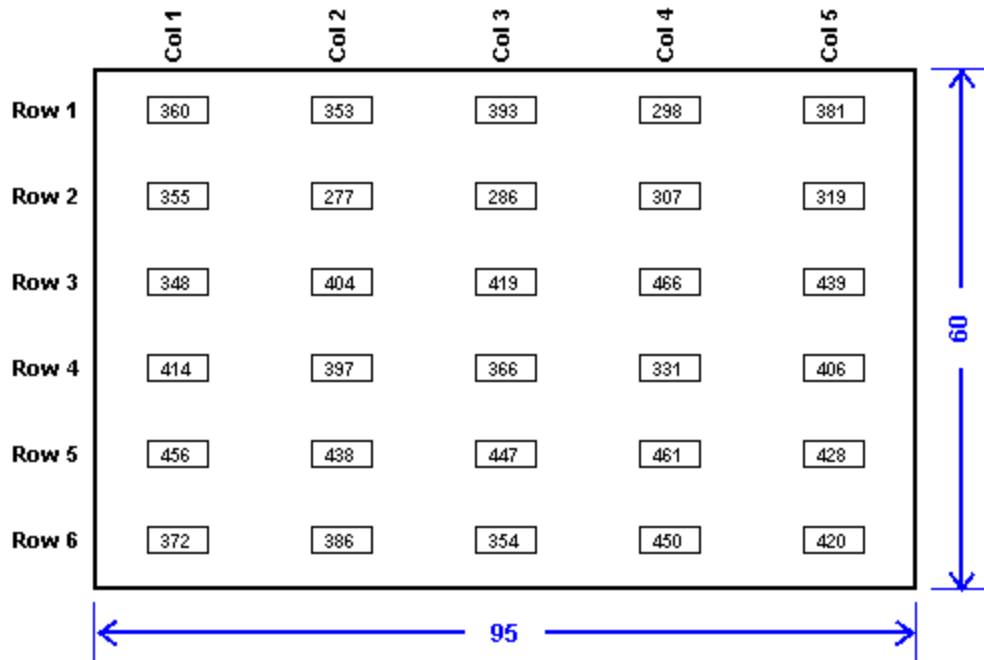
Design Data	
Design CFM	19210 cfm

Final Data	
Sum of Readings	11531 Total FPM
Average Reading	384 fpm
Actual Total CFM	15199 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	60.00 in
Actual Width	95.00 in
Air Flow Area	39.58 sq. ft
Number Of Rows	6
Readings Per Row	5
Total Readings	30

Log: AHU #C4/Coil Traverse 12/23/2020 Cody Lee Tested @60 HZ

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #C5/Coil traverse

Tested By: Cody Lee
 Date: 1/6/2021

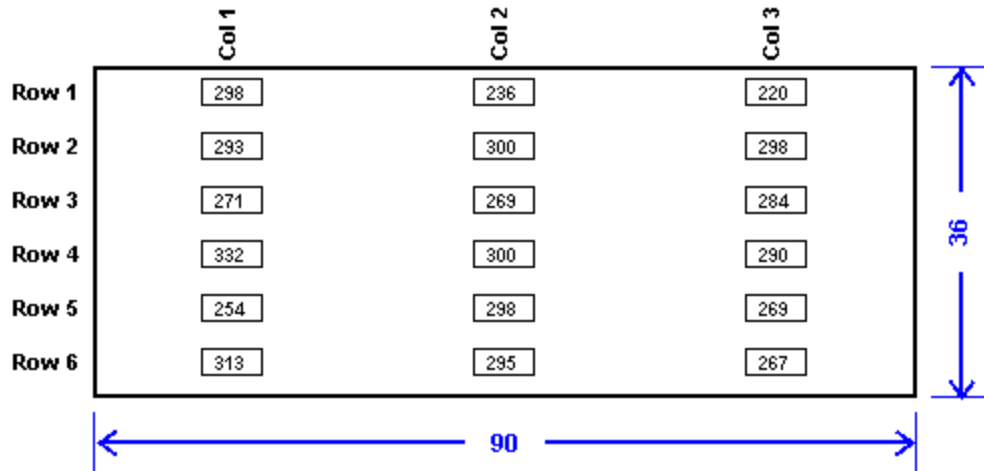
Design Data	
Design CFM	8995 cfm

Final Data	
Sum of Readings	5087 Total FPM
Average Reading	283 fpm
Actual Total CFM	6368 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	36.00 in
Actual Width	90.00 in
Air Flow Area	22.50 sq. ft
Number Of Rows	6
Readings Per Row	3
Total Readings	18

Log:	Description	Date	Tester	Notes
	AHU #C5/Coil traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 7,342 CFM. Tested @ 60 HZ
	AHU #C5/Coil traverse	12/23/2020	Cody Lee	

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #D1/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

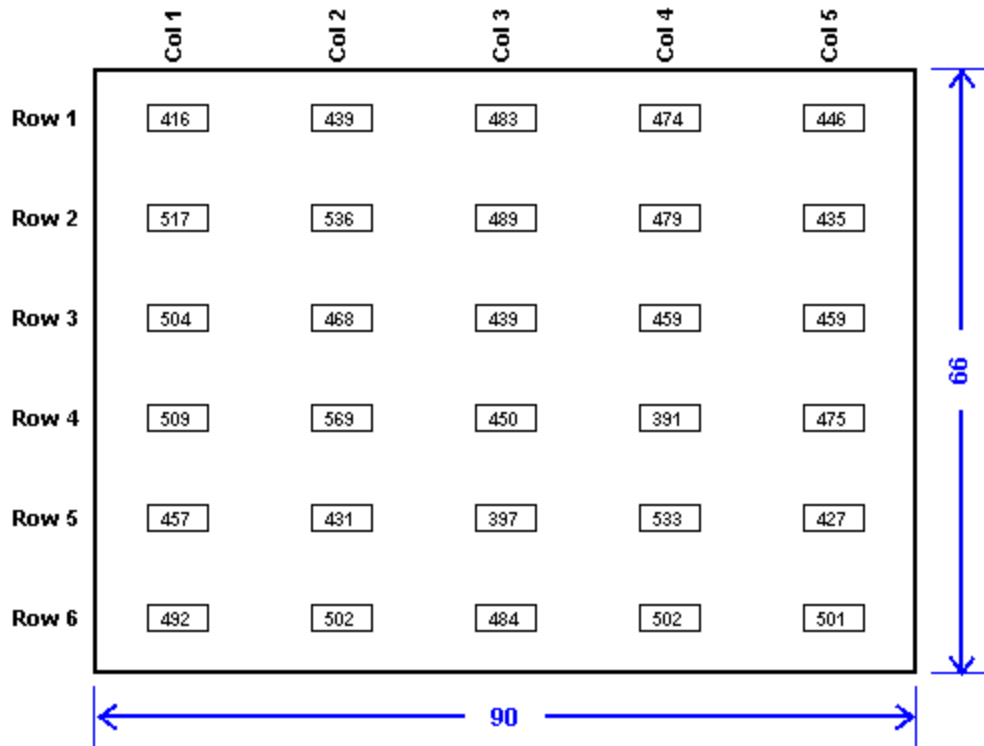
Design Data	
Design CFM	18480 cfm

Final Data	
Sum of Readings	14163 Total FPM
Average Reading	472 fpm
Actual Total CFM	19470 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	66.00 in
Actual Width	90.00 in
Air Flow Area	41.25 sq. ft
Number Of Rows	6
Readings Per Row	5
Total Readings	30

Log:	Date	By	Notes
AHU #D1/Coil Traverse	12/23/2020	Cody Lee	VAV 13-17B is not reading airflow in the control software.
AHU #D1/Coil Traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 13,791 CFM.
AHU #D1/Coil Traverse	12/23/2020	Cody Lee	Tested @ 60 HZ

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #D2/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

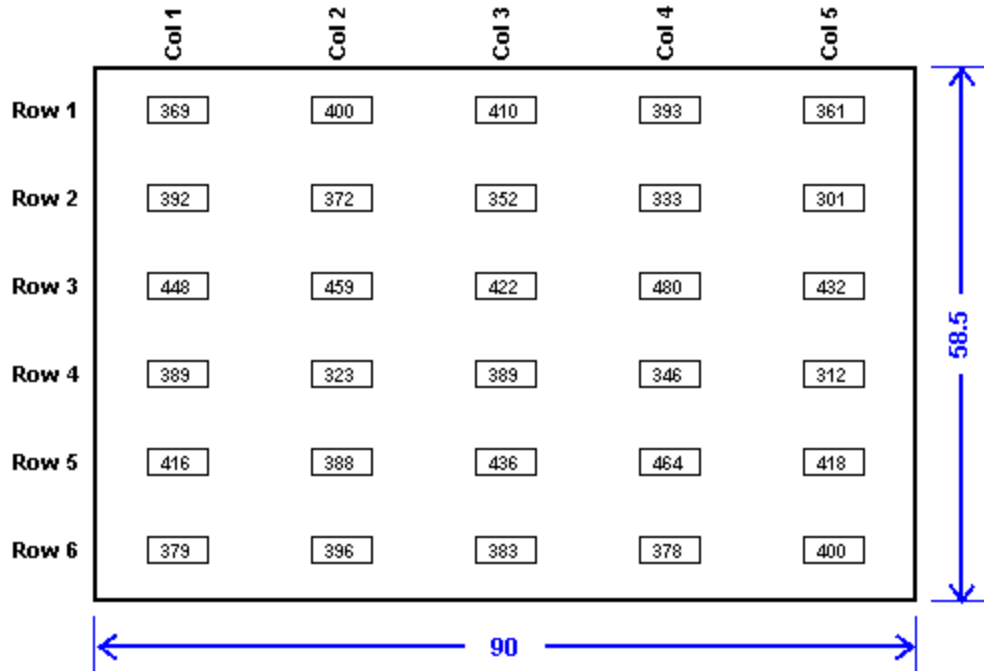
Design Data	
Design CFM	16480 cfm

Final Data	
Sum of Readings	11741 Total FPM
Average Reading	391 fpm
Actual Total CFM	14295 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	58.50 in
Actual Width	90.00 in
Air Flow Area	36.56 sq. ft
Number Of Rows	6
Readings Per Row	5
Total Readings	30

Log:	AHU #D2/Coil Traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 9,584 CFM. Tested @ 60 HZ
	AHU #D2/Coil Traverse	12/23/2020	Cody Lee	

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #D3/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

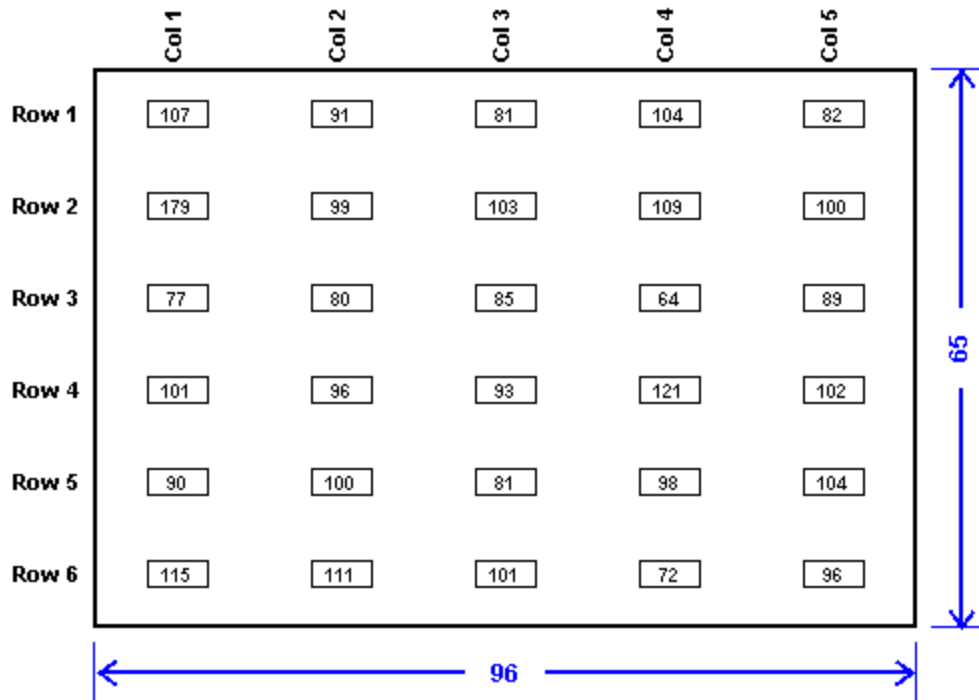
Design Data	
Design CFM	20380 cfm

Final Data	
Sum of Readings	2931 Total FPM
Average Reading	98 fpm
Actual Total CFM	4246 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	65.00 in
Actual Width	96.00 in
Air Flow Area	43.33 sq. ft
Number Of Rows	6
Readings Per Row	5
Total Readings	30

Log:	System/Unit	Date	Tester	Notes
	AHU #D3/Coil Traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 2,694 CFM. Tested @60 HZ Both the return & outside air damper are closed 100% during normal operation.
	AHU #D3/Coil Traverse	12/23/2020	Cody Lee	
	AHU #D3/Coil Traverse	12/23/2020	Cody Lee	

Traverse Data Points





Air Handling Unit

PROJECT: Lakeview Centennial High School Leakage Testing
LOCATION: Garland, TX
PROJECT #: 20100

DATE: 1/6/2021
CONTACT: Cody Lee
AUTHOR: Brady Allen

SYSTEM/UNIT: AHU #D4/Coil Traverse

Tested By: Cody Lee
 Date: 1/6/2021

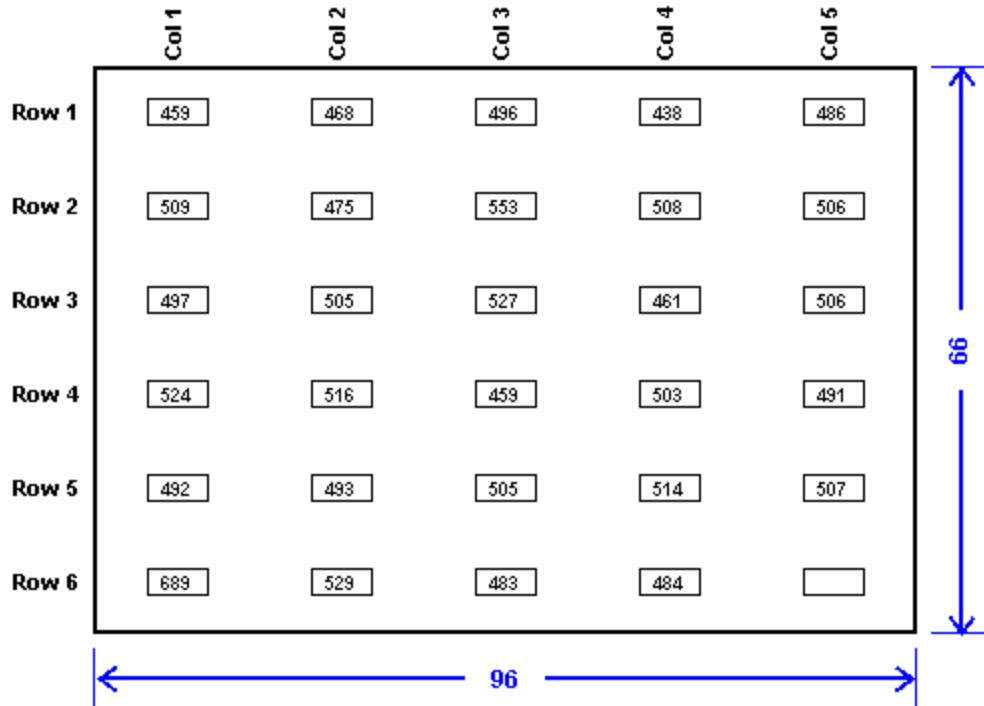
Design Data	
Design CFM	20230 cfm

Final Data	
Sum of Readings	14583 Total FPM
Average Reading	503 fpm
Actual Total CFM	22132 cfm

Traverse Summary	
Type of Traverse	Rectangular
Actual Height	66.00 in
Actual Width	96.00 in
Air Flow Area	44.00 sq. ft
Number Of Rows	6
Readings Per Row	5
Total Readings	30

Log:	AHU #D4/Coil Traverse	12/23/2020	Cody Lee	Combined airflow at the VAV's according to control software is 15,330 CFM. Tested @60 HZ
	AHU #D4/Coil Traverse	12/23/2020	Cody Lee	

Traverse Data Points



COMPLETE SYSTEM BALANCE

PO Box 399 Rockwall, Texas

(972) 965-4289

completesystembalance.com

Terms and Abbreviations

Project: Lakeview High School Leakage Testing

Project #: 20100

ACT	Actual	NG	Not Given
AH	Air Handler	OA	Outside Air
AHU	Air Handling Unit	OBD	Opposed Blade Damper
BOX	VAV Box	OD	Outside Diameter
BHP	Brake Horsepower	PD	Pressure Differential
BTU	British Thermal Units	PH	Phase
BTUH	British Thermal Units Per Hour	PSI	Pounds Per Square Inch
CFM	Cubic Feet Per Minute	RA	Return Air
COND.	Condensor	PH	Relative Humidity
CRAC	Computer Room Air Conditioner	RPM	Revolutions Per Minute
CRU	Computer Room Unit	RTAC	Roof Top Air Conditioner
CU	Condensor Unit	RTU	Roof Top Unit
DB	Dry Bulb	SA	Supply Air
DDC	Direct Digital Controls/EMS	S.F.	Service Factor
EAT	Entering Air Temperature	SF	Supply Fan
EF	Exhaust Fans	SFD	Smoke/Fire Damper
EMS	Energy Management System	SP	Static Pressure
ERU	Energy Recovery Unit	SPEC(S)	Project Specifications
EVAP.	Evaporator	TAB	Test, Adjust, and Balance
EWT	Entering Water Temperature	TACH	Tachometer
EXT. SP	External Static Pressure	TECH	Technician
FCU	Fan Coil Unit	TOTAL SP(TSP)	Total Static Pressure
FD	Fire Damper	TRAVERSE	Flow measuring points in a cross section area
FLA	Full Load Amperage	TU	Terminal Unit
FPB	Fan Powered Box	VAV	Variable Air Volume
FPM	Feet Per Minute	VD	Volume Damper
GPM	Gallons Per Minute	VELGRID	16 point face velocity grid
HEAD	Pressure difference across the entering and leaving side of a pump	VSC	Variable Speed Controller
HP	Horsepower	WB	Wet Bulb
HVAC	Heating Ventilation and Air Conditioning	WSHP	Water Source Heat Pump
HZ	Hertz, cycle per second	Schedule (Sched)	Design data obtained from the mechanical equipment schedules
IN.W.G.	Inches of water gauge	Submittals (subs)	Submitted data on equipment capabilities
KW	Kilowatts	RAF	Return Air Fan
LAT	Leaving Air Temperature	CSB	Complete System Balance
LWT	Leaving Water Temperature		
MBH	1,000 BTUH		
MIN CFM	Minimum cubic feet per minute		
N/A	Not available		

Instrument Calibration List

Instrument type	Manufacturer	Model #	Serial #	Calibration Due Date	Instrument Dates Used	
Tachometer	Shimpo	DT-205L	C08CB0051	9/23/2021	12/23/20 - 1/6/21	
Temperature Meter	Fluke	52 II	24480058	9/11/2021	N/A	N/A
Air Probe	Fluke	80PK-24	NSN	9/15/2021	N/A	N/A
Immersion Probe	Fluke	80PK-22	NSN	9/15/2021	N/A	N/A
Contact Probe	Fluke	80-PK27	NSN	9/15/2021	N/A	N/A
Electrical Measurement	Fluke	177	35500153	9/18/2021	N/A	N/A
Amp Probe	Fluke	i200	122768QKS	9/11/2021	N/A	N/A
Air Pressure	Evergreen	S-PVF-1	2000419A	9/11/2021	12/23/20 - 1/6/21	
Air Velocity	Evergreen	S-PVF-1	2000419A	9/11/2021	12/23/20 - 1/6/21	
Air Volume Direct Hood Reading	Evergreen	S-PVF-1	2000419A	9/11/2021	12/23/20 - 1/6/21	
	Evergreen	CH-15D	2000171	9/18/2021	12/23/20 - 1/6/21	
Humidity Measurement	Fluke	971	47710654	9/15/2021	N/A	N/A
Hydronic Pressue & Differential Pressure	Shortridge	HDM-250	W08034	9/18/2021	N/A	N/A
Duct Leakage Testing	Kanomax	DALT 6900	080087	2/25/2021	N/A	N/A

N/A - Not Applicable

NSN- No Serial Number

Complete System Balance

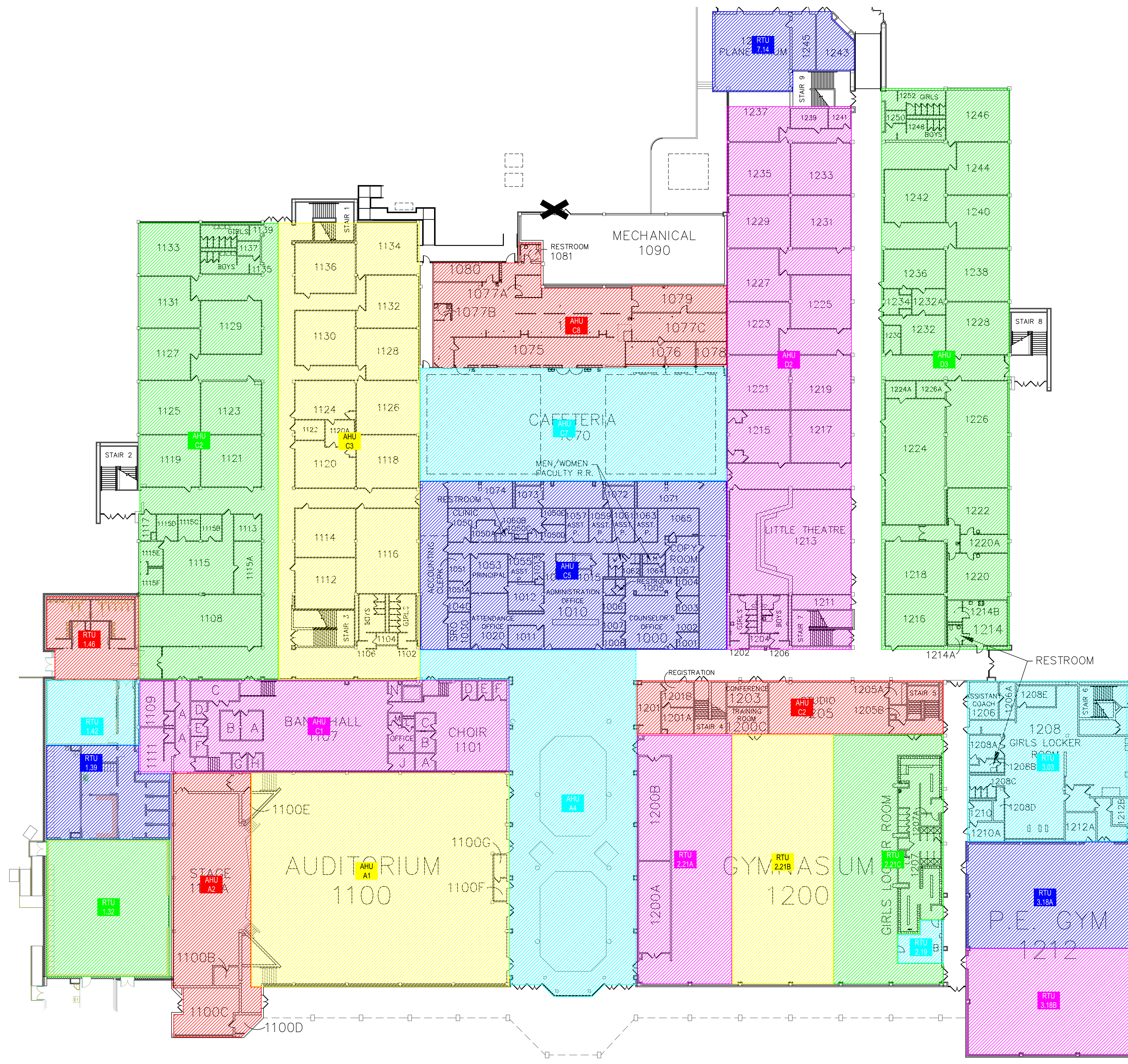
completesystembalance.com

PO Box 399

Rockwall, TX 75087

Phone 972-965-4289

ISSUE DATE	
2019	
REVISION	DATE



1 LAKEVIEW HS MECHANICAL FLOOR PLAN
N.T.S.

HVAC EQUIPMENT FLOOR PLANS
GARLAND INDEPENDENT SCHOOL DISTRICT

EMA JOB #:	JOB #
DRAWN BY:	CJ
CHECKED:	QC

LAKEVIEW HS
MECHANICAL
EQUIPMENT
FLOOR PLAN

SHEET NUMBER
LHS-1.1

ISSUE DATE	2019
REVISION	DATE

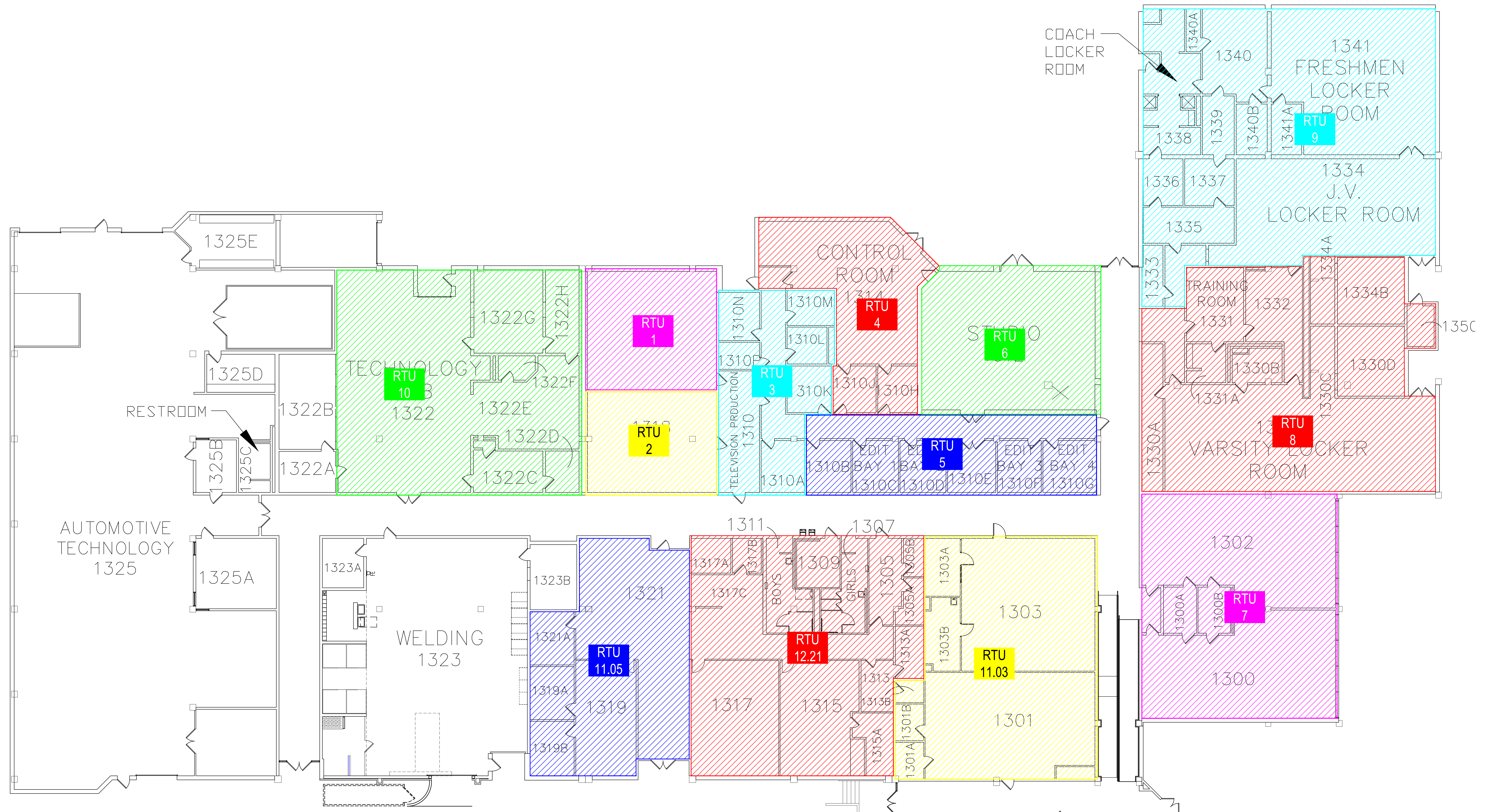
HVAC EQUIPMENT FLOOR PLANS
GARLAND INDEPENDENT SCHOOL DISTRICT

EMA JOB #:	JOB #
DRAWN BY:	CJ
CHECKED:	QC

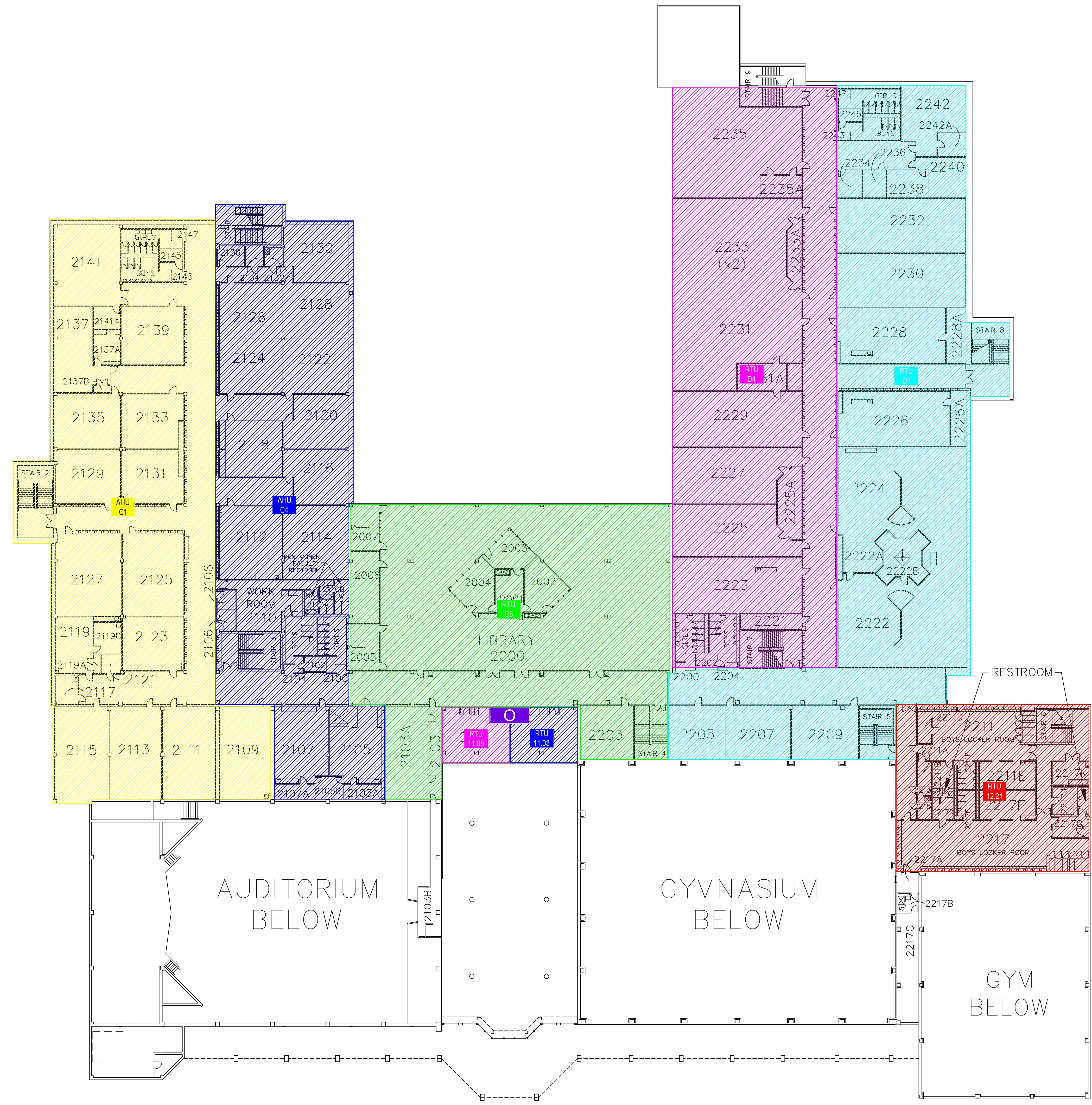
LAKEVIEW HS
MECHANICAL
EQUIPMENT
FLOOR PLAN

SHEET NUMBER

LHS-1.2



1 LAKEVIEW HS MECHANICAL FLOOR PLAN
N.T.S.




SECOND FLOOR

1 LAKEVIEW HS MECHANICAL FLOOR PLAN
N.T.S.



MEMORANDUM

DATE: March 1, 2021
TO: Dr. Brent Ringo, Chief Financial Officer
FROM: Javier Fernandez, Director, Facilities Planning and Construction Services
CC: Paul Gonzales, Executive Director, Facilities and Maintenance
SUBJECT: **Consider Approval of Lakeview Centennial High School HVAC Ductwork Replacement Project**



Garland ISD commissioned the services of EMA to perform a ductwork leakage study after reports of a buckled wall in room 2226. Investigation into buckled wall revealed high pressure HVAC ductwork separation within wall chase. Further investigation revealed additional separations of ductwork at multiple air handling units plenum. The system is experiencing loss of air pressure resulting in low airflow to multiple areas of facility.

I recommend the District proceed with a project to replace HVAC ductwork from air handling units to fan coil units.

Project will be designed by EMA and construction services procured using Competitive Sealed Proposal (CSP). Award of construction project will be presented to Board of Trustees for consideration upon receipt of best value to the District proposal.

The rough order of magnitude estimated project cost is \$797,060 (which includes engineering services of approximately \$39,600).

Potential funding is indicated below.
Education Stabilization Fund (651) 100%

Administrative Recommendation:
For your consideration.



**Garland Independent School District
Board of Trustees**

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Locations of Private Cellular Tower at Jackson Technology Center for Math and Science

Agenda Section: Action Item

Administrator Responsible: Mr. Matt Yeager
Executive Technology Officer

Board Goal Objective:

Not Applicable.

Superintendent's Goal:

Superintendent Goal #3 – Board Relations

The superintendent maintains a positive and productive working relationship with the board of trustees and the community.

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Superintendent Goal #6 – Community Relations & Relationship Building

The superintendent maintains a positive and productive working relationship with District employees and the community.

Summary/Background Information:

Provided are illustrations and updated information related to the proposed locations of the installation of a private cellular tower at Jackson Technology Center for Math and Science.

This agenda item was presented to the Facilities Committee for review on February 9, 2021.

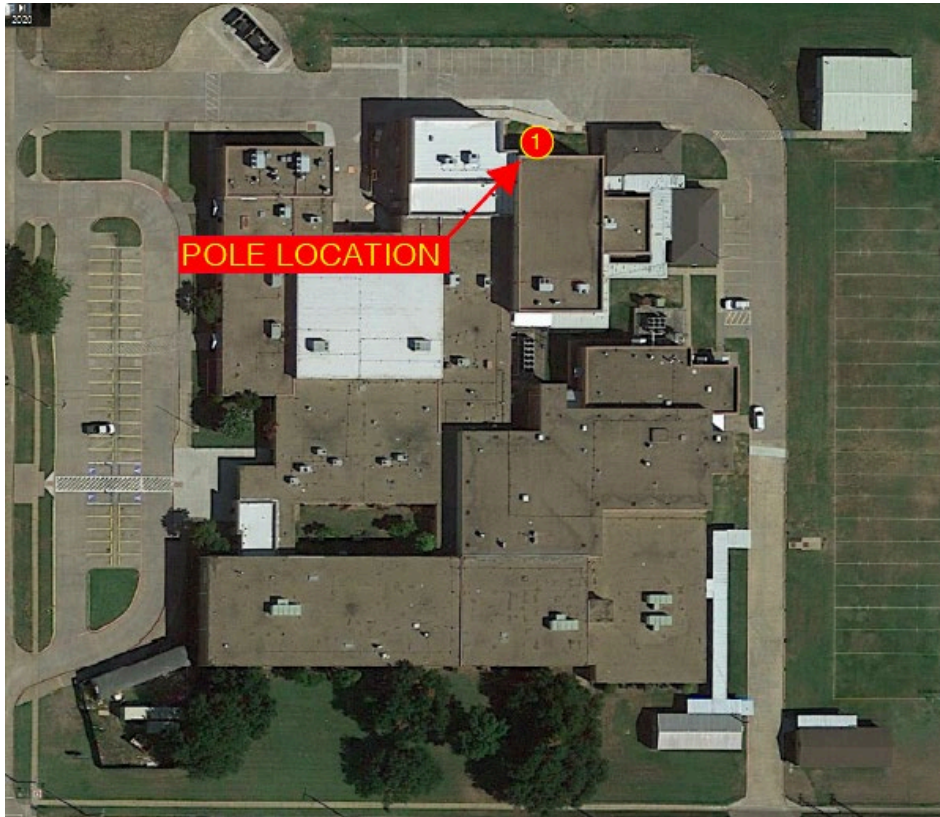
Administrative Recommendations:

Provided for your consideration.



Garland Independent School District Board of Trustees

Overview at Jackson MST



ALTERNATE CELL TOWER LOCATION (NEXT TO DETACHED FIELD HOUSE)





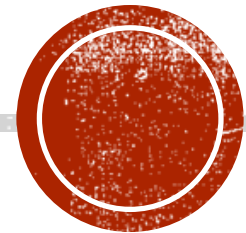
**Garland Independent School District
Board of Trustees**

Example: Tower and Tower Base



PRIVATE CELLULAR NETWORK INFRASTRUCTURE PILOT PROGRAM UPDATE

Board of Trustees-Regular Meeting: March 23, 2021





Garland ISD is committed to ensuring equity and access for ALL GISD students, by providing students with 1:1 devices and 24/7 connectivity to the Internet and all online instructional resources.

GISD is currently educating over 37,000 economically disadvantaged students, which is 68% of the district's total enrollment.

Since 2020, GISD has continued to provide 13,000 hotspots to students who have indicated that they do not have reliable Internet access at home.

Connectivity is vital to continue to support and provide access to GISD's ongoing eLearning programs and initiatives.

WHY PRIVATE CELLULAR NETWORK?



Provides high speed connections up to 100Mbps with unlimited data.



GISD owned and managed towers, network infrastructure, and cellular service. Private cellular tower's Total Cost of Ownership (TCO) is less than ongoing annual service fees for hotspots over 5 years. Potential revenue by leasing space on towers.



GISD owned and managed CPE devices convert cellular signal from the towers to WIFI for GISD devices to connect.



Connected to GISD Data Center. Provides access to GISD network and internet, as well as ensures content and Internet filtering. Just like connecting the GISD WiFi at school.

PRIVATE CELLULAR CONNECTIVITY

- **Citizens Broadband Radio Service (CBRS)** is a 150 MHz wide broadcast band of the 3.5 GHz band (3550 MHz to 3700 MHz) in the United States. In 2017, the US Federal Communications Commission (FCC) completed a process which began in 2012 to establish rules for commercial use of this band, while reserving parts of the band for the US Federal Government to limit interference with US Navy radar systems and aircraft communications.
- On January 27, 2020, the FCC authorized full use of the CBRS band for wireless service provider commercialization without the restrictions to prevent interference with military use of the spectrum. Under the new rules, wireless carriers using CBRS might be able to deploy 5G mobile networks without having to acquire spectrum licenses.

PRIVATE CELLULAR (CBRS) EQUIPMENT

- Nokia AirScale Micro 4T4R CBRS 20 W (AZQC)
- 150 foot monopole installation
- Installing 3 Nokia radios per tower for 360 degree cellular coverage.
- Provides up to 2 miles of cellular coverage with high speed connectivity of up to 100Mbps with unlimited data.

Table 16 AZQC functional specification

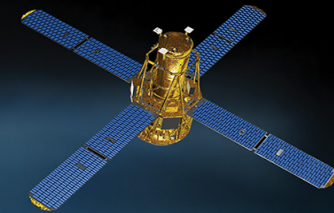
Property	Value
Output power	4x5 W
QAM modulation	up to 256 QAM DL
	up to 64 QAM UL
Number of TXRX	4TX4RX
Outdoor installation	Yes
Beamforming	No
SW supported technology	TD-LTE
Frequency range	3550 - 3700 MHz
Instantaneous bandwidth	150 MHz
	i Note: 150 MHz is conditionally supported. It is limited by any adjacent two carriers. The distance from the first carrier's center to the second carrier's farther edge cannot be larger than 110 MHz.
Number of carriers per pipe	Up to four
Supported bandwidths	10, 20 MHz



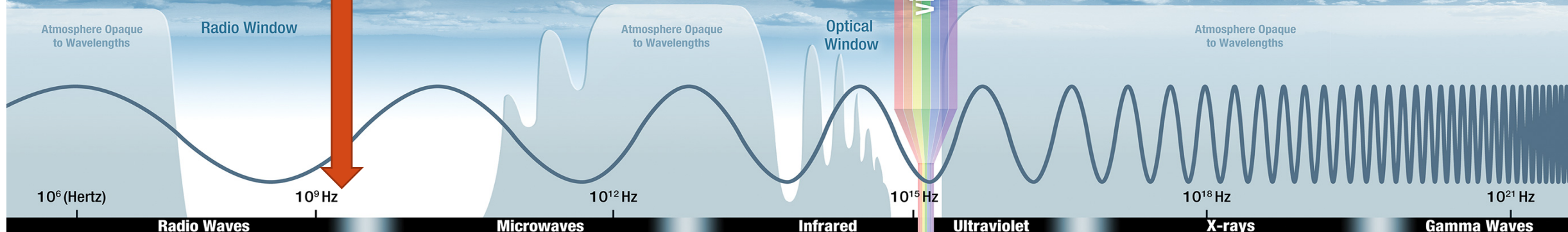
CELLULAR TOWERS

HEALTH & SAFETY INFORMATION

- Review of established national and international regulatory and health authorities on radiofrequency (RF) exposure on humans from cell towers.
 - **Electromagnetic Spectrum**
 - https://science.nasa.gov/ems/01_intro (watch video - Introduction to the Electromagnetic Spectrum)
 - **Federal Communications Commission (FCC)**
 - An independent U.S. government agency overseen by Congress, the Commission is the federal agency responsible for implementing and enforcing America's communications law and regulations. www.fcc.gov
 - **Terracon**
 - Terracon is a multi-discipline firm specializing in environmental, facilities, geotechnical, and materials services. www.terracon.com
 - **Nokia**
 - Global manufacturer of mobile technologies. www.nokia.com
 - **American Cancer Society (ACS)**
 - Established in 1913, the ACS is a nationwide voluntary health organization dedicated to eliminating cancer. www.cancer.org
 - **World Health Organization (WHO)**
 - Established in 1948, the WHO is a specialized agency of the United Nations responsible for international public health. www.who.int



**CBRS/Nokia radio
frequency (RF)
3550 – 3700 MHz**



10⁶ (Hertz) **10⁹ Hz** **10¹² Hz** **10¹⁵ Hz** **10¹⁸ Hz** **10²¹ Hz**

Radio Waves **Microwaves** **Infrared** **Visible Light** **Ultraviolet** **X-rays** **Gamma Waves**

10² (meters) **10¹ m** **10⁰ m (1 m)** **10⁻¹ m** **10⁻² m (1 cm)** **10⁻³ m** **10⁻⁴ m** **10⁻⁵ m** **10⁻⁶ m (1 μm)** **10⁻⁷ m** **10⁻⁸ m** **10⁻⁹ m (1 nm)** **10⁻¹⁰ m** **10⁻¹¹ m** **10⁻¹² m**

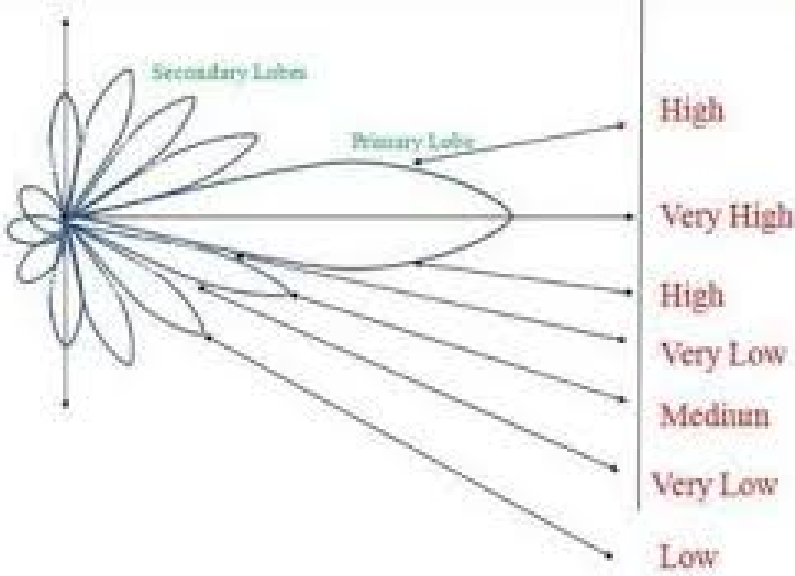
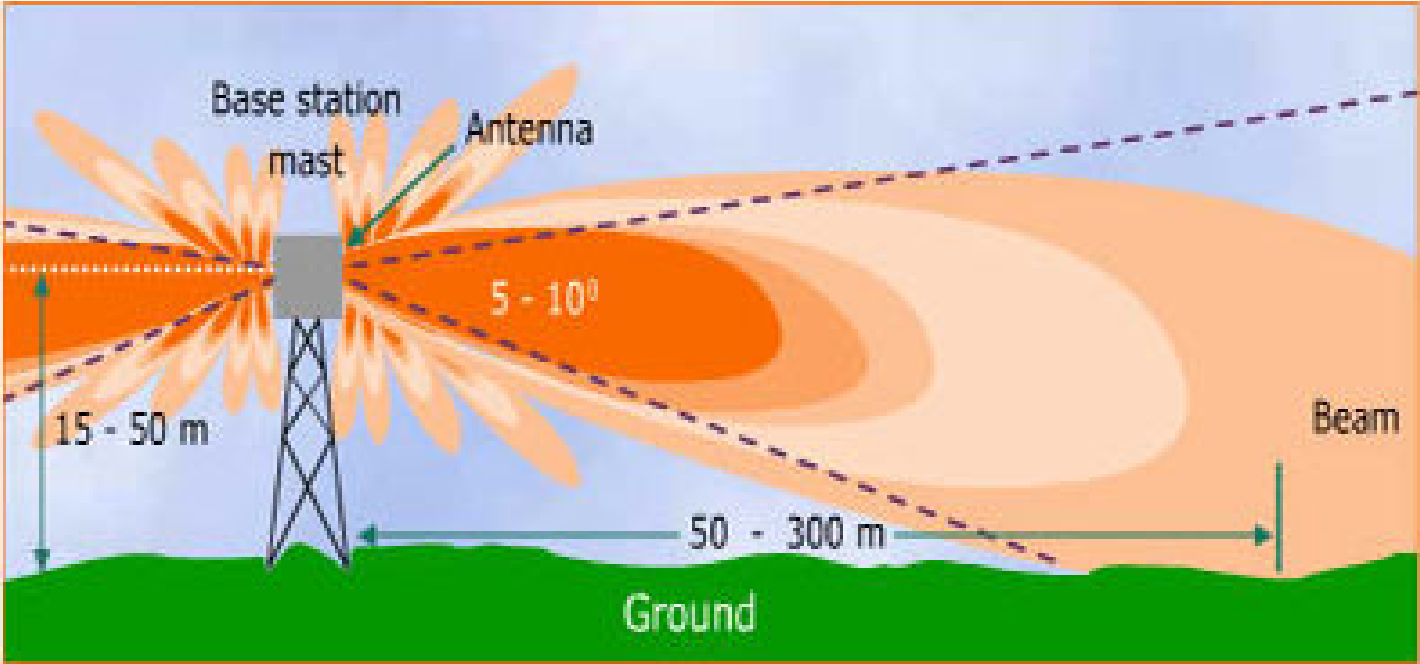
Wavelength = length of a football field Wavelength = width of a baseball Wavelength = thickness of paper Wavelength = width of a water molecule Wavelength = size of atomic nuclei

AM radio **FM Radio** **Cell Phone and Wi-Fi** **Microwave Oven** **Human bodies radiate heat** **Remotes** **Visible Light** **Sunburn** **Medical X-rays** **Nuclear Power**

WHAT IS NON-IONIZING RADIATION?

- According to the FCC, "Ionization" is a process by which electrons are stripped from atoms and molecules. This process can produce molecular changes that can lead to damage in biological tissue, including effects on DNA, the genetic material of living organisms. This process requires interaction with high levels of electromagnetic energy. Those types of electromagnetic radiation with enough energy to ionize biological material include X-radiation and gamma radiation. Therefore, X-rays and gamma rays are examples of ionizing radiation."
- "The energy levels associated with RF and microwave radiation, on the other hand, are not great enough to cause the ionization of atoms and molecules, and RF energy is, therefore, is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible and infrared light. Often the term "radiation" is used, colloquially, to imply that ionizing radiation (radioactivity), such as that associated with nuclear power plants, is present. Ionizing radiation should not be confused with the lower-energy, non-ionizing radiation with respect to possible biological effects, since the mechanisms of action are quite different."

CELL TOWER RF RADIATION PATTERN



FEDERAL COMMUNICATIONS COMMISSION

INFORMATION

- According to the FCC, “The RF emissions from cellular or PCS base station antennas are generally directed toward the horizon in a relatively narrow pattern in the vertical plane. In the case of sector (panel) antennas, the pattern is fan-shaped, like a wedge cut from a pie. As with all forms of electromagnetic energy, the power density from the antenna decreases rapidly as one moves away from the antenna. Consequently, ground-level exposures are much less than exposures if one were at the same height and directly in front of the antenna.”
- “Measurements made near typical cellular and PCS installations, especially those with tower-mounted antennas, have shown that ground-level power densities are hundreds to thousands of times less than the FCC's limits for safe exposure. This makes it extremely unlikely that a member of the general public could be exposed to RF levels in excess of FCC guidelines due solely to cellular or PCS base station antennas located on towers or monopoles.”
- Source: <https://www.fcc.gov/consumers/guides/human-exposure-radio-frequency-fields-guidelines-cellular-and-pcs-sites>

ARE CELLULAR AND OTHER RADIO TOWERS LOCATED NEAR HOMES OR SCHOOLS SAFE FOR RESIDENTS AND STUDENTS?

- According to the FCC, “As discussed above, radiofrequency emissions from antennas used for cellular and PCS transmissions result in exposure levels on the ground that are typically thousands of times below safety limits. These safety limits were adopted by the FCC based on the recommendations of expert organizations and endorsed by agencies of the Federal Government responsible for health and safety. Therefore, there is no reason to believe that such towers could constitute a potential health hazard to nearby residents or students.”
- Source: <https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

TERRACON - INDEPENDENT REVIEW

- Based on an independent review of the CBRS/Nokia radio frequency (RF) specifications and the 150ft monopole installation, Terracon's initial calculation shows the maximum RF exposure to be well below the FCC maximum permissible limit.

NOKIA - EXPOSURE POSITION STATEMENT

- According to Nokia's *exposure to radio waves position statement* (8/23/2019), "Nokia designs wireless network products that both transmit and receive radio frequency (RF) energy. We ensure that our product portfolio — including macro cells, small cells, which support 2G/3G/4G/5G mobile radio access technologies and other technologies such as Wi-Fi — comply with established national and international standards and regulations on RF exposure."
- Source: https://www.nokia.com/sites/default/files/2019-09/Nokia-RF_exposure-Position-Statement-190823.pdf

AMERICAN CANCER SOCIETY INFORMATION

- According to the ACS, “RF waves from a cell phone tower antenna, like those from other telecommunication antennas, are directed toward the horizon (parallel to the ground), with some downward scatter. Base station antennas use higher power levels than other types of land-mobile antennas, but much lower levels than those from radio and television broadcast stations. The amount of energy from RF waves decreases rapidly as the distance from the antenna increases. As a result, the level of exposure to RF waves at ground level is much lower than the level close to the antenna.”
- “At ground level near typical cellular base stations, the amount of energy from RF waves is hundreds to thousands of times less than the limits for safe exposure set by the US Federal Communication Commission (FCC) and other regulatory authorities. It is very unlikely that a person could be exposed to RF levels in excess of these limits just by being near a cell phone tower.”
- “At this time, there’s no strong evidence that exposure to RF waves from cell phone towers causes any noticeable health effects.”
- Source: <https://www.cancer.org/cancer/cancer-causes/radiation-exposure/cellular-phone-towers.html>

WORLD HEALTH ORGANIZATION

INFORMATION

- According to the WHO, “A common concern about base station and local wireless network antennas relates to the possible long-term health effects that whole-body exposure to the RF signals may have. To date, the only health effect from RF fields identified in scientific reviews has been related to an increase in body temperature (> 1 °C) from exposure at very high field intensity found only in certain industrial facilities, such as RF heaters. The levels of RF exposure from base stations and wireless networks are so low that the temperature increases are insignificant and do not affect human health.”
- “The strength of RF fields is greatest at its source, and diminishes quickly with distance. Access near base station antennas is restricted where RF signals may exceed international exposure limits. Recent surveys have indicated that RF exposures from base stations and wireless technologies in publicly accessible areas (including schools and hospitals) are normally thousands of times below international standards.”
- Source: <https://www.who.int/teams/environment-climate-change-and-health/radiation-and-health/electromagnetic-fields-and-public-health>

PRIVATE CELLULAR PILOT PROGRAM RECAP

GISD Pilot Site Locations:

Based on the GISD Internet Access Heat Map, the pilot sites represent the highest density of students without internet access.

- **Jackson MST Area**
 - 2,112 students within 1.8 miles without reliable internet at home
- **Pilot Site #2 - TBD**
 - Potential pilot site:
 - **Memorial Pathway Academy Area**
 - 3,567 students within 1.8 miles without reliable internet at home

~200 students per site will be selected for the Pilot Program.



JACKSON MST – ALTERNATE POLE LOCATION





QUESTIONS?



**Garland Independent School District
Board of Trustees**

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Purchase of Maintenance General Trades Merchandise and Services
One (1) Year with Four (4) Annual Renewal Options

Agenda Section: Action Item

Administrator Responsible: Mr. Paul Gonzales
Executive Director of Facilities and Maintenance

Board Goal Objective:

Not Applicable.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Shown is the recommendation of the bids for maintenance general trades merchandise and services for the District, discussed in the March 9, 2021 Finance Committee Meeting. It is staff's recommendation that the bid be awarded as indicated below.

See Attached List.

The estimated total amount of the bid is not to exceed \$2,000,000. Potential funding is indicated below.

General Fund (199) – 75%
CARES Act (266) – 25%

Administrative Recommendations:

Provided for your consideration.

**ADMINISTRATION RECOMMENDATION
FOR BOARD OF TRUSTEES APPROVAL**

RECOMMENDATION:

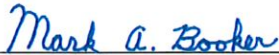
It is the administration's recommendation that the offer(s) for **Maintenance General Trades Merchandise and Services** from the company or companies listed below provides the best value to the Garland Independent School District.

See Attached List

NOT TO EXCEED AMOUNT:

\$ 2,000,000

Procurement Method:	Request for Proposal
Contract Number:	215-21
Contract Term:	One (1) year with four (4) annual renewal options.
Potential Funding Source:	(199 General Fund) 75% (266 CARES Act) 25%



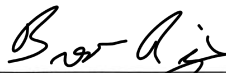
Mark A. Booker
Executive Director of Purchasing



Paul Gonzales
Executive Director of
Facilities and Maintenance

Attest:

I have examined the information provided by staff in recommending the award above.



Brent Ringo, Ed.D.
Chief Financial Officer



Garland Independent School District

DATE: February 5, 2021

TO: Mark A. Booker, Executive Director of Purchasing

FROM: Edmund Lee, Coordinator Facility and Maintenance Business Operations

RE: Recommendation to Award RFP 215-21 Maintenance General Trades
Merchandise and Services

Action Required

New Award

Material/Service

General Trade Maintenance Merchandise and Services

Purpose

The following agreement will be used to address district wide work-orders and allow for the procurement of General Trade Materials, Service transactions and COVID-19 initiatives.

Board Goal Objective

Not Applicable

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Recommended Amount

\$2,000,000 - 199 General Fund 75% and 266 CARES Act 25%

RFP 215-21 MAINTENANCE GENERAL TRADES MERCHANDISE AND SERVICES

Awarded Suppliers

CABINETS AND HARDWARE SUPPLIES

Mavich LLC*

DOORS: METAL, SOLID CORE, STAINLESS STEEL

Door Industry Inc*

Eastern Plumbing Supply

Mavich LLC

KEYS, LOCKS, DOOR CLOSERS, HANDLES, STOPS

Centar Industries Inc

Door Industry Inc

Independent Hardware Inc

Mavich LLC

WELDING PRODUCTS AND SERVICE

Mitchell Welding Supply*

STONEMASONRY SUPPLIES

Mavich LLC

FLOORING AND SUPPLIES

Mavich LLC

CONCRETE SUPPLIES

Cooper Concrete

Eastern Plumbing Supply

RESTROOM PARTITIONS AND PARTS

Centar Industries Inc

Mavich LLC

Michael Wiethorn

CAFETERIA SEATS AND PARTS

Centar Industries Inc

PORCELAIN SURFACE WHITEBOARDS

Centar Industries Inc

Michael Wiethorn

Mavich LLC

CLASSROOM FLAGS AND BRACKETS

Centar Industries Inc

LANDSCAPING EQUIPMENT AND PARTS

American Tool & Fastener

Deen Implement Co

Irrigators Supply

Mavich LLC

Richardson Saw and Lawn Mower Company Incorporated

Four Brothers Outdoor Power

The District solicited 412 suppliers and received 34 responses.

*Indicates New Award

RFP 215-21 MAINTENANCE GENERAL TRADES MERCHANDISE AND SERVICES

Awarded Suppliers

IRRIGATION EQUIPMENT AND PARTS

Irrigators Supply
Site One Landscape Supply LLC

MOTOR AND HYDRAULIC OIL, ANTIFREEZE, CLEANERS

Mavich LLC
Nuco Industries Inc
Winfield Solutions LLC

COMPRESSOR EQUIPMENT AND SERVICES

Johnson Supply and Equipment Corporation
Tech Plan
Texas Airsystems LLC
United Mechanical

HVAC EQUIPMENT, PARTS AND SERVICES

Central Engineering and Supply
Entech Sales and Service
Johnson Supply and Equipment Corporation
Mavich LLC
Texas Airsystems LLC
United Mechanical

ELECTRICAL EQUIPMENT AND SUPPLIES

Crawford Electric Supply Company Inc
Entech Sales and Service

PLUMBING SUPPLIES

Eastern Plumbing Supply
United Mechanical
Winston Water Cooler Inc

FLOOR CLEANING EQUIPMENT AND SUPPLIES

Mavich LLC
Wedge Supply Inc

FENCING SUPPLIES

Mavich LLC

Playground Equipment and Services

Total Recreation Products Inc

LANDSCAPING PLANTS, SUPPLIES AND SERVICES

Covington Landscape and Nursery
Site One Landscape Supply LLC

SAND AND GRAVEL

Cleaner Image*
Winfield Solutions LLC

The District solicited 412 suppliers and received 34 responses.

*Indicates New Award

RFP 215-21 MAINTENANCE GENERAL TRADES MERCHANDISE AND SERVICES

Awarded Suppliers

PLAYGROUND MULCH MATERIAL

Bailey Bark Material Incorporated

Soil Express LTD

HOTSY POWER WASHER REPAIR

North Texas Sales & Distribution LLC

LUMBER

International Architectural Metals Inc*

The District solicited 412 suppliers and received 34 responses.

*Indicates New Award



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Purchase of PK Textbook Adoption One (1) Year with Two (2) Annual Renewal Options

Agenda Section: Action Item

Administrator Responsible: Dr. Jovan Grant-Wells
Chief Academic Officer

Board Goal Objective:

OBJECTIVE A: EARLY LITERACY (Reading)

Percent of students in grade 3 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Reading.

OBJECTIVE B: EARLY LITERACY (Writing)

Percent of students in grade 4 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Writing.

OBJECTIVE C: ENGLISH LANGUAGE ACQUISITION

Percent of ELL students demonstrating English language acquisition, as measured by yearly progress indicator on the Texas English Language Proficiency Assessment System (TELPAS).

Superintendent's Goal:

Superintendent Goal #1 – Student Results

Garland ISD will ensure ALL students graduate prepared for college, careers and life by increasing student performance measures, postsecondary readiness, and graduation rates and decreasing student management incidences.

Summary/Background Information:

Shown is the recommendation of the bids for PK textbook adoption for the District, discussed in the March 9, 2021 Finance Committee Meeting. It is staff's recommendation that the bid be awarded as indicated below.

Frog Street Press, LLC.

The estimated total amount of the bid is not to exceed \$1,500,000. Potential funding is indicated below.

State Textbook Fund (410)

Administrative Recommendations:

Provided for your consideration.

**ADMINISTRATION RECOMMENDATION
FOR BOARD OF TRUSTEES APPROVAL**

RECOMMENDATION:

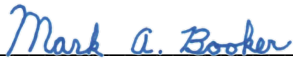
It is the administration's recommendation that the offer(s) for **PK Textbook Adoption** from the company or companies listed below provides the best value to the Garland Independent School District.

Frog Street Press, LLC.

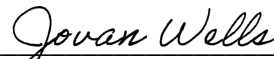
NOT TO EXCEED AMOUNT:

\$ 1,500,000

Procurement Method:	Interlocal Contract EPCNT
Contract Number:	321-21
Contract Term:	One (1) year with two (2) annual renewal options.
Potential Funding Source:	(410 State Textbook Fund)



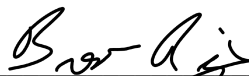
Mark A. Booker
Executive Director of Purchasing



Jovan Grant-Wells, Ph.D.
Chief Academic Officer

Attest:

I have examined the information provided by staff in recommending the award above.



Brent Ringo, Ed.D.
Chief Financial Officer



Garland Independent School District

DATE: February 4, 2021

TO: Mayte Martinez, Buyer

FROM: Charles Rose, Textbooks Coordinator

RE: Recommendation to Award Contract 321-21 PK Textbook Adoption

Action Required

New award

Material/Service

Pre-K new adoption material for meeting the TEKS.

Purpose

Instructional materials for teachers and students in Pre-K.

Board Goal Objective

OBJECTIVE A: EARLY LITERACY (Reading)

Percent of students in grade 3 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Reading.

OBJECTIVE B: EARLY LITERACY (Writing)

Percent of students in grade 4 demonstrating early literacy as measured by Meets Grade Level performance on STAAR Writing.

OBJECTIVE C: ENGLISH LANGUAGE ACQUISITION

Percent of ELL students demonstrating English language acquisition, as measured by yearly progress indicator on the Texas English Language Proficiency Assessment System TELPAS.

Superintendent's Goal

Superintendent Goal #1 – Student Results

Garland ISD will ensure ALL students graduate prepared for college, careers and life by increasing student performance measures, postsecondary readiness, and graduation rates and decreasing student management incidences.

Recommended Amount

\$1,500,000 – 410 State Textbook Fund



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Consider Extension of Test and Balance Services
Extend One (1) Year with a One (1) Year Additional
Renewal Option

Agenda Section: Action Item

Administrator Responsible: Mr. Paul Gonzales
Executive Director of Facilities and Maintenance

Board Goal Objective:

Not Applicable.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Shown is the bid for RFQ #204-16 Test and Balance Services for the district. The Board of Trustees previously approved the five (5) year agreement for the companies listed below. It is staff's recommendation that the agreement be extended for one (1) year with one (1) year additional renewal option.

Air Engineering and Testing, Inc.
Delta-T, Ltd.
Campos Engineering, Inc. (HUB)

The estimated total amount of the bid is not to exceed \$500,000. Potential funding is indicated below.

General Fund (199) – 90%
2014 Bond Program Funds (681) – 10%

This agenda item was presented at the Facilities Committee and Finance Committee for review on March 9, 2021.

Administrative Recommendations:

Provided for your consideration.

**ADMINISTRATION RECOMMENDATION
FOR BOARD OF TRUSTEES APPROVAL**

RECOMMENDATION:

It is the administration's recommendation that the offer(s) for **Test and Balance Services** from the company or companies listed below provides the best value to the Garland Independent School District.

ORIGINAL NOT TO EXCEED AMOUNT: **\$1,300,000**
(May 24, 2016)

REVISED NOT TO EXCEED AMOUNT: **\$500,000**

Procurement Method:	Request for Qualifications
Contract Number:	204-16
Contract Term:	One (1) Year with (1) Annual Renewal Option
Potential Funding Source:	199 General Fund – 90% 681 Bond Authorization Fund – 10%



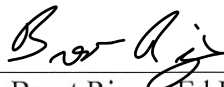
Mark A. Booker
Executive Director of Purchasing



Paul Gonzales
Executive Director of
Facilities & Maintenance

Attest:

I have examined the information provided by staff in recommending the award above.




Brent Ringb, Ed.D.
Chief Financial Officer



Garland Independent School District

DATE: January 28, 2021

TO: Mark Booker, Executive Director of Purchasing

FROM: Paul Gonzales, Executive Director of Facilities and Maintenance 

RE: Consider Extension of RFQ #204-16 Test and Balance Services

On May 26, 2016, the Board of Trustees approved the RFQ #204-16 Test and Balance Services agreement for a contract term of one (1) year with four (4) annual renewal options for the companies listed below. I recommend that the contract term be extended for one (1) year with one (1) year additional renewal option with the approved companies.

Air Engineering and Testing, Inc.
Delta-T, Ltd.
Campos Engineering, Inc. (HUB)

Thank you.

cc: Javier Fernandez
Nancy Nunez



Garland Independent School District Board of Trustees

Date of Meeting: March 23, 2021

Agenda Item: Consider Approval of Increase in the Project Owner Contingency Amount for Coyle Middle School Fine Arts Addition and Renovations (2014 Bond Program)

Agenda Section: Action Item

Administrator Responsible: Mr. Javier Fernandez
Director of Facilities Planning and Construction Services

Board Goal Objective:

Not Applicable.

Superintendent's Goal:

Superintendent Goal #5 – District Management

The superintendent demonstrates effective planning and management of the district administration, finances, operations, and personnel.

Summary/Background Information:

Shown is the recommendation for the increase of the project owner controlled contingency allowance amount which is within the approved budget for project number 681050 (Coyle Middle School) Contract #500-4.4-19. It is staff's recommendation that in order to complete pending work items, the project owner controlled contingency allowance amount be increased as indicated below. Project substantial completion was achieved on January 25, 2021.

Gilbert May, Inc. dba Phillips/May Corporation

Original Not-to-Exceed Approved Budget Amount (March 26, 2019)	\$1,894,333
Board Approved Increase Not-to-Exceed Approved Budget Amount (August 25, 2020)	\$1,944,333
Net Increase Amount	\$31,210

The total not to exceed amount is \$1,975,543. The potential funding is as indicated below.

2014 Bond Authorization (681)

This agenda item was presented at the Facilities Committee and Finance Committee for review on March 9, 2021.

Administrative Recommendations:

Provided for consideration.

**ADMINISTRATION RECOMMENDATION
FOR BOARD OF TRUSTEES APPROVAL**

RECOMMENDATION:

It is the administration's recommendation that the offer(s) for **Coyle MS Fine Arts Addition and Renovations** from the company or companies listed below provides the best value to the Garland Independent School District.

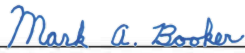
NOT TO EXCEED BOARD APPROVED BUDGET AMOUNT: **\$ 1,894,333**
(March 26, 2019)

REVISED NOT TO EXCEED AMOUNT: **\$1,944,333**
(August 25, 2020)

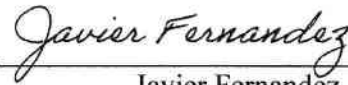
NET INCREASE AMOUNT **\$31,210**

REVISED NOT TO EXCEED AMOUNT: **\$1,975,543**

Procurement Method:	Competitive Sealed Proposal
Contract Number:	500-4.4-19
Contract Term:	Substantial Completion November 20, 2020
Potential Funding Source:	681 Bond Authorization Fund-100%



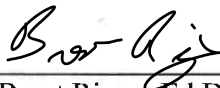
Mark A. Booker
Executive Director of Purchasing



Javier Fernandez
Director of Facilities Planning
and Construction Services

Attest:


I have examined the information provided by staff in recommending the award above.



Brent Ringo, Ed.D.
Chief Financial Officer



MEMORANDUM

DATE: February 23, 2021
TO: Dr. Brent Ringo, Chief Financial Officer
FROM: Javier Fernandez, Director, Facilities Planning and Construction Services 
CC: Paul Gonzales, Executive Director, Facilities and Maintenance
SUBJECT: **CSP 500-4.4-19 (PH4-BP04) Consider Approval of Increase in the Project Owner Contingency Amount for Coyle Middle School Fine Arts Addition and Renovation (2014 Bond Program)**

I recommend the increase to the project owner controlled contingency for the Coyle Middle School Fine Arts Addition and Renovation (2014 Bond Program) be accepted. The original not-to-exceed amount of \$1,894,333 was approved on March 26, 2019. Increase to the not-to-exceed amount of \$50,000 was approved on August 25, 2020. Increase to the project owner controlled contingency will exceed not-to-exceed amount approved. Revised contractual agreement amount will be \$1,975,543.

Gilbert May, Inc. dba Phillips/May Corporation Awarded Agreement	\$1,819,333.00
Change Order 01 – Project Owner Controlled Contingency Increase	\$125,000.00
Change Order 02 – Project Owner Controlled Contingency Increase	\$31,210.00
Revised Gilbert May, Inc. dba Phillips/May Corporation Awarded Agreement	\$1,975,543.00

Potential funding is indicated below.
2014 Bond Authorization (681) 100%

Substantial Completion of the entire Work was achieved on January 25, 2021

Administrative Recommendation:
For your consideration



MEMORANDUM

DATE: February 23, 2021
TO: Javier Fernandez, Director, Facilities Planning and Construction Services
FROM: Miguel Rivera – Project Manager, Facilities Planning and Construction Services
SUBJECT: **CSP 500-4.4-19 (PH4-BP04) Coyle Middle School – Fine Arts Addition and Renovation – Change Order 02**

This memorandum serves as an explanation related to additional project owner contingency request for Coyle Middle School – Fine Arts Addition and Renovation.

At the March 26th, 2019 meeting, the Garland ISD Board of Trustees approved staff's recommendation to award the construction contract for CSP 500-4.4-19 to Gilbert May, Inc. dba Phillips/May Corporation with a Not-to-Exceed (NTE) budget of \$1,894,333.00. The construction contract was subsequently executed in the amount of \$1,819,333.00.

At the August 25th, 2020 meeting, the Garland ISD Board of Trustees approved staff's recommendation to increase Not-to-Exceed (NTE) budget to \$1,944.333.00.

Additional Works are needed to complete project per agreement. The added scope for proposed change order is as follows:

Patching existing brick	\$1,362.00
Existing windows openings at Area D per RFI #34	\$4,606.00
Additional civil works / RFI #43 & #44	\$8,112.00
Additional five dry erase boards	\$5,019.00
Projectors' screens power connection changes	\$1,970.00
Area C expansion joint covers per RFI #27	\$1,110.00
Existing duct penetrations per RFI #30	\$6,249.00
IWH missing power per RFI #32	\$1,839.00
Replace cove wall bases	\$943.00
Change Order Value	\$31,210.00

With approval current Not-to-Exceed (NTE) budget of \$1,944,333.00 will be increased by \$31,210.00 for a revised Not-to-Exceed (NTE) budget of \$1,975,543.00.

Alliance Architects agrees proposed costs are fair and reasonable. All funds are 2014 Bond Authorization (681).

February 23, 2021

Mr. Miguel Rivera Albelo
Garland Independent School District
409 N. First Street
Garland, TX 75040

Attention: Miguel Rivera

RE: **GISD BP4.4 Coyle MS – Fine Arts Addition & Renovation**

Mr. Miguel Rivera,

To complete the project mentioned above we need the following CCEA's approved below.

To be funded via change order 2:

Patching existing brick	\$1,362.00
Existing window openings at area D per RFI #34	\$4,606.00
Additional civil work per RFI #43 & #44	\$8,112.00
Additional five dry erase boards	\$5,019.00
Projectors screens power connection changes	\$1,970.00
Area C expansion joint covers per RFI #27	\$1,110.00
Existing duct penetrations per RFI #30	\$6,249.00
IWH missing power per RFI #32	\$1,839.00
Replace cove wall base	\$943.00

Respectfully Submitted,
Phillips/May Corporation

Christian A Osorio

Christian Osorio
Project Manager

Restoring the Past - Building the Future

Phillips/May Corporation, 1125 Longpoint Avenue, Dallas, Texas, 75247

P: 214.631.3331 F: 214.630.5607 www.phillipsmay.com



2021-02-24

Mr. Miguel Rivera Albelo
Garland Independent School District
409 N. 1st Street
Garland, TX 75040

Re: BP-4.4 – Coyle Middle School Fine Arts Addition Change Order 02

Dear Miguel,

At the request of district management Alliance Architect has reviewed the attached change order documentation. We support inclusion on the following scopes of work in the contract.

To be funded via change order:

Patching existing brick \$1,362.00
Existing window openings at area D per RFI #34 \$4,606.00
Additional civil work per RFI #43 & #44 \$8,112.00
Additional five dry erase boards \$5,019.00
Projectors screens power connection changes \$1,970.00
Area C expansion joint covers per RFI #27 \$1,110.00
Existing duct penetrations per RFI #30 \$6,249.00
IWH missing power per RFI #32 \$1,839.00
Replace cove wall base \$943.00

Based on our understanding of these trades we believe that the cost proposed is generally in line with prevailing market rates and so take no exceptions to the proposed scope of work at the proposed cost for this work. If you have any questions, or require any additional information, please do not hesitate to contact me.

Respectfully,

A handwritten signature in blue ink, appearing to read "R. Keith Petersen". The signature is fluid and cursive, with the first name "R." and last name "Petersen" clearly distinguishable.

R. Keith Petersen, AIA
Sr. Associate
Alliance Architects, Inc.

Cc: Carlos deSaracho – AAI

Enclosures: N/A