



Board Meeting: September 24, 2018

BARBERS HILL

Independent School District

Bond 2017 Update

Technology Building Renovation
Construction Complete

Middle School North
Construction in Progress
Anticipated Completion Date of August 2018

Middle School South
Construction in Progress
Anticipated Completion Date of August 2018

Early Childhood Center
GMP Board Presentation February 26, 2018
Anticipated Completion Date of August 2019

Bond 2013 Update

Historical Arch
Construction Complete

High School
Construction in Progress
Anticipated Completion Date July 2018

Energy Management

In 2010-2011 when the "Energy Department" started, the electrical cost for the district was \$1,642,000. In 2017/2018, our electrical expense through July 2018 was \$1,698,000. This is a total electrical cost increase of \$56,000 or 3 percent over eight years despite building additions and new building construction. We added the Elementary School North, additions to the Elementary School South, High School Fine Arts wing, Middle School North Science wing, and the Multi-Purpose Building. Also during the 2017/2018 school year we started building construction at both Middle School Schools and High School. Despite construction, we continue to reduce our overall electrical consumption. The district accomplished this through the following:

- A. Reduced KWH cost
- B. Energy Efficient Equipment Upgrades
- C. Energy Efficient Building Improvements
- D. District Energy Management Policy implementation
- E. Lighting Retrofits
- F. Preventative Maintenance
- G. Peak Demand Control

p. 185
Board book

BHISD ENERGY MANAGEMENT PROGRAM

BOARD GOAL OF DIVERSIFYING REVENUE

ELECTRICAL USAGE: COSTS PER SF SAVINGS DURING NINE YEAR ENERGY MGT. PROGRAM

YR.	ELECTRICITY \$ TOTAL		TOTAL SF	COST/SF	
2010-2011	\$	1,642,000.00	1,203,612	\$	1.36
2017-2018	\$	1,698,000.00	1,704,746	\$	1.00
		\$56,000.00	501,134 SF	\$ (0.36) SF	
9-YR. <i>ELECTRICAL COSTS INCREASE</i>		3%	29%	36% DECREASE	

COSTS AVOIDANCE

YEAR	TOTAL ELECTRIC \$	TOTAL SQ. FT	COST PER SF	USING 2010-2011	SAVINGS FROM 2010
				COSTS PSF	COSTS PSF
2017-2018	\$ 1,698,000.00	1,704,746.00	\$ 1.00	\$ 2,325,660.54	\$ (627,660.54)
2016-2017	\$ 1,676,538.00	1,476,528.00	\$ 1.14	\$ 2,014,319.38	\$ (337,781.38)
2015-2016	\$ 1,586,007.00	1,476,528.00	\$ 1.07	\$ 2,014,319.38	\$ (428,312.38)
2014-2015	\$ 1,648,761.00	1,466,820.00	\$ 1.12	\$ 2,001,075.46	\$ (352,314.46)
2013-2014	\$ 1,336,091.00	1,422,862.00	\$ 0.94	\$ 1,941,106.77	\$ (605,015.77)
2012-2013	\$ 1,250,837.00	1,252,291.00	\$ 1.00	\$ 1,708,409.21	\$ (457,572.21)
2011-2012	\$ 1,455,466.00	1,228,930.00	\$ 1.18	\$ 1,676,539.50	\$ (221,073.50)
2010-2011	\$ 1,642,000.00	1,203,612.00	\$ 1.36	\$ 1,642,000.00	\$ -
TOTAL SAVINGS FROM 2010-2011 COSTS PER SQUARE FOOT:				\$	(3,029,730.24)

ENERGY MANAGEMENT COST REDUCTION STRATEGIES:

- **Reduced KWH costs** - Competitively procured energy contracts and extensions;
- **Energy Efficient Equipment Upgrades** – Ex. Water cooled chilled water & Variable Refrigerant Flow HVAC systems, LED lighting, Variable Frequency Drives for motors, etc.
- **LED Lighting** - Use of over \$1,020,210 in SEP funds for lighting retrofits, about a 66% electrical costs savings over Non-LED...
- **Preventative Maintenance** – full time Maintenance Department position, optimizes equipment performance district wide;
- **Peak Demand Control** – the other electrical costs that is paid to the line company (CenterPoint) based on maximum electrical loads to run facilities. Monitoring and reducing loads during peak times throughout the year has lowered TDSP line charges an estimated 10% during this period...

Bond 2013 – High School



High School Classrooms & Construction Trades



Bond 2013 – High School



Bond 2013 – High School

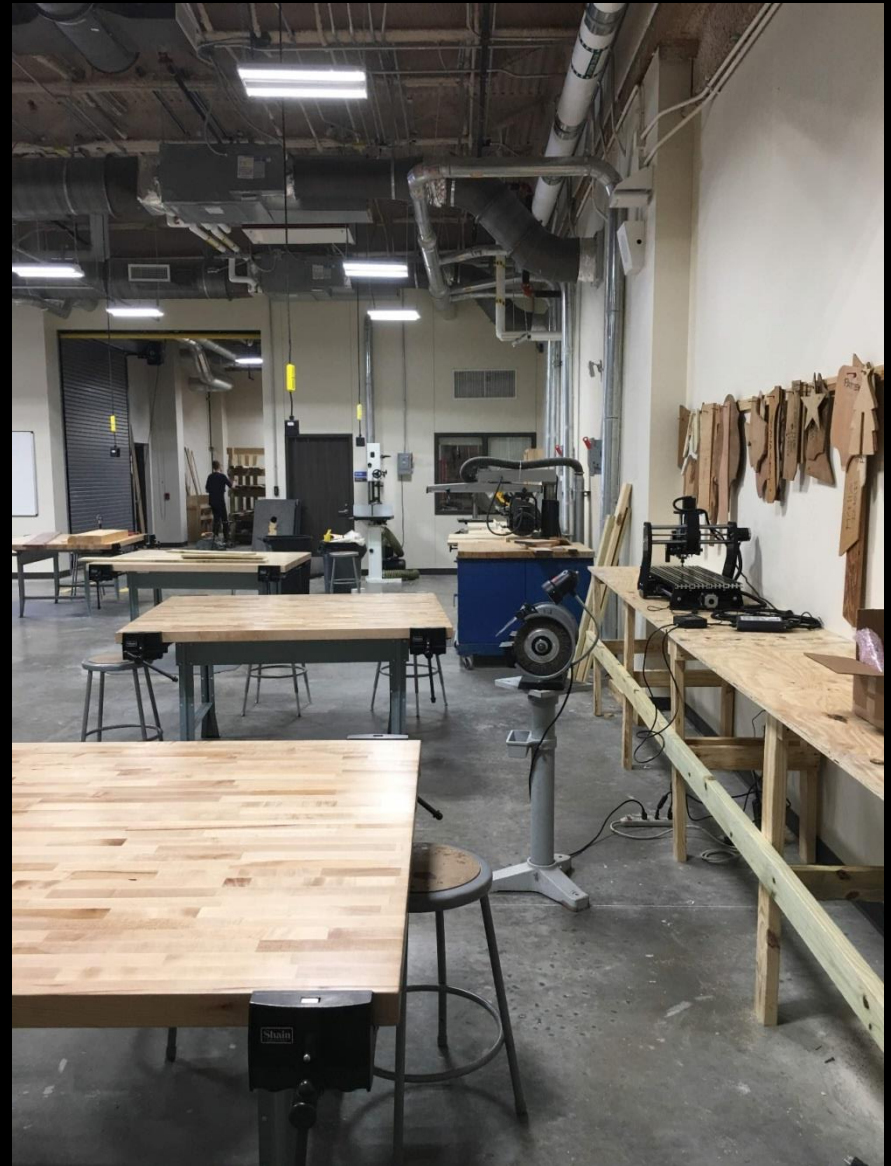




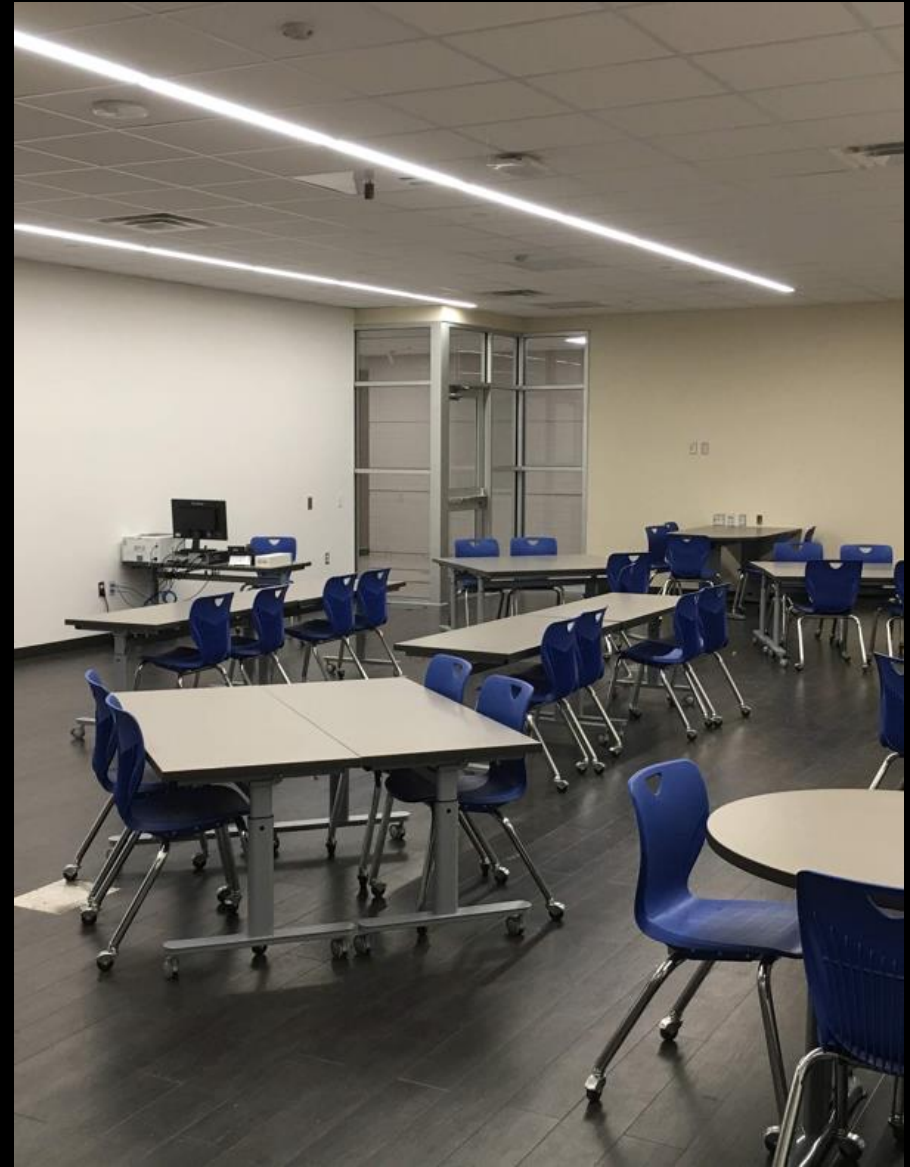




Bond 2013 – High School









Bond 2013 – High School





Bond 2013 – High School



Bond 2013 – High School







Bond 2013 – High School







Bond 2013 – High School



Bond 2013 – High School



Athletics Lockers – Coach's Office





Bond 2013 – High School



Bond 2018 – Middle School NORTH



Bond 2018 – Middle School NORTH



Bond 2018 – Middle School NORTH



Bond 2018 – Middle School NORTH





Bond 2018 – Middle School NORTH







Bond 2018 – Middle School NORTH



Bond 2018 – Middle School NORTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH







Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2018 – Middle School SOUTH



Bond 2017 - Early Childhood Center



Bond 2017 - Early Childhood Center



Bond 2017 - Early Childhood Center

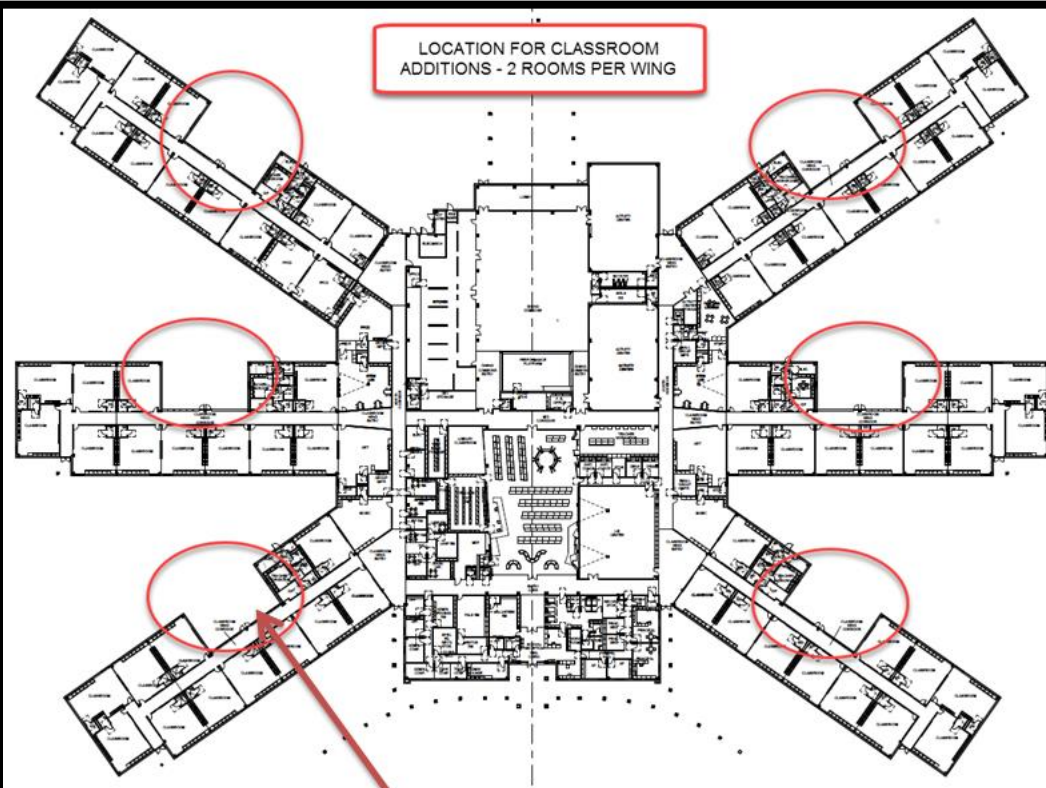


Bond 2017 - Early Childhood Center



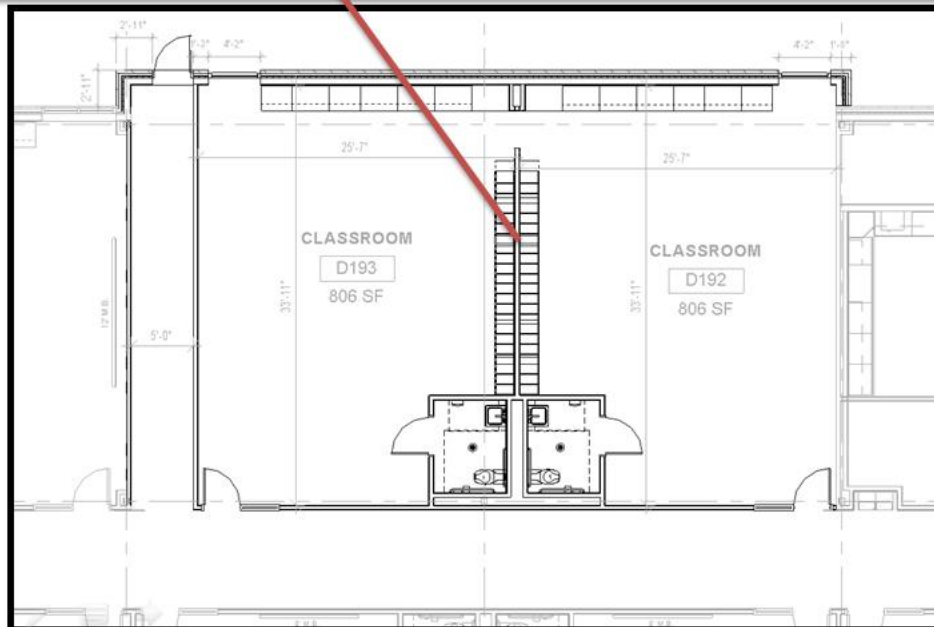
Bond 2017 - Early Childhood Center

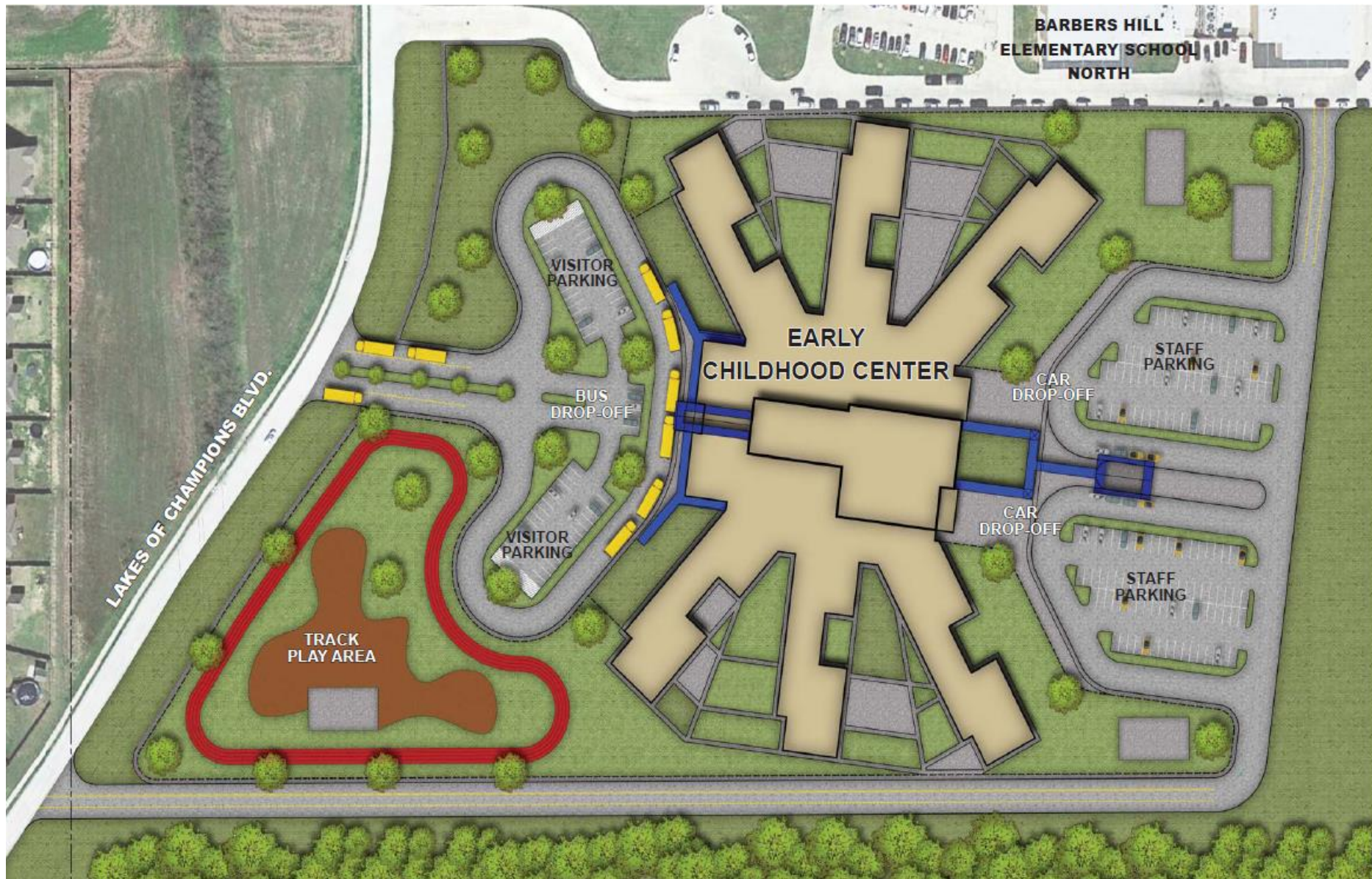




ACTION ITEM:

ECC 12 NEW CLASSROOM
IN THE PREVIOUSLY
PROVIDED SPACE IN
EACH WING







ACTION ITEM: P. 372 BOARD BOOK – ECC 12 CLASSROOMS

Date of Board Meeting: September 24, 2018
Subject: Consideration and approval of Early Childhood Center Change Order No. 01 Guaranteed Maximum Price (GMP) and total costs as part of Bond 2017 for the buildout of 12 additional classrooms in the previously provided site space.
Presented by: Stan Frazier, Assistant Superintendent of Planning & Operations

Purpose of Agenda Item

<input type="checkbox"/> Consent Agenda	<input type="checkbox"/> Information Only	<input checked="" type="checkbox"/> Action Needed	<input type="checkbox"/> Report
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Additional Information and/or Back-Up:

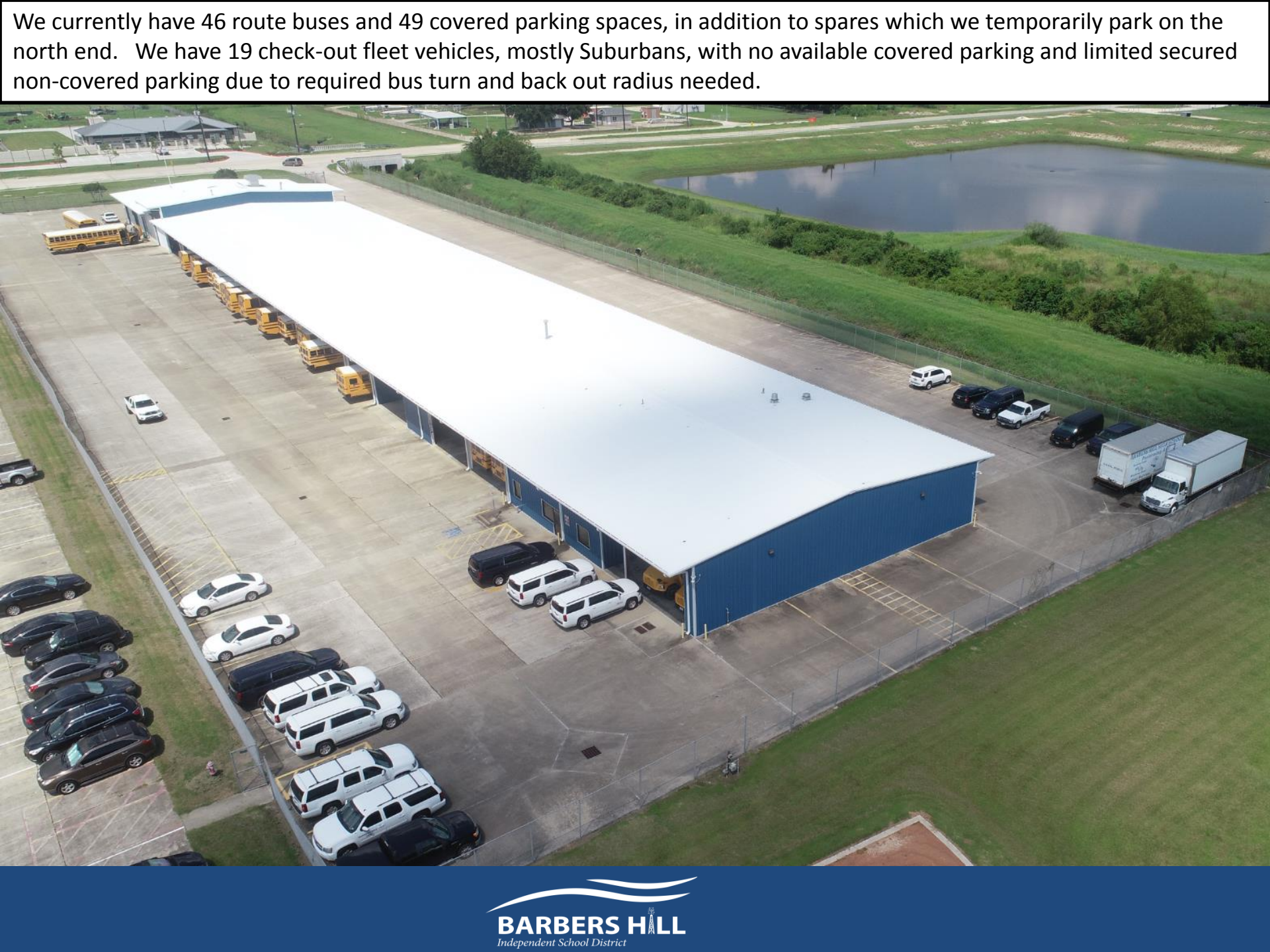
GMP and total costs, as well as PBK's Letter of Recommendation, will be presented as handouts at the September 24th board meeting.

RECOMMENDED ACTION:

I move to accept the proposed Change Order No. 01 Guaranteed Maximum Price (GMP) and total costs for the 12 additional classrooms at the Early Childhood Center as part of Bond 2017.

BHISD TRANSPORTATION CENTER

- This is in accordance with the 2017 Board Goal of Land Identification and Acquisition for strategic school purposes.
- Due to congestion on and near campuses as well as approaching capacity of the current Transportation Center, here is an update on the proposed site for an enlarged Transportation Facility with room for growth.



We currently have 46 route buses and 49 covered parking spaces, in addition to spares which we temporarily park on the north end. We have 19 check-out fleet vehicles, mostly Suburbans, with no available covered parking and limited secured non-covered parking due to required bus turn and back out radius needed.

BHISD TRANSPORTATION CENTER



BHISD TRANSPORTATION CENTER



BHISD TRANSPORTATION CENTER



BHISD TRANSPORTATION CENTER

An aerial photograph of a school bus depot. Six yellow school buses are parked in two rows of three, facing away from the camera. They are parked in front of a long, low building with several large open bays. The ground is paved and there are some yellow markings. The image is slightly faded to make the text stand out.

THANK
YOU!

Bond 2017 - Early Childhood Center



Thank You

