



# Facilities Committee Workshop

July 31, 2019  
5:30 pm

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Administration Building  
1900 Price Road  
Brownsville, Texas 78520



#### **IV. Administration Presentation/Updates**

- A. Ongoing Construction Projects
- B. Upcoming Construction Projects
- C. District PUB expenditures and Cost Saving efforts for the last five years.
- D. Campus Consolidation Project Update
- E. Cooling Systems for Elementary Mini-Gyms
- F. Administration Board Agenda Items – (contracts/payments/proposals/other) to be presented at the Regular Board Meeting of August 6, 2019



# A. Ongoing Construction Projects

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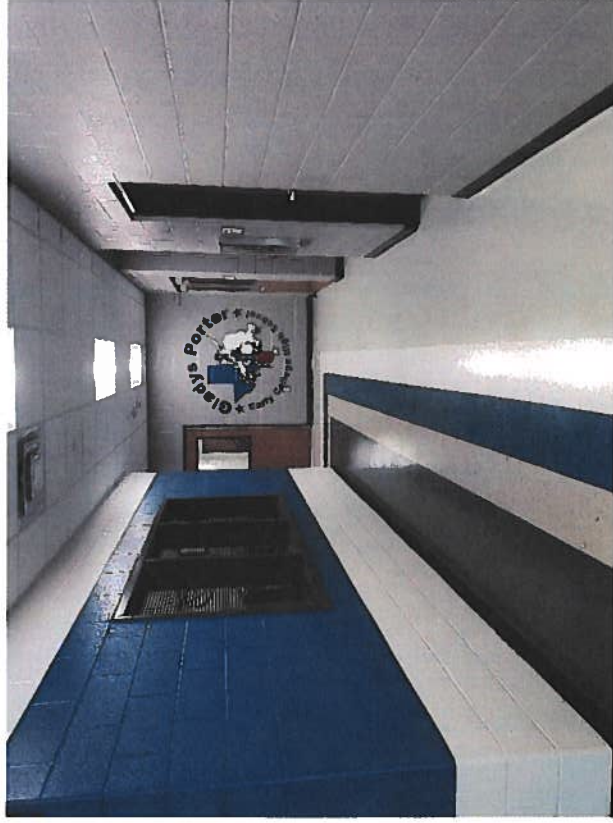
- Porter ECHS – New Fine Arts Building
- Lucio MS - Four Lane Track
- Design Build – Energy Conservation
- Roof Replacement:
  - Del Castillo, Southmost ES
- Vela MS – Front Parking Lot Upgrade
- Vela MS – Four Lane Track & Athletic Field
- Cummings CTE – Renovations
- Hanna ECHS – HVAC & Lighting
- Ben Brite – Chiller Replacement



# Porter ECHS - New Fine Arts Building

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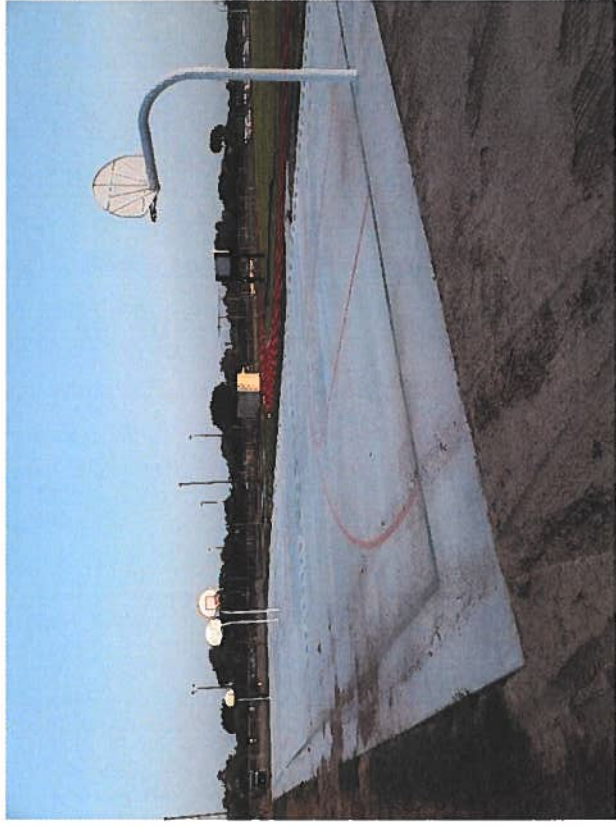
- Construction Project Complete – obtained Certificate of Occupancy
- Campus Staff, Teachers and Students already using the premises
- Dedication Ceremony scheduled for August 16, 2019



# Lucio Middle School – New Four Lane Track

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- Construction Project Complete
- Contractor addressing warranty items



# Design Build - Energy Conservation Projects

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- Schools assigned under Design Build:
  - *Porter, Pace, and Lopez ECHS; Besteiro, Garcia, Lucio, and Stillman MS; Aiken, Benavides, Paredes, and Southmost ES; Cummings CTE and Aquatic Center*
- Phase I - LED Lighting (100% Complete)
- Phase II - HVAC and Controls (85% Completion)
- Phase III - Chilled Water and Controls (55% Completion)



# Roof Replacement Projects

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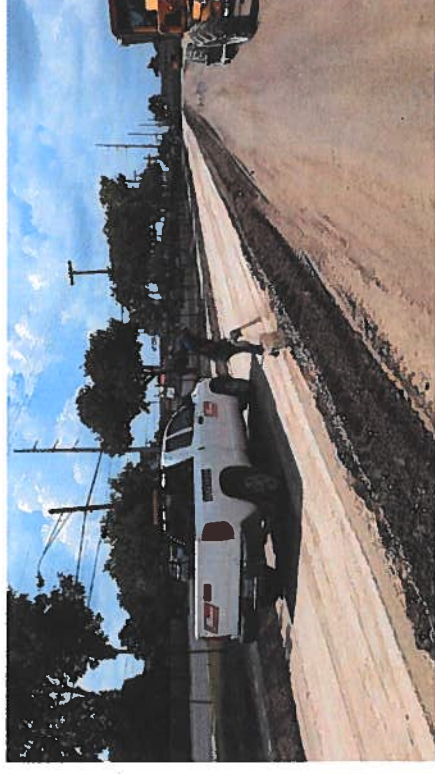
- Campus: Del Castillo and Southmost Elementaries
- Southmost ES – construction progress at 75% completion.
- Del Castillo ES – construction progress at 60% completion
- Estimated Substantial Completion – October 2019.



# Vela Middle School - Front Parking Lot Upgrade

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- Construction work progress - 60% completion
- Subgrade grading and compaction testing complete
- Concrete Paving and steel placement in progress
- Estimated Substantial Completion - August 9, 2019.





# Vela Middle School – Four Lane Track and Athletic Field

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- Construction work progress – 50% completion
- Storm drainage system installed
- Topsoil conditioning for the athletic field in progress
- Estimated Substantial Completion – October 2019.



# Cummings CTE - Renovations

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- Overall Construction work progress - 80% completion
- Remodeling Contractor completed work on CV3 and CV4
- CV1 Canopy Contractor - 70% completion
- Estimated Substantial Completion August 2019



# Hanna ECHS - HVAC & Lighting Up

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- Construction work progress at 70% completion
- Contractor continues working on East Pods E thru H
- Projected Substantial Completion on December 2019



# Ben Brite ES - Chiller Replacement Project

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- Chiller #1 – replaced and performing as intended
- Chiller #2 – delivery the first week of August (installation will follow)
- Room temperature maintained at comfort levels
- Projected Substantial Completion by the end of August 2019



## B. Upcoming Construction Projects

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- Aquatic Center - HVAC & Controls
- Keller, Ortiz, and Stell - HVAC Upgrades
- Hanna ECHS - New Gymnasium Facility
- CSP recommendations on the above projects for August 6<sup>th</sup> Board Meeting
- Rivera ECHS - HVAC and LED Lighting Upgrades:
  - Procurement process by September 2019; recommendation to the October 2019 Board Meeting
- Multi-Campus Canopy Upgrades - procurement process starts on August 2019; recommendation to the September 2019 Board Meeting
- Food Nutrition Service - roof replacement under design development.

# New Projects for 2019 - 2020

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- Projects are based on Priority 2 of the Exterior Facility Assessment upon Funding Availability.

- HVAC Upgrades:

- Roof Replacement:

- Parking Lot Paving:

- Canopies Upgrades:



# HVAC Upgrades (Priority 2)

## Brownsville ISD

### District Wide - Campus Building Assessment by Priority

CAMPUS NAME	Year Built	HVAC UPGRADES	Building Area (SQ. FT.)
<b>(High Schools)</b>			
Rivera	1988	2,000,000.00 2	327,696.00
Lincoln Park	1980	500,000.00 2	45,892.00
		<b>\$2,500,000.00</b>	
<b>(Middle Schools)</b>			
Faulk	1956	500,000.00 2	104,357.00
		<b>\$500,000.00</b>	
<b>(Elementaries)</b>			
Canales	1948	500,000.00 2	85,385.00
Castaneda	1999	1,000,000.00 2	71,847.00
Champion	2001	850,000.00 2	82,658.00
Cromack	1952	500,000.00 2	78,087.00
Del Castillo	1973	700,000.00 2	47,421.00
Egly	1976	700,000.00 2	80,046.00
Gallegos	2001	850,000.00 2	82,657.00
Garza	1977	500,000.00 2	65,661.00
Martin	1953	500,000.00 2	69,363.00
Ortiz	2004	1,000,000.00 2	82,752.00
Perez	1974	700,000.00 2	65,896.00
Skinner	1925	200,000.00 2	71,622.00
Vermillion	1980	700,000.00 2	84,477.00
Villa Nueva	1935	500,000.00 2	63,291.00
		<b>\$9,200,000.00</b>	
		<b>\$12,200,000.00</b>	

**Estimated Cost:**

# Roof Replacement (Priority 2)

## Brownsville ISD

### District Wide - Campus Building Assessment by Priority

CAMPUS NAME	Year Built	ROOF Replacement	Priority	BUILDING Area (SQ. FT.)
<b>(High Schools)</b>				
Lopez	1994	4,000,000.00	2	323,745.00
Pace	1975	2,000,000.00	2	282,255.00
Porter	1974	2,000,000.00	2	325,962.00
		<b>\$8,000,000.00</b>		
<b>(Middle Schools)</b>				
Besteiro	1994	2,500,000.00	2	161,598.00
Cummings	1950	2,500,000.00	2	94,467.00
Oliveira	1979	2,500,000.00	2	124,443.00
		<b>\$7,500,000.00</b>		
<b>(Elementaries)</b>				
Aiken	1996	2,500,000.00	2	92,330.00
Egly	1976	1,500,000.00	2	80,046.00
Martin	1953	1,500,000.00	2	69,363.00
Skinner	1925	1,500,000.00	2	71,622.00
Vermillion	1980	1,000,000.00	2	84,477.00
Villa Nueva	1935	1,000,000.00	2	63,291.00
		<b>\$9,000,000.00</b>		

Estimated Cost: **\$24,500,000.00**



# Parking Lot Paving (Priority 2)

## Brownsville ISD

### District Wide - Campus Building Assessment by Priority

CAMPUS NAME	Year Built	PARKING LOTS	Rating?	BUILDING Area (SQ. FT.)
<b>(High Schools)</b>				
Pace	1975	300,000.00	2	282,255.00
Rivera	1988	200,000.00	2	327,696.00
		<b>\$500,000.00</b>		
<b>(Middle Schools)</b>				
Oliveira	1979	250,000.00	2	124,443.00
Stell	1956	75,000.00	2	116,716.00
		<b>\$325,000.00</b>		
<b>(Elementaries)</b>				
Burns	1983	300,000.00	2	99,284.00
Garza	1977	100,000.00	2	65,661.00
Ortiz	2004	150,000.00	2	82,752.00
Southmost	1988	450,000.00	2	66,140.00
Vermillion	1980	100,000.00	2	84,477.00
		<b>\$1,100,000.00</b>		

**Estimated Cost: \$1,925,000.00**

# Canopies Upgrades (Priority 2)

## Brownsville ISD

### District Wide - Campus Building Assessment by Priority

CAMPUS NAME	Year Built	CANOPIES	BUILDING Area (SQ. FT.)	
<b>(High Schools)</b>				
Hanna	1967	100,000.00	2	380,654.00
Pace	1975	50,000.00	2	282,255.00
Lincoln Park	1980	300,000.00	2	45,892.00
		<b>\$450,000.00</b>		
<b>(Middle Schools)</b>				
Cummings	1950	100,000.00	2	94,467.00
Perkins	1987	300,000.00	2	139,505.00
		<b>\$400,000.00</b>		
<b>(Elementaries)</b>				
Burns	1983	100,000.00	2	99,284.00
Castaneda	1999	300,000.00	2	71,847.00
Champion	2001	300,000.00	2	82,658.00
Gallegos	2001	300,000.00	2	82,657.00
Garden Park	1960	200,000.00	2	76,475.00
Gonzalez	1986	200,000.00	2	80,216.00
Paredes	2002	300,000.00	2	82,644.00
Perez	1974	200,000.00	2	65,896.00
Russell	1921	200,000.00	2	90,075.00
Sharp	1931	300,000.00	2	53,804.00
Venmillion	1980	300,000.00	2	84,477.00
		<b>\$2,700,000.00</b>		
<b>Estimated Cost:</b>				<b>\$3,550,000.00</b>

# C. District PUB expenditures and Cost Saving efforts for the last five years

2014 - 2018 YR. / BISD - BPUB ANNUAL UTILITY COST / CONSUMPTION

YEAR	WATER		WASTEWATER		ELECTRIC		YEAR / COST
	Consum./ 1000 gal.)	Cost	Consum./ 1,000 gal.)	Cost	Consum./ kWh	Cost	
2018	209,461	\$ 750,460.00	160,853	\$ 698,808.00	80,934,108	\$ 7,602,321.00	\$ 9,051,589.00
2017	216,341	\$ 768,937.00	153,415	\$ 671,359.00	82,869,447	\$ 7,685,118.00	\$ 9,125,414.00
2016	192,589	\$ 665,860.00	143,912	\$ 635,825.00	82,930,679	\$ 8,074,400.00	\$ 9,376,085.00
2015	183,543	\$ 618,630.00	183,543	\$ 618,630.00	79,800,779	\$ 8,228,510.00	\$ 9,465,770.00
2014	215,999	\$ 668,450.00	143,655	\$ 610,610.00	81,394,677	\$ 7,982,880.00	\$ 9,261,940.00
(5) YR./ Total	1,017,933	\$ 3,472,337.00	785,378	\$ 3,235,232.00	407,929,690	\$ 39,573,229.00	\$ 46,280,798.00

# District PUB expenditures and Cost Saving efforts for the last five years, continue

## 2014 – 2018 YR. / COST SAVING EFFORTS

### ENERGY COST SAVING 2014 - 2018

- Electric Purchase Long Term Agreement for BISD (3) Schools w / Investor Owned Utility Provider (AEP Service Area).  
2015 / KWH (Fix Rate 0.0499) to (Fix Rate 0.0433 / 36 mo.) \$ 34,998.00 / yr.  
2018 / KWH (Fix Rate 0.0433) to (Fix Rate 0.0499 / 60 mo.) \$ 32,850.00 / yr.
- 2017 – 2018 / BPUB – BISD Water Efficiency Grant \$74,868.00
- Phase I & II/ HANNA & PORTER HS  
(Lavatory Faucets; Shower Heads & Boys Column Showers Replacement)

### ENERGY CONSERVATION 2015 - 2019

#### 2015– 2017 / School Interior Lighting Retrofit Projects (**Upgrade T12 to T8**)

- 2015 / Burns Elementary; Oliveira Middle School
- 2016 / Aiken Elementary ; Besteiro Middle School; Palm Grove Elementary School
- 2017 / Garza Elementary School
- 2018 – 2019 / Hanna High School (T12 to LED)

# District PUB expenditures and Cost Saving efforts for the last five years, continue

## 2018 – 2019 DESIGN BUILD PHASE I / Lighting Retrofit Project (Upgrade T12 & T8 to LED)

### • E-3 ENTEGRAL SOLUTIONS

Lopez High School  
Pace High School  
BLA HS & CTE (OLD Cummings)  
Oliveira Middle School  
Stillman Middle School  
Benavides Elementary School

### SCHNEIDER ELECTRIC

Porter High School  
Besteiro Middle School  
Garcia Middle School  
Lucio Middle School  
Aiken Elementary School  
Paredes Elementary School  
Southmost Elementary School  
Aquatic Center

## 2018 – 2019 / HVAC UPGRADE PROJECTS

- Hanna High School

## 2018 – 2019 DESIGN BUILD PHASE II / HVAC UPGRADE PROJECT

### • E-3 ENTEGRAL SOLUTIONS

Lopez High School  
Pace High School  
BLA HS & CTE (OLD Cummings)  
Oliveira Middle School  
Stillman Middle School  
Benavides Elementary School

### SCHNEIDER ELECTRIC

Porter High School  
Besteiro Middle School  
Garcia Middle School  
Lucio Middle School  
Aiken Elementary School  
Paredes Elementary School  
Southmost Elementary School  
Aquatic Center

# D. Campus Consolidation Project Update

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1. Building Maintenance (Ceiling, Doors, Frames, Roof, Windows) 80% completion
2. Demolition of two wings at Canales Elementary – ongoing
3. Electrical/Lighting 80% complete
4. Flooring – completed in classroom and cafeteria areas
5. HVAC completed at Perez Elementary School]
6. Interior classroom paint in all schools ongoing
7. Parking lots for Canales, Putegnat, Sharp and Perez under design development; delivery method for procurement process on the August 6<sup>th</sup> Board Meeting Agenda
8. Requesting proposals for temporary parking areas - completion date 8/14/19
9. Restrooms 80% completed
10. Relocation of campus equipment, materials and supplies
  - BLA MS completed
  - Resaca to Sharp completed
  - Resaca to Putegnat 90% complete
  - Longoria to Canales 90% complete
  - Victoria Heights to Perez, estimated completion by 8/9/19

# **E. Cooling Systems for Elementary Mini-Gyms**

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- HVLS – High Volume Low Speed Ceiling Fans
- Estimated Cost per unit - \$20,000 - \$25,000
- Preliminary Design – Two Ceiling Fans per Mini-Gym







## **V. Presentation on BISD energy management efforts**

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- **A. State Energy Conservation Office (SECO)**
  - **Conference Call Presentation (7:00 PM) by SECO Representative**



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- **B. E3 Entegral Solutions – Presentation**

- **C. Schneider Electric – Presentation**



# Contract/Payments/Proposals/Other

## Agendas for the August 6, 2019 Regular Board Meeting

Project Type	Vendor	PO Number	Construction Project	Payment No.	GC Invoice #	Amount on Pay App	Cover Letter included	Remarks	
<b>Contractor's Payments</b>									
TRE	ZIWA Corporation	315708	Porter ECHS - Fine Arts Bldg	13	13	\$188,628.20	Yes		
TRE	G & T Paving, LLC	323847	Lucio MS - 4 Lane Track	8	8	\$62,006.64	Yes		
TRE	G & T Paving, LLC	341442	Vela MS - 4 Lane Track	1	1	\$246,575.30	Yes		
MTN	Schneider Electric	326763	Design Build - LED Lighting Phase II	3	3	\$1,502,593.80	Yes		
MTN	Montenegro Paving & Hauling	327627	Vela MS - Front Parking Lot Paving	1	513	\$56,807.55	Yes		
MTN	NM Contracting, LLC	339960	Cummings CTE CV1 Canopy Improvements	2	2	\$98,475.71	Yes		
MTN	Argio Roofing & Construction	337804	Southmost ES - Roof Replacement	2	2	\$213,133.45	Yes		
						<b>\$2,368,220.65</b>			
<b>General Function/Contract Agendas</b>									
TRI	Vendor Recommendation	CSP #20-110	Hanna ECHS - New Gymnasium						
<b>Architectural/Engineering Services Payments</b>									
TRE	PBK Architects	263118	Porter ECHS - Fine Arts Bldg	10	517571	\$20,359.26	Yes		
MTN	Armko Industries, Inc.	315712	Campus Roof Replacement, Phase II	6	5468046	\$4,886.82	Yes		
MTN	PBK Architects	301772	Interior Facility Assessment	3	515845	\$87,500.00	Yes	Final Payment	
MTN	Gonzalez Engineering & Surveying	305649	Lopez ECHS - Front Parking Lot Paving	8	205864	\$2,002.17	Yes	Final Payment	
MTN	PBK Architects	316766	Southmost ES - Roof Replacement	7	517961	\$1,375.00	Yes		
MTN	M Garcia Engineering, LLC	296223	Lucio MS - Four Lane Track	5	17234-005	\$2,250.00	Yes		
						<b>\$118,373.25</b>			