

Board Meeting: March 25, 2019



Bond 2017 Update

Middle School South Auditorium
Completion April 1, 2019

Early Childhood Center
Construction in Progress
Substantial Completion July 2019

Proposed Summer Projects
HS Weight Rm. Expansion – MSS Exterior
Canopy Corridor – ESS Marquee – MSS Front
LED Signage - MSN Art Room Renovations

Action Items
Interlocal Agreement – Solid Waste
Services – City of Mont Belvieu

Board Goal – Diversify Revenue

KWH – TDSP Savings Through Energy

Management YTD

BOARD GOAL: <u>DIVERSIFIED REVENUE SOURCES:</u> ENERGY MGT. SAVINGS FOR 2018-2019





ELECTRICITY COSTS = Two Components

- Retail Price (hourly / KWH / Direct Energy) fixed contract price +
- <u>TDSP Price</u> (CenterPoint) Volume usage charge: "TRANSMISSTION & DISTRIBUTION SERVICE PROVIDER"

TDSP (CenterPoint) Volume usage charge, price determined by:

- 4CP Price Summer Months Peak Usage June Sept. (PEAK DEMAND);
- KVA Total Volume Total volume used for one year.

Each January 1st the <u>TDSP charge is adjusted</u> for the new year based on the prior year's usage.

This charge can be controlled by managing total and summer peak usage.





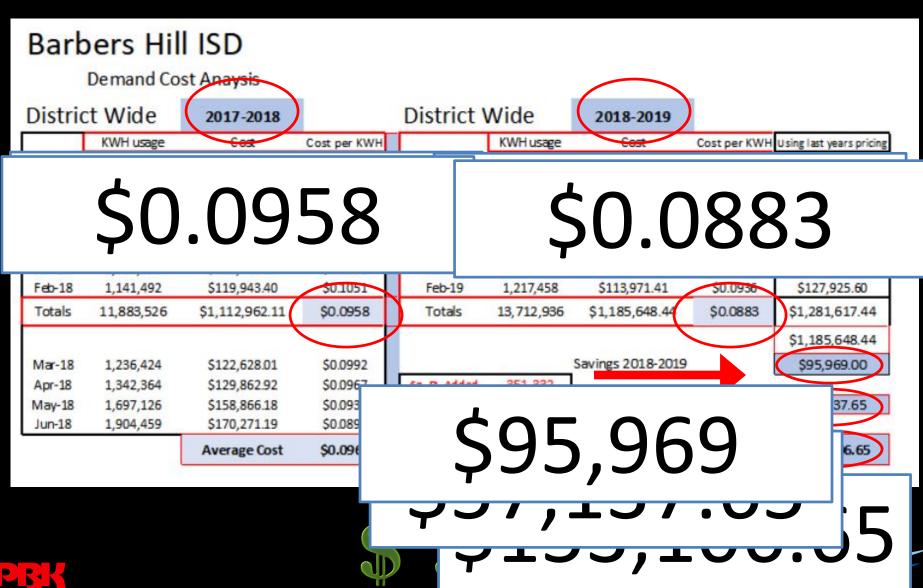






DIVERSIFIED REVENUE SOURCES: ENERGY MGT. SAVINGS FOR 2018-2019

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DIVERSIFIED REVENUE SOURCES: ENERGY MGT. SAVINGS FOR 2018-2019

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STRATEGIES USED FOR TDSP/KWH SAVINGS:

- 1. "Cleaning up power" as close to as possible, a pure flow of electricity.
 - a. Using Power Factor Correctors on Chillers at MSN, MSS, and ESS.
- 2. Controlling the 4CP's in the summer time (June September).
 - a. Monitoring peak demands set by Ercot, using Direct Energy Alerts'.
- 3. Using automated controls to manage KW, and KVA usage.

 Here is an example using Automated Logic controls to slow down the volume of electricity:





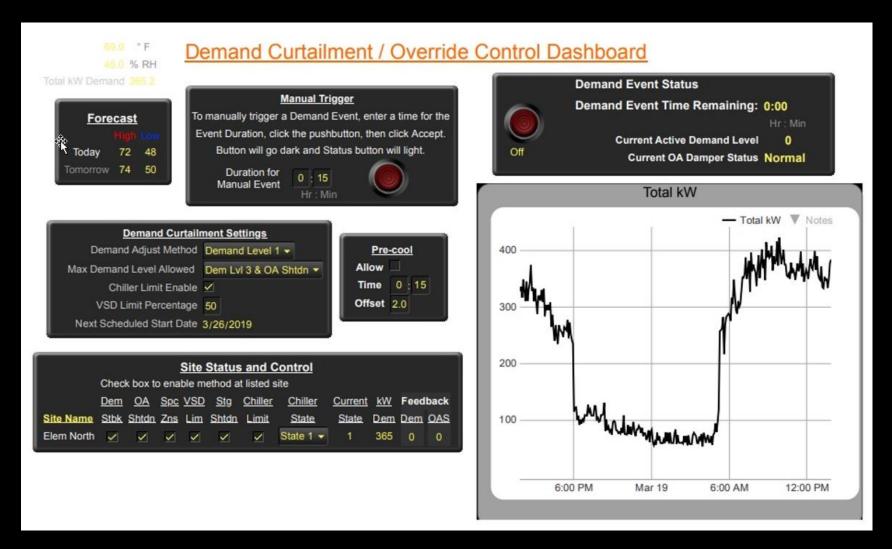






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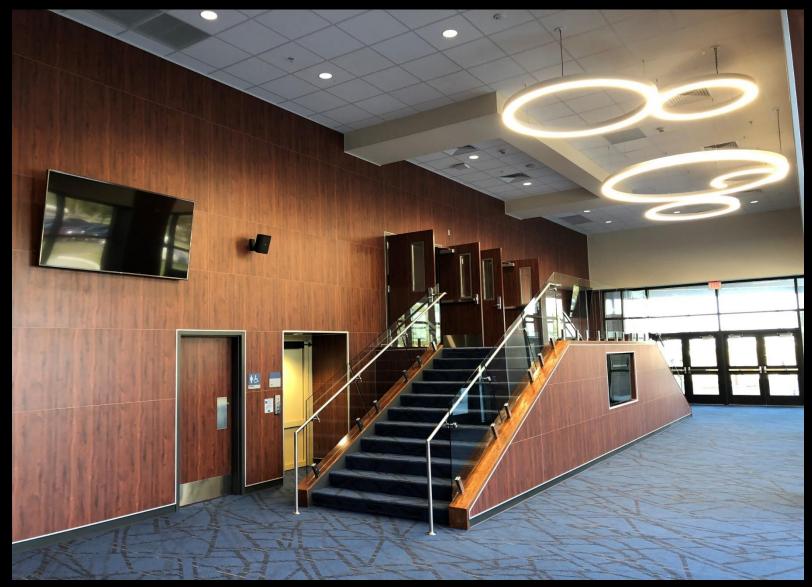






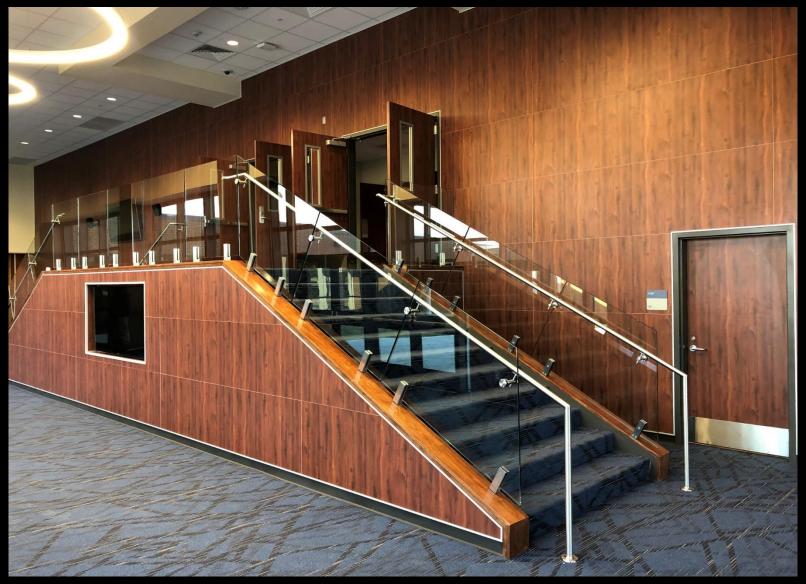












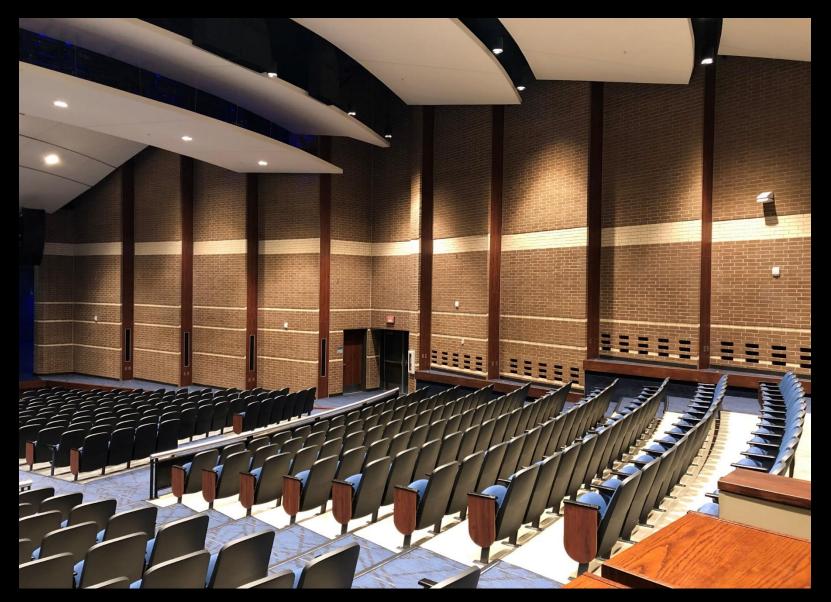






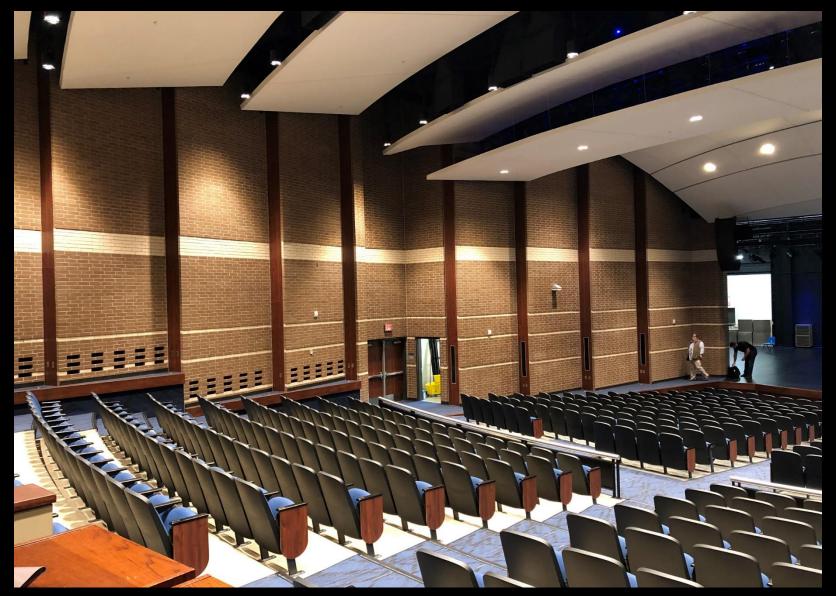












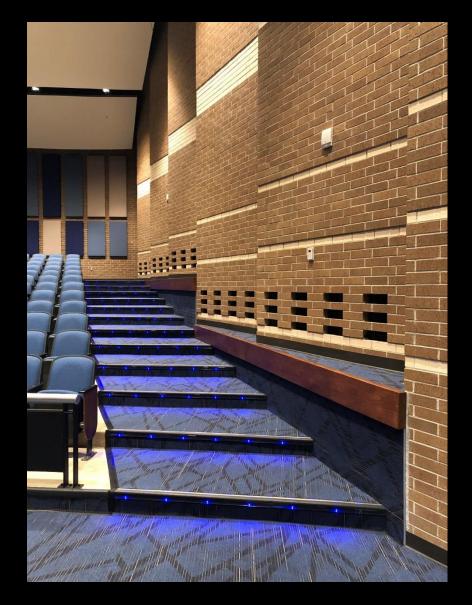














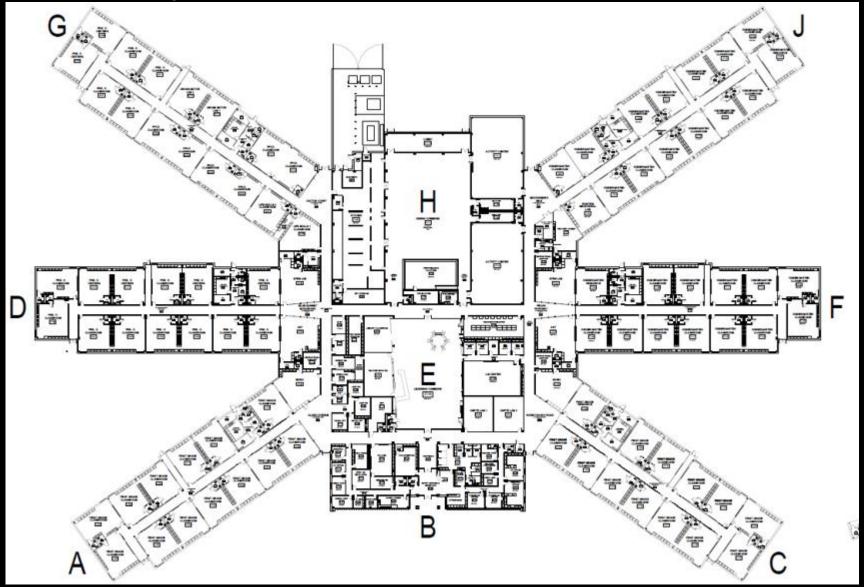


















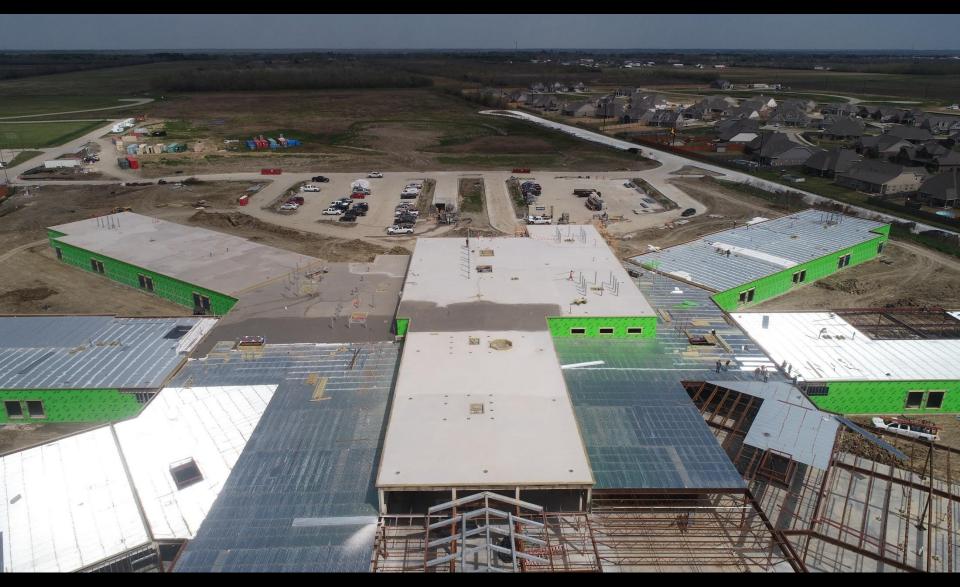








































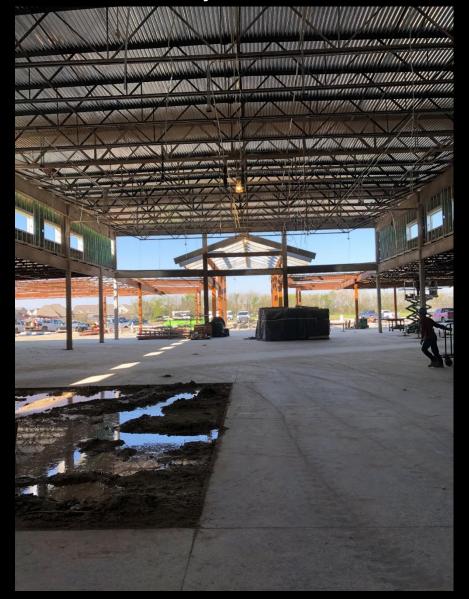


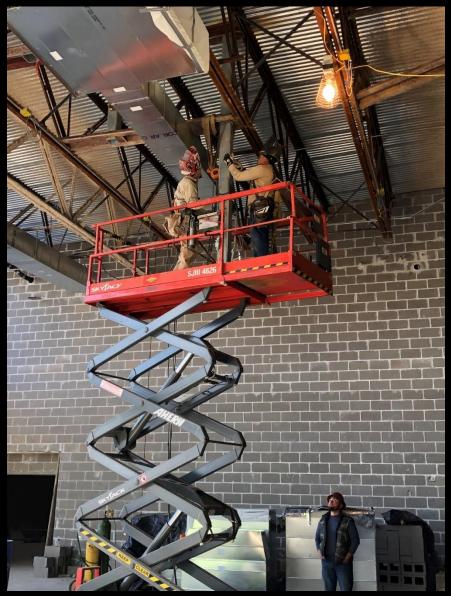












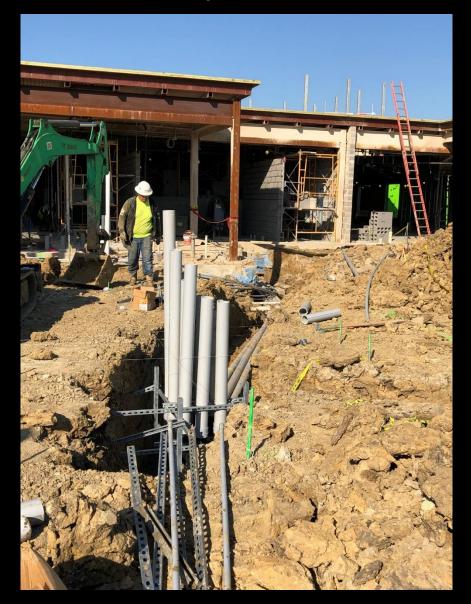


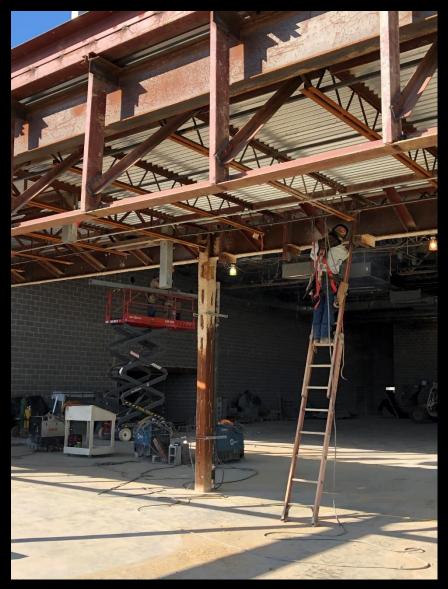






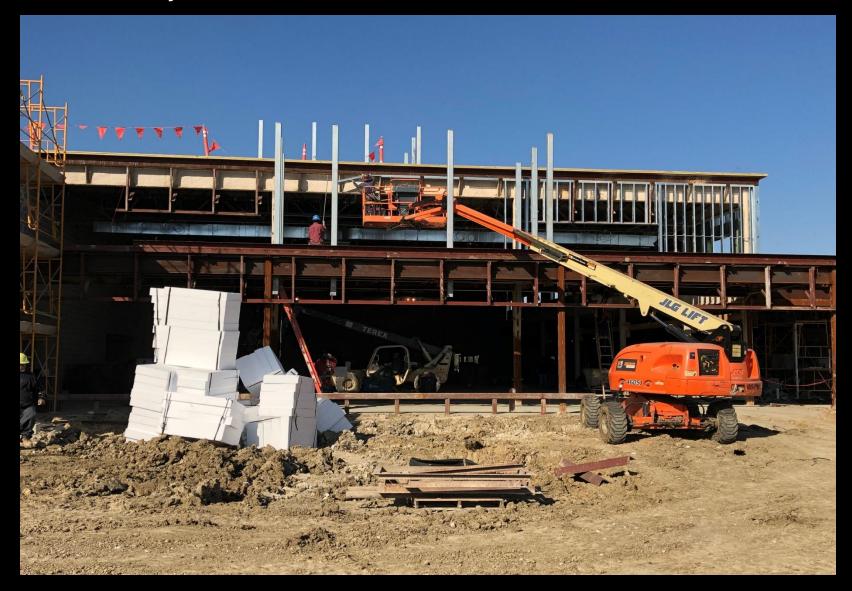
















Bond 2013 – High School Historical Arch

































Bond 2017 – Middle School North Graphics











Bond 2017 – Middle School North Graphics











Bond 2017 Proposed Summer Projects Currently in Design/Pricing Phase for Future Approval at the April Board Meeting

- HS WEIGHT ROOM EXPANSION
- MSS CANOPY CORRIDOR & FENCING
- MSS FRONT BUILDING LED SIGNAGE
- MSN ART ROOM RENOVATIONS
- ESS MARQUEE SIGN

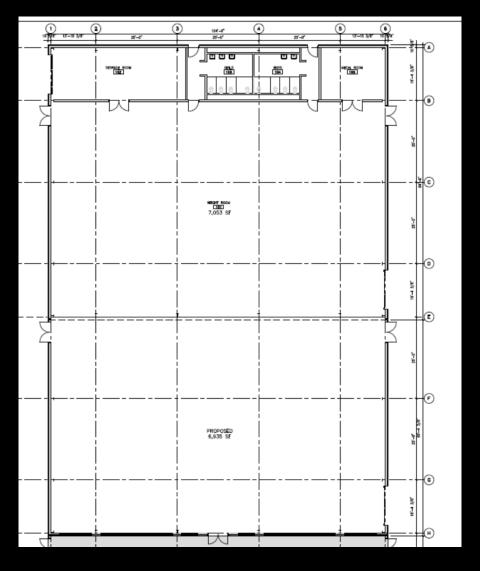
Bond 2017 – Weight Room Expansion – Proposed Summer Projects - Currently in Design/Pricing Phase for Future Approval







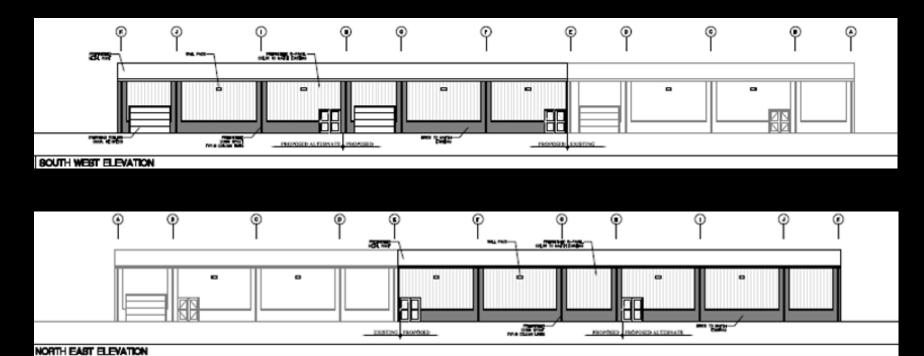
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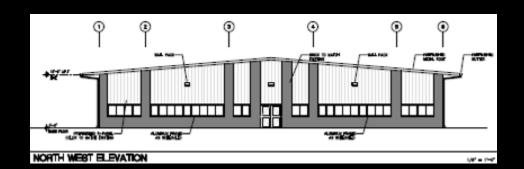






Bond 2017 – Weight Room Expansion





Exterior Elevations





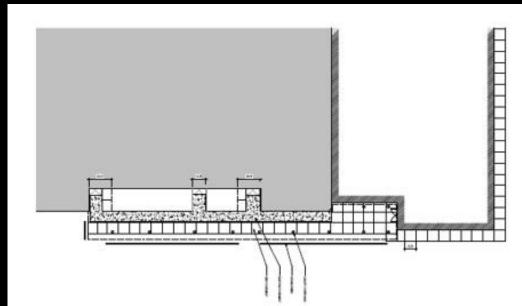
Proposed Summer Projects - Currently in Design/Pricing Phase for Future Approval



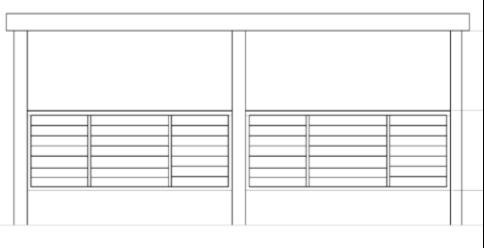




Proposed Summer Projects - Currently in Design/Pricing Phase for Future Approval



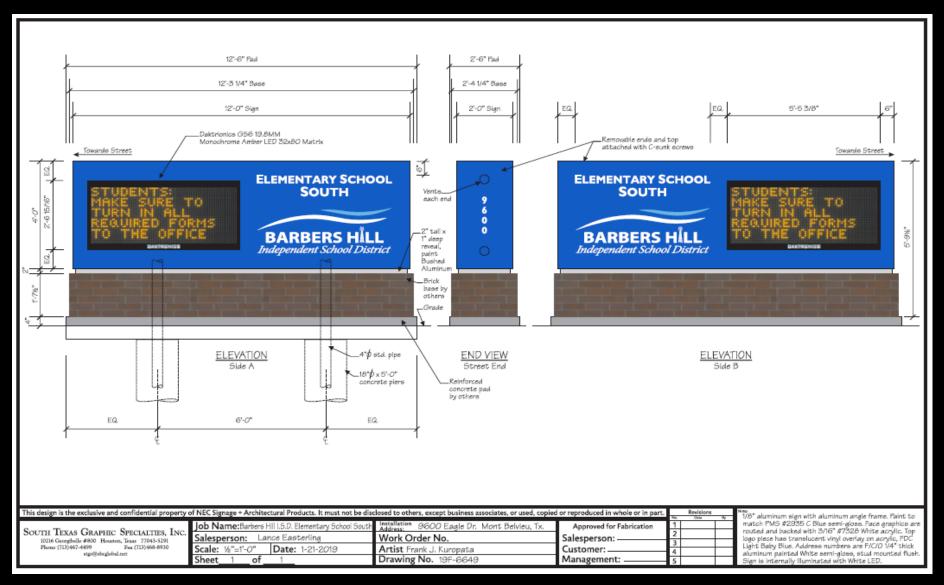
Canopy Floor Plan Layout







Proposed Summer Projects - Currently in Design/Pricing Phase for Future Approval



















Bond 2017 – Central Building Administration PDC Facility







Bond 2017 – Central Building Administration PDC Facility











































