



Facility Study Steering Committee

Meeting #4
April 28, 2021

Review Previous Recommendations

- **District Growth:** 1 HS, 1 IS, 2-3 ES
- **Instructional Technology:** upgrades classrooms to current digital standard
- **CTE:** District center, program upgrades at THS, new pathways
- **Transportation:** buses, 2nd facility, innovations
- **Safety:** camera upgrades, safety vestibules

Technology infrastructure, Fine Arts, Athletics

Review

- Committee's charge: create a prioritized list of district needs for possible consideration of a bond call
- How much can we ask for or recommend??
 - Bond financing and debt structure
 - Jim Ross, Chief Financial Officer
 - Zack Boles, Assistant Superintendent of Finance

Project	Estimated Cost (\$M)
High School (1)	170
Intermediate School (1)	45
Elementary School (2-3)	33 (each)
Instructional Technology	10
CTE	50
Transportation	12
Safety & Security	3
Land & Site Development	21

Personal Prioritization

- Take a few minutes to reflect on the previous sessions and presentations.
- Using the handout provided, begin to formulate your own priority list of projects.
- Include your personal rationale or philosophy on the ranking of each project.
 - This will help our discussion next week as we arrive to consensus on a prioritized list of projects.



Technology Services

James Watson, Director of Technology Services

Vision Statement

The vision of Tomball ISD Technology Services is to provide a secure and reliable technology infrastructure that seamlessly supports the learning environment. We will also strive to provide staff and students with the best integration tools to succeed in a world driven by technology.

2017 Technology Bond

Instructional Needs:	Qty.	Unit Cost	Total
Convert Teacher Desktops to Laptops	1,200	\$ 900	\$1,080,000
Chromebook Replacement Cycle	9,000	\$ 353	\$3,176,550
Classroom Sets of Devices	9,000	\$ 353	\$3,176,550
Device Carts for Classroom Sets	1,040	\$1,000	\$1,040,000
Document Camera Replacements	1,200	\$ 350	\$ 420,000
Wall Plate Media Replacements	900	\$ 500	\$ 450,000
Lightspeed Redcat Mic System	205	\$1,050	\$ 215,250
Instructional Total			\$9,558,350

2017 Technology Bond (continued)

Infrastructure Needs:	Qty.	Unit Cost	Total
Non-instructional Device Replacements	1,350	\$700	\$ 945,000
Infrastructure Upgrades			\$ 2,500,000
Security Camera Upgrades	800	\$800	\$ 640,000
	Infrastructure Total		\$ 4,085,000
	Grand Total		\$13,643,350

Technology Bond Needs

1. Enhanced Infrastructure
2. Cybersecurity
3. Student Chromebook Refresh
4. Staff Device Refresh

Enhanced Infrastructure

- Wireless Access Point Refresh
- Internet Firewall Refresh
- Re-cable older campuses
- Security Camera System Refresh
- Data Center Servers Refresh
- TISD Owned Dark Fiber





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TISD Wide Area Network (WAN)

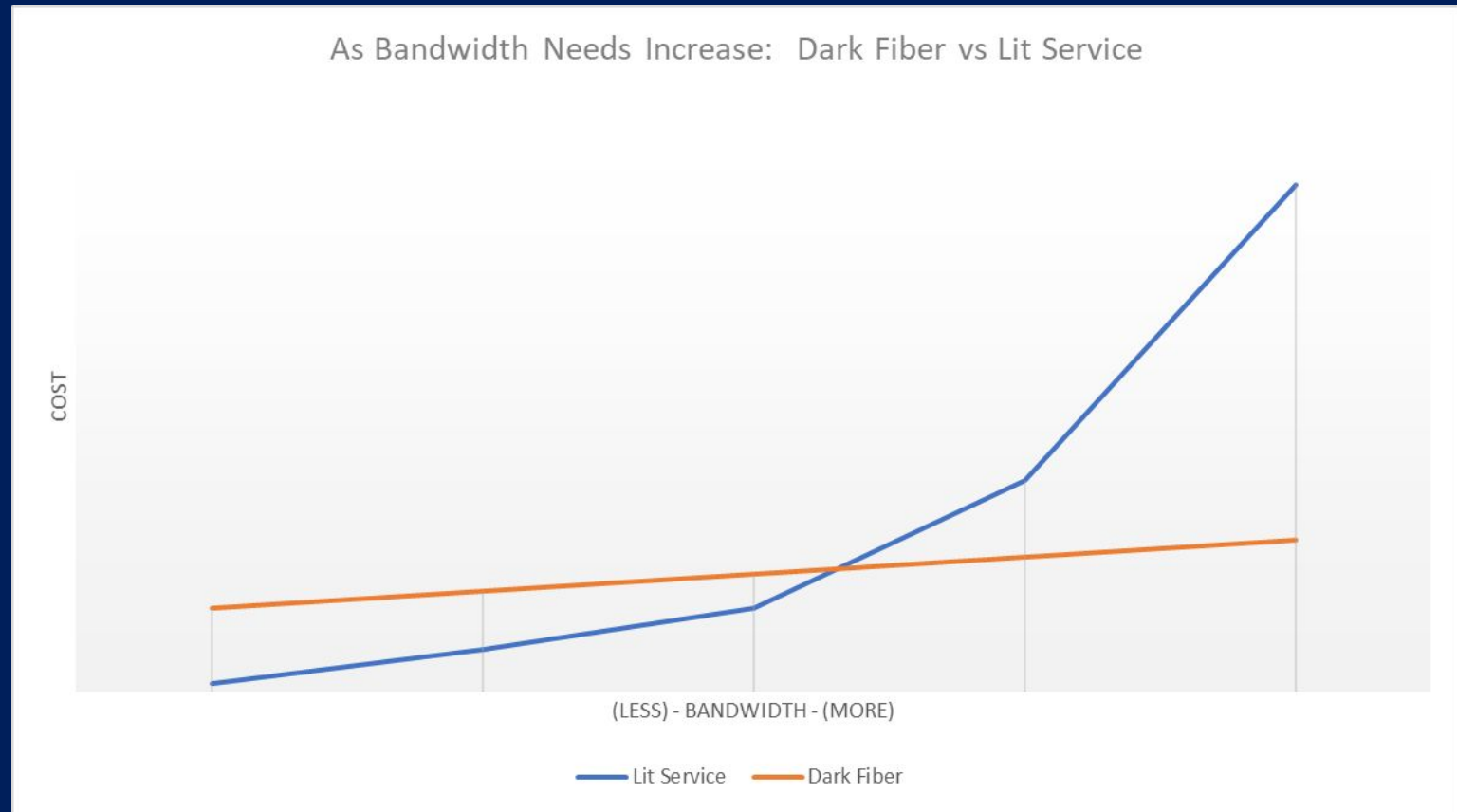
- **Dark Fiber** is made up of fiber optic strands without network equipment included by the Service Provider. The User (District) of Dark Fiber provides its own network equipment in order to utilize the Dark Fiber.
- This compares to “**Lit Fiber**” that is made up of fiber optic strands with network equipment included by the Service Provider in order to provide the District with WAN Services. Lit Services often includes Metro Ethernet.



Dark Fiber Value Proposition – Economies of Scale & Bandwidth vs Cost

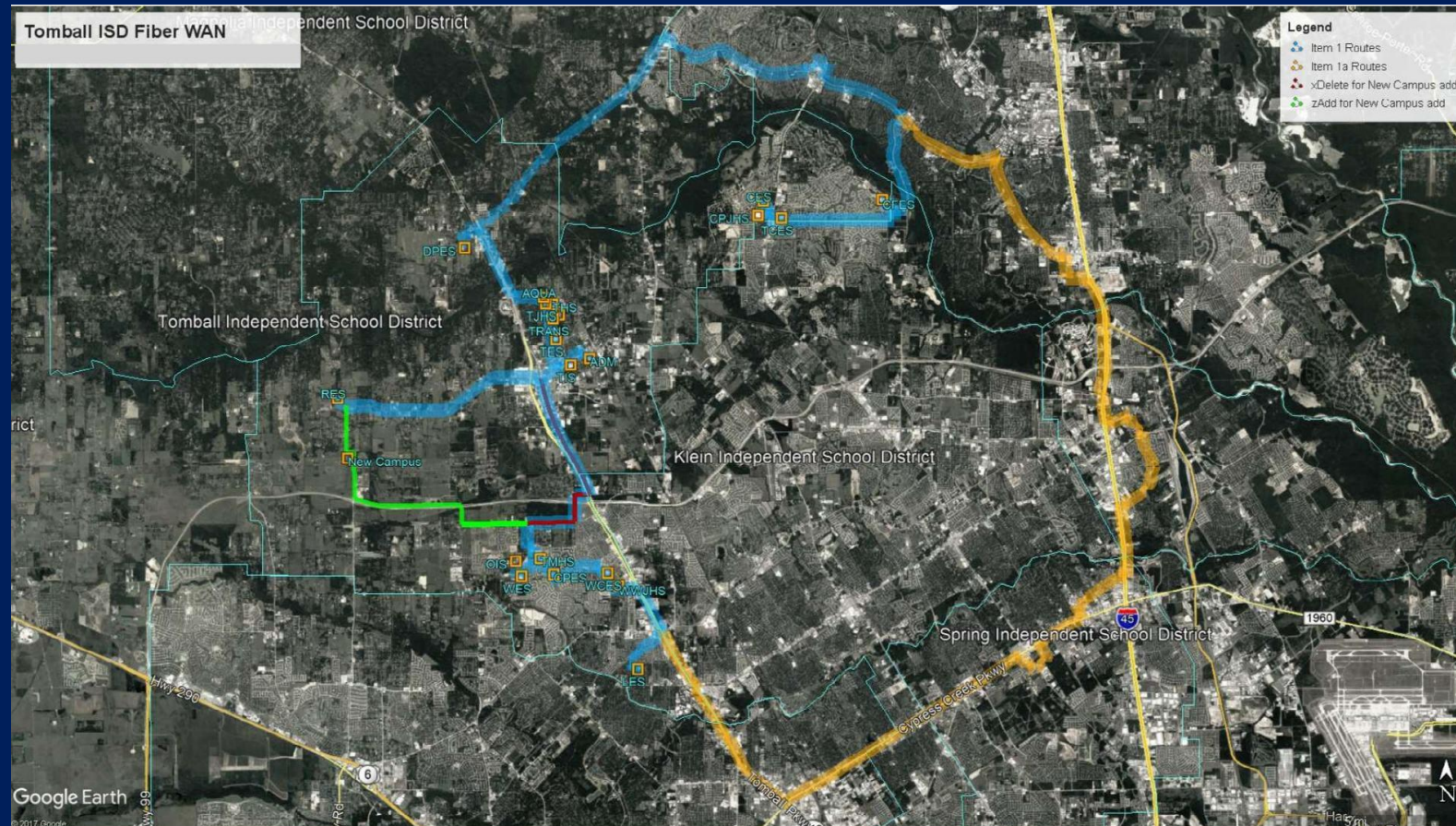
With Lit Services, as bandwidth needs increase, so typically do costs.

With Dark Fiber, as bandwidth increases, costs remain the same. District benefits from true economies of scale.



Network Design & Visibility

With Dark Fiber, a district has visibility to the design and routing of its Dark Fiber.



Other school districts that benefit from dark fiber

Alvin ISD

Waller ISD

Conroe ISD

Cy-Fair ISD

Magnolia ISD

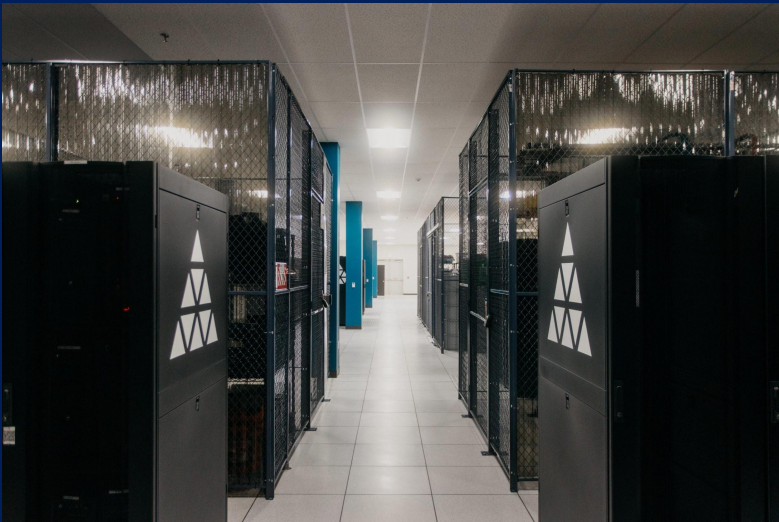
Katy ISD

Spring ISD

Klein ISD

Cybersecurity

- Security Incident and Event Management System
- Move Secondary Data Center to an offsite colocation
- Cortex Endpoint Security



Student Chromebook Refresh

- 2,000 – End of Life in 2024
- 23,000 - End of Life in 2026



Staff Device Refresh

- 3,000 devices



Small Group Discussion

What do
you agree
with?

What
questions do
you have?

What would you want to
argue with?



What if the district
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TOMBALL ISD FINE ARTS



INSPIRING LIFELONG ARTISTRY AND CREATIVITY

JD Janda, Director of Fine Arts

The Importance of the Arts

- Educating the Whole Child
- Right brain and left brain
- Creativity
- Self Awareness
- Expression
- Voice to emotions
- Closing the cultural and economic gap
- Social Emotional Learning
- Teamwork
- In the arts, young people learn how to learn
- Camaraderie
- Fun
- Enjoyment
- Respite from rigors of the day
- Recharge – Renew – Refresh
- Prepare to learn other subject
- Making the brain and the emotions elastic, expandable and ready to learn

The Arts are REQUIRED

Although the Fine Arts are not the four core and there's not a STAAR test, The Arts are REQUIRED by the Texas Education Code! Just like:

- C.T.E.
- Foreign Language
- P.E.

T.E.A. requires one full-year, TEKS based fine arts course in grades 6, 7 or 8
AND –

At least one fine arts credit in high school REQUIRED for EVERY endorsement (STEM, Business and Industry, Public Services, Arts and Humanities, Multidisciplinary Studies)

The Arts are CURRICULAR

Because the arts are curricular, All fine arts courses use TEKS (Texas Essential Knowledge and Skills) – just like the four core.

HB-2230 in the Texas House passed out of committee unanimously, fully bi-partisan to move the arts from the enrichment curriculum to the foundation curriculum. Interesting!

The TEKS are the standards for instructional delivery, set down by the Texas Education Agency just like the four core.

TEA also defines what fine arts disciplines and courses Texas Public schools must offer.

Activities that are Extra-Curricular do not have TEKS or other standards set by TEA.

AND....

Unlike almost all other courses offered in Tomball ISD, each CURRICULAR fine arts course offers an EXTRA-CURRICULAR component for grades 6 – 12.

THUS....

All facilities and equipment for our Tomball ISD Fine Arts courses must provide adequate learning opportunities for the **fine arts curriculum** set down by TEA

While also providing all the competitive opportunities for the **extra-curricular** components governed by entities like the UIL, TMEA, WGI, TAEA and several others.

And Arts enrollment is growing!

Since the last bond was passed in 2017, enrollment in elementary fine arts has grown by **18%**

In the same time period, secondary fine arts enrollment has grown by **14%**

Classroom Technology

- To adequately learn any fine arts curriculum, students and teachers need to have access to technology that allows students to learn in ways that they are most likely to succeed.
- Fine Arts classrooms at our newer campuses have been equipped with **Smartboards, ceiling mounted projectors, up-to-date sound systems and theatrical lighting in performance spaces.**

Classroom Technology

- Older campus have none of these things.
- Fine Arts classrooms need technology upgrades to meet new instructional standard.
 - THS, TJH, TIS, TES, DPES, RES, NIS and WWJH

CAMPUS FACILITIES

What follows are specific campuses and specific areas that need fine arts facility upgrades to be comparable to others in Tomball ISD

Tomball Intermediate

Comparison Campuses: Northpointe and Oakcrest and CPJH (for grade 6)

- **All music rooms at TIS were built in the 1960's and 70's**
- **Need upgrades to:**
 - Storage
 - Practice rooms
 - Furniture
 - Musical instruments and equipment
- **Recommendation:**
 - Upgrade current band facilities

Tomball Junior High

Comparison Campuses: Willow Wood, Creekside Park, Grand Lakes

- At TJH there is no dance studio of any kind - Dance classes in cafeteria
- Hard tile floor rather than appropriate wooden/spring dance floor
- **Recommendation:**
 - Upgrade dance facilities at TJHS to provide students with adequate dance performance space.

Tomball High School

Comparison Campuses: Tomball Memorial, new projected high school in 2024

- As the “Pride of Texas”, Tomball High School is one of our older facilities.
- We have upgraded, renovated and upgraded facilities over time. Still have needs in band, choir, black box, storage.
- Due to land lock issues and the cost prohibitive nature of building expansion, there are limitations to what we are able to do at THS.
- **Recommendation:**
 - Upgrade and/or reconfigure existing facilities at THS to provide students with updated fine arts spaces.

Recap

- 1) Technology in Fine Arts classrooms at older facilities (8 campuses)
- 2) Music building upgrades at Tomball Intermediate School
- 3) Dance floor upgrades at Tomball Junior High School
- 4) Fine Arts upgrades at Tomball High School

Thank You!

TOMBALL ISD FINE ARTS



INSPIRING LIFELONG ARTISTRY AND CREATIVITY

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Athletic Department

Vince Sebo, Director of Athletics

Growth & Evolution of Program

- Increase in participation
- Success breeds more success
- Growth of the District
 - Jump from 5A to 6A classification
 - TMHS: 2018-19
 - THS: 2020-21
- Classification Discussion

Athletic Program Success

- **Tomball High School**
 - 2 Cross Country athletes compete at State
 - Volleyball went to the playoffs
 - Boys Soccer went to the playoffs
 - Girls Soccer were Bi-District & Area Champs
 - Tennis went to the playoffs
 - Baseball were District Champs - still in season

Athletic Program Success

- **Tomball Memorial High School**
 - Volleyball went to the playoffs
 - Football was District, Bi-District & Area Champs
 - Girls Basketball were District, Bi-District & Area Champs
 - Boys Soccer went to the playoffs
 - Girls Soccer were District, Bi-District & Area Champs
 - Track - 1 athlete went to the State Meet
 - Swim - 2 divers went to the State Meet
 - Baseball in the playoffs - still in season

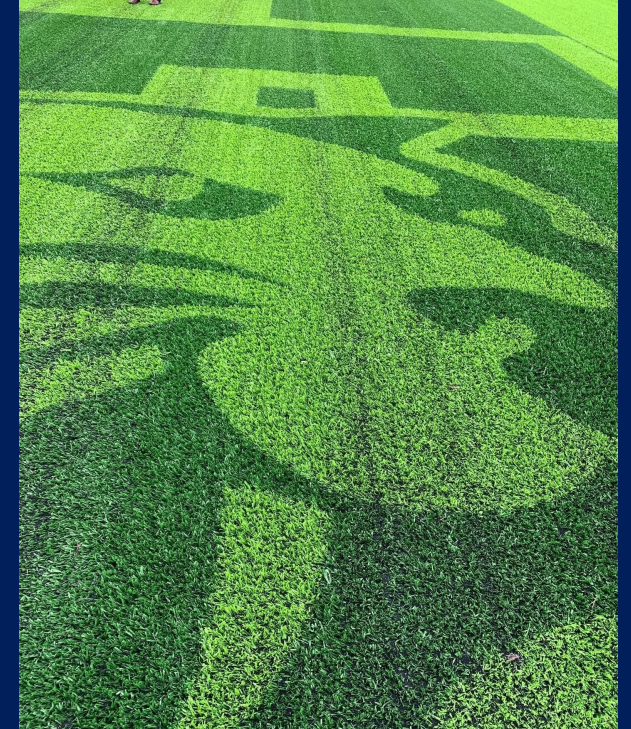
Previous Bond Projects

- New Tomball ISD Stadium
 - 12,000 seats, scoreboard & technology, upgraded field house



Previous Bond Projects

- Baseball and Softball Field Upgrades
 - turf, covered batting cages, fencing



Renovation Recommendations

There are many wants and desires for the advancement of the athletic department, but these do not outweigh the current needs for growth and instruction.

- HOWEVER. . .
- Replace lockers at Tomball JH Athletics & P.E., Tomball HS 9th and JV Football
- Replace backstop netting and sound system upgrade at THS & TMHS Tomball HS Baseball/Softball fields
- Expanded bleacher seating at THS & TMHS Tomball HS Baseball/Softball fields
- Add bleachers at TMHS football field

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Technology (infrastructure)	19
Fine Arts	3
Athletics	1

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