FACILITIES CAPITAL PLAN

Board Update

Houston Independent School District

June 2009



Agenda

- Facilities Capital Plan Update
 - Bond Program
 - Pay-As-You-Go Program
 - Track and Field Funding
 - Health Clinic Program
- Life-Cycle Projections
- Special Considerations
- Funding Alternatives



2007 Bond Fund Program

Funding from Bond Issue
Pay-As-You-Go Program
Real Estate and Capital Project Reserves
Total Funding for Rebuild HISD 2007

\$ 805,000,000 \$ 145,000,000 \$ 95,000,000 \$ 1,045,000,000

	fro	y-As-You-Go om General Fund nd Balance	State F	As-You-Go from Funding Transfer curring Funds	Capital and ner Reserves	В	ond Issuance	Totals
Budgeted Funding	\$	75,000,000	\$	70,000,000	\$ 95,000,000	\$	805,000,000	\$ 1,045,000,000
Funded to Date	\$	30,000,000	\$	30,000,000	\$ 70,000,000	\$	400,000,000	\$ 530,000,000
Amount to be Funded	\$	45,000,000	\$	40,000,000	\$ 25,000,000	\$	405,000,000	\$ 515,000,000



Facilities Capital Program

Other Program Funding

Pay-As-You-Go Deferred Maint.	\$89.8	million	
Track & Field Program	8.7	million	
 Health Clinic Program 	.5	million	
Total Other Funding	\$ 99 0	million	



Facilities to Standard

Pay-As-You-Go Six Year Plan \$234,883,181

2007 Bond Fund Program \$145,000,000

Non-Bond Fund Priorities \$89,883,181

Deferred Maintenance Phase II \$11,500,000

Critical/Emergency Repairs \$6,200,000

HVAC \$47,315,000

Roof Assessment/Replacement \$15,500,000

Life Safety \$3,500,000



Bond Program

Summary Of Program

- Safety & security upgrades for all schools
- Science lab upgrades for all secondary schools
- Building 24 new schools
- Building 2 additional early college campuses
- 4 Renovation-Additions
- Renovate & repair 134 schools



Bond Program Status

- Program Management
- Professional Services Firms
- CM at Risk Contracts
- M/WBE Participation
- Science Equipment/Infrastructure
- Opening 2 New Schools
- Summer T-building Relocations
- School Construction Projects



Program Management

Program Management Cost Savings

Relative to Prior Bond Program: Approximately \$20 million

- New Construction: Managed by internal project managers
- Renovations: managed by 5 Program Administrators (PAs)

AtserRice & Gardner

Turner Construction
 The Trevino Group

DMJM/AECOM Johnston LLC



Professional Services Firms

Architects

- 24 new school construction projects
- 64 renovation school construction projects

Geotechnical & Materials Testing Hazardous Materials Testing Surveying & Platting



Construction Managers at Risk

Hired Nine (9)

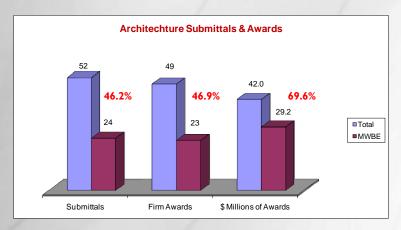
Construction Manager At Risk

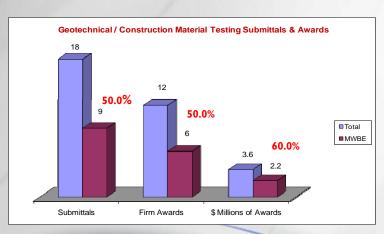
Contractors for 24 New School

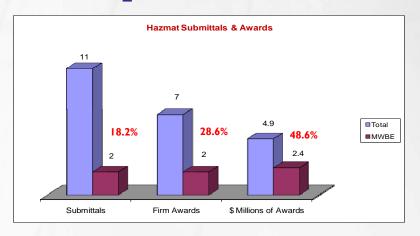
Construction Projects

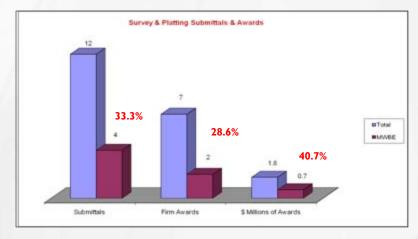


M/WBE Participation











Science Equipment/Infrastructure

Science Equipment Has Been Provided
For All Middle Schools and
All High Schools

Science Lab Infrastructure Upgrades To Be Included In Planned Renovations



Opening 2 New Schools

Opening Fall 2009*

- HISD East Early College High School Leonel Castillo Academic Center
- Sugar Grove Elementary School



Summer T-Building Relocations

250 transportable building moves in progress

- Utilizing 4 t-building movers
- 232 for school construction project requirements
- 18 for district-wide requirements



School Construction Projects Breaking Ground In The Next 6 Months

Project	Notice To Proceed
Gregg ES	Summer 2009
Lovett ES	Summer 2009
Piney Point ES	Summer 2009
Patterson ES	Fall 2009
DeChaumes ES	Fall 2009
Crockett ES	Fall 2009
Herod ES	Fall 2009
Valley West ES	Fall 2009
Frost ES	Fall 2009
Almeda ES	Fall 2009



School Construction Projects Breaking Ground In The First Half Of 2010

Berry ES	Cunningham ES
Horn ES	Kate Smith ES
Lewis ES	Mitchell Relief ES
Neff/White Relief ES	Peck/MacArthur ES



Status of Other Funded Programs

- Pay-As-You-Go Program
- Track and Field Program
- Health Clinic Program



Pay As You Go Program

Roofing Projects (\$15.5 million)

- 9 projects complete
- 4 projects in progress

Deferred Maintenance Projects (\$59.0 million)

- Chiller replacements at 46 schools
- Boiler replacements at 29 schools
- Piping replacement/repairs and new insulation at 23 schools
- Unit ventilators/air handling units replaced 13 schools
- Direct digital controls (DDC) replaced at 18 schools

Critical/Emergency Repairs (\$6 million)

Life Safety Needs (\$3.5 million)



Track and Field Program

Four Tracks Completed

Davis High School	Dyer Stadium
Washington High School	Westbury High School



Track and Field Program

Tracks To Be Completed Within 12 Months

Austin High School	Bellaire High School
Furr High School	Sam Houston High School
Jones High School	Lee High School
Madison High School	Milby High School
Scarborough High School	Sharpstown High School
Sterling High School	Waltrip High School
Yates High School	



Health Clinic Program

Health Clinics To Be Completed In 2009

- HMW Education Support Center
- Police Department
- Fleming Middle School
- Sharpstown Middle School
- To Be Determined



Real Estate Questions

- Carnegie Vanguard High School
- South Early College High School
- Mitigation Roosevelt Elementary School



Life Cycle Analyses



Life Cycle Forecasting

The Recurring Cost for Capital Renewal to maintain/replenish the Depreciating Value of a permanent structure.

These costs do not necessary infer a lack of maintenance but rather a cycle of expected life for given building system or subsystem

... all of which expire at different rate.



The Facility Life Cycle

- Assume a Typical school building lasts 50 years
- The building is replaced twice in 100 years
- 100/50 equals 2% per year
- In a linear model, 2% of the buildings replacement cost is incurred each year, starting in the first year.

... It is, however, not Linear!



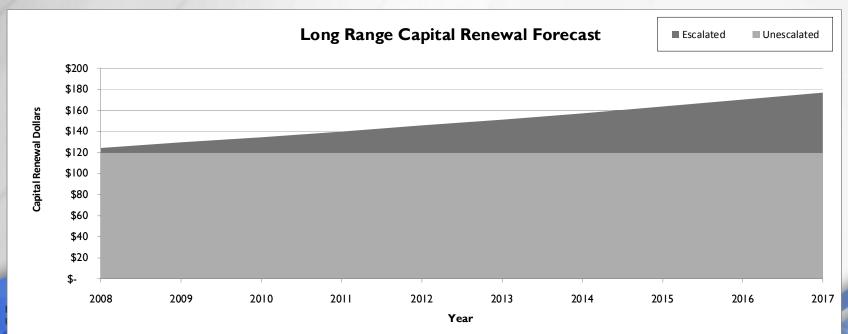
Annual Renewal Rate

Avera	ige A ge	I 00 Year Replacement Multiple (x)	Annual Renewal Rate
50	Year Average Age	2.00 x	2.0%
48	Year Average Age	2.08 ×	2.1%
46	Year Average Age	2.17 x	2.2%
44	Year Average Age	2.27 ×	2.3%
42	Year Average Age	2.38 x	2.4%
40	Year Average Age	2.50 x	2.5%
38	Year Average Age	2.63 ×	2.6%
36	Year Average Age	2.78 x	2.8%
34	Year Average Age	2.94 ×	2.9%
32	Year Average Age	3.13 x	3.1%
30	Year Average Age	3.33 x	3.3%



30-Year Linear Forecast

	Year I	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Annual Capital Renewal (Unescalated)	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6	\$ 119.6
		Total				, II'je		1	'.	Renewal Rate
10-Year Annual Total (Unescalated)	1	\$ 1,196			HISD Port	folio Replac	ement Valu	e (Billion)	\$ 5,438	2.2%
10-Year Average Annual Total (Unescalate	-d)	\$ 119.6						Average Age of	Ruildings (2009)	46





Capital Renewal Forecasting

The Capital Renewal Costs for a Building Can be Calculated:

- Buildings are made up of Systems
- Systems have Subsystems
- Subsystem Life can be Projected
 - Construction Type
 - Maintenance Quality
 - Current Age
- Projected Costs can be Calculated



HISD Capital Renewal

- I. Identified all Buildings within the District
- 2. Established Systems and Subsystems
- 3. Identified Subsystem Type
- 4. Documented the **Original Date** and/or **Replacement Date**
- Compared Date to Expected Life and Calculate Remaining Life
- 6. Projected and Escalated the Replacement Cost
- 7. Summed Cost for Annual District Wide Total



Life Cycle by System

	ſear I	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	,	Year 10
Building System	2008	2009	2010	2011	2012	2013	2014	2015	2016		2017
Site	\$ 0.30	\$ 0.53	\$ 0.33	\$ 5.66	\$ 0.38	\$ 3.16	\$ 0.29	\$ 10.56	\$ 1.25	\$	1.37
Roofing	\$ 0.21	\$ 0.12	\$ 1.99	\$ 1.65	\$ 7.41	\$ 1.30	\$ 4.49	\$ 9.25	\$ 7.42	\$	16.03
Structural	\$ -	\$ -	\$ - 1	\$ T-,1	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
Exterior	\$ 0.84	\$ 1.53	\$ 2.56	\$ 2.76	\$ 4.35	\$ 6.03	\$ 0.35	\$ 3.31	\$ 1.58	\$	7.45
Interior	\$ 0.83	\$ 2.58	\$ 2.56	\$ 14.47	\$ 5.58	\$ 17.16	\$ 4.13	\$ 15.17	\$ 5.11	\$	9.26
Mechanical	\$ -	\$ 0.32	\$ 0.65	\$ 14.64	\$ 7.34	\$ 9.30	\$ 0.24	\$ 18.66	\$ 5.32	\$	9.94
Electrical	\$ 0.04	\$ 0.64	\$ 0.00	\$ 4.66	\$ 26.74	\$ 1.04	\$ 0.39	\$ 4.60	\$ 0.07	\$	26.37
Plumbing	\$ -	\$ 0.01	\$ 0.17	\$ 1.21	\$ 0.14	\$ 3.74	\$ 0.00	\$ 1.50	\$ 0.29	\$	0.29
Fire and Life Safety	\$ 	\$ 0.19	\$ 5.32	\$ 0.04	\$ 1.04	\$ 5.78	\$ 1.27	\$ 0.44	\$ 3.50	\$	16.35
Technology	\$ -	\$ -	\$ -	\$ 	\$	\$ -	\$ -	\$ -	\$ -	\$	-
Stairs and Elevators	\$ -	\$ 0.05	\$ 0.10	\$ 0.05	\$ 0.13	\$ 0.60	\$ 4- 1	\$ 0.05	\$ 0.09	\$	0.14
Specialties	\$ 0.12	\$ 1.77	\$ 1.51	\$ 0.55	\$ 4.64	\$ 12.30	\$ 0.69	\$ 2.30	\$ 1.12	\$	9.22
Annual Capital Renewal (Unescalated)	\$ 2.3	\$ 7.7	\$ 15.2	\$ 45.7	\$ 57.7	\$ 60.4	\$ 11.9	\$ 65.8	\$ 25.7	\$	96.4
Cummulitve Capital Renewal (Unescalate	\$ 2.3	\$ 10.1	\$ 25.3	\$ 71.0	\$ 128.7	\$ 189.1	\$ 201.0	\$ 266.8	\$ 292.5	\$	388.9



HISD Ten Year Forecast

		Year 2008	_	Year 2 2009	Year 3 2010		Year 4 2011	Year 5 2012	-	ear 6 013		ear 7 2014		Year 8 2015	rear 9 2016		ear 10 2017
Annual Capital Renewal (Unescalated)	\$	2.3	\$	7.7	\$ 15.2	2 \$	45.7	\$ 57.7	\$	60.4	\$	11.9	\$	65.8	\$ 25.7	\$	96.4
			-													-	
	1			Total						F	p I		1			Ren	ewal Rate

- HISD at .7% due to prior Investment
 - Versus 2.2 Straight-line Capital Depreciation (46 Years)
- \$388.9 million in Total Cost over 10 Years
- * Figures in current day unescalated dollars



Capital Funding Levels

Year 4

Year 5

Year 6

Year 7

Year 8

Year 9

Year 10

Year 3

Year 2

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Annual Capital Renewal (Unescalated)	\$ 2.3	\$ 7.7	\$ 15.2	\$ 45.7	\$ 57.7	\$ 60.4	\$ 11.9	\$ 65.8	\$ 25.7	\$ 96.4
Capital Renewal Funding Levels										
Capital Renewal Funding Level - Zero			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative Deferred Capital Renewal Bond Funding	\$ (2.3)	\$ (10.1)	\$ (25.3)	\$ (71.0)	\$(128.7)	\$(189.1)	\$(201.0)	\$(266.8)	\$(292.5)	\$(388.9)
2) Capital Renewal Funding Level - Full \$ 48.6			\$ 48.6	\$ 48.6	\$ 48.6	\$ 48.6	\$ 48.6	\$ 48.6	\$ 48.6	\$ 48.6
Cumulative Deferred Capital Renewal Bond Funding	\$ (2.3)	\$ (10.1)	\$ 23.3	\$ 26.3	\$ 17.1	\$ 5.4	\$ 42.1	\$ 24.9	\$ 47.8	\$ 0.0
3) \$10 Million Capital Renewal Funding Level \$ 10.0			\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0
Cumulative Deferred Capital Renewal Bond Funding	\$ (2.3)	\$ (10.1)	\$ (15.3)	\$ (51.0)	\$ (98.7)	\$(149.1)	\$(151.0)	\$(206.8)	\$(222.5)	\$(308.9)
4) \$20 Million Capital Renewal Funding Level \$ 20.0			\$ 20.0	\$ 20.0	\$ 20.0	\$ 20.0	\$ 20.0	\$ 20.0	\$ 20.0	\$ 20.0
Cumulative Deferred Capital Renewal Bond Funding	\$ (2.3)	\$ (10.1)	\$ (5.3)	\$ (31.0)	\$ (68.7)	\$(109.1)	\$(101.0)	\$(146.8)	\$(152.5)	\$(228.9)
5) \$30 Million Capital Renewal Funding Level \$ 30.0			\$ 30.0	\$ 30.0	\$ 30.0	\$ 30.0	\$ 30.0	\$ 30.0	\$ 30.0	\$ 30.0

Cumulative Deferred Capital Renewal Bond Funding \$ (2.3) \$ (10.1) \$ 4.7 \$ (11.0) \$ (38.7) \$ (69.1) \$ (51.0) \$ (86.8) \$ (82.5) \$ (148.9)



Special Considerations

Bellaire HS

\$12-15 Million Addition

Grady MS

\$10-12 Million Addition

HSPVA

\$40-50 Million

Lockhart

\$6-8 Million Increase*

Westbury HS

Property Acquisition

Worthing HS

\$6-8 Million Increase*

Sam Houston HS \$5-7 Million



* In Current Bond Program

Funding Alternatives



Houston Independent School District Comparison of Qualified School Construction Bonds versus Conventional Financing

		QSCBs			Con	ventional Financ	ing
	Net HISD	Invested SF	Gross	Total of			
Year	Payments	3.00%	Payments	Net Payments	Series 2009	Series 2010	Total
2010	3,954,765	1,661,001	5,615,766	3,954,765	3,954,765		3,954,765
2011	4,083,698	1,592,642	5,676,340	4,083,698	4,083,698		4,083,698
2012	4,418,538	1,590,674	6,009,212	4,418,538	4,418,538		4,418,538
2013	4,490,732	1,481,941	5,972,673	4,490,732	4,490,732		4,490,732
2014	4,757,594	1,427,278	6,184,873	4,757,594	4,757,594		4,757,594
2015	888,449	239,881	1,128,330	888,449	888,449		888,449
2016	909,492	218,278	1,127,770	909,492	909,492		909,492
2017	3,821,232	802,459	4,623,691	3,821,232	3,821,232		3,821,232
2018	3,780,800	680,544	4,461,344	3,780,800	3,780,800		3,780,800
2019	3,977,405	596,611	4,574,015	3,977,405	3,977,405		3,977,405
2020	4,193,678	503,241	4,696,920	4,193,678	4,193,678		4,193,678
2021	4,315,360	388,382	4,703,742	4,315,360	4,315,360		4,315,360
2022	6,020,857	361,251	6,382,108	6,020,857	6,020,857		6,020,857
2023	6,161,364	184,841	6,346,205	6,161,364	6,161,364		6,161,364
2024	6,250,582	1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,250,582	6,250,582	6,250,582		6,250,582
2025				r Africa			-
	62,024,546	11,729,026	73,753,572	62,024,546	62,024,546	_	62,024,546



Houston Independent School District Comparison of Qualified School Construction Bonds versus Conventional Financing

Principal Amount of Conventional Bonds (3.75% Rate)

\$45,705,085

Principal Amount of QSCBs

73,753,572

Loss of Projects due to Inflated Cost

(14,750,714)

\$59,002,858

Savings of QSCBs Program over Conventional Financing

\$13,297,773



Facilities to Standard

General Fund Undesignated Fund Balance

\$ 20 - 25 million

(recommendation is to use over time for repayment of PFC debt)

Amount Available for PFC Issuance of Bonds

\$ 52,527,786

(using TIRZ funds for annual repayments; assumes

use of Davis Bacon Wage Rates)

Amount Available for PFC Issuance of Bonds

45,705,585

(using TIRZ funds for annual repayments; assumes

conventioal financing)

Use of 2009-2010 One-Time Funds

TBD

