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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

Course Description

Houston ISD worked with Page, DLR Group and stakeholders to design replacements for the High School for Law & Justice and North Forest High School. Students entered dramatically new learning environments in 2018. One launches students into law enforcement and criminal justice careers; the other comprehensively serves a disadvantaged community. How do the new campuses impact the students and community?



Learning Objectives

- 1. Participants will compare and contrast facility design for legal and justice career education versus comprehensive high school education.
- 2. Participants will learn how design strategies affect the student experience via stories and metrics.
- 3. Participants will hear from a School Principal who advocated for program-specific design and a District Design Manager who promoted equitable standards.
- 4. Participants will be exposed to the strategy of two new school projects serving to uplift transitional neighborhoods.

Houston ISD: HS for Law & Justice, North Forest HS



Wendy Heger AIA, LEED AP BD+C Principal, Page



Daniel W. Bankhead AIA, NOMA General Manager, Facilities Design, Houston ISD



Carol Mosteit Principal High School for Law & Justice



Elaine Lee AIA Designer/Senior Associate, Page **Taryn Kinney AIA, LEED AP** Principal, DLR Group

Introduction Speakers

Houston ISD: Who Are We?

Facts & Figures

- Largest district in Texas, 7th largest in United States
- 284 Schools
- 215,000 Students
- 75% Low Income
- 86% Hispanic and African-American
- 100 Languages Spoken
- Total Building Area: 29.3 million sq. ft.



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	FACTS AND FIGURES
	2017-2018 DEMOGRAPHICS
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Houston ISD: A Little History

Our Capital Improvement Programs



1998 Bond: \$678 Mill. (Safety/Security & HVAC)

More than 100 schools and support facilities Safety/security



2002 Bond: \$808.6 Mill. (HVAC, Campus Rebuilds)

Roughly 60 campuses, including 5 early childhood centers Playground equip., school gyms, transportation facilities



2007 Bond: \$805 Mill. (MEP & Safety/Security)

Almost 200 campuses Safety/security, secondary science labs, athletic facilities



2012 Bond: \$2.1 Bill. (High School Rebuild/Renov.) 40 schools, including 29 high schools

Technology, safety/security, athletics, middle school restrooms

Overview of Houston ISD Bond Program (and State-funded North Forest High School)

Houston ISD: A Little History









2012 Facilities Capital (Bond) Program

- Voters Approve \$1.89 Billion--Largest Bond Program in Texas History
- Replace 22 Existing High Schools
- Partially Replace 3 High Schools
- Renovate 4 High Schools
- Convert 5 Elementary Schools into K-8 Campuses
- Build 2 New Elementary School Campuses
- Replace/Complete 2 New Middle School Campuses

Overview of Houston ISD Bond Program (and State-funded North Forest High School)

North Forest HS: A Little Background

North Forest ISD Closed in July 2013

- A School District In Northeast Houston, Texas
- Established In The Early 1920s
- 100% of Students Classified as Economically Disadvantaged
- Closed by Order of the State and Absorbed Into the Houston Independent School District
- Houston ISD Requested State Funding for Facilities Improvements

Overview of Houston ISD Bond Program (and State-funded North Forest High School)



Comprehensive (NFHS) vs. Magnet (HSLJ)



CAPACITY: 1,630 students

SIZE: 205,000 SF

SCOPE: Multi-focus, Varied Pathways Agriculture, Law & Public Safety, Information Technology, Performing Arts



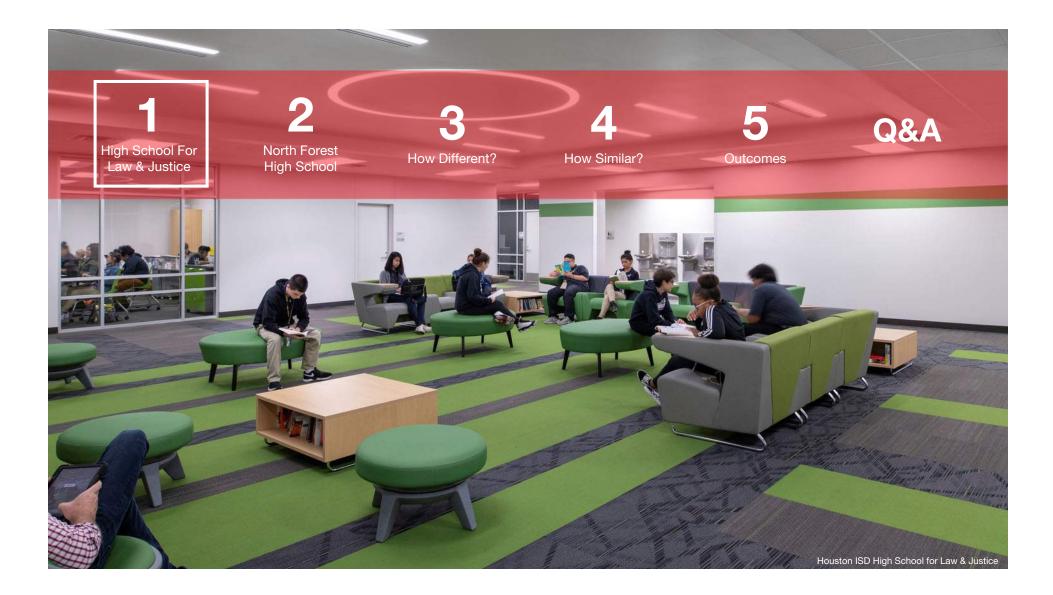


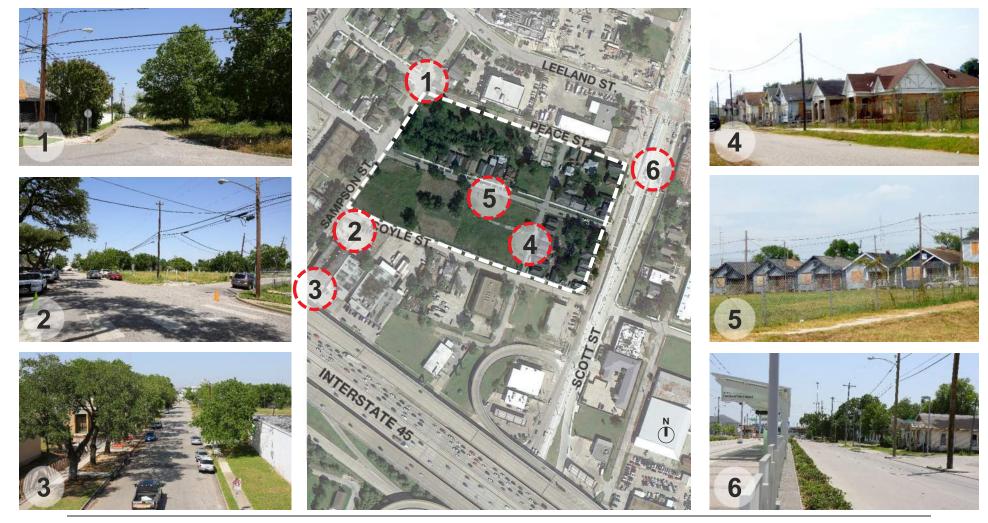
CAPACITY: 750-900 students

SIZE: 115,500 SF

SCOPE: Focused Pathways Law Enforcement and Criminal Justice







High School for Law & Justice



High School for Law & Justice



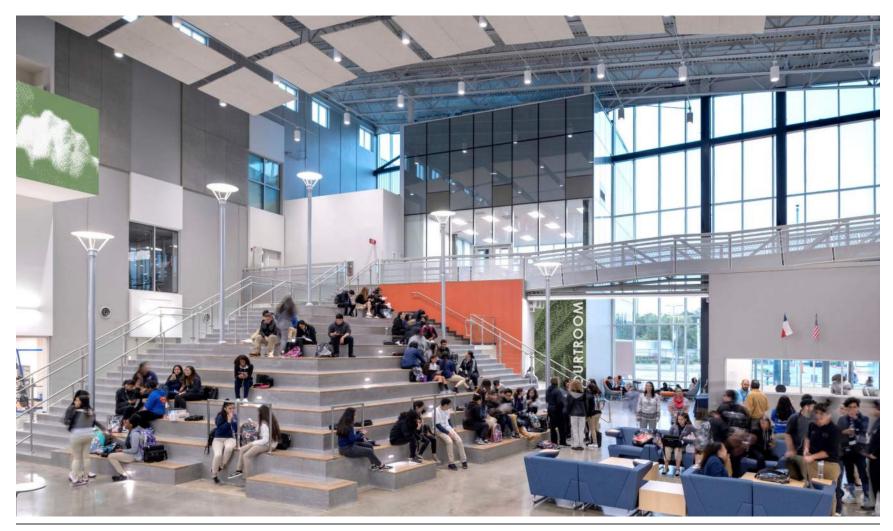
High School for Law & Justice



High School for Law & Justice



High School for Law & Justice

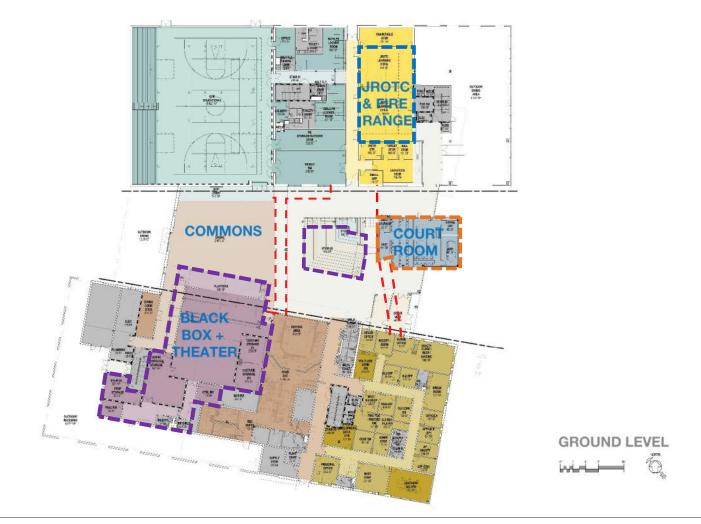


High School for Law & Justice

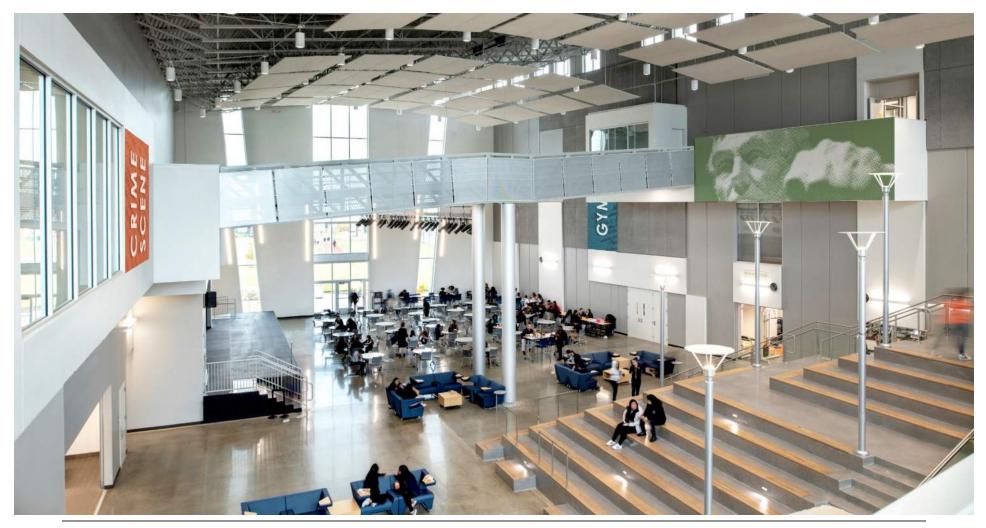


High School for Law & Justice

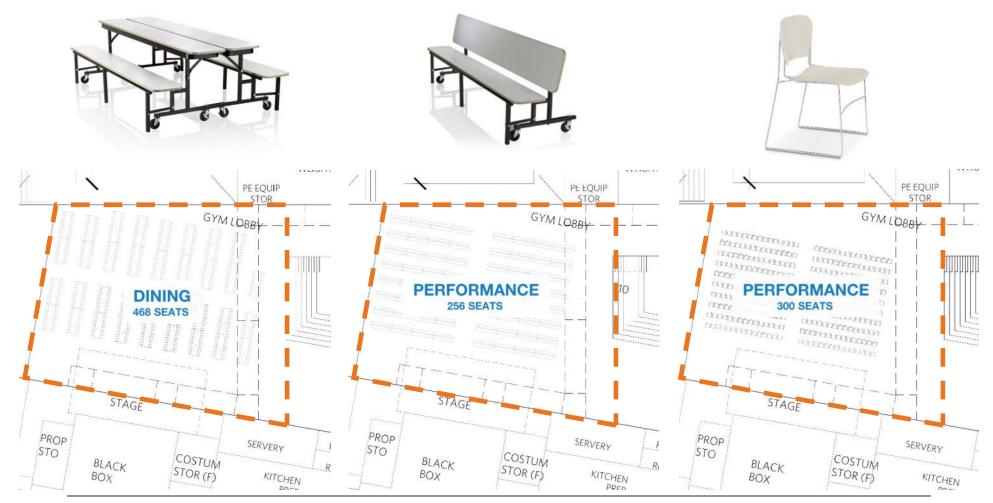
Unique Features



High School for Law & Justice



High School for Law & Justice



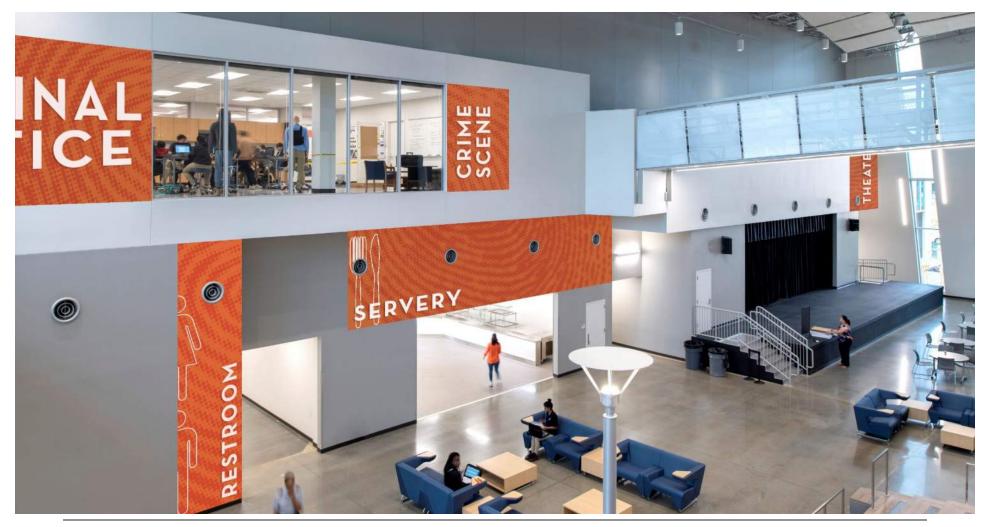
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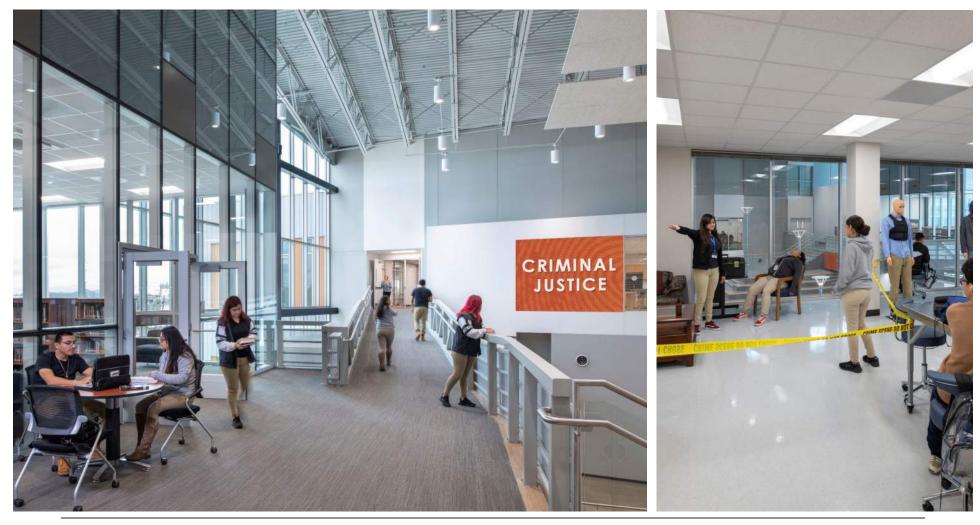
High School for Law & Justice



High School for Law & Justice



High School for Law & Justice

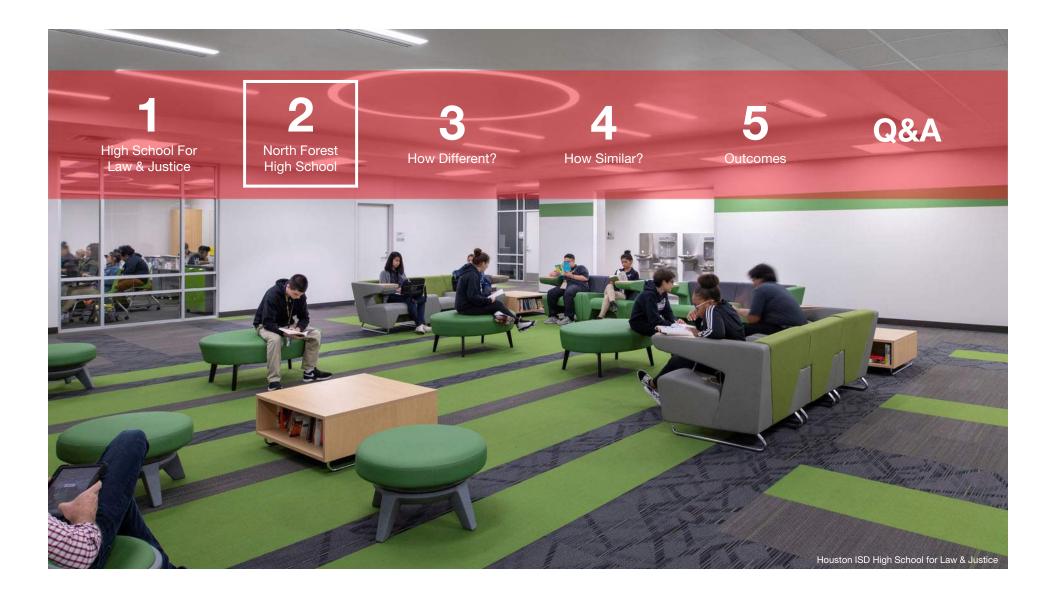


High School for Law & Justice



High School for Law & Justice

Design Strategies







Context

North Forest High School





owner project priorities

school should feel comfortable, not institutional





lines of sight and visibility are very important

North Forest High School



maintain a sense of being in the forest

safe and secure environment



work with the District's operational systems

Student Learning Centers need to be flexible enough to serve changing educational endorsements and programs of study





provide 21st Century Learning Environments throughout the campus

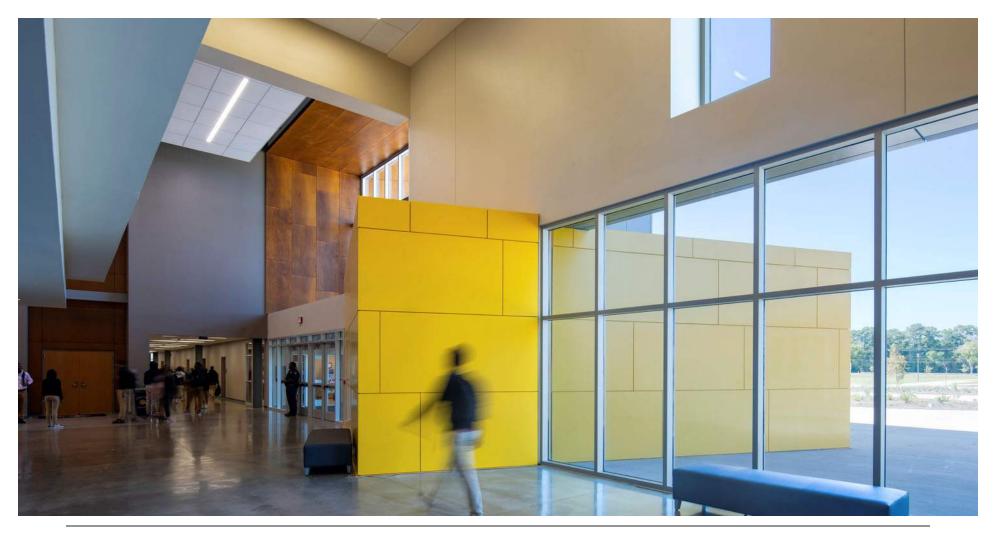


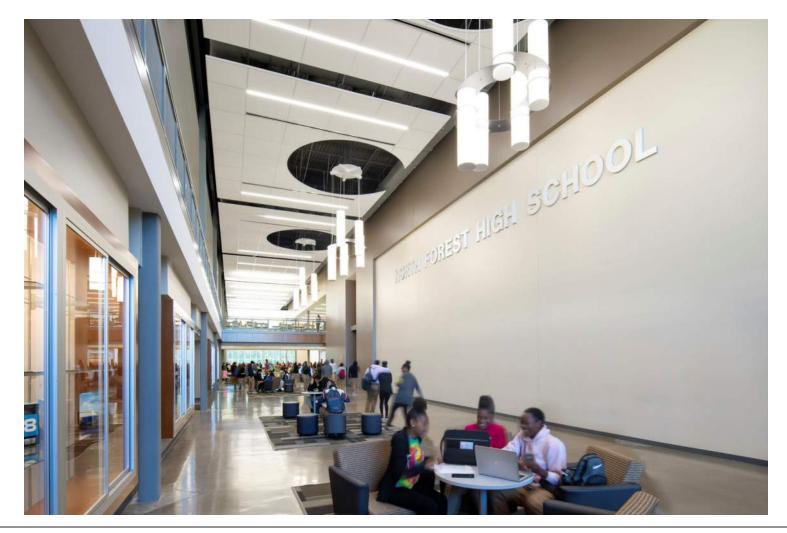
Design Strategies



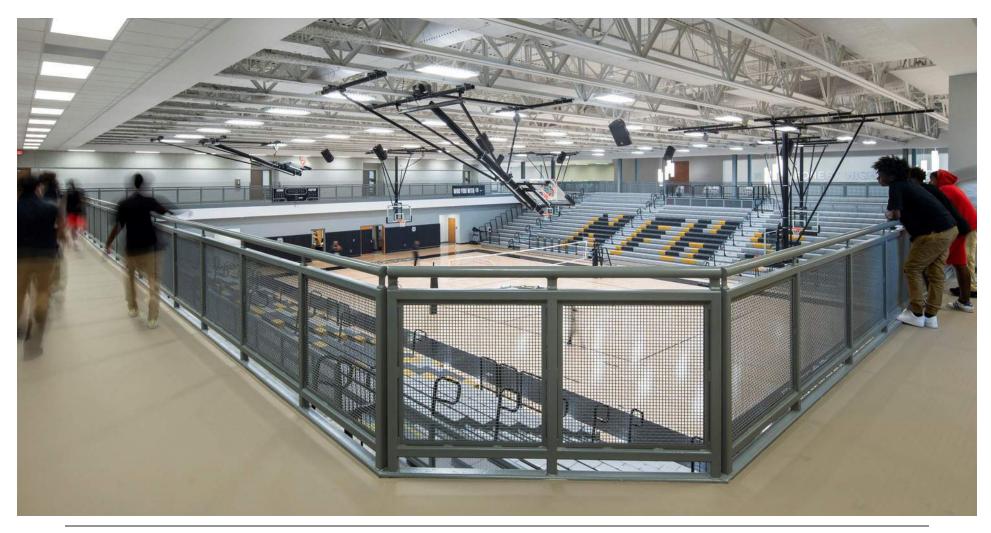


Design Strategies

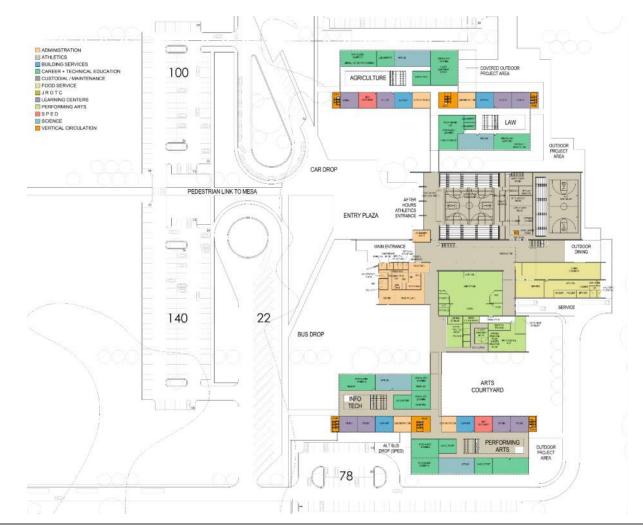




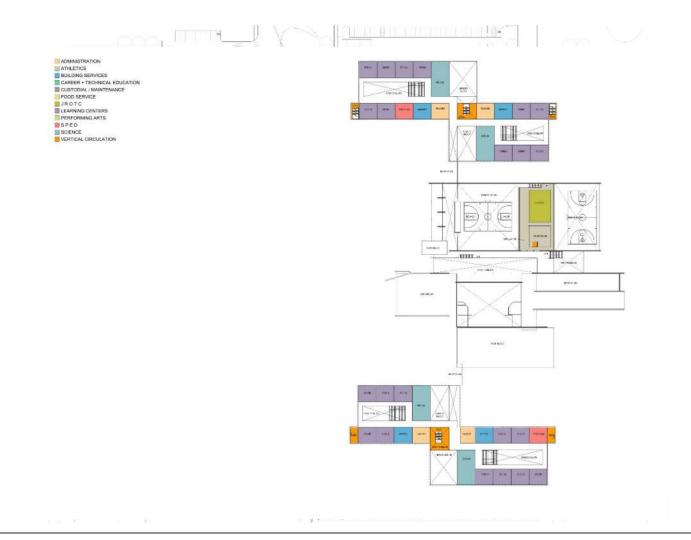
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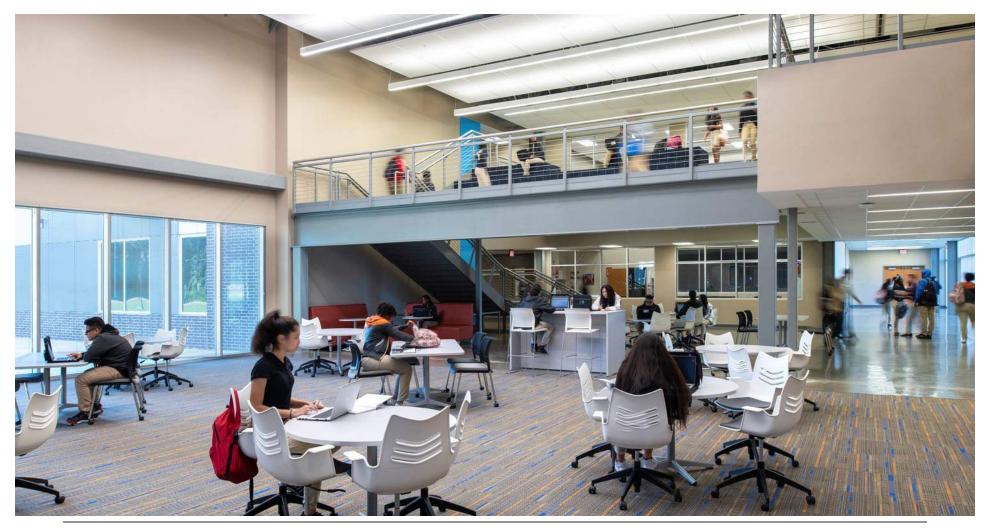
Unique Features



Design Strategies

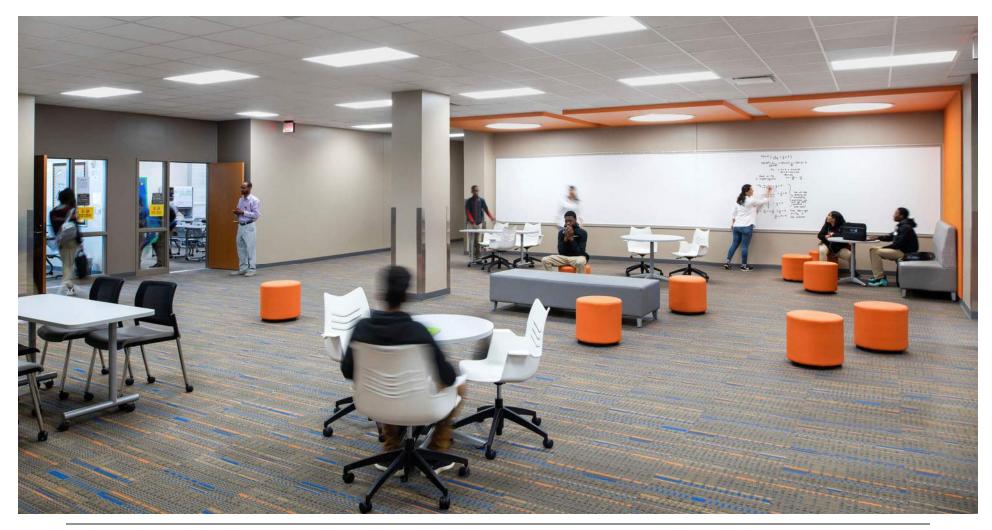


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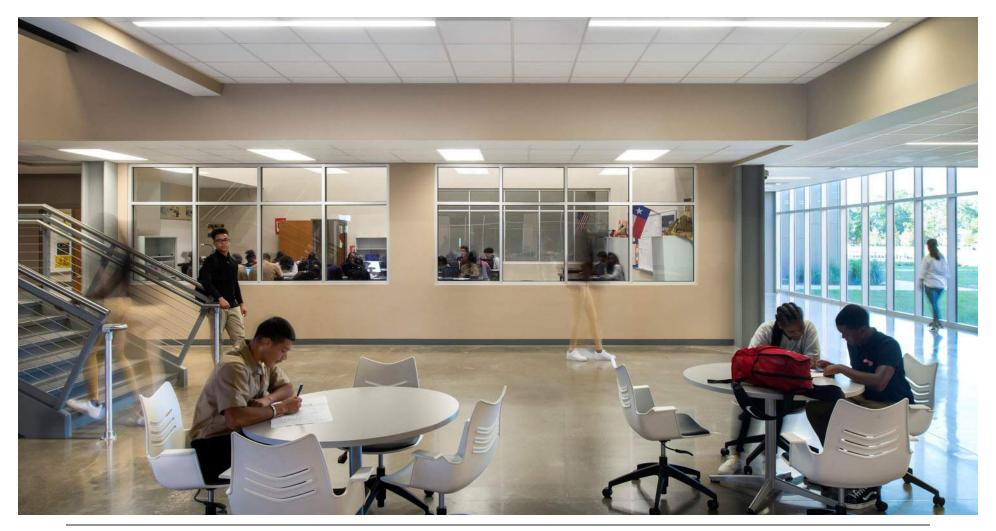


North Forest High School

Unique Features

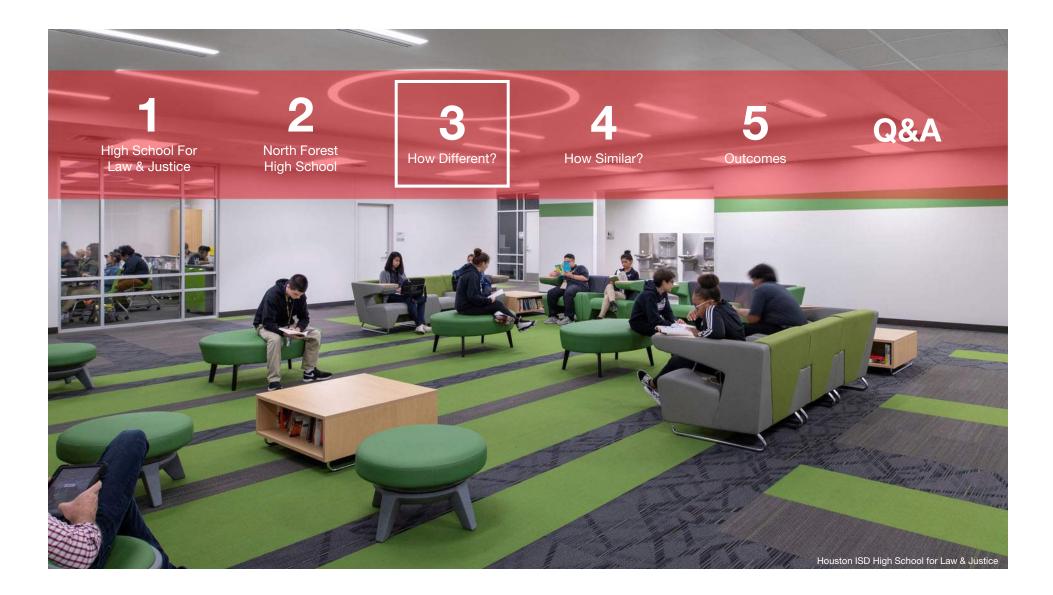


Design Strategies



North Forest High School

Design Strategies



Multiple pathways to success





External Views vs. Internal Focus



Celebration of Specialized Programs

Meaning of Color

How are these two high schools different?

21st Century Learning vs. Specialized Programs

Suburban Greenfield Ex vs. Urban Brownfield Int

21st Century Learning vs. Specialized Programs

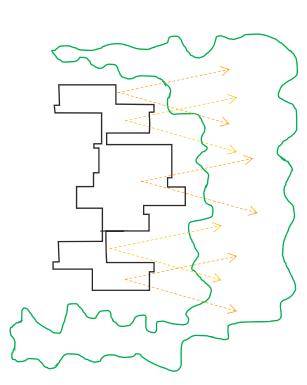


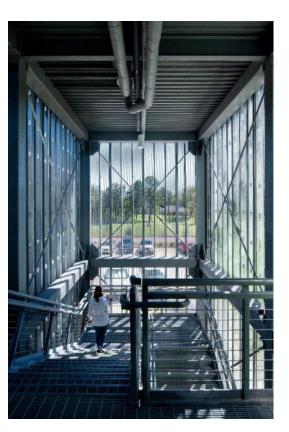
Suburban Greenfield vs. Urban Brownfield



External/Natural Views vs. Internally focused



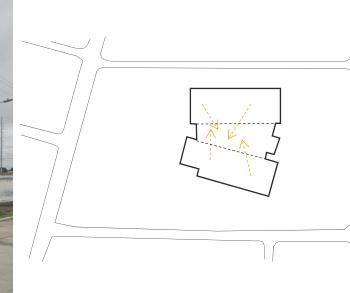


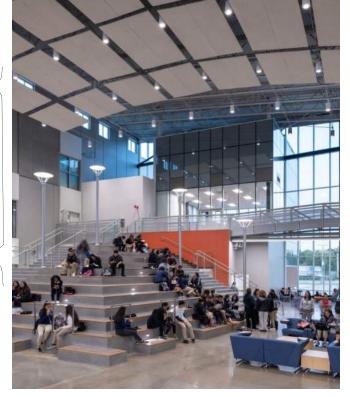


HIGH SCHOOL FOR LAW AND JUSTICE

External/Natural Views vs. Internally focused



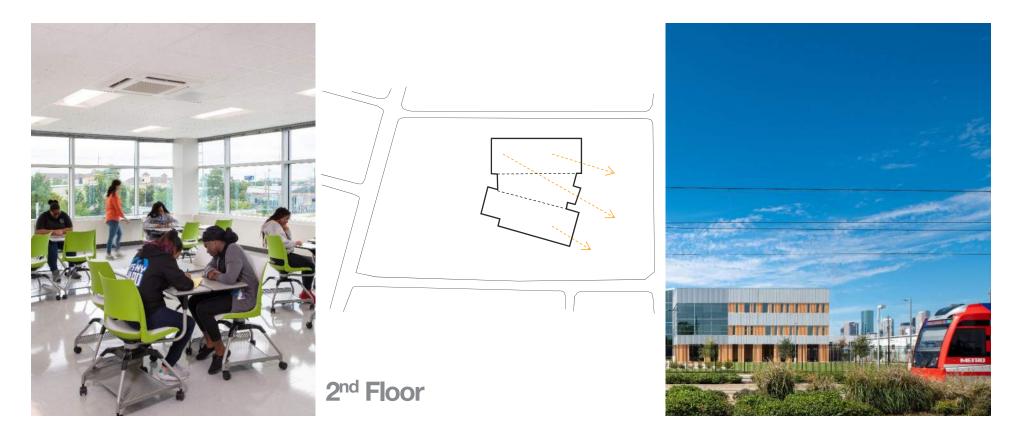




1st Floor

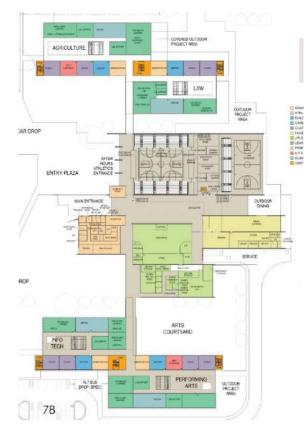
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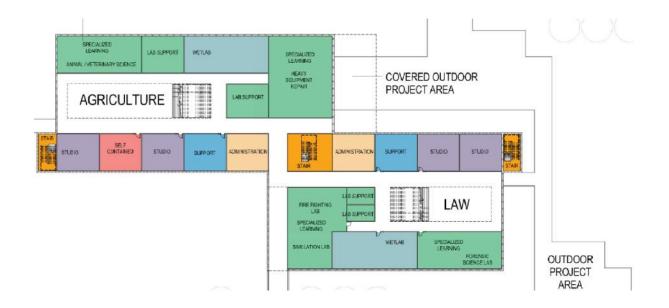
External/Natural Views vs. Internally focused



NORTH FOREST HIGH SCHOOL

Celebration of Specialized Programs



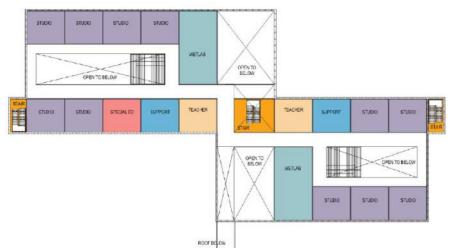




NORTH FOREST HIGH SCHOOL

Celebration of Specialized Programs



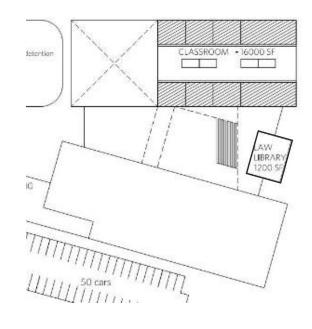


Second Floor

HIGH SCHOOL FOR LAW AND JUSTICE

Celebration of Specialized Programs

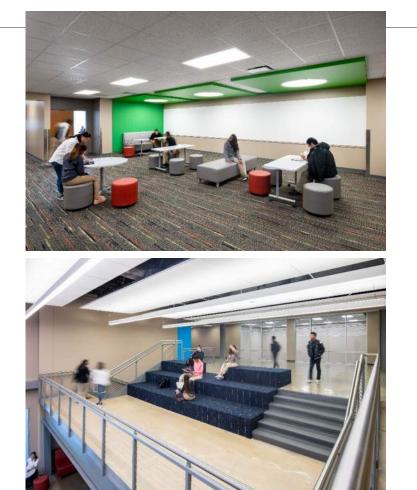




NORTH FOREST HIGH SCHOOL

Meaning of Color





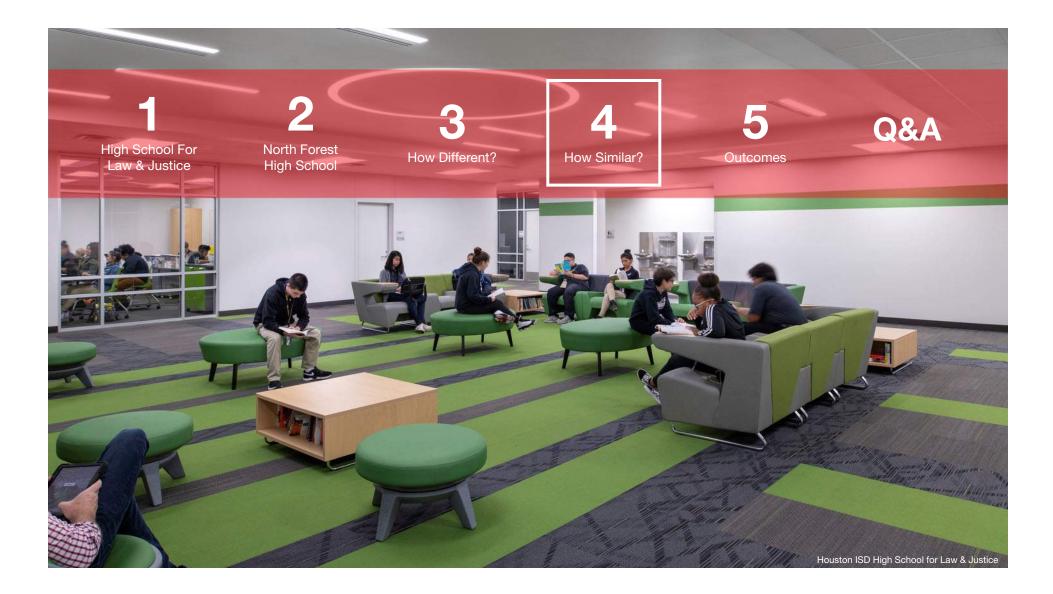
HIGH SCHOOL FOR LAW AND JUSTICE

Meaning of Color









Differences Become Similarities

A Different Beginning for Magnet Schools



Houston's First Magnet Program Started in 1971

Begins with the HS for Performing and Visual Arts



Facilitate Desegregation in Public School Nationwide

• 86% Hispanic and African-American, 57% At-Risk



Promote Learning Opportunities/Academic Excellence

• Equitable Access for Houston ISD Students to Numerous Programs



Innovative Student-Focused Learning Models

Many New Learning Modalities Started in Magnet/Alternative Settings

How are these two high schools similar?

Over 40 Houston ISD Magnet Programs:

Committed to Equity/Access to High Quality Education



College and Career Readiness



Fine Arts/Performing & Visual Arts



International Studies



International Baccalaureate



How are these two high schools similar?



Early College High School



Futures Academy



S.T.E.M. & S.T.E.A.M.



Vanguard

Standards for Success in the 21st Century

Applying Lessons Learned from Magnet Programs



Collaborative/Large Learning Spaces



Transparency Throughout Learning Areas

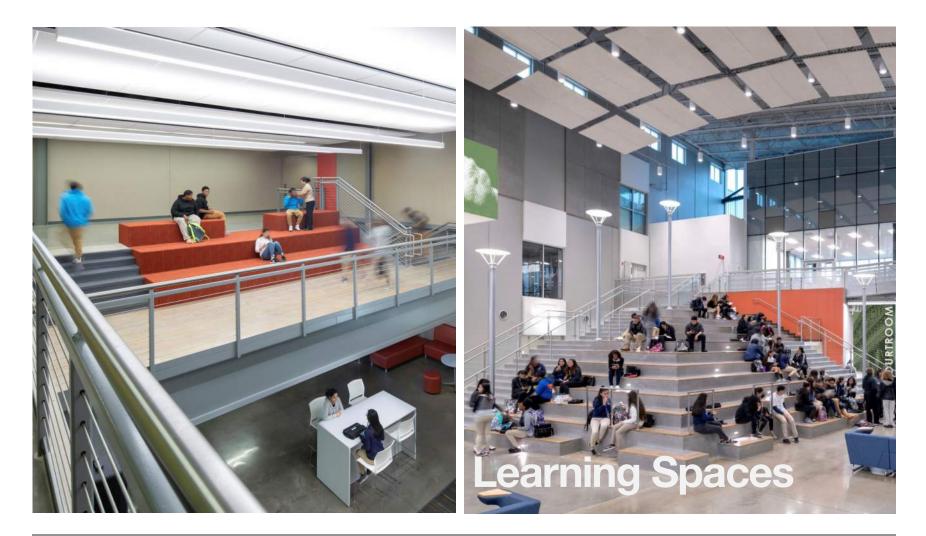


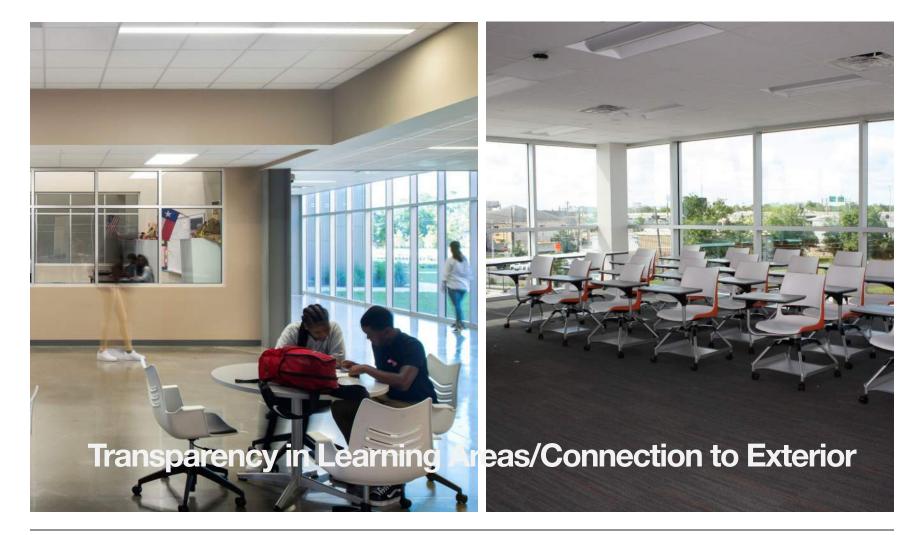
Small Learning Communities/Neighborhoods

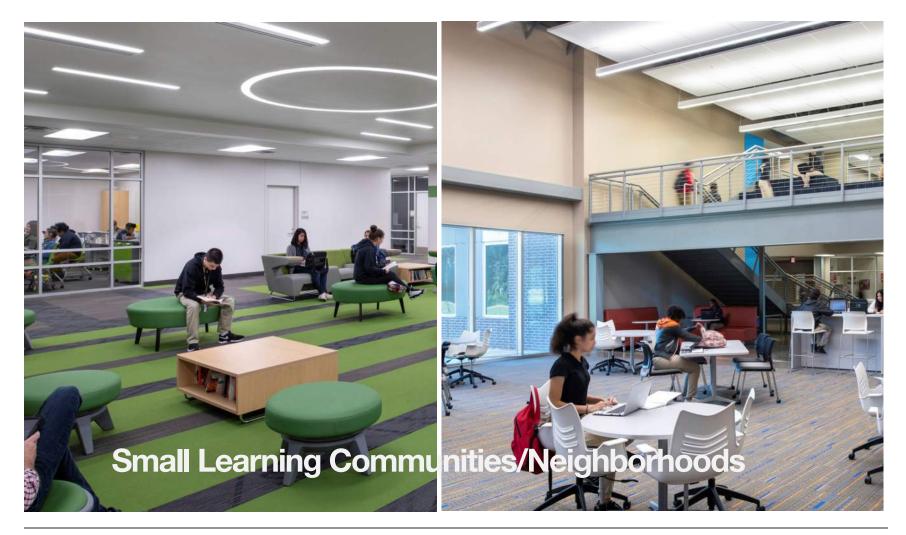


Flexible Mültipurpose Spaces

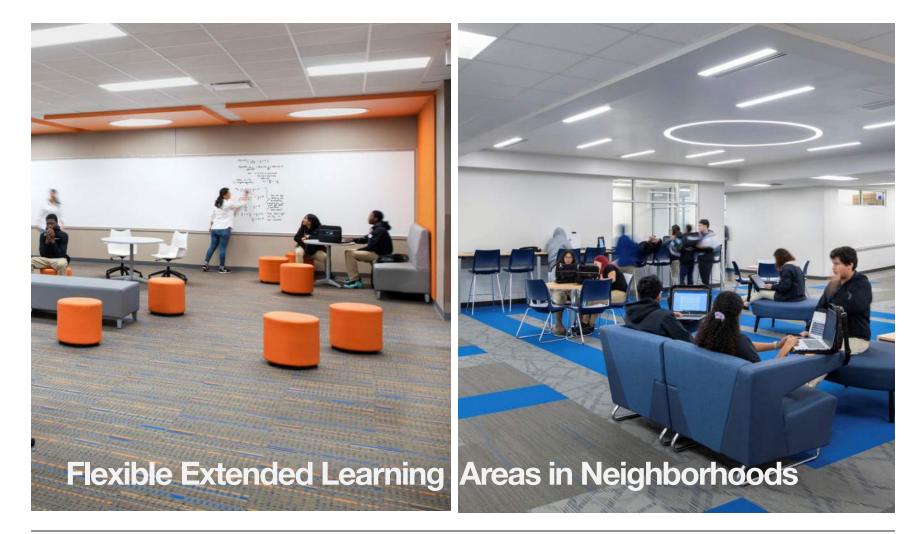
How are these two high schools similar?

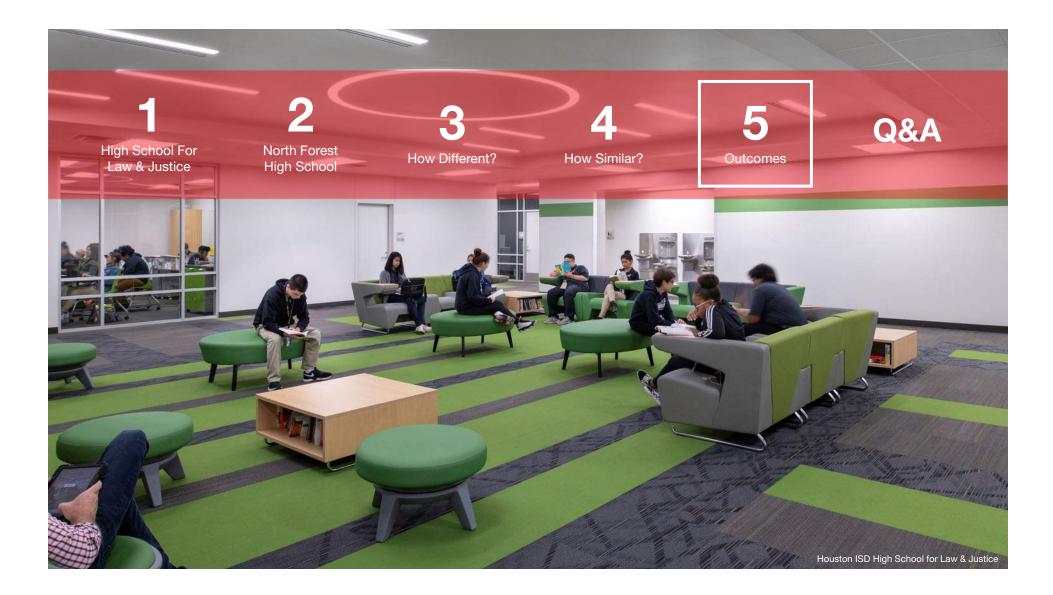












School building design features have a measurable impact



What have been the outcomes so far?

Flexible, Well-Designed Facilities Attract Students

 2018/2019 Student Enrollment Increased at HSLJ and North Forest HS

Decreasing Absenteeism Improves Student Learning

- Improved Indoor Air Quality Can Prevent 65% of Asthma Cases in Students
- Teacher Attendance Rate Increased to Over 96% in Monitored Group

School building design features have a measurable impact



What have been the outcomes so far?

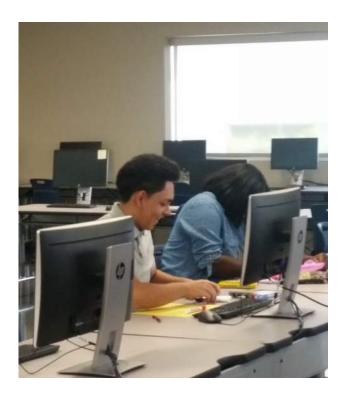
Use of Daylighting Reduces Off-Task Behavior

 Disciplinary Actions Trending Downward in Monitored Group (includes North Forest HS)

Increased Daylighting and Innovative Design Fosters Higher Achievement

- Percentage of Monitored Students Reading At or Above Benchmark Increases 2% to 3%
- Universal Screener Performance Level Trending
 Up in Math Results for Group
- Previous Bond Schools Saw 4% to 5% Increases in Standardized Math and Reading Tests

Multiple Pathways Converged for Success

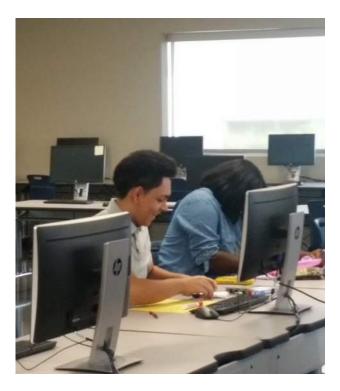


Implementation of Bold Information Technology Initiative

- Districtwide IT Infrastructure Upgrade
- Power Up One-to-One Laptop Program—Each High School Students Receives Laptop

What have been the outcomes so far?

Multiple Pathways Converged for Success



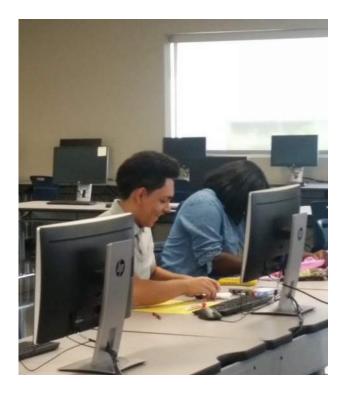
Implementation of Bold Information Technology Initiative

Professional Development of Teachers and Campus Leadership

- Training at Rice Univ., Univ. of Houston, and St. Thomas Univ.
- Student-Focused Curriculums
- Adoption and Development of Innovative Academic and Career and Technology Education Programs

What have been the outcomes so far?

Multiple Pathways Converged for Success



What have been the outcomes so far?

Implementation of Bold Information Technology Initiative

Professional Development of Teachers and Campus Leadership

Design of Innovative 21st Century Learning Environments

- Flexible, Student-Focused, Engaging Learning Spaces
- Sustainable Educational Environments
- Incorporation of Collaborative, 'Any Time Learning' Spaces Throughout

Operational Impacts



All Bond schools have similar MEP and furniture systems and now; enables more efficient training, maintenance, operations.

What have been the outcomes so far?

"It's more like...a college place....l love it." North Forest High School student

"What I love the most are our classroom spaces with large windows, more open areas, and seating for children to collaborate and think in a nice environment."







North Forest High School

Learning Today To Defend Tomorrow

The facility enables students to practice real-world techniques, including traffic control; handling domestic violence; court cases; crime scenes.



High School for Law & Justice

Authentic Learning

Light Rail

- Classes take the rail to the UH Law Library, to Texas Southern University, and the zoo.
- For the District, the rail costs 80 cents versus \$550 per student for bus transportation (from 14 buses at old campus to 8 buses now)



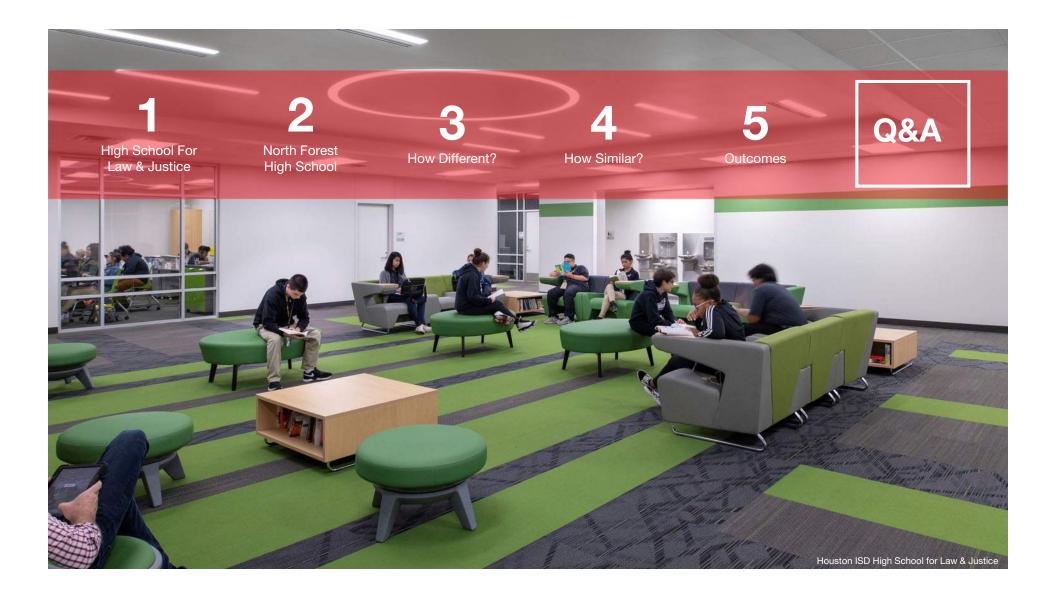
High School for Law & Justice

Authentic Learning



High School for Law & Justice

Classroom to Work



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