HOUSTON INDEPENDENT SCHOOL DISTRICT

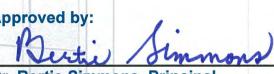
HISD **EDUCATIONAL SPECIFICATIONS**



FINAL

Approved by:

Dr. Bertie Simmons, Principal





FURR HIGH SCHOOL

MAY 19, 2014







CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING

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FURR HIGH SCHOOL

GUIDING PRINCIPLES

Guiding Principles articulate a school's vision, values, hopes and ideals to the design team. Guiding Principles will be used to "test" the decisions that are made throughout the design process, since every element of the building must be created to support the school's vision and values.

Furr High School's Guiding Principles:

- Our school must be a safe, clean and secure second home for students and their families that is open to the community with after-school programs, services and activities not limited to, but including:
 - A community center/community meeting place
 - Evening and weekend adult education
 - Shelter in storms
 - School day child care for student caretakers and student parents
 - HEPA filtered air and noise-reducing construction
- Our school must develop and care for the whole child with an on-site health clinic to include eye and hearing exams and drug and alcohol abuse referrals
- Our school can continue to provide rigor and equity in education by
 - Ensuring students are well prepared for any institution of higher education they wish to attend
 - Engaging and invigorating students in a relevant and progressive 21st century education
 - Providing multi-varied opportunities for students to express themselves in the arts and sciences including but not limited to radio, film and other media editing studios, broadcast journalism capability, high quality science labs, access to wireless and other technology throughout the building, performance areas including stages, band and orchestra halls and a large auditorium
- Our school must partner with community groups, organizations and businesses to share resources and ensure workplace relevance for 21st century creativity and innovation
- Our school will be a green school, in both philosophy and practice, with clean air and water, a greenhouse for student research and as a community garden



Executive Summary

Overview:

College and career readiness is a key priority for HISD and by working closely with college partners and area businesses the students are prepared for post-secondary success. They participate in rigorous core academic courses as well as specialized courses in career-focused areas that integrate learning and work world experiences. The 2012 bond program is grounded by the promise to provide 21st century learning environments for our students.

This Educational Specification evolved through a collaborative process with each school and its Project Advisory Team (PAT). It was developed by exploring program requirements of High Schools with consideration for extensive flexibility to address multiple approaches to the delivery of education with evolving pedagogies. Since new and renovated buildings are expected to serve multiple generations of learners, spaces must be planned to respond to changing program delivery strategies over time without "bricks and mortar" changes to the building. This educational specification has been prepared to provide spaces in a variety of sizes, interior zoning to enhance after-hours use, and a rich infrastructure to support current and emerging approaches to educational program delivery.

Educational Program Delivery:

There is an emerging body of research that links student performance with school facilities. One leading study makes the following points:

- Design components and features have a measurable influence on student learning. Deficiencies in thermal comfort, acoustics, and lighting are particularly significant.
- Overcrowding has a negative impact on learning.
- There is a strong positive relationship between overall building condition and student achievement.
- Substandard facilities have a negative impact on teacher effectiveness and performance and consequently impact student performance. (Earthman 2002)

One of the important concepts in education is the philosophy of differentiation. Differentiation calls for students to be taught in the way that is most likely to be effective considering their individual readiness and styles of learning. Standards are "what" is taught. Differentiation can be "how" standards are taught. Howard Gardner's theories of multiple intelligences have helped us understand the variety of ways in which we all learn. They are illustrated in the table on the following page.

Eight Ways of Learning:

Children who are highly:	Think	Love	Need
Linguistic	in words	reading, writing, telling stories, playing word games	books, tapes, writing tools, paper, diaries, dialogue, discussion, debate, stories
Logical- Mathematical	by reasoning	experimenting, questioning, figuring out logical puzzles, calculating	materials to experiment with, science materials, manipulatives, trips to the planetarium and science museum
Spatial	in images and pictures	designing, drawing, visualizing, doodling	art, LEGOs, video, movies, slides, imagination games, mazes, puzzles, illustrated books, trips to art museums
Bodily- Kinesthetic	through somatic sensations	dancing, running, jumping, building, touching, gesturing	role play, drama, movement, things to build, sports and physical games, tactile experiences, hands-on learning
Musical	via rhythms and melodies	singing, whistling, humming, tapping feet and hands, listening	sing-along time, trips to concerts, music playing at home and school, musical instruments
Interpersonal	by bouncing ideas off other people	leading, organizing, relating, manipulating, mediating, partying	friends, group games, social gatherings, community events, clubs, mentors/apprenticeships
Intrapersonal	in relation to their needs, feelings, and goals	setting goals, meditating, dreaming, planning, reflecting	secret places, time alone, self-paced projects, choices
Naturalist	through nature and natural forms	playing with pets, gardening, investigating nature, raising animals, caring for planet earth	access to nature, opportunities for interacting with animals, tools for investigating nature (e.g., magnifying glass, binoculars)

(Armstrong, Thomas. Multiple Intelligences in the Classroom, 2nd Edition. Chapter 3. Describing Intelligences in Students. 2000.)

What this tells us about the school building is that the facility must be planned to provide a variety of experiences to insure optimal learning opportunities for each student. Space and furnishings should be flexible to accommodate whole group instruction as well as individual and group space. Connections, where possible, to the outdoors are important for active learning and science projects.

Technology

Technology is an essential tool for learning in today's schools. Computers are used for instruction in the core subjects as well as word processing, data analysis, and



presentation development. Computers and projection devices are found in classrooms as well as labs. HISD has embarked upon a program that will lead to each student having their own laptop or tablet. All spaces in the facility must be designed to support this 1:1 initiative.

Flexibility

21st century schools should be organized to have the flexibility to embrace multiple program delivery systems. This may include: self-contained learning centers, team teaching, thematic instruction and/or departmental organization. The buildings must be flexible enough that from year to year the users of the building have the ability to alter the instructional methodology. Additionally, the learning environments must also be flexible enough that from period to period they can appeal to each learner.

Flexibility is addressed in this educational program through providing:

- Spaces in a variety of sizes that can be configured and re-configured in multiple layouts.
- Learning Centers with similar configurations and with as little fixed cabinetry as possible to allow for many configurations.
- Spaces such as the Learning Commons, Dining Commons, and Gymnasium that will be located to allow for after-hours access without disturbing the entire building.
- Finishes on the floors, walls, and, ceilings, that are easy to clean and allow for maximum personalization of the space.
- Furnishings that are flexible, durable, and easy to move, so the spaces can respond to a dynamic educational program.

Organization

At the High School level, spaces are increasingly organized in houses, schools-within-schools or small learning communities. Essentially these concepts are similar. They all include learning centers and teacher support areas located together with Special Education, Career and Technical Education (CTE) and Administration, creating personalized, smaller Neighborhoods within the larger facility.

Learning Centers

The focus for all disciplines with this Ed Spec is to create flexible and dynamic learning centers that support 21st century learning for whole group, small group, and individuals. Addressing the needs of all learners requires that learning be experiential and hands-on.

Each learning space should have as much moveable (rather than fixed) furniture and equipment as possible. Tables, chairs, moveable storage, and wireless technology, will support flexible configuration during the current school day and year and many different configurations as educational program delivery evolves over time.

Science Learning Centers/Wet Labs will have perimeter counters and sinks with tables that can be configured for individual activities, small group clusters, lab stations or moved back to the edges of the room for experimentation that requires free movement. Each Science Learning Center/Wet Lab will contain a sink for every 4 students and a demonstration table for teacher demonstration of experiments.



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A variety of spaces have been included to support non-core academic learning. Learning Centers for visual and performing arts, world language, CTE, and physical education will be configured to provide maximum flexibility through the use of moveable furnishing, fixtures, and equipment with acoustic control, plumbing, etc. to support the intended primary user.

Program Area Overview

Administration/Guidance

Immediately upon entry, visitors will be greeted in the administration "welcome area." Offices may include the Principal, support staff, guidance and health services. These spaces should be located in a centralized area at the main entrance of the school to provide a controlled access point during the school day.

The front entry lobby should be welcoming and inviting for students, staff, and visitors. However, to address security concerns, a security vestibule will be provided. In order to gain access to the facility, a visitor will pass through the vestibule directly into the main administrative reception area before being allowed into the school.

Neighborhoods

The basic organizational unit for this school will be the neighborhood, consisting of general-purpose learning centers, teachers' work center, small group rooms, extended teaching area, and science learning centers/wet labs. The neighborhood concept accommodates a variety of instructional strategies and student-grouping approaches. This concept also provides a learning environment that is characterized by flexibility, a sense of community for the students and teachers working and a safe/well-supervised environment. Teachers will have the option and flexibility within a cluster to create and organize learning environments that work for students and their learning styles.

The neighborhoods can be organized based on individual grade levels, multi-grade groupings, or departmental groupings. The learning communities should be located near the Media Center and away from noisy spaces such as the Gymnasium and Cafeteria. Special attention should be given to accessibility of all educational and support spaces and an integrated learning program.

Learning Commons

The Learning Commons serves a dual role. Its traditional role is a library and a place to conduct research. Its new role is to serve as a technology and information base center. In this new role, it houses a transparent voice/video/data network, that runs throughout the entire building. This area is changing from a "depository of books" to a "technology information center." It is not projected that the library functions will discontinue; rather digital technology will enhance voice, video, and data communications within the school, among district facilities, and with distance learning resources. To that end, a portion of the Learning Commons will be included in each Neighborhood as an Extended Learning Area for electronic research, project collaboration, etc.



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Visual Arts

The Visual Arts Learning Center will be configured to support both 2-dimensional activities and 3-dimensional creations. Space will be provided both within the classroom and in a connecting storage room for access to materials and storage of student work-in-progress. Configuration will provide as much display space as possible to showcase student work within the room and in display cases visible from the corridor. The connecting kiln room will provide an area to store work waiting to be fired as well as safe control and ventilation for the kiln.

Performing Arts

Design, flexibility, and acoustics should be especially considered when planning these spaces. The Instrumental Music/Vocal Music and Performance square footage will be grouped together. Storage areas, practice rooms, and teacher areas will connect with the larger space and be shared when feasible.

Physical Education

A variety of indoor and outdoor areas are required to support school physical education programs, Outdoor physical education teaching areas should be located near the indoor gymnasium. Physical education facilities should be designed and constructed with a focus on community use during non-school hours, since there is a high demand for both indoor and outdoor facilities. This will be accomplished by locating an entrance near the gym with lockable doors to control access to the rest of the building.

Food Services

The Dining Commons is planned as a flexible room that can accommodate student dining, meetings, and other events. The serving area will be designed as a food court. Movement among the various activities, i.e. hand washing queuing for serving, and exiting, will be planned for ease of movement.

Building Support - Corridors and Common Spaces

Extensive display areas should be provided for two-dimensional and three-dimensional student work and awards. Finishes should be durable and easy to maintain. The scale of all spaces must be student friendly. Colors, artificial lighting, and natural day-lighting should be artfully managed to create an environment that communicates that school is a very special place.

Technology

The facility should contain the latest in technology and be wired and wireless for voice, video and data throughout the building. The program design is intended to bring information to each student, and computer technology will be distributed in every classroom. HISD is in the early stages of an initiative which when completed will provide each learner with a laptop or tablet. It is intended therefore that access to technology will be seamless and pervasive throughout the building.

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Accessibility

The entire facility must be universally accessible. This should be accomplished through judicious use of ramping and elevators where necessary, sufficient internal clearances for circulation, convenient bus/van loading and unloading, and nearby handicapped parking spaces. All elements of the Americans with Disabilities Act must be complied with, including way-finding and signage, appropriate use of textures, etc.

Aesthetics

Constructing the indoor and outdoor structures and spaces where students go to school today must meet many challenges and expectations. Interior and exterior aesthetics should reflect the high academic aspirations of the school. It should have community visibility and presence.

Creating a community landmark will establish a recognizable identity that will instill pride in students and community and also express the value that the community has for its children. Areas within the school should be developed to have clear organization and internal identity.

The facility should be inviting to students, making them feel that the space is special, and therefore make it clear that each person is special. Aesthetics that affirm the value of the individual must be emphasized, with spaces for the admiration of the accomplishments of self and others. The school should support academic success, high self-esteem, social interaction, and physical safety. The facility layout should be especially easy to comprehend and reflect how spaces relate to one another. Easily supervised areas should be provided for positive socialization among students and with teachers.

Flexibility

Facilities should be constructed in a manner in which change and flexibility is the norm, not the exception. Building materials, systems, and furniture should be selected to support these concepts as well.

Indoor and Outdoor Learning Environments

By rethinking all spaces, better use of the facilities and site can occur. One way to accomplish this is to use windows and outside areas to make rooms "feel" larger as well as utilizing outdoor areas for teaching environments. All learning centers must have windows to the exterior.

Common and shared use areas should be considered to provide spaces for positive interaction and orientation within the school. All learning environments should be developed to foster a sense of belonging and pride. The use of the building system/design as an actual teaching model and example of technology and environmentally conscious design should be considered. Creativity and functionality should work hand in hand





CAPACITY MODEL & SPACE REQUIREMENTS



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING





Capacity Model

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	# Teaching Stations	Students per Teaching Station	Building Capacity	% Utilization	Program Capacity
Core Academic Learning Center (English, Math, Social Studies, World Language, ESOL, Health)	24	28	672	85%	571
Grad Lab A	1	30	30	85%	26
Science Learning Center/Wet Lab	7	28	196	85%	167
Special Education Learning Center	2	12	24	85%	20
Life Skills Room	1	12	12	85%	10
CTE: Robotics/Engineering	1	26	26	85%	22
CTE: Health Science	1	26	26	85%	22
CTE: Building Trades	1	26	26	85%	22
CTE: Business	1	26	26	85%	22
CTE: Film/Media	1	26	26	85%	22
CTE: Graphics Arts (Photoshop, CAD)	1	26	26	85%	22
JROTC - Army	2	28	56	85%	48
Performing Arts Learning Center (Dance/Theater)	1	28	28	85%	24
Visual Arts Learning Center	1	28	28	85%	24
Instrumental Music Learning Center	1	28	28	85%	24
Vocal Music Learning Center	1	28	28	85%	24
Gymnasium	2	32	64	85%	54
Auxiliary Gymnasium	1	32	32	85%	27
Total	50		1,354		1,151





Space Requirements Summary

	Teaching Stations	Total Square Feet
Core Academic Area	35	47,302
Career and Technical Education	6	13,094
Junior ROTC	2	3,797
Visual Arts	1	1,549
Performing Arts	3	15,459
Physical Education/Athletics	3	30,250
Welcome Center/Administration	0	9,058
Student Dining Commons/Food Service	0	9,655
Custodial/Maintenance	0	1,872
Total Net	50	132,036
Building Support (corridors, wall thickness, stairwells, mechanical rooms, electrical rooms, etc.)		50,768
Total Gross		182,804

Space Requirements

	Required Spaces				
Neighborhoods	Teaching Stations	Quantity	Average Square Feet	Net Area Provided	
Learning Center	24	24	867	20,796	
Science Learning Center/Wet Lab	7	7	1,585	11,093	
Wet Lab Storage		4	257	1,026	
Teaching Theater (Square Footage in Auditorium)		2	1,246	2,492	
Learning Commons/Information Center		varies	4,297	4,297	
Learning Commons/Information Center Storage		varies	1,458	1,458	
Special Education Learning Center	2	2	896	1,791	
Restroom/Changing		2	105	209	
Life Skills (w/ Kitchen/Restroom/Changing Room/Storage)	1	1	1,168	1,168	
Storage		1	160	160	
Office A (Special Education Department Chair)		1	180	180	
Small Group Room		4	106	423	
Grad Lab A (30 students)	1	1	859	859	
Storage		varies		500	
IT Repair/Storage		1	850	850	
Total	35			47,302	



		Required	Spaces	
Career and Technical Education (CTE)	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Robotics/Engineering Lab	1	1	1,833	1,833
Storage		1	196	196
Graphic Arts Lab	1	1	1,406	1,406
Studio/Support		1	394	394
Storage		1	198	198
Health Science Lab (Science Lab)	1	1	1,216	1,216
Demonstration Room		1	398	398
Storage/Prep		1	196	196
Building Trades Lab	1	1	2,325	2,325
Finishing Room		1	299	299
Lumber Storage		1	309	309
Storage		2	187	374
Business Information Systems Lab	1	1	877	877
Film/Media Studio (Locate Near Performance Area) (Includes Office space)	1	1	1,803	1,803
Studio Control Room		1	197	197
Editing Room		1	380	380
Equipment Storage		1	209	209
Prop/Set Storage		1	297	297
Film/Media Storage		1	187	187
Office A (Square footage allocated from Film/Media Studio)		3		
Total	6			13,094

	Required Spaces				
JROTC - Army	Teaching Stations	Quantity	Average Square Feet	Net Area Provided	
JROTC - Army					
Learning Center -Large	1	1	1,269	1,269	
Learning Center - Small	1	1	925	925	
Arms Storage		1	77	77	
Chair, table, target, storage		1	410	410	
Uniform, drill team, color guard storage		1	342	342	
Instructors Center		1	153	153	
Small Group collaboration area		1	621	621	
Total	2			3,797	



	Required Spaces				
Visual Arts	Teaching Stations	Quantity	Average Square Feet	Net Area Provided	
Visual Arts Learning Center	1	1	1,228	1,228	
Kiln Room		1	124	124	
Storage Room		1	197	197	
Total	1			1,549	

		Required	l Spaces	
Performing Arts	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Instrumental Music Learning Center	1	1	2,000	1,999
Instrument Storage		1	400	393
Uniform/General Storage		1	400	393
Practice Room		2	80	160
Music Storage/Library		1	150	150
Vocal Music Learning Center	1	1	1,400	1,415
Uniform/General Storage		1	200	200
Practice Room		2	80	160
Music Storage/Library		1	100	85
Auditorium (seating for 500)		1	5,000	4,303
Stage		1	2,000	2,077
Control Room		1	120	78
Prop Storage		1	250	234
Costume Storage		1	350	347
Dressing Room		2	400	827
Performing Arts Learning Center (Dance/Theater)	1	1	1,800	1,803
Storage		1	200	182
Shared Workroom		1	250	247
Shared Ensemble Room		1	350	406
Т	otal 3			15,459



	Required Spaces			
Physical Education/Athletics	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
PE/Athletics Lobby		1	766	766
Gymnasium (seating for 900 people)	2	1	10,880	10,880
Auxiliary Gymnasium (seating for 225 people)	1	1	7,588	7,588
Weight Room		1	1,000	1,000
Multipurpose Fitness Room		1	1,400	1,400
Concessions/Tickets (try to share with Auditorium)		1	297	297
Boys' Athletic Locker Room		1	1,071	1,071
Girls' Athletic Locker Room		1	774	774
Boys'/Girls' PE Locker Room		2	1,126	2,252
Toilets/Showers		4	247	986
Adult Toilet/Shower/Locker		2	102	204
Athletic Director (Office B)		1	261	261
Office C (shared)		2	307	614
Training Room		1	422	422
Laundry		1	108	108
PE Equipment Storage		1	538	538
Athletic Equipment Storage		2	545	1,089
Total	3			30,250





	Required Spaces			
Administration/Guidance	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Administration				
Reception, Administration, 2 work stations		1	386	386
Office A, Principal's Secretary		1	121	121
Office C (Principal)		1	282	282
Principal's Restroom		1	87	87
Office B (AP) (Dean of Inst., 2 AP s)		3	99	297
AP Reception/Waiting		2	99	198
Conference Room, Main		1	299	299
Conference Room, Small		2	212	423
Storage		1	198	198
Health Clinic		1	203	203
Reception/Waiting		1	135	135
Office A		1	299	299
Restroom		1	60	60
Guidance/Student Services				
Reception, Guidance		1	132	132
Office B (2 Counselors, (Police Officers shared))		3	120	360
Office A (Clerk, Account/Budget, Guidance Clerk, Registrar)		5	105	524
Conference Room, Small		1	155	155
Records/File Room		1	196	196
Administration/Guidance Workroom/Break Room		2	219	438
Shared				
Central Copy Room and Paper Storage		1	306	306
Professional Development/Data Center		1	315	315
Teacher Work Center (Work Stations, Conference Room, Break Area)		2	1,495	2,990
Office B (Itinerant)		3	101	302
Multi-use/Community Room (locate for use after hours)		1	352	352
Total	0			9,058



Required Spaces		d Spaces		
Food Service	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Kitchen Preparation Area		1	1,474	1,474
Serving Area		1	1,665	1,665
Dry Storage		1	328	328
Freezer		1	240	240
Cooler		1	240	240
Kitchen Manager's Office		1	104	104
Laundry/Custodial Area		1	75	75
Locker Room/Restroom		1	119	119
Student Dining Commons (seating for 1/3 of students at one time plus 200 for dining)		1	5,132	5,132
Dining Commons Storage		1	278	278
Total	0			9,655

	Required Spaces			
Custodial/Maintenance	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Receiving Entry		2	300	600
Office, Plant Engineer		1	83	83
Custodial/Maintenance Storage		1	225	225
Supply Storage		1	300	300
IT Support (locate centrally)		1	159	159
Custodial Closet		4	126	505
Total	0			1,872





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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL



SITE



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Site

Overview

Attractive, functional buildings placed on adequate grounds in an appropriately landscaped environment help to create in students an appreciation for schools and in adults an added civic interest and respect for the dignity of education. Site planning is based on a thorough analysis of the site, determination of human needs, determination of requirements for other uses, sustainability and provision for transportation, communications and utilities. Site planning is the first opportunity for incorporating the four principles of Crime Prevention Through Environmental Design (CPTED):

- Natural Surveillance
- Natural Access Control
- Territorial Reinforcement
- Maintenance

In many communities, school facilities are frequently used for purposes other than those directly related to the learning activities of students; such as adult education, public assembly, recreation, election polling places, meetings that require food services, etc. There is a trend toward increasing this multi-use function of school facilities. Some schools are now being built as a part of a larger complex of community service facilities: recreation grounds and parks, health and social services centers, libraries and cultural centers.

On-site school traffic includes: buses, commercial vans, cars and bicycles transporting students, parents, staff and visitors to and from school, car and bus parking, service and delivery vehicles, and pedestrians entering, exiting and accessing site facilities. This traffic must be managed safely and efficiently so that it supports the school's mission and traffic management does not become a burden to the staff.

Outdoor recreational facilities will accommodate the physical education program, field exercises in academic programs such as science and art, unstructured play and social events such as picnics and carnivals. Group sizes will range from school wide events such as field days, to whole class grouping, small groups and individuals.

To manage transitional capacity the school system has elected to utilize temporary classroom units (T-Buildings). In planning new school construction and in site planning on existing campuses, space should be identified to site six of these units and accommodations made for their future utility hookups.

FURR HIGH SCHOOL

Design Considerations

- The outdoor playing fields shall accommodate the physical education program, athletics, and outdoor learning activities.
- As sites are identified, the opportunity for cooperative efforts such as buying adjacent land and master planning together with community groups should be explored.
- In developing a Campus Master Plan, consideration should be given to:
 - Future enhancements such as amphitheaters, picnic tables, nature trails, gardens for vegetables, wildflowers, and butterflies; wildlife habitats, sundials, etc.
 - Fire lane with access to all areas of the campus with special attention paid to allowing trucks to access the cafeteria, bus and parent drop off areas as these are the usual locations of fires. However, fire truck access to buildings must not be compromised during drop-off and pick-up times. Therefore, provide a 20' access way at critical points so the parents' vehicle queue will not interfere with emergency access to the building.
 - Security of life and property when designing the exterior lighting system.
 Consider placement of utility stub outs for lights which may be installed by community user groups.
 - Ways in which the community may use and upgrade the facilities. For schools these improvements may include stub outs for athletic field lighting (include baseball and softball fields). For schools/parks these improvements may include public restrooms/concession area/storage, spectator control access/storage, score boards & warm-up areas.
- Consider context and surrounding community circulation when planning site.
- Vehicular and pedestrian traffic should be separated.
- Site Master Plan should include covered walkways to bus and/or car loading/unloading areas.
- Coordinate traffic pattern so that students will not have to cross driveways or parking areas in route to outdoor play fields.
- Separate vehicular traffic as much as site and local governing bodies will allow.
- Allow for separate entrances/exits for bus traffic, car queuing and car parking. If separate roadway accesses are not possible separate traffic as soon as feasible on-site.
- The daily school schedule for arrival and dismissal, and occasional events, including large group assemblies and special events should be considered in the design of traffic patterns.
- Make all outdoor facilities ADA accessible.
- Allow for sufficient buffer space for safety when siting outdoor playing fields.
 Preservation of the natural environment and outdoor spaces for science and arts is desirable.
- Consider making provisions for shade and potential assembly areas.
- Design to allow for future upgrades, if possible.
- Consider safety and social zones of activity.
- Parking lots should be distant from foul ball territory.
- Screen noise producing areas from instructional areas.



- Campus Master Plan should indicate fire lane with access to all areas of the campus. This shall not be a paved road. It is critical that the school building not be encircled by vehicle circulation.
- Determine which development standards will be required, as these may have different requirements.
- In planning fields include fencing such as backstops, outfield, dugouts, temporary fencing with the thought of providing multiple use of athletic fields.
- See Design Guidelines concerning irrigation.
- Follow standards published by National Federation of State High School Associates for guide to proper athletic field orientation, sizes and markings: National Federation of State High School Associations

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FURR HIGH SCHOOL

Site

Future T-Buildings Area

USERS:	ACTIVITIES:
 Students 	None
 Faculty/staff 	

DESIGN CONSIDERATIONS:

- Generally square area to accommodate six (6) temporary buildings
- When identifying the location, consider proximity of group toilets and other core facilities such as Learning Commons/Information Center, Food Service, etc.
- When identifying the location, consider access to the area for transporting the buildings to and from the site.
- Students moving to and from permanent buildings should not cross vehicular traffic.
- Do not use areas programmed for other uses for temporary buildings.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Provide underground conduit and stub ups from the nearest power panel in the main building for future electrical connections. This panel should be provided with the required extra capacity.
- Provide underground conduit and stub ups for future data connections.

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

• None

Site

Service Court/Access Drive/Dumpster

USERS:	ACTIVITIES:		
Maintenance Staff	School deliveries		
 Custodial Staff 	Waste disposal bins (dumpsters)		
 Food Service Staff 	 Meeting with parents, students and other visitors 		
	Placing phone calls		
DESIGN CONSIDERATIONS:			
 Locate in close proximity to 	Receiving Entry and Food Service		
Area should be sited or shield	elded so that a visual screen is created		
	Consider turning radii and path of delivery vehicles		
Provide drains at waste disposal bins			
Provide bollards to protect building			
FURNITURE, FIXTURES & EQ			
Contractor Furnished – Contr	ractor Installed		
 Screening 			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Ins	stalled		
3 Waste Bins (dumpsters)			
 1 Recycling Bin (dumpster 			

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FURR HIGH SCHOOL

Site

Bus Loop/Parking/Staging

bus Loop/Parking/Stagi	ng
USERS:	ACTIVITIES:
Staff	Entry, exit and staging of buses
Teachers	 Overnight parking for buses/daytime parking for driver's
Students	personal vehicles
Parents	
DESIGN CONSIDERATIONS:	
clear floor area adjacent to t vehicle direction of travel.	e shall provide a minimum of 60 inches wide by 240 inches long the vehicle pull-up space with the long dimension parallel to the
 Locate in close proximity to 	the main entrance, preferably near large assembly area within

- Locate in close proximity to the main entrance, preferably near large assembly area within the school building and as a second priority, outdoor recreation
- Provide a convenient, covered, accessible loading area for buses that is closer to the school than the car loading area (with the exception of special needs children).
- Consider the turning radii of buses so that buses can discharge and pickup students without having to cross roadways or back up.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

None

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None



FURR HIGH SCHOOL

Site

Car Parking

USERS:	ACTIVITIES:
ParentsStudents (High School)Community membersFaculty/Staff	 Parking for School Faculty and Staff plus 10% Parking for Guests – provide spaces equal to 1% of the student capacity or 10 spaces whichever is greater.

DESIGN CONSIDERATIONS:

- Separate car parking from bus traffic and car drop-off/pickup
- Car drop-off/pickup should not interfere with traffic flow to car parking
- Locate staff/visitor parking at the front of the building to promote and identify the front entrance as well as for visual surveillance from Administration.
- Provide convenient preferred parking spaces for low emission vehicles and those with special needs however, all other parking spaces should be located far enough away from the school that it is clear that priority is given to walkers, bikers, playgrounds and open space
- Locate 15 of the staff spaces near the Service Court for use by the Maintenance, Custodial and Food Service Staff
- Provide min 100'x100' space with stripping for use by JROTC for drill practice
- Provide Football field stripping for use by band for marching practice

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Consecutively numbered spaces
- "Visitor" spaces
- 6 "Reserved" spaces

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None



FURR HIGH SCHOOL

Site

None

Car Staging/Access

Car Staging/Access		
USERS:	ACTIVITIES:	
Parents/Students	Safely discharge and pick-up students from private vehicles	
DESIGN CONSIDERATIONS:		
Accommodate cars		
	the shall provide a minimum of 60 inches wide by 240 inches long the vehicle pull-up space with the long dimension parallel to the	
 Locate near the main entrance but so as not to interfere with bus loading. 		
FURNITURE, FIXTURES & EQ	UIPMENT:	
Contractor Furnished - Contr	ractor Installed	
None		
Owner Furnished – Contracto	or Installed	
None		
Owner Furnished - Owner Ins	stalled	



Pedestrian Circulation

USERS:	ACTIVITIES:	
Staff/Faculty	Safe and secure passage from parking/access areas to the	
 Parents 	school's indoor facilities (including T-Buildings if any) and to	
Students	the outdoor facilities including all athletic facilities	
Community		
DESIGN CONSIDERATIONS:		
 Provide permanent walkway where required for ADA cor 	ys where anticipated foot traffic would destroy vegetation or npliant access	
Provide minimum 10'-0" wide walkways to and at Bus Staging		
Provide minimum 6'-0" wide walkways to and at Car Staging		
FURNITURE, FIXTURES & EQ		
Contractor Furnished – Contr	ractor Installed	
None		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Ins	stalled	
None		



Site

Football/Soccer/Track

USERS:	ACTIVITIES:
FacultyPE StudentsAthletic TeamsCommunity	Competing (Athletics)Practicing (Athletics)Physical Education classes

DESIGN CONSIDERATIONS:

- Provide a 225' x 360' layout for soccer and a 160'x360' layout for football all within a 400 meter, 8 lane track. As closely as possible, align the football/soccer field along a NW/SE axis. Additionally, provide for separate high jump, long jump, triple jump, pole vault, shot put and discus. Locate so that landing areas for shot put and discus are not on the football/soccer field.
- Provide space for future bleachers, concession/ticket stand, and scoreboard.
- Provide 4'-0" high perimeter fencing around the track.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Permanently installed apparatus/infrastructure:
 - Banked track with two straight runs and two semicircular ends. The length of the straight sections and the curves shall be equal. A curb at grade shall mark the inner limits of the track. The curb shall be cut at regular intervals to allow for drainage. Track shall be rubberized with markings for:
 - a. 100 meter, straight start
 - b. 200 meter, straight start
 - c. 400 meter, curved start
 - d. 800 meter, curved start
 - e. 1600 meter, curved start
 - f. 3200 meter, waterfall start
 - g. 4 x 100 meter relay, staggered start plus exchange zone
 - h. 4 x 200 meter relay, stagger start plus exchange zone
 - i. 3200 meter relay, waterfall start plus exchange zone
 - j. 100 meter hurdles, straight start
 - k. 110 meter hurdles, straight start on apron
 - I. 300 meter intermediate hurdles, one curve staggered start
 - Rubberized runway, planting box, and landing pad space for pole vault
 - Rubberized runway and sandpit for long jump
 - Rubberized runway and sand pit for triple jump
 - Rubberized apron for high jump
 - Concrete throwing circle and cage for discus
 - Concrete putting circle for shot put.
 - Turtlebacked field with gooseneck goal posts for football
- Electrical stub outs from main facility for scoreboards and field lighting
- Underground drainage system with catch basins located outside of activity areas for safety of players.
- Irrigation system

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed

- Pole vault landing pad
- Soccer goals



FURR HIGH SCHOOL

Site

Baseball

USERS:	ACTIVITIES:
Faculty	Competing (Athletics)
Athletic Teams	Practicing (Athletics)
Community	

DESIGN CONSIDERATIONS:

- Provide 6'-0" high perimeter fencing and 12'-0" high backstop fencing with 6'-0" foul ball screen set at 45 degrees on top
- Provide fencing for the "dugout"
- Include in planning future bleachers, adjacency to football/track concession stand, ticket booth, restrooms

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Permanently installed apparatus/infrastructure
- Electrical stub outs from main facility for scoreboards
- Irrigation system for outfield, quick connects for infield

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None

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FURR HIGH SCHOOL

Site

Softball

USERS:	ACTIVITIES:
Students (PE)FacultyAthletic TeamsCommunity	 Learning the fundamentals of softball (PE) Competing Practicing

DESIGN CONSIDERATIONS:

- Locate for ease of access for PE classes
- Provide playing field for fast-pitched play
- Provide 6'-0" high perimeter fencing and 12'-0" high backstop fencing with 6'-0" foul ball screen set at 45 degrees on top
- · Provide fencing for the "dugout"
- Include in site plan space for future bleachers adjacent to football/track concession stand, ticket booth, restrooms

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Permanently installed apparatus/infrastructure
- · Electrical stub outs from main facility for scoreboard
- Irrigation system for outfield

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None



None

Playing/Practice Fields

USERS:	ACTIVITIES:	
Students (PE)	PE Classes	
Faculty	Athletic practices	
Athletic Teams	•	
Community		
DESIGN CONSIDERATIONS:		
Provide fields		
Each field to be approximately 160' x 360'		
Fields should be relatively level but sloped to drain without need of underground drainage		
Locate for ease of access for PE classes		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Irrigation system for outfield		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		



FURR HIGH SCHOOL

Site

Basketball

USERS:	ACTIVITIES:	
Students (PE)	Learning the fundamentals of basketball	
 Faculty 	Practicing	
Athletic Teams	Exercising	
Community		
DESIGN CONSIDERATIONS:		
Provide 1 full basketball court on concrete surface with marking and 4 permanent goals		
Locate for ease of access for PE classes		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Basketball court, markings and goal		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
• None		





Site

General

USERS:	ACTIVITIES:
ParentsStudentsCommunity membersFaculty/staff	Access to school and its facilities
PEOLON CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

- All exterior signage, fencing, and railings should be included in design documents
- Site lighting
- Flagpole should be located near the main entrance with a paved walkway to it
- Bike racks should be located to promote their use
- Fixed landscape equipment (i.e. trash cans, seating benches etc.) should be included in design documents

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Marguee sign, directional and traffic Signage, fencing and railings
- Site lighting
- Flagpole
- Bike Racks
- Landscaping
- Irrigation system at front entrance

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

Flags





NEIGHBORHOODS



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



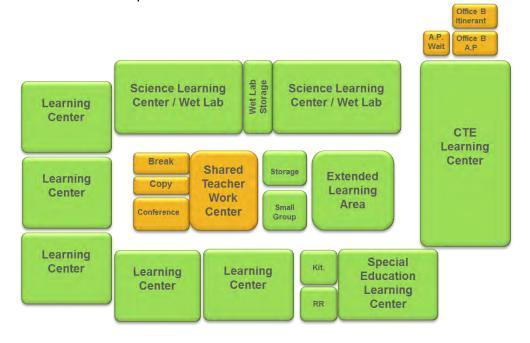
Neighborhoods

Overview:

Core academic requirements for all children are mandated by state and federal law. HISD's promise is to provide 21st Century learning environments, accordingly, the facilities shall:

- Meet the state and federal requirements
- Be safe and conducive to learning
- Create life-long learners
- Create an environment conducive to teacher retention
- · Provide for flexibility of course offerings within core academic subject areas
- Accommodate interdisciplinary learning
- Accommodate multiple intelligences and varied learning styles
- Provide effective space for collaboration and increased communication
- Provide easy access to teaching resources for anytime, anywhere learning

Each neighborhood will include collaborative spaces for students and faculty, Core Academic Learning Centers, Science (or other flex) Lab space, and a CTE Learning Center. The neighborhoods will be arranged adjacent to common learning areas as well as Assistant Principal's offices.



Legend Physical connection Visual connection Physical and/or acoustic separation

The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

		Required Spaces			
Neighborhoods	Teaching Stations	Quantity	Average Square Feet	Net Area Provided	
Learning Center	24	24	867	20,796	
Science Learning Center/Wet Lab	7	7	1,585	11,093	
Wet Lab Storage		4	257	1,026	
Teaching Theater (Square Footage in Auditorium)		2	1,246	2,492	
Learning Commons/Information Center		varies	4,297	4,297	
Learning Commons/Information Center Storage		varies	1,458	1,458	
Special Education Learning Center	2	2	896	1,791	
Restroom/Changing		2	105	209	
Life Skills (w/ Kitchen/Restroom/Changing Room/Storage)	1	1	1,168	1,168	
Storage		1	160	160	
Office A (Special Education Department Chair)		1	180	180	
Small Group Room		4	106	423	
Grad Lab A (30 students)	1	1	859	859	
Storage		varies		500	
IT Repair/Storage		1	850	850	
Total	35			47,302	



FURR HIGH SCHOOL

Neighborhoods

Learning Center

USERS:	ACTIVITIES:
Teachers 24 - 32 Students	Mastering the core curriculum Mastering 21st Century learning skills Project-based learning Technology - based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations
	Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

• Operable partitions are permitted in this area.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

- **Presentation Cart**
- Teacher stool
- Student Area:
 - 30 Student tables
 - 30 Student chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Clock
- Projector



FURR HIGH SCHOOL

Neighborhoods

Science Learning Center/Wet Lab

USERS:	ACTIVITIES:
 Teacher Staff/Faculty 28 Students 	 Lecture, labs, computer work Technology-based instruction Chemical, physical and biological experimentation Collaborative relationship building Working individually, in small groups, and in large groups Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations

DESIGN CONSIDERATIONS:

- Emergency utility shut-off
- Power and Data in apron of casework
- One station in each lab to be handicapped accessible

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- · Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board
- Casework Side wall:
 - Sink cabinets and drawer/door cabinets (one sink per 4 students)
 - Drying racks above sinks
 - Door/shelf cabinets above sinks
- Safety station(s) (number determined by code) including eyewash, body drench shower
- Goggle cabinet with UV light for disinfecting
- Fume hood in all of Learning Centers/Wet Labs at wall connecting with Prep Room
- Fixed science demonstration table with gas and water

Owner Furnished - Contractor Installed

- Paper towel dispensers
- Soap dispensers

- 14 2-person tables with chemical resistant epoxy tops
- 29 adjustable height stools
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Clock
- Large Periodic Table Chart and other large wall charts (provide clear wall space and tack boards to hang additional material)
- Projector



Neighborhoods

Wet Lab Storage

USERS:	ACTIVITIES:	
TeacherStaff/FacultyStudents	Teacher preparation and clean-up for lab exercises	

DESIGN CONSIDERATIONS:

• If more than one fume hood, locate to minimize the visual connection from one classroom to another.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Refrigerator/freezer with small ice maker, not self-defrosting so that temperature will be constant
- Casework on one wall with chemical resistant countertop, drawer/door base cabinets, and open shelf wall cabinets
- Drying rack mounted above sink
- Fire rated chemical storage cabinet
- Residential dishwasher with permanently attached sign stating: Thoroughly rinse all acid containing items before placing in dishwasher

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 2 tall work stools
- Maximum linear feet of 12"D, adjustable height wooden shelving with rim guards on wall facing casework
- 36"W x 84"H lockable storage cabinet



FURR HIGH SCHOOL

Neighborhoods

Flex Lab

USERS:	ACTIVITIES:
Teachers24-32 Students	 Mastering the core curriculum Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations Working individually, in small groups and in large groups
DECICAL CONCIDED AT	TONO.

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Stool
- Student Area:
 - 30 Student tables
 - 30 Student chairs
- 3 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Clock
- Phone
- Projector

PECIFICATIONS FURR HIGH SCHOOL

Neighborhoods

Learning Commons/Information Center

USERS:	ACTIVITIES:		
Students	Learning hub to provide effective using of information and		
Faculty	ideas for students and faculty		
Staff	Circulation of materials and resources in the format of print,		
Community members and	digital and multi-media etc.		
parents for after school	Reading		
events	Research		
	Technology based instruction for large group and small		
	group		
	Provide meeting areas		
	Processing new media		
DESIGN CONSIDERATIONS:	<u> </u>		

DESIGN CONSIDERATIONS

• Some of this square footage will be used in a centralized location for print materials. Some will be used to create extended learning areas (ELA's) for wireless research.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Adjustable shelving for books. Locate tall shelving on room perimeter. Shelf units to be no
 wider than 36". Provide both 60-70"H (on perimeter only) and 42"H units. Perimeter units
 shall be detailed and coordinated with electrical to provide for outlets in the toe space. 42"H
 units should be double sided and on large casters.
- 8 Tables
- 6 computer tables
- Printer table
- 38 chairs
- Display cases with glass shelving for student artwork and other displays. If possible provide at corners where bookcases may meet to avoid wasted space
- Circulation desk (modular, not fixed):
 - · 2 task chairs
 - Drawer/door base cabinets & low shelving behind circulation desk with work space for processing
 - Work station for computer terminals and printer. Provide grommets for wire managements
 - Multi-level check in/out counter
 - Book drop-off with depressible book truck
- Network capabilities for access to programs and on-line card catalog

Owner Furnished - Contractor Installed

None

- Soft seating: chairs and tables for 10
- Clock

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FURR HIGH SCHOOL

Neighborhoods

Learning Commons/Information Center – Extended Learning Center

	USERS:	ACTIVITIES:
	 Students 	Reading
	 Faculty 	Research
	 Staff 	Technology based instruction for large group and small
	 Community members 	group
	and parents for after	Provide meeting areas
	school events	
DESIGN CONSIDERATIONS:		
	Some of the square footage for these spaces will be from the Learning.	

 Some of the square footage for these spaces will be from the Learning Commons/Information Center.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Continuous marker surface on one wall
- Blinds for windows

Owner Furnished - Contractor Installed

None

- Tables
- Chairs
- · Soft seating
- Clock



Neighborhoods

Learning Commons/Information Center - Office/Storage

9	
USERS:	ACTIVITIES:
Media SpecialistFacultyStaff	Paper workProcessing materialsLaminating

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Casework:
 - Maximum LF of cabinets on 2 walls, including sink cabinet, drawer/door cabinets and wall-mounted door/shelf cabinets
 - Center island with large, shallow drawers for posters, drawer/door cabinets, and open shelving
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 2 Double pedestal desk with center drawer & lock, 60" x 30"
- 2 task chairs, swivel, tilt, armless
- 2 tall stools
- 3 4-shelf bookcases, 60"h x 36"w x 12"d
- 2 4-drawer vertical files, letter size, lockable
- Teacher wardrobe cabinet: coat hook, shelving, 2 drawers, lockable
- 2 mobile book trucks



FURR HIGH SCHOOL

Neighborhoods

Special Education Learning Center

USERS:	ACTIVITIES:
 4-10 students Teacher Teacher Aide(s) Itinerant Staff (Psychologist, Social Worker, Therapist, etc.) 	 Project-based learning Physical therapy (PT) Occupational therapy (OT) Social skills activities (appropriate social interaction skills, listening skills, etc.) Life skills activities (tooth brushing, personal care, career preparation, etc.)

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Teacher package
- Student Area
 - 7 open front 18"x24" student desks
 - 18 student chairs
 - 1 rectangular table, 30"x60"
 - 3 computer tables, 30"x48"
 - 1 half-moon table, 36"x72"
- 2 18" seat height, 4 leg chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Clock
- Projector





Special Education - Restroom/Changing Room

•	
USERS:	ACTIVITIES:
StudentsTeacherTeacher Aide(s)Staff	 Personal hygiene Diapering Catheterization Life skills activities (tooth brushing, personal care, career preparation, etc.)
DESIGN CONSIDERATIONS:	

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Wall mounted storage cabinet for changing supplies near changing table
- Ceiling tracks for Student Lifts
- Mirror above sink in restroom

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser
- Toilet paper dispenser

- Adjustable height changing table
- Mobile student lift



Maximum linear feet of 18"D, adjustable shelving in storage

FURR HIGH SCHOOL

Neighborhoods Special Education - Kitchen/Storage

Special Education – Kitchen/Storage		
USERS:	ACTIVITIES:	
Teacher	Breakfast and lunch preparation	
 Teacher Aide(s) 	Staging meals before serving	
	Cleaning equipment	
DESIGN CONSIDERATIONS		
None		
FURNITURE, FIXTURES & E	QUIPMENT:	
Contractor Furnished - Con	tractor Installed	
Refrigerator with ice maker		
Casework-handicapped accessible		
Sink cabinet		
Drawer/door base cabinets		
Door/shelf wall cabinets		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Owner Furnished – Owner Installed		

Neighborhoods

Office A (Special Education Department Chair)

USERS:	ACTIVITIES:
Security Officer	Administrative tasks
Staff/Faculty	 Preparing correspondence and reports
 Students 	 Creating and documenting safety and security matters
 Parents 	 Meeting with parents, students and other visitors
DESIGN CONSIDERATIONS	g:

Locate near main entrance with full access and visibility to Lobby

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable





FURR HIGH SCHOOL

Neighborhoods

Small Group Room

6 chairs

USERS:	ACTIVITIES:		
TeachersStudents	 Group meetings and work Individual study Testing		
DESIGN CONSIDERATIONS	· · ·		
None			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished - Cor	Contractor Furnished – Contractor Installed		
4'x8' marker board			
4'x8' tack board			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
6 person table	6 person table		

Neighborhoods

Storage

USERS:	ACTIVITIES:	
Faculty	Storing instructional materials and supplies	
 Teachers 	 Securing and charging mobile computer cart(s) 	
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
• None		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Maximum LF of heavy-duty 18"D adjustable shelving		

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FURR HIGH SCHOOL

Neighborhoods

Teaching Theatre

USERS:	ACTIVITIES:
Teachers48-75 Students	 Mastering 21st Century learning skills Project-based learning Technology-based instruction Collaborative relationship building Demonstrations Working in small groups and in large groups Testing Lecturing

DESIGN CONSIDERATIONS:

• Floor shall be tiered. Tiers to be sufficiently wide to allow for 18" deep folding tables and chairs to be arranged along with an aisle behind the chairs.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Electrically operated projection screen
- Retractable seating
- · Presentation Wall:
 - 1 4'x4' Tack Board
 - 1 8'x4' Marker Board
 - Tack Strips located 12" above marker/tack boards
 - 2 flag holders and map hooks

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Teacher stool
- 24 two person 18" deep folding tables with cart
- 48 stacking chairs with cart
- · Ceiling mounted projector
- Clock



IT Support

Overview:

HISD is in the early stages of an initiative which when completed will provide each learner and high school learner with a laptop. In order to support this initiative, secure space for device repair and storage are to be provided. The spaces should be finished similar to Learning Centers so that if at some time in the future, the spaces are no longer needed for IT support, they can become teaching stations.

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FURR HIGH SCHOOL

IT Support

USERS:	ACTIVITIES:
 2 Computer Repair Technicians 2-4 Student Helpers 3 IT Contractors 	 Distributing computers Receiving computers needing repair Repairing computers Instructing students on the repair of computers Securely storing computers, bags and peripheral parts (cables, batteries, etc.) Conducting inventory

DESIGN CONSIDERATIONS:

- Locate on first floor of multi-story buildings
- Provide badge access at doorway into space
- Provide surveillance cameras focused on entry to room as well as internal computer storage
- This space should have no windows

FURNITURE, FIXTURES & EQUIPMENT:

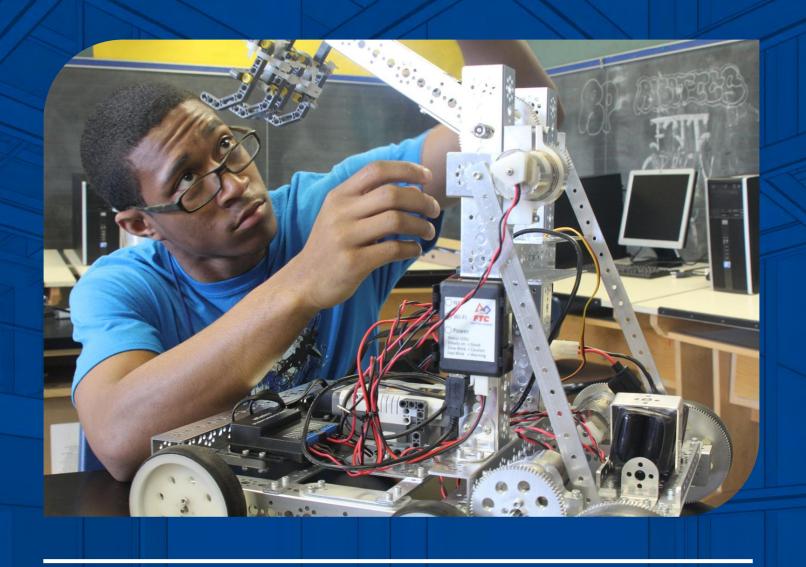
Contractor Furnished – Contractor Installed

- Voice, Power and Data outlets located along perimeter at bench height
- 1-4'x8' Marker Board
- 1-4'x4' Tack Board

Owner Furnished - Contractor Installed

None

- 12 Modular work benches
- 6 task chairs
- 1 bookcase (height may be dependent on window sill height), with adjustable shelving
- Modular reception desk
- Clock
- Tall lockable storage cabinet similar to Tennsco #782MGY
- · Adjustable Shelving
- 4 wire bin shelving to hold bins similar to Quantum #QUS954B
- Antistatic mats



CAREER AND TECHNICAL EDUCATION



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014





Career and Technical Education

Overview:

College and career readiness is a key priority for HISD and by working closely with college partners and area businesses the students are prepared for post-secondary success. They participate in rigorous core academic courses as well as specialized courses in a career-focused area that integrates learning and provides work world experiences such as internships, job shadowing and work-based learning. CTE program clusters help students organize and prepare for college and their future career by linking both core and elective courses based on commonalities. The program also provides articulated offerings which are part of Tech Prep sequences of courses and are articulated with a specific college and credits can apply toward a four-year degree. The clusters anticipated at this campus are:

Science, Technology, Engineering - Robotics – planning, managing and providing scientific research and professional and technical services including laboratory testing and research & development.

Architecture and Construction: Construction Trades – design, planning, management, building and maintaining the built environment.

Arts, AV Technology, Communications – designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.

Health Science – planning, managing and providing therapeutic services, diagnostic services health informatics, support services and biotechnology research and development.

Information Technology – design, development, support, and management of hardware, software, multimedia and systems-integration services.

The CTE spaces should be located adjacent to the neighborhoods. This will allow for collaboration with the core academic programs. Additionally, it will provide access to the Extended Learning Area which can be used for small group sessions, presentations, etc.



FURR HIGH SCHOOL

Space Requirements

	Required Spaces			
Career and Technical Education (CTE)	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Robotics/Engineering Lab	1	1	1,833	1,833
Storage		1	196	196
Graphic Arts Lab	1	1	1,406	1,406
Studio/Support		1	394	394
Storage		1	198	198
Health Science Lab (Science Lab)	1	1	1,216	1,216
Demonstration Room		1	398	398
Storage/Prep		1	196	196
Building Trades Lab	1	1	2,325	2,325
Finishing Room		1	299	299
Lumber Storage		1	309	309
Storage		2	187	374
Business Information Systems Lab	1	1	877	877
Film/Media Studio (Locate Near Performance Area) (Includes Office space)	1	1	1,803	1,803
Studio Control Room		1	197	197
Editing Room		1	380	380
Equipment Storage		1	209	209
Prop/Set Storage		1	297	297
Film/Media Storage		1	187	187
Office A (Square footage allocated from Film/Media Studio)		3		
Total	6			13,094



FURR HIGH SCHOOL



Robotics/Engineering Lab

USERS:	ACTIVITIES:
TeacherStudents	 Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations Working individually, in small groups and in large groups Building large scale models using electrical hand tools

DESIGN CONSIDERATIONS:

- Ceilings at least 12' tall.
- Double doors for removing large models
- Access to exterior of building with drive

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- · Blinds for windows
- Deep sink
- Pegboard or other method of displaying projects located above door head height around perimeter of room
- Provide power overhead 220 volt and 120 volt
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board Display cases for trophies and awards

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser foot controlled

- Presentation Cart
- Teacher stool
- Student Area
 - 8 4- Student tables
 - 30 Student chairs
 - 3 computer tables, 30"x60"
 - 4 large workbenches to support construction with parts storage below
- 6 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Pencil sharpener
- Clock
- Projector

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FURR HIGH SCHOOL

Career and Technical Education-Engineering

Robotics/Engineering Storage

36"W x 84"H lockable storage cabinet

Robotics/Engineering Storage			
USERS:	ACTIVITIES:		
Teacher	Storing tools, parts, and supplies		
Students	Storing of flammable items		
	Storage for printer/plotter		
DESIGN CONSIDERATIONS:			
 Access directly from Robotics 			
 Storage for and appropriate version 			
FURNITURE, FIXTURES & EQUIP	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contract	Contractor Furnished – Contractor Installed		
• None			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
18"D, adjustable height shelving on one wall			
24" D, adjustable height shelving on one wall			
Pegboard on one wall			

FURR HIGH SCHOOL



Graphic Arts Lab

USERS:	ACTIVITIES:
 Teachers 	Project-based learning
 24-32 Students 	Technology-based instruction
	Demonstrations
	Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- · Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Stool
- Student Area:
 - 30 -1 person computer tables
 - 30 task chairs
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Clock
- Projector





FURR HIGH SCHOOL

Career and Technical Education-Graphic Arts

Graphic Arts Studio/Support

Crapino / tito Ctadio/Capport		
USERS:	ACTIVITIES:	
Teacher	 Printing graphics 	
Students	 Equipment storage 	
DESIGN CONSIDERATIONS:		
Access directly from Graphic Arts lab		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
None		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
Heavy duty adjustable shelving		
Lockable 2- 4 drawer file cabinets		



Career and Technical Education-Graphic Arts

Graphic Arts Storage

USERS:	ACTIVITIES:	
Teacher	Storing materials	
Students	Storing research	
	Storing computers	
	 Storing cameras and charging batteries 	
DESIGN CONSIDERATIONS:		
Access directly from Graphic Arts lab		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
None		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
Heavy duty adjustable shelving		
Lockable 2- 4 drawer file cabinets		

FURR HIGH SCHOOL

Career and Technical Education-Health Science

Health Science Lab

USERS:	ACTIVITIES:
Teacher Staff/Faculty Students	 Lecture, labs, computer work Technology-based instruction Chemical, physical and biological experimentation Collaborative relationship building Working individually, in small groups, and in large groups Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

- Emergency utility shut-off
- Power and Data in apron of casework
- One station in each lab to be handicapped accessible

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board
- Casework Side wall:
 - · Sink cabinets and drawer/door cabinets
 - Drying racks above sinks
 - Door/shelf cabinets above sinks
- Safety station(s) (number determined by code) including eyewash, body drench shower
- · Goggles cabinet with UV light for disinfecting
- Fume hood at wall connecting with Storage/Prep Room
- Fixed science demonstration table with gas and water
- Hand washing sink

Owner Furnished - Contractor Installed

- 2 paper towel dispensers
- 2 soap dispensers

- 14 2-person tables with chemical resistant epoxy tops
- 29 adjustable height stools
- 3 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Clock
- Large Periodic Table Chart and other large wall charts (provide clear wall space and tack boards to hang additional material)
- Projector



FURR HIGH SCHOOL

Career and Technical Education-Health Science

Health Science Demonstration Room

USERS:	ACTIVITIES:
TeacherStaff/FacultyStudents	Practicing patient care skills
DESIGN CONSIDERATIONS:	

- Connected to Health Science Learning Center
- Provide 2 headwall stations

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- · Sink and cabinets
- Cubicle curtain track and curtain around each station

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 2 hospital beds
- 6 rolling adjustable stools
- Medical equipment



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FURR HIGH SCHOOL

Career and Technical Education-Health Science

Health Science Storage/Prep

USERS:	ACTIVITIES:
TeacherStaff/FacultyStudents	Teacher preparation and clean-up for lab exercises

DESIGN CONSIDERATIONS:

Fume hood to be double sided.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Refrigerator/freezer with small ice maker, not self-defrosting so that temperature will be constant
- Casework on one wall with chemical resistant countertop, drawer/door base cabinets, and open shelf wall cabinets
- Drying rack mounted above sink
- Fire rated chemical storage cabinet
- Residential dishwasher with permanently attached sign stating: **Thoroughly rinse all acid** containing items before placing in dishwasher

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 2 tall work stools
- Maximum linear feet of 12"D, adjustable height wooden shelving with rim guards on wall facing casework
- 36"W x 84"H lockable storage cabinet

Career and Technical Education-Building Trades

Building Trades Lab

 Teachers 24-32 Students Mastering the core curriculum Mastering 21st Century learning skills 	USERS:	ACTIVITIES:
 Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations, instruction and practice of carpentry, drywall, cabinet making, plumbing, electrical, HVAC, etc. Working individually, in small groups and in large groups 	24-32 Students	 Mastering 21st Century learning skills Project-based learning Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Demonstrations, instruction and practice of carpentry, drywall, cabinet making, plumbing, electrical, HVAC, etc.

DESIGN CONSIDERATIONS:

- Provide overhead door for ease of movement of materials to/from exterior covered area adjacent to drive/parking
- Provide sufficient clear space within room for flexible arrangement of student tables, power tools and work space

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- · Overhead power throughout space
- · Wall hooks near entry door for student aprons
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

- Presentation Cart
- Stool
- Student Area
 - 8-4 Student work tables
 - 30 Student stools
 - 3 computer tables, 30"x60"
 - 6 Student chairs:
- 2 tall storage cabinets with adjustable shelving
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Power tools with integral sawdust collection
- Clock
- Projector

Career and Technical Education-Building Trades

Building Trades Finishing Room

l	ISERS:	ACTIVITIES:
•	Teacher	Applying finishes to cabinets and furniture
•	4-6 Students	

DESIGN CONSIDERATIONS:

- Room should be organized into Spray/Finish area with spray booth, drying area and clearing station
- Provide direct access from Construction Lab
- Provide visual access to Construction Lab

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Deep sink
- Floor drain
- · Spray booth

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- Adjustable height shelving
- 2 30x 60 work tables

FURR HIGH SCHOOL

Career and Technical Education-Building Trades

Building Trades Lumber Storage

USERS:	ACTIVITIES:		
Teacher	 Storing and retrieving lumber, drywall, plywood, etc. 		
Students			
DESIGN CONSIDERATIONS:			
Provide direct access from Construction Lab			
Provide overhead door			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Heavy duty racks for storing materials			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
None			



FURR HIGH SCHOOL

Power tools

Career and Technical Education-Building Trades

Building Trades Storage

building Trades Storage			
USERS: ACTIVITIES:			
Teacher	Tool storage		
Students	Material storage		
DESIGN CONSIDERATIONS:			
Provide direct access from Construction Lab			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Adjustable shelving			
Hand tools			

Career and Technical Education-Business Information Management

Business Information Management Learning Center

USERS:	ACTIVITIES:
Teachers24 Students	 Technology-based instruction Activities that stimulate inventive thinking, creativity and imagination Collaborative relationship building Keyboarding Learning and practicing computer skills and software programs Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

• Provide power and data on the perimeter of the room

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- Presentation Cart
- Teacher stool
- 12 two student tables
- 24 task chairs
- Lockable storage cabinets
- Clock
- Projector





FURR HIGH SCHOOL

Career and Technical Education-Business Information ManagementBusiness Information Management Storage

Badinedo imormation wi	anagement etorage	
USERS:	ACTIVITIES:	
Teachers	Storing materials and supplies	
 Students 		
DESIGN CONSIDERATIONS:		
Directly accessible from Learning Center		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished - Contra	actor Installed	
• None		
Owner Furnished - Contractor	r Installed	
None		
Owner Furnished – Owner Installed		
Adjustable 12" and 18" deep shelving		



FURR HIGH SCHOOL

Career and Technical Education-Film/Media

Film/Media Studio

USERS:	ACTIVITIES:
Teachers24-32 Students	 Technology-based instruction Video interviews and production Working individually, in small groups and in large groups

DESIGN CONSIDERATIONS:

- Provide power and data on the perimeter of the room
- Special lighting controls
- Overhead microphones
- Window between Control room and studio
- · Sound proof walls

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Raised platform/stage
- Curtains and backdrop (green screen)

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed

- Set furniture (chairs, tables, podium)
- 2 tall, lockable, storage cabinets
- 2 bookcases with adjustable shelving
- Clock
- Projector





FURR HIGH SCHOOL

Career and Technical Education-Film/Media

Film/Media Studio Control Room

Studio control consoles

4 full-height, heavy-duty adjustable shelving units

USERS:	ACTIVITIES:
TeachersStudents	 Teaching studio control procedures and techniques Recording live studio programs Video filming and production Broadcasting
DESIGN CONSIDERAT	IONS:
Directly accessible fSound proof walls	rom Studio, connecting with a large window and a door
FURNITURE, FIXTURE	S & EQUIPMENT:
Contractor Furnished -	- Contractor Installed
• None	
Owner Furnished - Co	ntractor Installed
• None	
Owner Furnished - Ow	vner Installed
 4 directors chairs 	

Career and Technical Education-Film/Media

Film/Media Editing Room

USERS:	ACTIVITIES:		
 Teachers 	Computer editing of digital photos and videos		
Students	Graphic creation		
	Scanning		
	May house main media storage server		
	Working on portable video projects		
DESIGN CONSIDERATIONS:			
 Directly accessible from Stud 	lio		
Special lighting controls			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
4'x 8' Pegboard for cable storage			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
6 - two student tables			
12 - task chairs			



FURR HIGH SCHOOL

Career and Technical Education-Film/Media

Film/Media Equipment Storage

Lockable file cabinets

1 1	•		
USERS:	ACTIVITIES:		
TeachersStudents	 Storing parts and supplies related to studio staging, cameras, and lighting Supply storage (DVDs, CDs, flash drives, cameras) Store and charge battery packs 		
DESIGN CONSIDERATIONS:			
Directly accessible from Control Room			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
One wall upper and lower lockable cabinets			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Adjustable 12" and 18" deep shelving			



FURR HIGH SCHOOL

Career and Technical Education-Film/Media

Film/Media Prop/Set Storage

USERS:	ACTIVITIES:		
Teachers Students	Storing backdrops, staging, and set pieces for studio		
Students	production • Storing small props		
	Storing furniture used in studio		
DESIGN CONSIDERATIONS:			
Directly accessible from Studio			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Adjustable 12" and 18" deep shelving			
Storage to accommodate 4'x8' flats			



FURR HIGH SCHOOL

Career and Technical Education-Film/Media

Film/Media Storage

9				
USERS:	ACTIVITIES:			
Teachers	Storing materials and supplies			
Students				
DESIGN CONSIDERATIONS:				
Directly accessible from Control Room				
FURNITURE, FIXTURES & EQUIPMENT:				
Contractor Furnished – Contractor Installed				
None				
Owner Furnished – Contractor Installed				
None				
Owner Furnished – Owner Installed				
Adjustable 12" and 18" deep shelving				



FURR HIGH SCHOOL



Office A

USERS:	ACTIVITIES:
 Security Office 	er • Administrative tasks
 Staff/Faculty 	Preparing correspondence and reports
 Students 	 Creating and documenting safety and security matters
 Parents 	 Meeting with parents, students and other visitors
DEGIGNI GONIGII	ED ATIONS

DESIGN CONSIDERATIONS:

• Locate near main entrance with full access and visibility to Lobby

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

Owner Furnished - Owner Installed

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable









JROTC



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



FURR HIGH SCHOOL

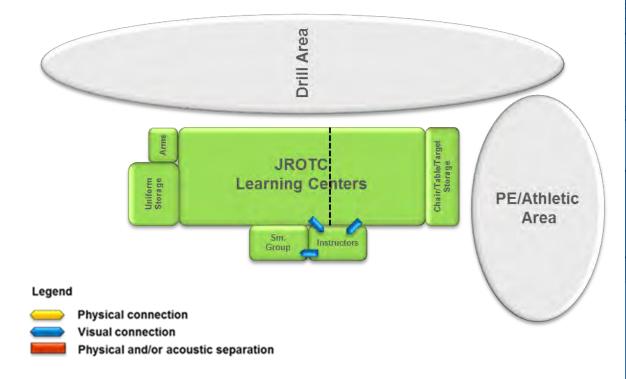
JROTC

Overview:

HISD offers the Junior Reserve Officer Training Corps (JROTC) program at the high school level. JROTC builds self-discipline, teamwork, motivation, and confidence in young people, and provides students with the opportunity to learn about career opportunities in the Armed Forces of the United States. High schools which elect to do so will provide adequate space and facilities to support the JROTC curriculum in accordance with established standards and guidelines.

The program must have access to adequate interior drill, student and staff changing and showering and laundry facilities as well as outside paved space 100' x 100' with perimeter striping for inspections, physical training and practice space for competitive drill teams. Therefore, it is recommended that the JROTC suite be located adjacent to the PE/Athletic area and share the spaces as needed. If sharing of facilities is not possible, then separate facilities will need to be included for JROTC use.

Provide display case (for trophy and awards) and bulletin board (for Chain of Command) in corridor adjacent to Learning Centers.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

		Required	Spaces	
JROTC - Army	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
JROTC - Army				
Learning Center -Large	1	1	1,269	1,269
Learning Center - Small	1	1	925	925
Arms Storage		1	77	77
Chair, table, target, storage		1	410	410
Uniform, drill team, color guard storage		1	342	342
Instructors Center		1	153	153
Small Group collaboration area		1	621	621
Total	2			3,797



FURR HIGH SCHOOL

JROTC

Learning Center/Air Rifle Range

USERS:	ACTIVITIES:
StudentsTeachersVolunteers/Mentors	 Lecturing Instruction on marching, physical training, and gun drills. Practice for these activities will take place in the Gym and practice fields Watching videos Target practice

DESIGN CONSIDERATIONS:

- Provide operable partition dividing the space into two spaces. One space should be should be approximately eight feet longer to allow space for waiting marksmen when the spaces are serving as the Rifle Range.
- The overall length of the space with the partition fully open should be a minimum of 60 feet to allow for it to be used as the air rifle range.
- Permanently delineate eight 48" wide shooting lanes through the use of variation in the floor finish/color/pattern.
- Focused high intensity lighting is required at the target end of one of the Learning Centers.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds for windows
- Shelf around the perimeter of the space near the ceiling for trophy display.
- Presentation Wall in each half of Learning Center:
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board

Owner Furnished – Contractor Installed

None

Owner Furnished – Owner Installed

- Classroom Performance System
- 2 Presentation Carts
- 2 Teacher stools
- 32 2-person tables with folding legs
- 64 stackable chairs
- Targets and ammunition catch boxes
- 4 4-drawer lockable filing cabinets
- 4 tall storage cabinets with adjustable shelving
- 6 bookcases (height may be dependent on window sill height), with adjustable shelving
- 2 Clocks
- 2 Projectors





FURR HIGH SCHOOL

JROTC

Cadet Small Group Collaboration

USERS:	ACTIVITIES:
6-8 Cadets	Preparing reports
 Cadet Leadership 	Research
	Small Group Instruction
DESIGN CONSIDERATIONS	<u>}</u> :

View to Learning Center and Instructor Work Center

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- modular open office systems furniture with open over desk storage
- 8 Tilt swivel desk chairs on casters
- tall storage cabinet
- bookcase

FURR HIGH SCHOOL

JROTC

Instructors Center

USERS:	ACTIVITIES:
Instructional staff	Preparing program plans
	Preparing reports
	Teacher supply storage
DECICAL CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

- View to Learning Center and Cadet Small Group Collaboration
- If unable to be located adjacent to PE area, add separate Restroom and Shower

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Sink and overhead casework
- Full size Refrigerator

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- 3 sets Modular open office systems furniture with keyed over desk storage and file drawers, each set separately keyed to a master.
- 3 Tilt swivel desk chairs on casters
- 3 guest chairs
- bookcase





FURR HIGH SCHOOL

JROTC

Uniform/Drill Team/Color Guard Storage

 Instructional Staff Storing materials, uniforms and books used in JROTC 	USERS:	ACTIVITIES:
	 Instructional Staff 	Storing materials, uniforms and books used in JROTC
• Students programs	Students	programs

DESIGN CONSIDERATIONS:

- Adjacent to JROTC Instructors Office Center with easy access to JROTC Learning Center
- Provide sufficient space for three cadets to try on uniforms.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 32 linear feet of 2 high hanging rods with shelf above for long term storage.
- 2 duplex outlets on each wall
- · Hollow metal door

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- Maximum linear feet of heavy duty adjustable shelving on one wall for shoe, cap, and helmet storage
- 4 Lockable storage cabinets

80

HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL



Arms/Weapons Storage

USERS:	ACTIVITIES:	
Instructional Staff	Storing weapons, targets and ammunition used in JROTC instruction	
DESIGN CONSIDERATIONS:		
Connected (preferred) or adjacent to marksmen area of Learning Center		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
None		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
 Locking arms rack (approximately 2'x2' square) to store 55 weapons Metal adjustable shelving for storage of ammunition, supplies, etc. 		

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HISD EDUCATIONAL SPECIFICATIONS

8 Targets (space requirements are similar to folding tables)

FURR HIGH SCHOOL

JROTC

Chair/Table/Target Storage

Orialit Tablet Target Ott	51490	
USERS:	ACTIVITIES:	
 Instructional Staff 	Storing targets used in JROTC instruction	
 Students 	Storing tables and chairs when Learning Centers are used	
	as rifle range.	
DESIGN CONSIDERATIONS	1	
 Connected to Marksmen 	area of Learning Center	
FURNITURE, FIXTURES & E	QUIPMENT:	
Contractor Furnished – Contractor Installed		
None		
Owner Furnished - Contrac	tor Installed	
• None		
Owner Furnished - Owner I	nstalled	
 Dolly for 64 chairs 		
Dolly for 32 tables		



VISUAL ARTS



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING





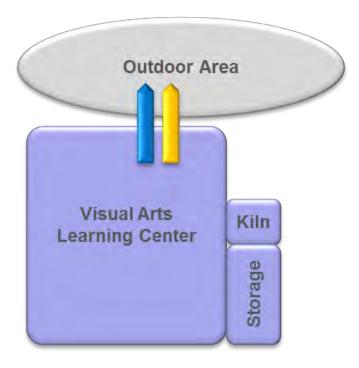
Visual Arts

Overview:

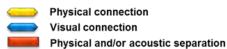
The arts are fundamental to communicating and understanding not only ourselves, but others. Through the arts we learn to appreciate and to create things of beauty. Important 21st Century skills enhanced by arts education include creativity, innovation, critical thinking, cooperative decision making, leadership, and capacity of problemposing and solving. Visual Arts Learning Centers should:

- Meet the state and federal requirements
- Provide a view to the outdoors
- Provide for flexibility of course offerings
- Be easy to clean
- Create an environment conducive to creativity

The Visual Arts should be located in proximity to the Performing Arts to encourage collaboration.



Legend



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

		Required	l Spaces	
Visual Arts	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Visual Arts Learning Center	1	1	1,228	1,228
Kiln Room		1	124	124
Storage Room		1	197	197
Total	1			1,549

FURR HIGH SCHOOL

Visual Arts

Visual Arts Learning Center

USERS:	ACTIVITIES:
Teachers	Creative individual and group activities
 Students 	Learning/researching art history/artist
	Discussions on Art criticism
	Learning/practicing drawing, painting, embossed prints,
	ceramics, sculptures, etc.

DESIGN CONSIDERATIONS:

- Need area for arranging still life with track lighting.
- Northern exposure desirable.
- Provide display area in learning center and visible from corridor

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds for windows
- Presentation Wall
- 2 flag holders and map hooks
- Adjacent or Rear Wall:
 - 2 4'x4' Tack Boards (one on each side of 8'x4' Marker Board)
 - 1 8'x4' Marker Board
- Casework Side wall:
 - Sink cabinet with sink projecting from front edge of casework to allow access from 3 sides
- Door/shelf cabinets above sink
- Shelving above marker boards and windows for project display
- 1 wall with continuous tackable surface

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

Owner Furnished - Owner Installed

- Teacher demonstration table, 30"x60", adjustable height, with chemical resistant top
- Tall teacher stool
- Student Area:
 - 24 student adjustable height stools
 - 7 art tables, 42"x60", with chemical resistant tops (1 to be used for still life set-up)
 - 2 computer tables, 30"x60"
- 2 tall storage cabinets with adjustable shelving
- Portfolio cabinets
- Double-sided mobile drying rack
- 2 mobile paper racks
- 55-tray tote tray cabinet
- 3 bookcases (height may be dependent on window sill height), with adjustable shelving
- Shallow drawer cabinet (must accommodate 24" x 46" paper)
- Projector



FURR HIGH SCHOOL

Visual Arts

Kiln Room

USERS:	ACTIVITIES:
Art teacher	Storing greenware.
	Firing items in kiln.
DESIGN CONSIDERATION	NS:
None	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
Electric kiln	
Owner Furnished - Contr	actor Installed
None	
Owner Furnished - Owne	r Installed
 Greenware cabinet with 	doors



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL

Visual Arts

Storage Room

Otorago i toom		
USERS:	ACTIVITIES:	
Art teacher	Storing and maintaining art supplies.	
DESIGN CONSIDERATIONS		
None		
FURNITURE, FIXTURES & E	QUIPMENT:	
Contractor Furnished - Con	ntractor Installed	
None		
Owner Furnished - Contrac	tor Installed	
None		
Owner Furnished - Owner I	nstalled	
Maximum LF of heavy-du	ty, adjustable height shelving – 50% 18" d, 25% 24" d, 25% 12" d.	
3-shelf mobile cart with re	cessed top well for moving supplies between Art Storage and	
Visual Arts Learning Cent	er	



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PERFORMING ARTS



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



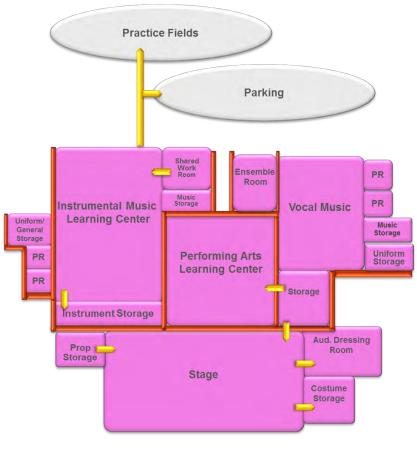


Performing Arts

The arts are fundamental to communicating and understanding not only ourselves, but others. Through performing arts students build a value system in which they learn selfdiscipline and responsibility. Important 21st Century skills enhanced by arts education include creativity, innovation, critical thinking, cooperative decision making, leadership, and capacity of problem-posing and solving. Performing Arts learning centers should:

- Provide for flexibility of course offerings
- Be accessible after regular school hours
- Create an environment conducive to creativity

The Performing Arts Learning Centers should be located adjacent to performance spaces - stage at cafeteria, auditorium, etc. and be in proximity to the Visual Arts to encourage collaboration.



Legend **Physical connection** Visual connection Physical and/or acoustic separation

The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

	Required Spaces			
Performing Arts	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Instrumental Music Learning Center	1	1	2,000	1,999
Instrument Storage		1	400	393
Uniform/General Storage		1	400	393
Practice Room		2	80	160
Music Storage/Library		1	150	150
Vocal Music Learning Center	1	1	1,400	1,415
Uniform/General Storage		1	200	200
Practice Room		2	80	160
Music Storage/Library		1	100	85
Auditorium (seating for 500)		1	5,000	4,303
Stage		1	2,000	2,077
Control Room		1	120	78
Prop Storage		1	250	234
Costume Storage		1	350	347
Dressing Room		2	400	827
Performing Arts Learning Center (Dance/Theater)	1	1	1,800	1,803
Storage		1	200	182
Shared Workroom		1	250	247
Shared Ensemble Room		1	350	406
Т	otal 3			15,459



Performing Arts

Instrumental Music Learning Center

USERS:	ACTIVITIES:		
Instrumental Music Instructors/Director(s) Students	 Developing technical music skills through individual work, group work and performances Instrumental music theory instruction Orchestra Classes Recitals Meeting area for community Recording of performances Sectional usage 		
DECIGN CONCIDED ATIONS			

DESIGN CONSIDERATIONS:

- Size opening to allow for transporting piano, drums, etc.
- · Provide acoustical treatments
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Provide maximum LF of shelving above door height for display
- 2 marker boards, one with permanent music staff markings.
- 2 4'x4' tack boards

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- 60 stackable posture chairs
- 60 music stands
- Music stand cart
- Instrumental music risers
- Small stand carts for risers
- · Conductor's podium: double podium with rail
- Music folio cabinets
- Electronic white board





Performing Arts

Instrumental Music Learning Center – Instrument Storage

USERS:	ACTIVITIES:
Instrumental Music Instructors/Director(s)Students	Storing and retrieving orchestra instruments

DESIGN CONSIDERATIONS:

- Size opening to allow for transporting piano, drums, etc.
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum # of instrument storage cabinets, lockable, solid doors
- Deep utility sink for cleaning instruments

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None

Base Drum

Average Distribution of Band Instruments (Wenger)

Average Distribution of Orchestra Instruments (Wenger)

Instrument	Percent	Instrument	Percent
Piccolo	1%	Violin	25%
Oboe	3%	Viola	19%
Flute	12%	Cello	14%
Clarinet	24%	Double Bass	8%
Alto Clarinet	3%	Flute	3%
Bass Clarinet	3%	Clarinet	3%
Bassoon	4%	Trumpet	6%
Alto Sax	5%	Trombone	4%
Tenor Sax	1%	Tuba	1%
Baritone Sax	1%	French Horn	11%
Cornet/Trumpet	14%	Oboe	3%
French Horn	6%	Bassoon	3%
Baritone Horn	4%	-	100%
Trombone	6%		
Tuba	4%		
Snare Drum	6%		
Tenor Drum	2%		

100%

Performing Arts

None

Instrumental Music Learning Center – Uniform/General Storage

	•		
USERS:	ACTIVITIES:		
 Instrumental Music 	 Storing and retrieving 	ig uniforms	
Directors			
 Students 			
DESIGN CONSIDERATIONS:			
 Perimeter walls of the ent 	 Perimeter walls of the entire music suite and the walls of the instructional spaces shall be 		
min. STC-60. Other walls	min. STC-60. Other walls within the suite shall be min. STC-45.		
 Sound-rated door should 	Sound-rated door should share the same rating as the walls.		
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
4'x4' marker board			
4'x4' tack board			
Maximum LF of double hanging rods with shelving above			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			

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FURR HIGH SCHOOL

Performing Arts

Instrumental Music Learning Center – Music Storage/Library

	3
USERS:	ACTIVITIES:
Instrumental Music Directors	Storing and sorting music
 Students 	

DESIGN CONSIDERATIONS:

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of heavy-duty, adjustable, wall-mounted shelving above file cabinets for additional storage

Owner Furnished - Contractor Installed

None

- Music sorting cabinet
- 10 4-drawer vertical file cabinets
- 24"x36" table
- 2 chairs

Performing Arts

Vocal Music Learning Center

USERS:	ACTIVITIES:
 Vocal Music Instructors/Director(s) Students 	 Developing technical music skills through individual work, group work and performances Choir/Vocal Classes Recitals Meeting area for community Recording of performances Vocal music theory instruction Sectional usage

DESIGN CONSIDERATIONS:

- Provide acoustical treatments.
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Provide maximum LF of shelving above door height for display
- Provide 2 marker boards, one with permanent music staff markings.
- 2 4'x4' tack boards

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 50 stackable posture chairs
- 50 music stands
- Music stand cart
- Instrumental music risers
- Small stand carts for risers
- 1 Conductor's podium: double podium with rail
- 2 music folio cabinets
- Piano



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FURR HIGH SCHOOL

Performing Arts

Vocal Music Learning Center – Uniform/General Storage

•	<u> </u>
USERS:	ACTIVITIES:
 Vocal Music Directors 	Storing and retrieving uniforms.
Students	
DESIGN CONSIDERATIONS:	
Perimeter walls of the entire music suite and the walls of the instructional spaces shall be	
min. STC-60. Other walls within the suite shall be min. STC-45.	

Sound-rated door should share the same rating as the walls. FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of double hanging rods with shelving above

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

None





Vocal Music Learning Center - Music Storage/Library

USERS:	ACTIVITIES:
Vocal Music DirectorsStudents	Storing and sorting music.

DESIGN CONSIDERATIONS:

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of heavy-duty, adjustable, wall-mounted shelving above file cabinets for additional storage

Owner Furnished - Contractor Installed

None

- Music sorting cabinet
- 10 4-drawer vertical file cabinets
- 24"x36" table
- 2 chairs





FURR HIGH SCHOOL

Performing Arts

Shared Workroom

USERS:	ACTIVITIES:
Instrumental Music/ Vocal Music DirectorsStudents	 Planning and sorting music for classes Grading Meeting with students

DESIGN CONSIDERATIONS:

- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- · Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair, swivel, tilt, armless
- Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

Performing Arts

Shared Ensemble Room

USERS:	ACTIVITIES:
Instrumental Music/Vocal Music DirectorsStudents	 Group rehearsals and lessons Sectionals
DEGLON CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

- Provide acoustical treatments
- Perimeter walls of the entire music suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

None

Owner Furnished - Contractor Installed

None

- 15 20 stackable posture chairs
- Chair storage cart
- 1 conductor's chair, music stand, podium



Performing Arts

Drama Learning Center

USERS:	ACTIVITIES:
TeacherStudentsCommunity	 Developing technical theatre skills through individual work, group work and performances Drama instruction Rehearsals Dance Meeting area for community Recording of performances

DESIGN CONSIDERATIONS:

- Size opening to allow for transporting sets, equipment, etc.
- Consider overhead door to Prop Storage and exterior for ease of set and equipment movement
- Provide acoustical treatments
- Perimeter walls of the entire performing arts suite and the walls of the instructional spaces shall be min. STC-60. Other walls within the suite shall be min. STC-45.
- Sound-rated door should share the same rating as the walls.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Continuous mirrors on one wall from base to 8'-0" AFF
- Pull drapes in front of mirrors
- · Pipe grid at ceiling with power for theatrical lighting
- Dimmer system for theatrical lights
- Sound system
- 1 4'x 12 marker boards
- 2 4'x4' tack boards

Owner Furnished – Contractor Installed

None

- 12 2 student desks
- 24 student chairs
- · Presentation Cart
- Teacher stool
- Portable ballet barre(s)
- Projector
- Clock
- 2 lockable double door storage units



FURR HIGH SCHOOL

Performing Arts

Auditorium

USERS:	ACTIVITIES:
 Students Teachers Parents Community members 	 Performances (school play, choir, orchestra, dance, etc) Assemblies Graduation Seminars Meetings Other Community Events Seating for audiences attending drama, theater and musical productions
DESIGN CONSIDERATIONS:	
None	
FURNITURE FIXTURES & FO	ALIIDMENT:

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Fixed, upholstered seats with arms
- Seats with movable tablet arms or back mounted flip-up writing surfaces

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

Projector

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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Performing Arts

Auditorium – Control Room

Tall lockable 2-door storage cabinets

FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' marker board		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
Contractor Furnished – Contractor Installed • 4'x4' marker board • 4'x4' tack board Owner Furnished – Contractor Installed • None		

Performing Arts Auditorium - Stage

USERS:	ACTIVITIES:
TeacherStudentsGuests/Community	 Instrumental, choral and drama presentations by groups and individuals Dance and other physical activity presentations Public and school meetings requiring interaction between those on stage and those seated in the Auditorium Video presentation May be used as a classroom by the drama program Award ceremonies Assemblies
DESIGN CONSIDERATION	IS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Motorized projection screen
- Curtains at front, sides and back of stage. Back and side curtains to be black.
- Mirrors behind curtains on back of stage for potential use as a Dance Room

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed

None

Lockable storage cabinets with adjustable shelving

FURR HIGH SCHOOL

Performing Arts Auditorium – Costume Storage

Auditonum – Costume Storage		
ACTIVITIES:		
Building and painting scenery and props		
Set construction, paint and assembly using tools		
Storing and retrieving props and costumes		
Creating props and costumes		
UIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' tack board		
4'x4' marker board		
8'x8' pegboard		
Owner Furnished – Contractor Installed		
Paper towel dispenser		
Soap dispenser		
Owner Furnished – Owner Installed		
12 LF work bench		
Lockable tool cabinet		



Performing Arts

Table Chair

Auditorium - Prop Storage

	9
USERS:	ACTIVITIES:
 Students 	Storing and retrieving props and costumes
 Teachers 	
DESIGN CONSIDERATIONS	
None	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished - Con	tractor Installed
	ty adjustable shelving above rods on 3 walls (2/3 of rods double,
1/3 of rods single)	
Owner Furnished - Contrac	tor Installed
None	
Owner Furnished – Owner I	nstalled

Maximum LF of heavy-duty adjustable shelving on walls beside door



FURR HIGH SCHOOL

Chairs

Performing Arts

Auditorium – Dressing Room

Additionally – Diessing Room			
USERS:	ACTIVITIES:		
 Students 	Changing into costumes		
	 Applying makeup for performances 		
	Performance preparation		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EQ	UIPMENT:		
Contractor Furnished - Contra	actor Installed		
Makeup counter continuous on one wall			
 Mirrors above makeup coun 	Mirrors above makeup counter		
Full length mirrors			
 3-tier locker units 			
12 LF of hanging rod			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Owner Furnished – Owner Installed			



PHYSICAL EDUCATION / ATHLETICS



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

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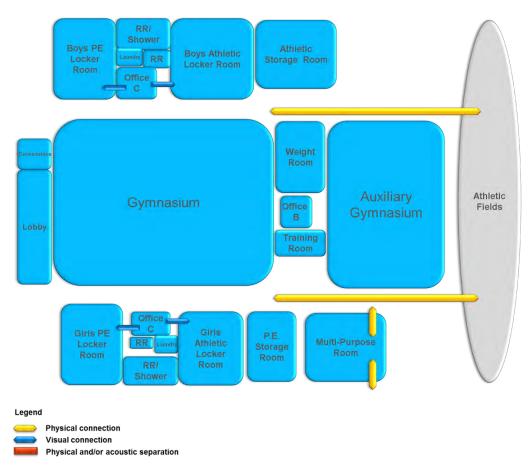
Physical Education/Athletics

Overview:

The mission of HISD's Health and Physical Education programs is to provide a framework of knowledge, practices and skills to positively impact student's health and physical well-being. Health Education focuses on the development of wellness lifestyles by addressing knowledge, attitudes, behaviors and skills for healthy living. Physical Education and Athletic programs focus on personal fitness through participation in leisure and lifetime activity that lead to self-responsibility, teamwork, sportsmanship, and leadership. The following sports are offered in the Athletic program:

- August-November: Boys Football, Girls Volleyball, Girls Team Tennis
- December-March: Boys and Girls Basketball, Swimming, Tennis, Cross-Country, Golf, Track, Wrestling, Soccer
- · March-May: Boys Baseball, Girls Softball

Community use and involvement with the PE/Athletics programs is needed and encouraged through the availability of indoor and outdoor facilities when not being used as part of the school program.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

		Required	l Spaces	
Physical Education/Athletics	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
PE/Athletics Lobby		1	766	766
Gymnasium (seating for 900 people)	2	1	10,880	10,880
Auxiliary Gymnasium (seating for 225 people)	1	1	7,588	7,588
Weight Room		1	1,000	1,000
Multipurpose Fitness Room		1	1,400	1,400
Concessions/Tickets (try to share with Auditorium)		1	297	297
Boys' Athletic Locker Room		1	1,071	1,071
Girls' Athletic Locker Room		1	774	774
Boys'/Girls' PE Locker Room		2	1,126	2,252
Toilets/Showers		4	247	986
Adult Toilet/Shower/Locker		2	102	204
Athletic Director (Office B)		1	261	261
Office C (shared)		2	307	614
Training Room		1	422	422
Laundry		1	108	108
PE Equipment Storage		1	538	538
Athletic Equipment Storage		2	545	1,089
Total	3			30,250



FURR HIGH SCHOOL

Physical Education/Athletics

Wall mounted video display panels

Lobby

USERS:	ACTIVITIES:		
ParentsStudentsCommunity membersFaculty/staff	 Transition/surge space for events held in Gymnasium Entering and exiting of events held in Gymnasium Event attendee overflow Small sitting area Greeting of attendees for events held in the Gymnasium 		
DESIGN CONSIDERATION	is:		
Consider shared lobby	if applicable with floor plan		
 Consider including cond 	Consider including concession area/stand in lobby		
Locate public restrooms close to lobby			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
• None			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
Benches	Benches		

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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

P.E./Athletics

Gymnasium

USERS:	ACTIVITIES:
 PE Teachers/Coaches Students Parents Community Groups Staff Sports teams 	 Physical education classes and activities Athletic competitions Sports: basketball, volleyball, gymnastics, cheerleading, drill team, wresting, badminton Fitness/health presentations School assemblies Performances Graduation Community sports activities/events

DESIGN CONSIDERATIONS:

- Protect all devices and windows from damage by ball strikes
- Wall and ceiling finish and any acoustic treatments must be capable of sustaining repeated ball strikes

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 2 glass motorized, height adjustable, retractable backboards
- 4 fiberglass motorized, height adjustable, retractable backboards
- Telescoping bleachers to seat number indicated in space requirements. Provide separation between spectators and playing court with railings.
- Volleyball system to include poles and recessed floor sleeves
- Floor markings for basketball and volleyball
- · Continuous wall pads on end walls
- Motorized curtain to divide gym into 2 teaching areas
- Scoreboard/clock
- Sound system

Owner Furnished - Contractor Installed

None

- 2 30"x60" folding tables
- 6 Chairs



FURR HIGH SCHOOL

P.E./Athletics

Auxiliary Gymnasium

USERS:	ACTIVITIES:
 PE Teachers/Coaches Students Parents Community 	 Physical education classes and activities Athletic competitions Sports: basketball, volleyball, gymnastics, cheerleading, drill team, wrestling, badminton Fitness/health presentations School assemblies Performances Graduation Community sports activities/events

DESIGN CONSIDERATIONS:

- Protect all devices and windows from damage by ball strikes
- Wall finish and any acoustic treatments must be capable of sustaining repeated ball strikes

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 2 glass, motorized, height adjustable, retractable backboards
- 4 fiberglass, motorized, height adjustable, retractable backboards
- Telescoping bleachers to seat number indicated in space requirements
- Volleyball system to include poles and recessed floor sleeves
- Floor markings for basketball and volleyball
- Continuous wall pads on end walls
- Motorized curtain to divide gym into 2 teaching areas
- Scoreboard/clock
- Individual sound system

Owner Furnished - Contractor Installed

None

- 2 30"x60" folding tables
- 6 Chairs



P.E./Athletics

Weight Room

USERS:	ACTIVITIES:
 Coaches 	Physical education classes
 Teachers 	Weight training for students and staff
20-32 students	Potential for community use
DESIGN CONSIDED ATIONS	

DESIGN CONSIDERATIONS:

- Provide interlocking rubber tile floor over VCT or concrete floor (polished or stained)
- Provide for potential community use after hours
- Provide humidity control and ventilation

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4' tack board
- Mirrors on one wall
- Interlocking rubber tile floor

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Sanitizer dispenser

Owner Furnished - Owner Installed

Weight equipment and machines





Multipurpose Fitness Room

USERS:	ACTIVITIES:		
 PE Teachers/Coaches Students Parents Community Groups Staff Sports teams 	 Physical education classes and activities Fitness/health presentations Community sports activities/events 		
DESIGN CONSIDERATIONS:			
 Locate to allow for potential 	Locate to allow for potential community use after school hours		
FURNITURE, FIXTURES & E	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed			
Mirrors on walls			
Owner Furnished – Contractor Installed			
• None			
Owner Furnished – Owner Installed			
Workout Equipment/ MachinesWeights			

P.E./Athletics

Boys Athletic Locker Room

	,		
US	SERS:	AC	CTIVITIES:
•	PE Teachers	•	Changing clothes before and after athletic activities
•	Coaches	•	Storing personal items during classes, practices or competitions
•	Students		
DE	DESIGN CONSIDERATIONS:		
•	Design for air flow that will maintain consistent temperature and humidity level.		

- Provide clear view for passive supervision (no tall lockers blocking line of sight).

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 100 large lockers (football)
- 40 lockers, double stacked (other boys athletics)
- **Benches**
- 4'x4' marker board
- 4'x4' tack board
- Mirrors

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Sanitizer dispenser

Owner Furnished - Owner Installed

None



P.E./Athletics

Sanitizer dispenser

None

Owner Furnished - Owner Installed

Girls Athletic Locker Room

Cirio / tanotio Econor (toom			
USERS:	ACTIVITIES:		
 PE Teachers 	Changing clothes before and after athletic activities		
 Coaches 	Storing personal items during classes, practices or		
 Students 	competitions		
DESIGN CONSIDERATIONS:			
 Design for air flow that will r 	maintain consistent temperature and humidity level.		
 Provide clear view for passi 	ve supervision (no tall lockers blocking line of sight).		
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
100 lockers, double stacked			
• Benches			
4'x4' marker board			
4'x4' tack board			
• Mirrors			
Owner Furnished – Contractor Installed			
 Paper towel dispenser 	Paper towel dispenser		

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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

P.E./Athletics

Boys/Girls P.E. Locker Room

USERS:	ACTIVITIES:
PE Teachers	Changing clothes
 Coaches 	 Storing personal items during classes, practices or
 Students 	competitions

DESIGN CONSIDERATIONS:

- Design for air flow that will maintain consistent temperature and humidity level
- Provide clear view for passive supervision (no tall lockers blocking line of sight)

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 600, 6:1 lockers
- Benches
- 4'x4' marker board
- 4'x4' tack board
- Mirrors

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Sanitizer dispenser

Owner Furnished - Owner Installed

None



FURR HIGH SCHOOL

P.E./Athletics

Student Toilet/Showers

USERS:	ACTIVITIES:	
Students	Restroom and bathing	
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Mirrors		
Owner Furnished – Contractor Installed		
 Paper towel dispensers 		
 Soap dispensers 		
Owner Furnished – Owner Installed		
 Shower curtains 		



FURR HIGH SCHOOL

P.E./Athletics

Adult Toilet/Shower/Locker

7.666.			
USERS:	ACTIVITIES:		
Coaches/Teachers • Restroom and bathing			
DESIGN CONSIDERATIONS:	DESIGN CONSIDERATIONS:		
None			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Mirrors			
2 full height lockers			
Owner Furnished – Contractor Installed			
Paper towel dispenser			
Soap dispenser			
Owner Furnished – Owner Installed			
Shower curtain			



FURR HIGH SCHOOL

P.E./Athletics

2 4-drawer vertical file, letter size, lockable

Office B

Office B			
USERS:	ACTIVITIES:		
Athletic Director and/or Coaches	Space for Athletic Director, coach and/or teachers to perform administrative tasks		
Students	Secure storage for electronic equipment		
	Area for filing of athletic program documents		
DESIGN CONSIDERATIONS:			
View into locker room for su	pervision		
·	FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contr	Contractor Furnished – Contractor Installed		
Blinds on windows			
4'x4' marker board			
4'x4' tack board			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Ins			
Double pedestal desk with center drawer & lock, 60" x 30"			
Credenza			
Task chair			
2 Guest chairs			
36" conference table			
2 4-shelf bookcases, 52"H x 36"W x 15"D			

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HISD EDUCATIONAL SPECIFICATIONS

1, 4-shelf bookcase, 52"H x 36"W x 15"D 1, 4-drawer vertical file, letter size, lockable

FURR HIGH SCHOOL

P.E./Athletics

Office (Shared)

Office (Shared)		
ACTIVITIES:		
Coach and teacher administrative tasks		
 Changing clothes before and after physical education 		
activities		
Storing personal items		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4'x4' marker board		
4'x4' tack board		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
2, Double pedestal desk with center drawer & lock, 60" x 30"		
2, Task chairs, swivel, tilt, armless		
2, Guest chairs		

FURR HIGH SCHOOL

P.E./Athletics

Training Room

USERS:		ACTIVITIES:	
	Trainer	Administering First Aid	
	 Student assistants 	 Taping of student athletes before/after athletic competitions 	
	 Coaches 	Administering physical therapy	
	 PE students 	 Training supply and equipment storage 	
	 Student athletes 	- · · · · · · · · · · · · · · · · · · ·	
DESIGN CONSIDERATIONS:			

None

FURNITURE. FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 8 LF casework with countertop, sink cabinet, drawer/door base cabinets, shelf/door wall cabinets
- Floor drain

Owner Furnished - Contractor Installed

- Paper towel dispenser
- Soap dispenser
- Sanitizer dispenser
- Small ice machine in accordance with Design Guidelines

- Microwave for heating pads
- Scale
- Exercise bicycle
- Taping table (36"Dx36"H) with drawer door cabinets below.

P.E./Athletics

Laundry

US	SERS:	ACTIVITIES:
•	PE Teachers/Coache	 Laundering of athletic team uniforms Laundering of cheerleading uniforms
•	Staff	

DESIGN CONSIDERATIONS:

- Floor drain
- Floor sloped towards drain
- Exhaust to the exterior
- Emergency water shutoff valve

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 8 LF of hanging rod (commercial grade)
- Commercial washer and dryer
- Wall mounted adjustable shelves
- Washer and dryer hook ups in the Laundry Room
- · Plate on door.
- Single, deep utility sink

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

- 30"x 60" table
- 36"W tall shelf unit 24"D



P.E./Athletics

P.E. Equipment Storage

1 1	,		
USERS:	ACTIVITIES:		
PE Teachers/Coaches	Storing and retrieving equipment used for physical education		
 Students 	classes		
DESIGN CONSIDERATIONS:			
Floors need to be level and transition strip should be low profile to allow for easy movement			
of heavy equipment on carts.			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
Heavy-duty adjustable shelving on 3 walls. Lower shelf 24"D. Upper shelves to ceiling			
18"D. Locate bottom shelf on 2 walls 48" AFF for ball carts and mats.			

Provide pegboard on 1 wall for hanging jump ropes, hula hoops, etc.

P.E./Athletics

Athletic Equipment Storage

Attinuted Equipment eterage			
USERS:	ACTIVITIES:		
Coaches/Teachers	Storing and retrieving equipment used for athletic programs		
Students			
DESIGN CONSIDERATIONS:			
Floors need to be level and transition strip should be low profile to allow for easy movement			
of heavy equipment on carts			
Provide exterior access 4-0' door.			
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Provide lockable cages to secure team equipment and uniforms			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
36"Wx60"H heavy-duty, adjustable shelf unit in each cage			
Heavy-duty adjustable 18" shelving on walls beside door			





ADMINISTRATION / GUIDANCE



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014





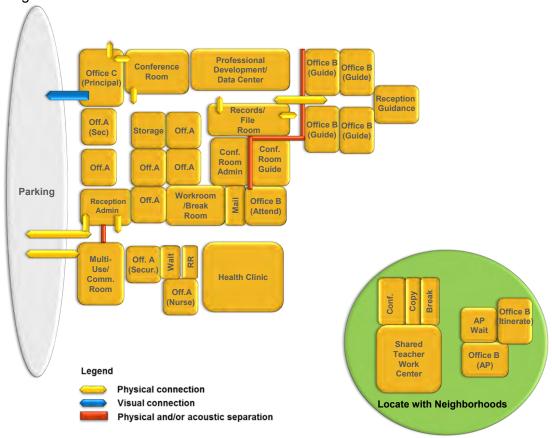


Overview:

These facilities are most community member's first introduction to the School. As such, they must not only be inviting, professional and businesslike but also serve as the secure checkpoint prior to visitors entering the school. The Administration/Guidance facilities should:

- Meet the state and federal requirements
- Provide a secure entrance
- Provide privacy for confidential discussions
- Store student and financial records
- Serve as the communications hub of the school
- Provide a readily accessible location for the School Clinic
- · Provide spaces for receiving and distributing incoming mail and packages

The entrance to the Administration suite shall be located adjacent to the front door of the school and should feel open and invitational. It should be located adjacent to but separate from Guidance. Guidance should be readily accessible to students and easy to find by parents but should not be perceived as being part of Administration. Satellite Administration and Guidance offices should be located adjacent to the various neighborhoods.



The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

		Required Spaces		
Administration/Guidance	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Administration				
Reception, Administration, 2 work stations		1	386	386
Office A, Principal's Secretary		1	121	121
Office C (Principal)		1	282	282
Principal's Restroom		1	87	87
Office B (AP) (Dean of Inst., 2 AP s)		3	99	297
AP Reception/Waiting		2	99	198
Conference Room, Main		1	299	299
Conference Room, Small		2	212	423
Storage		1	198	198
Health Clinic		1	203	203
Reception/Waiting		1	135	135
Office A		1	299	299
Restroom		1	60	60
Guidance/Student Services				
Reception, Guidance		1	132	132
Office B (2 Counselors, (Police Officers shared))		3	120	360
Office A (Clerk, Account/Budget, Guidance Clerk, Registrar)		5	105	524
Conference Room, Small		1	155	155
Records/File Room		1	196	196
Administration/Guidance Workroom/Break Room		2	219	438
Shared				
Central Copy Room and Paper Storage		1	306	306
Professional Development/Data Center		1	315	315
Teacher Work Center (Work Stations, Conference Room, Break Area)		2	1,495	2,990
Office B (Itinerant)		3	101	302
Multi-use/Community Room (locate for use after hours)		1	352	352
Total	0			9,058



Reception, Administration

USERS:	ACTIVITIES:
ParentsStudentsCommunity membersFaculty/staff	 Greeting and welcoming people and directing them to the proper location or person Waiting/seating area for visitors, students, and staff members Controlling entrance to the school
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DESIGN CONSIDERATIONS:

- All visitors must pass through reception to enter school
- Use modular furniture for the circulation desk. A portion shall be at height to meet accessibility requirements.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

None

Owner Furnished - Contractor Installed

None

- Modular reception desk with work stations to include:
 - 30"D x 30'H x 10-12 LF work surface (section with reduced height for greeting children/ ADA compliance).
 - Half of the reception desk should have a transaction counter 1'D x 42"H with a maximum of 6" overlapping work surface
 - Rear work surface 30"D x 30"H
- Work surfaces should have lockable built-in storage below including a combination of 6"D
 and file drawers (at least 4) as well as cabinets with adjustable shelving2 Task chairs
- Guest chairs
- Side tables
- Video Display



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FURR HIGH SCHOOL

Administration/Guidance

Office A

Office / C		
USERS:	ACTIVITIES:	
Staff/FacultyClerical Support StaffStudentsParents	 Assisting in administrative record keeping Preparation of correspondence, reports and other administrative tasks Private conferences 	
DESIGN CONSIDERATIONS:		
Locate one Guidance office in each AP suite.		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Blinds on windows		
4'x4' marker board		
4'x4' tack board		
Owner Furnished – Contractor Installed		
None		

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

FURR HIGH SCHOOL

Administration/Guidance

Office C (Principal)

USERS:	ACTIVITIES:
 Principal 	Conducting administrative duties
Students	Preparing correspondence and reports
 Parents 	Meeting with parents, students and other visitors
	Placing phone calls

DESIGN CONSIDERATIONS:

- Locate with view to school entry drive.
- Locate so Principal can leave Administration Suite without being seen from reception.
- Should have direct access to large conference room
- Include storage closet

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Credenza
- Task chair
- 8 guest chairs
- 8' conference table
- Video Display
- 2 4-shelf bookcases, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable





FURR HIGH SCHOOL

Administration/Guidance

Principal's Restroom

None

USERS:	ACTIVITIES:
 Principal 	Personal hygiene
 Visitors 	
Staff	
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished - Con	tractor Installed
 Mirrors 	
Owner Furnished - Contract	or Installed
Paper towel dispenser	
Soap dispenser	
Toilet paper dispenser	
Owner Furnished – Owner Installed	

Office B (AP)

USERS:	ACTIVITIES:
StaffTeachers	Conducting administrative tasksPreparing correspondence and reports
Assistant	Creating and documenting new and existing students
Principal	Meeting with parents, students and other visitors
 Students 	Placing phone calls
 Parents 	

DESIGN CONSIDERATIONS:

Locate with neighborhoods

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

Administration/Guidance

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- · Task chair
- · 4 guest chairs
- 36" conference table
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable



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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Administration/Guidance + Reception/Guidance

AP Waiting

USERS:	ACTIVITIES:
ParentsStudentsCommunity membersFaculty/staff	Greeting and welcoming people Waiting/seating area for visitors, students, and staff members
DECICN CONCIDEDATIO	NO.

DESIGN CONSIDERATIONS:

Should be located adjacent to Neighborhoods

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

None

Owner Furnished - Contractor Installed

None

- Modular reception desk with work stations to include:
 - 30"D x 30'H x 10-12 LF work surface (section with reduced height for greeting children/ADA compliance).
 - Half of the reception desk should have a transaction counter 1'D x 42"H with a maximum of 6" overlapping work surface
 - Rear work surface 30"D x 30"H
- Work surfaces should have lockable built-in storage below including a combination of 6"D and file drawers (at least 4) as well as cabinets with adjustable shelving2 Task chairs
- 8 Guest chairs
- Side tables

Administration/Guidance

Conference Room, Main

USERS:	ACTIVITIES:	
 Principal Staff/Faculty Parents/Students School Support Groups (PTO, etc.) 	Meetings/Conferences between Faculty/Staff and Students, Parents and Community	
DESIGN CONSIDERATIONS:		
 Provide direct access from 	Principal's Office and secondary corridor.	
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Blinds on windows		
Marker and tack board in cabinet		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
Credenza		
Conference table for 12 people		
12 Swivel, tilt armchairs		
 Television and/or electronic 	whiteboard	



FURR HIGH SCHOOL

Administration/Guidance

Television and/or electronic whiteboard

Conference Room, Small

Comoronico i Com, Cinam		
USERS:	ACTIVITIES:	
Staff/Faculty	Meetings/Conferences between Faculty/Staff and Students,	
Parents	Parents and Community	
 School Support Groups 		
(PTO, etc.)		
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Blinds on windows		
Marker and tack board in cabinet		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Credenza		
Conference table for 6 people		
6 Swivel, tilt armchairs		

Storage Room

USERS:	ACTIVITIES:	
Guidance Clerk	Storing office supplies	
Counselors	Storing educational materials	
Administrators'	Storing student records	
Office Staff		
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
None		
Owner Furnished – Contractor Installed		
• None		
Owner Furnished – Owner Installed		
Maximum LF of heavy duty adjustable shelving		

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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Administration/Guidance

Office A (Security Office)

USERS:	ACTIVITIES:
Security Officer	Administrative tasks
Staff/Faculty	Preparing correspondence and reports
Students	 Creating and documenting safety and security matters
 Parents 	Meeting with parents, students and other visitors
DECICAL CONCIDED ATION	0-

DESIGN CONSIDERATIONS:

• Locate near main entrance with full access and visibility to Lobby

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable



Administration/Guidance

Health Clinic - Reception/Waiting

USERS:	ACTIVITIES:	
School nurse	 Waiting area for visitors, students, and staff members 	
Staff		
 Students 		
 Parents 		
 Visitors 		
DESIGN CONSIDERATIONS:		
Visual connection between Nurses' Office and Waiting		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
None		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
4 guest chairs		
Literature racks		

FURR HIGH SCHOOL

Administration/Guidance

Health Clinic

USERS:	ACTIVITIES:
 School nurse 	Treating ill or hurt students
Staff	Conducting medical exams/screening
 Students 	Dispensing medications
 Parents 	Waiting area for ill students prior to being picked up
DESIGN CONSIDERAT	IONS:

Visual connection between Nurses' Office and Clinic

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Blinds on all windows
- Sink cabinet with single deep sink
- 4 LF of Drawer/door cabinets lockable
- 6 LF Door/shelf wall cabinets

Owner Furnished – Contractor Installed

- Paper towel dispenser
- Soap dispenser

- Cot/exam table
- Adjustable height stool
- Locking refrigerator with ice maker
- Biohazard disposable can
- Medical sharps waste disposal
- 2 quest chairs
- Defibrillator



4-drawer vertical file, letter size, lockable

Health Clinic - Office A

USERS:	ACTIVITIES:
 School nurse 	 Consultation by nurse with students, parents and staff
 Staff 	 Record-keeping and paperwork
 Students 	Working with student health files
 Parents 	
 Visitors 	
DESIGN CONSIDERATIONS:	
 Visual connection between 	Nurses' Office and Waiting
FURNITURE, FIXTURES & EC	QUIPMENT:
Contractor Furnished - Cont	ractor Installed
 Blinds on windows 	
 4'x4' marker board 	
 4'x4' tack board 	
Owner Furnished - Contracto	or Installed
 File cabinet 	
 Literature rack 	
Owner Furnished - Owner Ins	stalled
 Double pedestal desk with 	center drawer & lock, 60" x 30"
 Credenza 	
 Task chair 	
 2 guest chairs 	
 4-shelf bookcases, 52"H x 	36"W x 15"D



FURR HIGH SCHOOL

None

Administration/Guidance

Health Clinic - Restroom

USERS:	ACTIVITIES:
Staff	Restroom activities
 Students 	Hand Washing
Faculty	Personal hygiene
 Visitors 	
DESIGN CONSIDERATIONS:	
None	
FURNITURE, FIXTURES & EQ	UIPMENT:
Contractor Furnished - Contr	actor Installed
Mirror	
 Toilet paper dispenser 	
 Toilet seat cover dispenser 	
Coat hook	
Owner Furnished – Contracto	or Installed
Paper towel dispenser	
 Soap dispenser 	
Owner Furnished - Owner Ins	stalled





Reception, Guidance

USERS:	ACTIVITIES:
ParentsStudentsCommunity membersFaculty/staff	 Greeting and welcoming people and directing them to the proper location or person Waiting/seating area for visitors, students, and staff members
DESIGN CONSIDERATIONS	s :
None	
FURNITURE, FIXTURES & E	EQUIPMENT:
Contractor Furnished – Cor	ntractor Installed
 None 	

Owner Furnished - Contractor Installed

- Modular reception desk with work station to include:
 - 30"D x 30'H x 4-6 LF work surface (section with reduced height for greeting children)
 - Include a transaction counter 1'D x 42"H with a maximum of 6" overlapping work surface
 - Rear work surface 30"D x 30"H
 - Work surface should have lockable built-in storage below including a combination of 6"D and file drawers (at least 4) as well as cabinets with adjustable shelving

Owner Furnished – Owner Installed

Task chair

FURR HIGH SCHOOL

Administration/Guidance

Office B (Attendance, Registrar, Officer)

	· · · · · · · · · · · · · · · · · · ·
USERS:	ACTIVITIES:
Attendance Clerk,	Administrative tasks
Registrar, Officer	Preparation of correspondence and reports
Staff	Creating and documenting new and existing students
 Students 	Meeting with parents, students and other visitors
 Parents 	
DESIGN CONSIDERATION	ς.

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- Task chair
- 2 Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable



Administration/Guidance

Conference Room, Small – Guidance/Student Services

USERS:	ACTIVITIES:	
Staff/Faculty	Meetings/Conferences between Faculty/Staff and Students,	
 Parents 	Parents and Community	
 Visitors 		
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EC	QUIPMENT:	
Contractor Furnished - Cont	ractor Installed	
Blinds on windows		
Marker and tack board in cabinet		
Owner Furnished – Contracto	or Installed	
None		
Owner Furnished – Owner In	stalled	
Credenza		
Conference table for 6 people		
6 Swivel, tilt armchairs		



FURR HIGH SCHOOL

Administration/Guidance

Records/File Room

USERS:	ACTIVITIES:
Guidance ClerkCounselorsAdministrators	Storing and retrieving student records
DESIGN CONSIDERATIONS:	

• Room should be treated as a 1 hour fire-rated enclosure.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 4'x4' marker board
- 4'x4' tack board
- Maximum LF of heavy-duty, adjustable, wall-mounted shelving above filing cabinets for additional storage

Owner Furnished – Contractor Installed

None

- 24"x36" table
- · 2-door lockable storage cabinet
- Side chair
- 10 5-drawer vertical file cabinets



Mail Pick Up

None

USERS:	ACTIVITIES:
Faculty	Picking up mail
Staff	Reading notices
	Dropping off mail
DESIGN CONSIDERATIONS	
 Provide in/out doors off of 	secondary corridor.
 Mailboxes provide separat 	tion between this space and workroom/break room.
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished - Con	tractor Installed
 4'x8' tack board 	
Owner Furnished - Contract	or Installed
None	
Owner Furnished - Owner Ir	nstalled

NO SALE

HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Administration/Guidance

Teacher Break Room

USERS:	ACTIVITIES:
Staff	Eating lunch
	 Informal planning meetings and collaboration

DESIGN CONSIDERATIONS:

Mail slots should open directly to mail pick up room.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds on windows
- 4'x4' tack board
- 60- 12"W x 9"H x 12"D pass through mail slots with 24"D adjustable shelving below for packages
- Approximately 10 LF of casework with countertop, sink cabinet, drawer/door base cabinets and door/shelf wall cabinets

•

Owner Furnished - Contractor Installed

- · Paper towel dispenser
- Soap dispenser

- 36" x 72" work tables
- 6 Lounge chairs
- Refrigerator with icemaker
- 8 Chairs
- 2 42" square tables
- Vending machines 2 drink & 1 snack (vendor provided)
- Microwaves/Oven
- Copier





Shared – Professional Development/Data Center

USERS:	ACTIVITIES:	
 Teachers 	 Keeping track of student progress and activity 	
 Administrators 	 Professional teacher training, development and in services 	
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EC	QUIPMENT:	
Contractor Furnished - Cont	ractor Installed	
2 walls continuous tackable	e surface	
2 walls continuous marker surface		
Owner Furnished - Contracto	or Installed	
None		
Owner Furnished - Owner In:	stalled	
 4 - 24"x36" tables 		
• 2- 2-door lockable storage	cabinet	
16, Swivel, tilt chair		
2 -5-drawer vertical file cabinets		
Television and/or Electronic	Television and/or Electronic marker Board	

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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Administration/Guidance

Shared – Teacher Work Center, Work Stations

Shared - reacher work Center, work Stations	
USERS:	ACTIVITIES:
Teachers	Preparing lesson plans
	Teacher supply storage
	Researching
	Collaborating
DESIGN CONSIDERATIONS:	
 Locate in neighborhoods 	
FURNITURE, FIXTURES & EQ	UIPMENT:
Contractor Furnished - Contr	actor Installed
 4'x4' marker board 	
 4'x4' tack board 	
 Sink, cabinets 	
Owner Furnished – Contractor Installed	
None	
Owner Furnished – Owner Ins	talled

- Modular open office systems furniture with keyed over desk storage and file drawers, each set separately keyed to a master.
- Tilt swivel desk chairs on casters



FURR HIGH SCHOOL

Administration/Guidance

Copy Center

USERS:	ACTIVITIES:
Staff	 Copying Collating Preparing communications for mailing Laminating, book making, poster making General office work Storing and retrieving supplies Mail delivery and retrieval Making copies

DESIGN CONSIDERATIONS:

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

Large counter (standing height) in the middle of the space for sorting (with a stack of flat file drawers and drawer/door cabinets)

Owner Furnished - Contractor Installed

None

- Work table for sorting
- Copier
- Tall double door storage cabinet



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6 Swivel, tilt armchairs

Television and/or electronic whiteboard

Administration/Guidance

Shared – Teacher Work Center, Conference Room

Shared - reacher Work Senter, Somerence Room					
USERS:	ACTIVITIES:				
Teachers	Meetings				
	Collaboration				
DESIGN CONSIDERATIONS:					
None					
FURNITURE, FIXTURES & EQUIPMENT:					
Contractor Furnished – Contractor Installed					
4'x4' marker board					
4'x4' tack board					
Owner Furnished – Contractor Installed					
• None					
Owner Furnished – Owner Installed					
Credenza					
Conference table for 6 people					

Administration/Guidance

Shared - Teacher Work Center, Break Area

USERS:	ACTIVITIES:			
 Teachers 	Lounging			
	Eating			
DESIGN CONSIDERATIONS:				
None				
FURNITURE, FIXTURES & EQUIPMENT:				
Contractor Furnished – Contractor Installed				
4'x4' marker board				
4'x4' tack board				
Owner Furnished – Contractor Installed				
None				
Owner Furnished – Owner Installed				
Chairs				
• Tables				

Administration/Guidance

Shared – Office B (Itinerant)

USERS:	ACTIVITIES:			
Staff	Administrative tasks			
 Students 	Preparation of correspondence and reports			
 Parents 	 Creating and documenting new and existing students 			
	Meeting with parents, students and other visitors			
DESIGN CONSIDERATIONS:				

Locate with Neighborhoods, Office B (AP) and Teacher Work Centers.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Blinds on windows
- 4'x4' marker board
- 4'x4' tack board

Owner Furnished - Contractor Installed

None

- Double pedestal desk with center drawer & lock, 60" x 30"
- · Task chair
- 2 Guest chairs
- 4-shelf bookcase, 52"H x 36"W x 15"D
- 4-drawer vertical file, letter size, lockable

Shared - Multi-Use/Community Room

USERS:	ACTIVITIES:
 Community Members Principal Staff/Faculty Parents/Students School Support Groups	Meetings/Conferences between Faculty/Staff and Students,
(PTO, etc.)	Parents and Community

DESIGN CONSIDERATIONS:

Locate near Admin suite, but not inside

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Approximately 6' LF casework including, sink cabinet, door base and wall cabinet
- Blinds on windows
- Marker board
- Tack board

Owner Furnished - Contractor Installed

- Stove top and oven
- Refrigerator/freezer
- Dishwasher

- 2 door locking storage cabinet
- 8 task chairs
- 15 modular tables for easy rearrangement depending on room use (18" x 48")
- 30 stackable chairs
- Projection screen





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HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL



FOOD SERVICE



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



Food Service

Overview:

School Food Service Trends

Source: National Food Service Management Institute

Purchasing food service equipment and/or planning new and renovated school nutrition facilities can be one of the most challenging projects for school administrators. Success with these projects can be achieved by communicating with professionals in the industries of school food and nutrition, engineering, and architecture.

There are many aspects that need to be considered. When you take into account the rapidly changing architecture technology, the constantly evolving school food nutrition requirements, and student preferences, it is essential to design school cafeterias that are functionally sound, financially and operationally efficient, and student relevant.

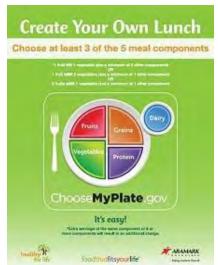
A state-of-the-art school cafeteria and operation can make a significant impact on student participation in the child nutrition program and thereby on student performance.

Furthermore, with the increase in the number of summer or after-school feeding programs across the country, and especially in urban settings, school cafeterias are evolving into areas for community centers, parent open houses, and other common meeting places, acting as living rooms for the broader community we serve.

Key Considerations in Designing a Successful School Food Operation and Cafeteria

Increased Emphasis on Health and Wellness

• The Healthy, Hunger-Free Kids Act of 2010, championed by First Lady Michelle Obama and signed by President Obama, authorizes funding and sets policy for the United States Department of Agriculture (USDA) core child nutrition programs, including the National School Lunch Program and National School Breakfast Program. Through this Act, the USDA made the first major changes in school meals in 15 years to help ensure a healthier generation of children. These changes are intended to significantly benefit the long-term well-being and success of today's students.



• Even prior to the Healthy, Hunger-Free Kids Act of 2010, during the Child Nutrition and WIC Reauthorization Act of 2004, and in addition to wellness policies on food and nutrition education, there were ramifications and policies focusing on the food environment, food service operations, and even food service equipment and design. For example, local policies might suggest the following in regard to the eating environment:

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Increased Emphasis on Health and Wellness (continued)

- Dining areas should be clean, attractive, well lighted, and well maintained and should provide adequate time and space to eat meals.
- Dining areas should be designed to minimize the amount of time that students spend waiting in line.
- Safe drinking water and convenient access to facilities for hand washing and oral hygiene should be available during all meal periods.
- Dining areas should consider additional wellness messaging in their design, such as the need for signage or demonstrations that incorporate wellness education.
- The increased emphasis on healthy methods of cooking has also changed the types of equipment that used to be standard in food service kitchens. For example, instead of deep- fat fryers that once were included in kitchen preparation areas, steamers and convection ovens are now a more suitable replacement.

Food Security and Emergency Preparedness

Food security and emergency preparedness are very real issues for today's school nutrition programs. Crisis management may include having a plan in place in case of lockdown of a school building. Such a crisis may require schools to plan food to accommodate a different number of students, particularly for centralized or satellite operations. Security planning may include additional locking, camera, or communication systems, such as phone tree networks, or an NOAA radio which was originally used to transmit weather-related information, but can also be used to communicate other alerts and emergency



Emergency planning for natural disasters is also receiving renewed attention, both from the standpoint of planning for evacuation and for sheltering in place. The idea of sheltering in place as a response to an emergency situation may mean that schools must contend with the possibility that a major incident might necessitate keeping students at school for longer periods of time, such as days rather than hours. The use of schools for emergency shelters for both students and residents of the community has also become a priority planning issue with disasters such as Hurricane Katrina.

Alternate Food Production Systems

information.

Labor shortages are not new, but continue to be a concern across the entire food service industry, including schools. To answer this problem, some large school districts such as HISD have switched to centralized production facilities. Although high school kitchen designs tend to focus more on fresh on-site cooking, often in view of the customer service area, many high-use items can be prepared in the central location and supplied to the school campus to eliminate preparation time and deliver consistent, safe products for menu incorporation. This method reduces equipment, inventory, and storage needs in school sites. In most cases, it can reduce overall labor or, at a minimum, redirect labor to a front-of-the-house customer focus.

This is especially critical with older student customers.

Smaller and More Mobile Equipment

Newer equipment trends include a focus on smaller equipment and more mobile units, particularly for self-service areas such as salad, deli, or fruit and vegetable bars. Smaller and more mobile equipment offers the maximum flexibility to accommodate daily, as well as long-term menu needs. In addition, smaller, more mobile equipment also allows the service of food in schools in non-traditional locations.

Equipment with New or Blended Technologies

Cooking equipment with multiple or blended cooking options has become more common. Blended cooking equipment offers efficient and faster cooking. Examples include:

- Combi-ovens which offer the opportunity to cook with or without steam
- Central cooking units or "mono-blocks" may include gas burners, induction cooking plates, electric solid tops, wok ports, etc.
- · Combined convection and microwave systems
- Combined lightwave and microwave ovens

Combination technology is now being found in other areas besides cooking equipment. Blixers or combination blenders and mixers are a more versatile and powerful option in food preparation. Conversely, more specialized equipment is also popular. Although not as commonly purchased in schools, bagel mixers, pizza ovens, and specialty coffee equipment have become popular in commercial restaurants.

Labor-Saving Options

Automation of equipment has already been used as one solution to the labor shortage in quick service restaurants. While schools may not be able to take advantage of this solution as completely as other segments of the food service industry, purchasing equipment that enables labor savings is one way to combat the labor shortage. Options that schools have installed include self-cleaning or descaling systems on certain types of equipment such as steamers, or water washing hoods that can be pre-set to wash when they are not being used. A trend toward manufacturing equipment with built-in maintenance operations is being observed across the board for many types of equipment. As it becomes a value-added feature, it may also reduce warranty cost.

Better Ventilation

Newer technology in ventilation systems allows for more comfortable work environments. Newer technologies include ventless hoods and cooking equipment that have been developed to allow the use of equipment outside of a ventilation hood; an example would be some specialty steamers. Local regulations should be followed in regard to the use of these; however, some schools have profited from the expanded cooking area. Less equipment underneath the hood might also be considered energy saving as it decreases the load on the heating, ventilation, and air conditioning (HVAC) systems. Due to increasing energy costs, the goal to minimize ventilation needs is also a trend for the future. In addition, ultraviolet hoods are now available for cleaning grease that accumulates in and above range filters and ducts.

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Increased Emphasis on Food Safety

Implementation of HACCP (Hazard Analysis Critical Control Point)-based Standard Operating Procedures is required in all areas of the school food service operation shown below:

- · Improved chilling of foods with smallwares and refrigeration equipment
- Better temperature tracking with faster and more convenient types of thermometers (for example, thermocouple and infrared thermometers) as well as more efficient documentation systems
- Decreased cross-contamination with equipment and supplies using color-coded methodology
- Greater availability of equipment that meets HACCP standards
- More effective hot- and cold-holding of foods
- Greater emphasis on equipment that is easy to clean and sanitize, as well as more effective, easier-to-use cleaning supplies
- Equipment systems that are integrated into computerized smart systems for better tracking and efficiency

Incorporation of Electro-Processors and Computers into Equipment

The use of electro-processor-based controls from electro-mechanical controls has become the standard. Electro-processor-based controls may be seen as digital read outs, touch pads, and other computer programming options. As these controls have become more reliable and multi- functional, they also have become smaller.

This enhancement results in a smaller piece of equipment with the same or greater production capacity. Programmable equipment can also result in significant energy savings if it is used to adjust equipment settings during periods when the equipment is not needed. It has been used extensively for heating, ventilation, and air conditioning systems, but is also possible in other areas.

Computer technology also includes computer monitored freezer alarms that will dial the central office or designated manager's home phone if the temperature falls to a certain level. Food loss can be avoided and food safety maintained with the proper use of these alarm systems. Computers can even be used to track defrost cycles and how long the freezer doors remain open.

Smart kitchens are one of the latest trends that make a great deal of sense in light of today's energy concerns. In a smart kitchen, equipment is hooked up to modems to remotely monitor temperature changes, malfunctions, and data related to food safety, as well as data related to food quality. Smart systems are a wave of the future for efficiency, quality, and control, but require greater investment to start. Examples of equipment that could be hooked up to smart systems include warewashers, blast chillers, walk-in and other refrigerators, and cooking equipment, as well as heating, ventilation, and air conditioning systems.



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Construction materials have also evolved. Although stainless steel will continue to be viewed as one of the most durable materials, newer materials are being developed that are attractive and less expensive, yet still very practical. Some of these materials even incorporate additional benefits, such as antimicrobial properties. Examples range from colorful porcelain or enamel on equipment surfaces to the use of new materials such as silicone for smallwares. Silicone bakeware offers unique properties for insulation, but is considerably more expensive than metal bakeware and is not as likely to be used in volume preparation. Color-coded cutting boards, utensils, and plastic boxes offer food safety protection through their ability to identify their separate use for different food products, such as poultry, beef, and vegetables, thus minimizing the risk of cross-contamination.

Environmentally Friendly Equipment

Manufacturers are adapting equipment to meet growing environmental concerns. These concerns include energy use, air quality, water quality, and water use. Other environmental trends include reflective window glass, products made from recyclable materials, or energy-saving equipment. For example, air-cooled ice machines may be selected over water-cooled ice machines.

Consumer Trends

Changing lifestyles have affected the way we serve food in school cafeterias. There are many factors that contribute to this:

- Changing Lifestyles: Students are clearly more savvy and sophisticated in their tastes and desires for food service. Students have higher expectations resulting from their dining out experiences. Their expectations demand a wider variety of foods, better quality, increased food service choices, and an enhanced dining atmosphere. Students expect what they see in retail food courts or restaurants.
- Dining Environments: Student demands include more variety including "ethnic" menu items that are served in retail-like environments that offer convenience. Historical "scramble" or "single line serving" systems are not sufficient to satisfy the needs of these increasingly demanding and savvy students. There also is an increasing requirement to focus on the student as a "customer" instead of as a "captive audience."
- Convenience: Speed of service is a significant determining factor in the success of the food service operation as students simply do not want to wait in line. As a result, multiple service points are becoming the norm in new school cafeteria designs. Nationally, students have 22 minutes on average to pick up their food and eat. Most students prefer to spend this time eating and socializing with their friends rather than waiting in line.

According to the student ViewPOINT™ survey conducted by ARAMARK Education in 2012 among 42,000 students across the country:

- Of the students who skip lunch or do not eat at the cafeteria, 53 percent of them stated that long lines are the main reason why they do not eat at the cafeteria one or more days in a week.
- Eighty percent of the students stated that shorter lines or line speed is an important factor when they decide whether or not to get lunch at school.



Service Trends

The trends being observed in new school food service programs include a blend of self-service and multiple points of employee service with greater showcasing of food. This includes more open kitchen/preparation areas allowing for some part of the food preparation to be seen and appreciated by the student customer. Rounding out this trend is the food service operations' use of school kitchens to prepare meals for non-student populations. If a school program provides meals to groups outside of the school population or is considering it in the next five years, there may be an additional set of customer expectations to address in the purchase of food service equipment.

A guiding principle when making equipment purchasing decisions should be flexibility to meet future needs of the changing customer base. This will allow operations to handle incoming fads and long-term trends while maintaining operational viability.

Food Court Concepts

The food court design has been an extremely popular trend where students select from various specialty stations, such as burger bars, deli stations, and taco bars. This allows the students to wait only at the stations of their choice and go to different stations depending on their preference for the day. These kiosks or stations should consider providing standard pieces of equipment in each station so flexibility is retained when menus are redesigned as student tastes change.

Alternative Service Points

Quick service walk-up windows are being offered in some schools with positive outcomes. These service points can be in addition to the food court concept as an alternative point of service for the student population to be able to "grab and go." Schools also feel that the window service allows additional opportunities beyond the normal meal service periods. Clubs, for example, may use the windows after hours to sell concessions for different events at the school.

Speed Lines

Speed lines provide a fast system where multiple points of service are offered. Foods may include pre-wrapped products such as fresh salads, bagged lunches, breakfast meals, or other grab-and-go healthy options. Lines are often double-sided and the focus is on efficient movement for students on the go.

Kiosks and Food Carts

Kiosks offer food for faster service at small, mobile, free-standing carts. This increases and/or diversifies the number of service locations offered. It also enables higher participation as we are able to take more options to the students in places such as hallways, entrances, and gymnasiums.



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Exhibition-Style Cooking

Some form of display cooking or custom assembly of food right in front of the customer's view adds to a preferred perception of quality and freshness. Savvy students of all ages are catching on to the resurgence of "fresh is best." Television cooking channels also continue to push this approach as well as increasing the popularity of cooking "from scratch."

In order to meet customer demand for freshness, high schools may choose to include exhibition-style cooking at some service points. Panini grills, conduction cook tops, woks, grill/broilers, and pizza impinge (conveyor) ovens are often incorporated in cooking areas behind the service stations. Given the high volume of typical school lunch period customer traffic, these stations are limited to certain service points and are incorporated into serving areas offering more traditional speed-of-service and grab-and-go stations to meet volume demands. They serve to pique customer interest and sales and should be versatile to meet changing student preferences.

Critical Needs List

Following site visits to a number of Texas schools a broader group of HISD Food Services/ARAMARK operations and support services senior team members reviewed the findings and discussed key local considerations for an HISD facility. The group included leaders from maintenance, quality control, operations, warehouse and distribution, marketing, and administrative staffs. The following five factors were determined to be the critical drivers to successfully achieving HISD's food service's end goal:

- 1. Key regulatory considerations/National School Lunch Program requirements:
 - a. HISD should continue offering a large variety of fresh fruit and vegetables with every meal. Adequate and refrigerated merchandising space is needed on each service line.
 - b. The POS (point-of-sale) units must be located at the end of the serving line after all food and beverages have been served in order to comply with NSLP regulations.
 - c. To comply with NSLP potable water access regulations, water fountains must be located in the dining area.
- 2. Changing trends in menus:
 - a. Student ViewPOINT surveys conducted over the last three years in all HISD middle and high schools show the consumer preference to continue popular build-your-own style serving options for our students.
 - Relevant concepts and environments where students want to eat must be offered.
 - c. Serving lines need mobile serving equipment and versatile cooking equipment to change menu theme with consumer preference. For example, this could include a grill station that can



Home Zone Concept
Traditional and fresh fare; build-your-own
meal as you like it

FURR HIGH SCHOOL

double as a Mexican theme station (including fresh tortilla grilling and live action preparation of items) without major equipment change.

- d. The HISD Parent Advisory Committee recommends that small high schools be afforded full-service menu options with a cooking facility versus a noncooking satellite setup whenever possible.
- 3. The HISD Food Services Support Facility (FSSF) production model:
 - a. Specialized small equipment needs will be kept to a minimum as all HISD campuses are supplemented with prepared foods from the Food Service Support Facility.



Corner Crust Original Pizza & Pasta Made fresh and daily: pizza, salads, calzones,and made-to-order pasta

- b. Storage space needs are significantly less than the NFSMI standard as the FSSF warehouse and production center controls the product delivery schedule and menuing. Inventory levels in HISD campuses are tightly controlled.
- c. With the production facility supplementing food production, site staffing should meet service model requirements with the majority of staff assigned to the serving line area for speed of service at an average of 17 students per minute.

4. Design by enrollment:

a. The size and number of serving areas should adjust and vary with enrollment.
 À la carte serveries were deemed necessary at all campuses, with smaller locations serving less enrollment receiving smaller à la carte serving areas.

5. Equipment considerations:

- a. Equipment quantities will adjust with enrollment size, although the type of equipment would be standard for most school models.
- b. Walk-in freezers should open into coolers to temper air.
- c. Cook lines should be separated in larger kitchens to manage the work flow of traffic efficiently and to avoid unsafe conditions.



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ARAMARK Marketing and Design Services Engagement

ARAMARK regional and national marketing representatives were engaged to discuss consumer trends in dining and service concepts to ensure that the proposed cafeterias for HISD 2012 Bond High Schools would be in line with cutting-edge marketing trends. John Kandemir, Vice President of ARAMARK Education Marketing, and Rick Ward, Regional Marketing Director, were consulted for their expertise in consumer trends and operational design to meet consumer expectations.

John and Rick monitor the latest research from education organizations, K–12 publications, industry experts, and agencies to stay abreast of K–12 legislation, regulations, and food and customer trends. Providing their expertise and support to more than 400 school district partners across the country, they complement their research with a proprietary ViewPOINT Survey to provide an integrated 360-degree view of the K–12 environment that delivers insight for school- specific improvements and innovation. The local HISD ViewPOINT Survey results were considered in developing this document.

ARAMARK Capital Projects' design experts were also consulted for their expertise and validation of our plan direction. Their group connects resources, guides capital project innovations, and educates the company and its partners on ways to maximize investment value. They are responsible for ARAMARK's creation and management of dining concepts, facility design standards, and managing our network of equipment and smallwares relationships. The Associate Vice President of Project Development, Michael Bolanos; Director of Project Execution, Bill Miller; and Project Agent, Mark Bond, were specifically consulted in our planning.

Last year they supported more than 500 facility and food concept design projects throughout ARAMARK. The K-12 district partners made up over 200 of these projects, including the concept development of the 75 new build-your-own service lines recently installed in HISD high schools. Their expertise, feedback, and support have been invaluable in the development of the enclosed plan.

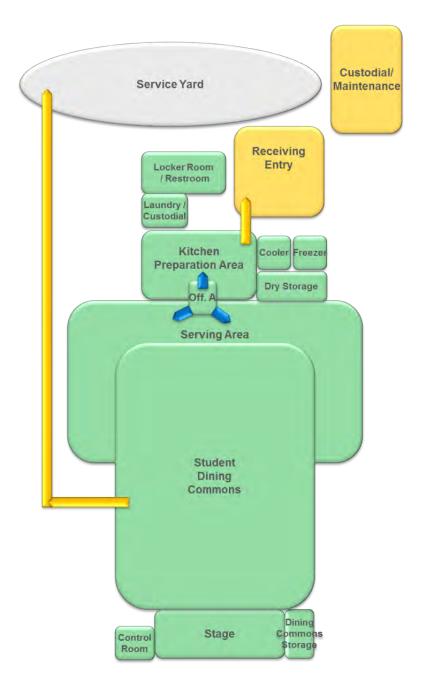
The facilities described on subsequent pages provide for the preparation and serving of food to the students, staff and faculty. The Dining Commons serves not only as a place for eating but also a location used by the school for assemblies and student performances.

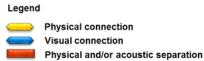
These facilities should be located in close proximity to the Custodial/ Maintenance area so that the receiving area can be shared.

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The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



Space Requirements

	Required Spaces			
Food Service	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Kitchen Preparation Area		1	1,474	1,474
Serving Area		1	1,665	1,665
Dry Storage		1	328	328
Freezer		1	240	240
Cooler		1	240	240
Kitchen Manager's Office		1	104	104
Laundry/Custodial Area		1	75	75
Locker Room/Restroom		1	119	119
Student Dining Commons (seating for 1/3 of students at one time plus 200 for dining)		1	5,132	5,132
Dining Commons Storage		1	278	278
Total	0			9,655



Food Service

Kitchen Preparation Area

USERS:	ACTIVITIES:
Manager	Preparation of food
Food Service Staff	Cooking foods
	 Staging meals before moving to serving lines
	Cleaning equipment, work surfaces and floors
DECICAL CONCIDED ATIONS	

DESIGN CONSIDERATIONS:

- Equipment shall be located under two exhaust hoods located in close proximity to serving areas.
- Gas line to be exposed with additional electric circuit for expansion.
- Fire protection system add one floor sink and water connection under each hood.
- Doorbell at receiving should be audible in Food Preparation Area.
- Allow space to store Utility Carts.
- Provide a minimum of 4' 0" wide doors.
- Provide window, peep hole or camera for visibility of persons making deliveries to those receiving deliveries.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- Markerboard
- Tackboard
- Cookline:
 - 2- Vent Hoods, 15' min. size each
 - Fire Protection System
 - 2- Convection ovens, double
 - 1- (4) Burner Range convection oven
 - 2- Steamer Electric w/stand
 - 1- Oven
 - 1- Two comp. sink w/disposal
 - 1- Disposal
 - 4- work tables min., number as needed
 - 10' Worktable w/ utility rack located in front of cook line, number as needed

- 8- Pan Racks (Bun rack)
- 1- Three compartment sink w/shelf
- Mobile Utensil shelf, number as needed
- 1- Ice machine w/bin
- 8- Utility Carts
- 8- Dolly, Milk Case
- 8- Camcarts (1 cart for every 100 students)
- Small Wares package(s), as needed
- 2- Manual Can openers
- 1- Commercial Blender

Owner Furnished - Contractor Installed

- Soap Dispensers
- Paper Towel Dispensers

Owner Furnished - Owner Installed

Clock(s)

FURR HIGH SCHOOL

Food Service

Serving Area

USERS:	ACTIVITIES:
Kitchen Manager	Serving food
 Food Service Staff 	Receiving payment for food
Students	
Faculty	

DESIGN CONSIDERATIONS:

- Equipment is based on a minimum of 3 lunch periods.
- Serving will be in a food court design number of stations dependent upon school capacity.
- If more than four stations, one station to be separate from kitchen so it can be used by school organizations after hours.
- Doorbell at receiving should be audible in Serving Area.
- Provide a minimum of 4'-0" wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 2- Traditional (Standard Serving Lines)
 - 1 Cold Display Merchandiser, 3' min.
 - 2- 3' Serving Unit Pan Flat
 - 1- 5' Serving Unit Pan Hot
 - 1- 3' Serving Unit Pan Cold
 - 1- Cold Tier Hot/Frost
 - 1- Cash Table
- 2- Specialty Line
 - 2- Cold Tier Hot/Frost
 - 1- 2' Serving Unit Pan Cold
 - 1- 3' Serving Unit Pan Flat
 - 1- 4' Serving Unit Pan Hot
 - 1- 3' Serving Unit Pan Cold
 - 1- 2' Serving Unit Pan Flat
 - 1- Cash Table
- 1- Snack and Go
 - 5-5' Serving Unit Pan Flat
 - 4- 2' x 3' Flat Table
 - 2- Table Top Cold Unit
 - 2- 3' Hot Gravity Feed
 - 3- Cash Tables
- 1- Heated Cabinet, 2 Door, pass thru preferred
- 1- Refrigerator, 1 door, pass thru preferred
- Back Counter, as needed
- Multi-fold Hand Towel Dispensers
- Soap Dispensers
- Electronic Display (Menus) One for each serving line

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed

- Point Of Sale (POS) Units One for each serving line
- Adjustable height stools One for each serving line
- Clock(s)





FURR HIGH SCHOOL

Food Service

Dry Storage

USERS:	ACTIVITIES:
Food Service Staff	Storing dry food / supplies

DESIGN CONSIDERATIONS:

- Locate Dry Storage near Kitchen Preparation Area
- Locate Dry Storage for easy access to Receiving Entry
- Provide security camera to monitor entrance
- Provide a minimum of 4' 0" wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 2 Can Racks gravity fed
- Dry Storage Shelving, solid, as needed
- Dunnage Racks, solid, as needed

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed



Food Service

Freezer

USERS:	ACTIVITIES:
Food Service Staff	Storing frozen food
DECICAL CONCIDED ATIONS.	

DESIGN CONSIDERATIONS:

- Locate freezer near Kitchen Preparation Area and have it open from Cooler.
- Enter freezer through cooler
- Locate for easy access to Receiving Entry
- Provide computerized remote monitoring system.
- Provide a minimum of 4' 0" wide door

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

- 1- Walk-in Freezer TN-078, walk thru evenly spaced, min. 400 sq. ft.
- 2- Dunnage Racks, (Vented cold storage)
- Cold Storage Shelving, vented, number as needed.

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed





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Food Service

Cooler

USERS:	ACTIVITIES:
Food Service Staff	Storing cold foods
	Defrosting frozen food

DESIGN CONSIDERATIONS:

- Locate cooler near Kitchen Preparation Area and have it open into both Prep and Freezer
- Locate cooler/freezer for easy access to Receiving Entry.
- Provide computerized remote monitoring system
- Provide a minimum of 4' 0" wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 1- Walk-in Cooler, walk thru evenly spaced, min. 400 sq. ft.
- 2- Dunnage Racks, (Vented Cold Storage)
- Cold Storage Shelving, vented, number as needed

Owner Furnished - Contractor Installed

None

Owner Furnished – Owner Installed



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Food Service

Office A (Kitchen's Manager's Office)

 Manager Filing out Food Service documentation Reviewing employee request Ordering supplies Counting cash 	USERS:	ACTIVITIES:
	Manager	Reviewing employee requestOrdering suppliesCounting cash

DESIGN CONSIDERATIONS:

- Locate manager's office in a central location to allow visibility into kitchen prep area, service line holding area and receiving.
- Provide window, peep hole or camera for visibility of person receiving deliveries.
- Provide windows above 3' to below ceiling on all sides.
- Doorbell at receiving should be audible in Kitchen Manager's Office and Kitchen Preparation Area.
- If camera is provided it needs to be monitored through the computer system in the office.
- Combination safe should be secured to the building in a non-visible space in the office.
- Provide minimum of 4' wide doors.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 1- Combination Safe
- 4' x 4' marker board
- 4' x 4' tack board

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- Desk
- 1- Task Chair
- 1- Guest Chair
- File Cabinet
- Bookcase
- Blinds
- Clock
- Printer
- Computer
- Trash cans



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FURR HIGH SCHOOL

Food Service

Laundry / Custodial Area

USERS:	ACTIVITIES:
 Manager 	Washing food prep clothes and aprons
 Food Service Staff 	Drying food prep clothes and aprons
	Storing cleaning supplies
	Storing cleaning equipment
	Cleaning mops
DEGLOS CONCIDED ATION	

DESIGN CONSIDERATIONS:

 Provide sufficient ventilation to prevent fumes from cleaners from damaging mother boards in washer and dryer. Alternatively, provide separate rooms for

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 1- Washer
- 1- Dryer
- · Shelving, composite, as needed
- Mop/Broom Rack
- Mop Sink

Owner Furnished – Contractor Installed

• Paper Towel Dispenser

Owner Furnished - Owner Installed





Locker Room / Restroom

USERS:	ACTIVITIES:		
Kitchen Manager	Staff clothes changing		
 Food Service Staff 	Storing of personal items by Staff		
DESIGN CONSIDERATIONS:			
 Provide floor drains with ea 	asy access clean-outs.		
FURNITURE, FIXTURES & E (QUIPMENT:		
Contractor Furnished – Cont	tractor Installed		
8-10 Lockers min.			
Coat Hooks			
Owner Furnished - Contract	or Installed		
 Paper towel dispenser 			
Soap dispenser			
Toilet paper dispenser			
Owner Furnished – Owner Installed			
Bench			
Clock			

OR DEAT

HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Food Service

Student Dining Commons

USERS:	ACTIVITIES:
Kitchen ManagerFood Service StaffStudentsFaculty	EatingStudent AssemblySocial Gathering
1 douity	

DESIGN CONSIDERATIONS:

- Provide access from Dining Commons to dumpster area without going through Kitchen Prep.
- Include drinking fountains in the Dining Commons per code
- Provide area for future addition of vending machines

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- 4' x 8' Tack board(s)
- Connections for projectors
- Sound System, to balance sound throughout the room
- Electronic Display
- Charging stations, as needed

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- Tables and chairs for 1/3 of the program capacity plus 200 for dining
- Size and shape of tables should be varied to prevent an institutional appearance
- Clock



Food Service

Student Dining Commons – Storage

USERS:	ACTIVITIES:			
Kitchen ManagerFood Service StaffStudentsFaculty	 Storing dining tables and chairs Storing dining room equipment 			
DESIGN CONSIDERATIONS	S:			
None				
FURNITURE, FIXTURES & E	EQUIPMENT:			
Contractor Furnished – Contractor Installed				
None				
Owner Furnished – Contractor Installed				
None				
Owner Furnished – Owner Installed				
Cart for Chairs				
Cart for Tables	Cart for Tables			



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HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL



CUSTODIAL / MAINTENANCE



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



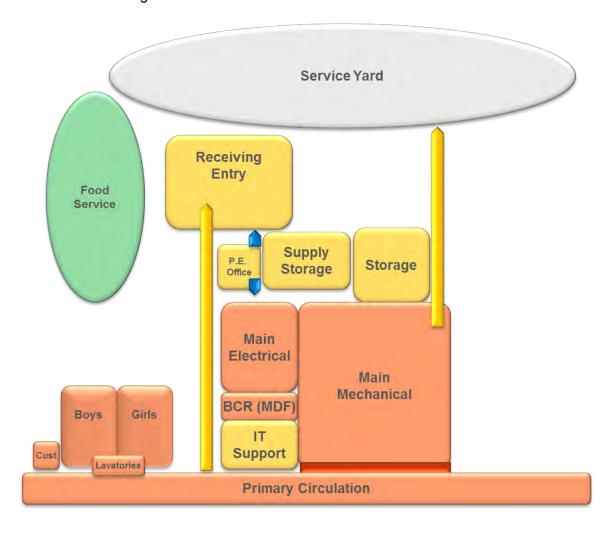
OF DESCRIPTION OF THE PROPERTY OF THE PROPERTY

Custodial / Maintenance

Overview:

These facilities provide for the cleaning and maintenance of the facility and include not only spaces dispersed throughout the school, but also central facilities for receiving, inventorying and storing supplies and equipment.

The centralized facilities should be located in close proximity to the Food Service area so that the receiving area can be shared.





The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.



FURR HIGH SCHOOL

Space Requirements

	Required Spaces			
Custodial/Maintenance	Teaching Stations	Quantity	Average Square Feet	Net Area Provided
Receiving Entry		2	300	600
Office, Plant Engineer		1	83	83
Custodial/Maintenance Storage		1	225	225
Supply Storage		1	300	300
IT Support (locate centrally)		1	159	159
Custodial Closet		4	126	505
Total	0			1,872





Custodial / Maintenance

Receiving Entry

ACTIVITIES:
Filing out documentation for receipt of goods
Receiving miscellaneous school supplies
Receiving equipment
Receiving food deliveries
Disposal of school & food service waste

DESIGN CONSIDERATIONS:

- Provide space for a minimum of waste bins and recycle bin in Service Yard.
- Loading area is not to be a dock, but a curb.
- Provide doorbell that will be audible in kitchen.
- Provide window, peep hole or camera for visibility of persons making deliveries to those receiving deliveries.
- Provide bollards to prevent damage to buildings

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

• None

Owner Furnished – Contractor Installed

None

Owner Furnished - Owner Installed



FURR HIGH SCHOOL

Custodial / Maintenance

Plant Engineer's Office

Tidit Engineer 5 embe		
USERS:	ACTIVITIES:	
Plant EngineerCustodial Staff	Office functions for Plant EngineerRepairing equipment using hand tools	
Maintenance Personnel	Scheduling of custodial staff	
	Reviewing staff requests	
DESIGN CONSIDERATIONS:		
View to Receiving Entry		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
4' x 4' Tack board		
4'x4' Marker board		
Owner Furnished – Contractor Installed		
None		

- Owner Furnished Owner Installed
- Desk
- Filing cabinet
- Task chair
- Guest chair
- Bookcase

FURR HIGH SCHOOL

Custodial / Maintenance

Storage

USERS:	ACTIVITIES:
Plant Engineer	Repairing equipment using hand tools
Custodial Staff	Storing miscellaneous building supplies
Maintenance Personnel	Storing building maintenance equipment
DESIGN CONSIDERATIONS:	

None

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished – Contractor Installed

3 locking cages to secure equipment/supplies

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- 30" x 48" table
- 2- Chairs
- 3 tall deep heavy duty shelf units
- Maximum LF of 24" D x 84" H x 16' L heavy duty open adjustable shelving on perimeter



FURR HIGH SCHOOL

Custodial / Maintenance

Supply Storage

USERS:	ACTIVITIES:	
Plant Engineer	Storing miscellaneous school supplies	
Custodial Staff	Storing school furniture	
	Storing school equipment	
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
None		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
Adjustable metal shelving		



Custodial / Maintenance

IT Support

11 Support			
USERS:	ACTIVITIES:		
IT Personnel	Store IT equipment		
Plant Operator	Repair IT devices		
DESIGN CONSIDERATIONS:			
None			
FURNITURE, FIXTURES & EC	QUIPMENT:		
Contractor Furnished - Cont	Contractor Furnished – Contractor Installed		
None			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
• 30 x 60 Table			
2 Chairs			
Adjustable shelves			



FURR HIGH SCHOOL

Custodial / Maintenance

Custodial Closet

USERS:	ACTIVITIES:	
Plant Engineer	Storing of Mops and Brooms	
Custodial Staff	Cleaning of mops and other custodial equipment	
DESIGN CONSIDERATIONS		
Locate throughout school		
FURNITURE, FIXTURES & E	QUIPMENT:	
Contractor Furnished – Contractor Installed		
Mop Sink		
Mop and Broom Rack		
Owner Furnished – Contractor Installed		
None		
Owner Furnished – Owner Installed		
Metal shelving unit		





BUILDING SUPPORT



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014

CONSTRUCTION AND FACILITY SERVICES FACILITIES PLANNING



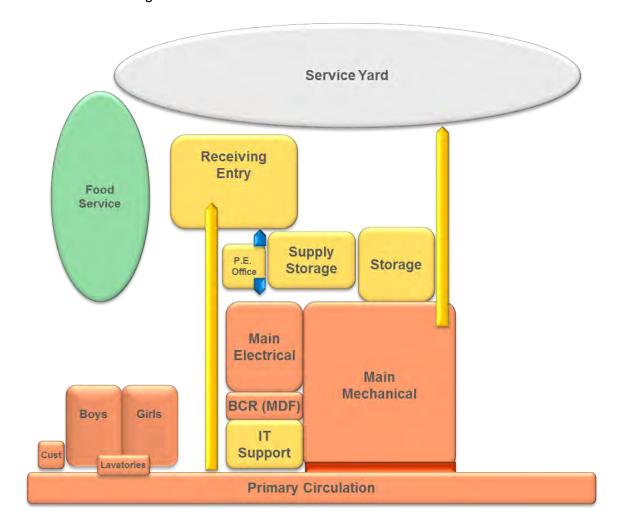
FURR HIGH SCHOOL

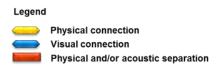


Overview:

These facilities provide for centralized building services including electrical and mechanical necessary for the operations of the building, but also service areas that are located throughout the building.

The centralized facilities should be located in close proximity to the Food Service area so that the receiving area can be shared.





The functional relationships illustrated are diagrammatic only. Further interpretation of these relationships shall be implemented by the Design Team.

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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Building Support

Corridors

USERS:	ACTIVITIES:
Students	Circulation of occupants
Faculty	 Displaying awards, pictures, student work and school
Staff	announcements
 Visitors 	

DESIGN CONSIDERATIONS:

- Lockable display cases are encouraged for the displaying of awards, pictures, school announcements and student work.
- Minimum corridor widths are:
 - Serving more than two classrooms: 8' 0"
 - Serving more than eight classrooms: 9' 0"
 - Major corridor: 12'-0"
 - Lockers along one wall: add 2'-0"
 - Lockers along two walls: add 3'-0"

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Lockable display cabinets
- Tack board / Tack wall

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed



Building Support

Group Restrooms

USERS:	ACTIVITIES:
Students	Personal hygiene
DESIGN CONSIDERATIONS:	

- No corridor doors
- Differentiate finishes between male and female restrooms to assist in identifying them
- Locate male and female restrooms to alleviate the possibility of accidently entering the wrong facility.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

Mirrors (locate so that they are not above sinks)

Owner Furnished – Contractor Installed

- Paper towel dispensers
- Soap dispensers
- Toilet paper dispensers

Owner Furnished - Owner Installed





FURR HIGH SCHOOL

Building Support

Single Restrooms

USERS:	ACTIVITIES:	
Faculty	Personal hygiene	
Visitors		
DESIGN CONSIDERATIONS:		
None		
FURNITURE, FIXTURES & EQUIPMENT:		
Contractor Furnished – Contractor Installed		
Mirrors		
Owner Furnished – Contractor Installed		
Paper towel dispensers		
Soap dispensers		
Toilet paper dispensers		
Owner Furnished – Owner Installed		



Building Support

Main Mechanical

USERS:	ACTIVITIES:		
Plant Operator	Mechanical Equipment which heats and cools school		
Maintenance Staff	Repairing Mechanical Equipment		
	Servicing Mechanical Equipment		
DESIGN CONSIDERATIONS:			
Size overhead coiling door	Size overhead coiling doors to allow for replacement of equipment		
FURNITURE, FIXTURES & EQUIPMENT:			
Contractor Furnished – Contractor Installed			
Mechanical Equipment			
Owner Furnished – Contractor Installed			
None			
Owner Furnished – Owner Installed			
None			



FURR HIGH SCHOOL

Building SupportMain Electrical

USERS:	ACTIVITIES:
Plant Engineer	Electrical Equipment for school's electrical needs
Maintenance Personnel	Repairing Electrical Equipment
	Servicing Electrical Equipment
DESIGN CONSIDERATIONS:	
Attempt to locate so not below "wet" spaces.	
FURNITURE, FIXTURES & EQUIPMENT:	
Contractor Furnished – Contractor Installed	
Electrical Equipment	
Owner Furnished – Contractor Installed	
None	
Owner Furnished - Owner Ir	nstalled
None	



HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL

Building Support

BCR - Building Communication Room (MDF)

FCR - Floor Communication Room (IDF)

USERS:	ACTIVITIES:
Plant Engineer	House IT equipment
IT Personnel	House mission critical equipment (i.e. fire alarm, burglar
	alarm, intercom)

DESIGN CONSIDERATIONS:

- Maintain a temperature of 40 degrees in the BCR.
- Locate FCRs so that serve an area within a 190 foot radius.
- In a multi-story building, FCRs shall be stacked.

FURNITURE, FIXTURES & EQUIPMENT:

Contractor Furnished - Contractor Installed

- Fire Rated Plywood on a minimum of 3 walls
- Fire alarm
- Intrusion alarm

Owner Furnished - Contractor Installed

None

Owner Furnished - Owner Installed

- IT Racks
- IT Equipment



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HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Building Support

Stairs

None

USERS:	ACTIVITIES:
 Students 	Vertical circulation for building occupants
Faculty	
Staff	
 Visitors 	
DESIGN CONSIDERATIONS:	
 Visual supervision of stairs 	s from corridors should be maintained
 Multiple staircases for stud 	dent circulation should be considered rather than a single
monumental stair	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished – Con	tractor Installed
None	
Owner Furnished - Contract	or Installed
 None 	
Owner Furnished - Owner Ir	nstalled

HISD EDUCATIONAL SPECIFICATIONS

FURR HIGH SCHOOL

Building Support

Elevator

USERS:	ACTIVITIES:
Students	Vertical circulation for building occupants
Faculty	·
Staff	
Visitors	
DESIGN CONSIDERATIONS:	
Key operated only	
FURNITURE, FIXTURES & E	QUIPMENT:
Contractor Furnished - Con	tractor Installed
None	
Owner Furnished - Contract	or Installed
None	
Owner Furnished - Owner Ir	stalled
None	



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HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL





HISD EDUCATIONAL SPECIFICATIONS FURR HIGH SCHOOL – MAY 19, 2014



General Notes

- G1. Provide base as appropriate for flooring material, for concrete provide flexible base.
- G2. Provide acoustical wall treatment as appropriate for all open, tall and / or noise producing spaces.
- G3. All materials should be easily sanitized and long wearing.
- G4. Ceiling Heights shall be 9'-0" minimum, 10'-0" maximum, unless noted otherwise on Matrix
- G5. Terrazzo may be used as a floor finish in high traffic areas if project can bear the additional cost.
- G6. Use of carpet in non office areas must be approved by HISD.
- G7. The use of flexible furniture/equipment is encouraged. Built-in casework and shelving should be minimized-generally casework should only be provided where a sink is required.
- G8. All windows in spaces that are occupied on a regular basis shall receive shades or blinds.
- G9. All spaces to which a student may go shall have a visual connection (fixed window, door light or sidelight) to the adjacent space or circulation.
- G10. All spaces shown to receive an electronic whiteboard/projector by Owner should have blocking installed in the wall by the Contractor. The projector is integral to the board.
- G11. Provide acoustical wall treatment as appropriate for all open, tall and/or noise producing spaces.
- G12. Not Used
- G13. Consider the use of large tackable wall surfaces where tackboard is noted.
- G14. Data drops noted on the matrix do not include wireless access or video display connections. See Design Guidelines for number and locations of drops for these devices.

Program Specific Notes

- A. Continue flooring from corridor to front side of reception counter.
- B. Removable interlocking rubber tile floor designed for use in weight rooms shall be provided and installed by contractor over a permanent substrate.
- C. Two duplex outlets located in casework apron at each student station
- D. One duplex and data located for wall mounted display monitor
- E. Locate one set of drinking fountains in adjacent corridor.
- F. Provide floor drain at emergency shower/eyewash station. Provide acid resistant piping and neutralization.
- G. Provide system noted with an * if required for specific curriculum.
- H. Provide lockable storage, including one ventilated cabinet for paints and thinners. Coordinate mechanical for proper ventilation.
- I. Provide large deep sink for cleaning instruments.
- Provide large electrically operated, projection screen with projector
- K. Install an eye wash station at sink.
- L. Provide drinking fountain in or near treatment area.
- M. Wall and ceiling finishes of walk-in are by the manufacturer. Floor to match the floor in food preparation area
- N. Provide mop sink in Custodial area.
- O. Provide washer and dryer connections and sufficient ventilation in Laundry area.
- P. Plaster Traps at art sinks
- Q. Coordinate HVAC/Plumbing/Electrical requirements with equipment
- R. Provide permanent speaker system
- S. Provide double door with removable mullion at corridor.
- T. Provide electrical and data outlets as required by equipment layout.



HISD FURR HIGH SCHOOL EDUCATIONAL SPECIFICATIONS

								FINISH	ES											OPENIN	NGS							HVAC, P	LUMBI	NG AND	D ELEC	TRICAL						EQU	IPMEN	NT AND	SPECI#	AL SYSTE	.MS			
				FLOOR						PARTITI	ONS			CEI	LING				DOORS	i		w	INDOWS			HVAC		F	LUMBIN	G			ELECTRI	CAL			EQU	JIPMENT			BUILT	-INS	SP	ECIAL SYSTE	EMS	
	Carpet	Wood	Concrete Polished or Stained	Sports	Ceramic Tile	Quarry Tile Resinous	Resilient	СМО	Gypsum Wallboard	Ceramic Tile	Glass Wall	Folding Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard	Ceiling Height Min/Max	/ste	Hollow Metal Wood, plastic laminate	Roll-up, exterior-	insulated Roll-up, interior door/grille	View Lite	Interior	None	Daylighting	Exhaust to exterior	Fume/Exhaust Hood Dust Collection System		Natural Gas (double outlet @ each)	5.	Eye wash/Shower	Floor drain	Duplex	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	Markerboard	Tackboard / Tackwall Interactive Board	Projection Screen	Base Cabinets with Counters	Wall Cabinets	Tall Storage Cabinets	Built-in Shelves Phone	Sound Sytem and Microphone	Specialty	NOTES
Neighborhoods																																														
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Learning Commons/Extended Learning Area	Х		Х					Х	Х		x 2	(X	Х	Х		12/16	Х	Х		Х	Χ	Х		Х					2 cł	narging	areas	with 3	quads	e X			1	1 1					Х			D
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Special Education Learning Center			Х				Х	Х	х		x 2	(Х		9/10	Х	X			Х	Х		Х			1					8 1	. 6	Х			2	3 1			Ш		Х			G
Life Skills			Х				Х	Х	х		x 2	(Х		9/10	Х	X			Х	Х		Х			1					8 1	. 6	Х			2	3 1			Ш		Х			G
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Changing Room (Shower Area)					Х			Х	Х	Х					Х	8		Х					Х		Х		1				Х	1	1								Х					
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Behavior Center																																														
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Restrooms					Х			Х	Х	Х					Х	8		Х					Х		Х		1				Х	1	1								Х					
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Storage			Х				Х	Х	Х					Х		8		Х	(Х		Х									2										Х				



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Space Allocation Specific to Program																																													
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Learning Center B			х				х х	х х			Х	х х	х х		9/10			Х		Х		Х								8	3	6 X	х		2	3	1					Х		1	
Cadet Small Group Collaboration	х						х х	х х	ı	Х			Х					х		Х		Х								4	1	2 X	х		1	1						Х			
Arms / Weapons Storage		Х					х	х					х				7	Х			X	(2				
Uniform / Drill Team / Color Guard Storage		Х										Х	х х					Х			х	(4											2			1	
Instructors' Center			Х				х х	х х	ı				х				,	Х		Х	х	Х								4	1	2			1	1						Х			
Chair, table, target, storage		х										Х	х х					х			Х	(4											7				

HOUSTON INDEPENDENT SCHOOL DISTRICT CONSTRUCTION AND FACILITY SERVICES: FACILITIES PLANNING - MAY 19, 2014 www.houstonisd.org//Domain/7974



							FINISH	ES							Т				OPEN	INGS						HV	AC, PLU	IMBING	AND	ELECTR	ICAL				<u> </u>		E	QUIPMI	NT AN	D SPECI	AL SYS	STEMS			
				FLOOR					PARTITIO	4S			CEIL	LING				DOORS	5		WIN	IDOWS		HVA	ıc		PLU	MBING				ELECTRIC	AL			EQL	JIPMENT			BUIL	T-INS		SPECIAL S	SYSTEMS	
	Carpet	Wood	Concrete Polished or Stained Concrete	Sports Ceramic Tile	Quarry Tile	Resinous	СМИ	Gypsum Wallboard	Ceramic Tile	Markable Wall	Folding Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard	Ceiling Height Min/Max	Alumin / Storefront	Hollow Metal	Wood, plastic laminate Roll-up, exterior-	insulated Roll-up, interior	door/grille View Lite	Interior	None	Dayingin Exposure	Fume Hood	Dust Collection System	Sink	Natural Gas	Drinking fountain	Eye wash/Shower	Floor drain Duplex	Quad	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	Markerboard	Tackboard / Tackwall	Interactive Board	Base Cabinets with	Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	Phone Sound Sytem and	Microphone Specialty	NOTES
Visual Arts																																													
Visual Arts Learning Center			х			Х		Х)	X			Х		10-12			Х		Х)	(2)	X 8	4	6	Х			2	3	1	Х	Х		Х	Х		Р
Kiln Room			х			Х		х					Х					Х		Х		х	Х	(1				Х		Х	Х							Х	Q
Storage Room			Х			Х		Х					Х					х		Х		х																				Х			Н



								FINI	SHES											OPE	NINGS						HV	AC, PLU	IMBING	AND	ELECTRI	CAL						EQU	JIPMENT A	ND SPF	CIAL SY	YSTEMS				
				FL	OOR					PAF	RTITIONS			-	CEILING				DOORS	;		w	VINDOWS		HVA	AC .		PLU	MBING			E	ELECTRICA	AL			EQUIPME	.NT		BUI	ILT-INS		SPECIAI	L SYSTEMS	IS	
	Carpet	Wood	Concrete Polished or Stained	Concrete	Sports Ceramic Tile	Quarry Tile	Resinous	Resilient	CMU Gweim Wallhoard	Ceramic Tile	Glass Wall	Markable Wall	Folding Wall	Exposed structure Acoustical Ceiling Tile	Gvosum Wallboard	Ceiling Height Min/Max	Alumin / Storefront	Hollow Metal	Wood, plastic laminate Roll-up, exterior-	insulated Roll-up, interior	door/grille View Lite	Interior	None	Daylight Exposure	Exhaust to exterior Fume Hood		Sink		Drinking fountain	Eye wasn/snower	Floor drain Duplex	Quad	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	Tackboard / Tackwall	Interactive Board	Projection Screen Base Cabinets with	Counters Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	Phone Sound Sytem and	Microphone	Specialty	NOTES
Performing Arts																																														
Instrumental Music Learning Center				х				X :	x x					Х		18/22		Х	Х		Х	Х		X	x				1	L		10	2	6	х		2	3	1				х	Χ		E
Instrument Storage				х				X	x x					Х				х	Х		Х		Х					1				2		1		X	1	1					Х			1
Uniform / General Storage				Х				х	х х					Х					Х		Х		Х									2		1			1	1					Х			
Practice Room																																														
Music Storage/ Library				х				Х	х х					Х					Х		Х		Х									2		1			1	1					Х			
Vocal Music Learning Center	Х								х х					Х		16/20		Х	Х		Х	Х		X	х				1	L		6	2	6	х		1	3	1				х х	Х		E
Uniform / General Storage				х				X :	х х					Х					Х		Х		Х									2		1			1	1					Х			
Music Storage / Library				х				х	х х					Х					Х		Х		Х									2		1			1	1					х			
Shared Workroom				х				X :	х х					Х					Х		Х	Х		Х								6	4	3)	х		1	1								
Shared Ensemble Room				х				X :	х х					Х					Х		Х	Х										Х	Х	X X	х		1	1								
Practice Room	Х							х	x x	(>	(X					Х		Х											Х		Х				1								
Performing Arts learning Center/Theater/Dance				х				X :	х х				>	(X					Х		Х			X	х							Х	Х	Х			1	3	1				>	х		
Storage				х				х	x x	(>	(X					X Z	х												Х		Х		х	1	1								
Auditorium	Х				Х			х	x x	(Х		>	(X	Х		Х		Х		Х				х							Х		2	x :	х			Х			Х	>	Х		R
Control Room				Х				Х	X X	(Х)	(X			Х		Х		Х											Х	Х	Х			1	1		Х		Х				
Stage		Х							X X	()	(2	X	Х											Х	Х	Х												J
Dressing Room				Х				х	x x	(>	(X					Х													Х								Х						
Prop Storage				Х				х	x x	()	(x					Х																											
Costume Storage				х				х	x x	()	(x					Х		Х																									



								FINISH	IES										0	PENING	5						HVAC	, PLUM	BING A	ND ELE	CTRICAL						E	QUIPM	ENT AND	SPECI/	AL SYST	EMS		$\overline{}$	
				FLOOR						PARTITI	ONS			CEIL	ING			D	OORS			WIND	ows		HVAC			PLUMB	ING			ELECT	RICAL			EQ	QUIPMENT	1		BUILT	T-INS		SPECIAL SYS	TEMS	
	Carpet	Wood	Concrete Polished or Stained Concrete	Sports	Ceramic Tile	Quarry Tile	Kesinous Resilient	СМО	Gypsum Wallboard	Ceramic tile	Glass Wall	Folding Wall	Exposed Structure	Acoustical	Gypsum Wallboard	Ceiling Height Min/Max	/Stc	Mood, plastic laminate	Roll-up, exterior- insulated	Roll-up, interior door/grille	View Lite	None	Daylighting	Exhaust to exterior	,	Dust Collection System	Sink Natural Gas	Drinking fountain (dual	Eye wash/Shower	Floor drain	Duplex	Quad	Switching to Allow	Multiple Light Levels Specialty	Lockers	Markerboard	Tackboard/Tackwall	Interactive Board	Base Cabinets with Counters	Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	Phone Sound Sytem and Microphone	Specialty	Notes
Physical Education / Athletics		<u> </u>																				<u></u>									<u> </u>														
Physical Education / Athletics Lobby			X				X	X	X		X			X			Х				Х		X					2			8	1	ı X	X			2						X		D, R
Gymnasium		X						Х	X				X			23	>	x			х		X								8 2	2 2	2 X	(X									X		E,Q,R
Auxiliary Gymnasium		Х						Х	Х				X			23	>	X			Х		X								8 2	2 2	2 X	(X									X		E,Q,R
Weight/Fitness Room			Х				Χ	X	Х					Х	1	0/12		Х			х х										4	1 1	ı X	(1	2						Х		B,E,Q
Multi-Purpose Activity Learning Center				Х				Х	Х			Х		Х	1	6/23		Х			Х		Х								8 ;	3 6	3 X	(2						Х		R
Boys/Girls Athletic Locker Room			Х		Х)	X	Х	Х					Х				Х)	<								Х	4	2	2		Х	1	2						Х		E
Boys/Girls P.E. Locker Rooms			Х		Х)	X	Х	Х					Х				Х)	<								Х	4	2	2		Х	1	2						Х		E
Student Toilet / Showers			Х		Х)	X	Х	Х	Х					Х		>	X				Х	(Х			Х															
Adult Toilet / Shower / Locker			Х		Х)	X	Х	Х	Х					Х		>	X				Х	(Х			Х					Х										
Office B			Х				X	Х	Х					Х				Х			x 2	Κ	Х								4	1 2	2 X	(1	1						Х		
Office (shared)			Х				Χ	X	Х					Х				Х			Х		Х								8	1 2	2 X	(1	2						Х		
Training Room			Х		Х)	X	Х	Х					Х			>	X			x 2	<					1			Х	8	1 2	2 X	X		1	1		Х	Х			Х		E,Q
Laundry			Х		Х)	X	Х	Х					Х			>	X			х	X		Х			1			Х	1			Х								Х		Х	Q
P.E. Equipment Storage			Х				X	Х	Х					Х			>	X			Х	X									1														
Athletic Equipment Storage			Х				X	Х	Х					Х			>	X			Х	X									1														



					F	INISHES	;								OF	PENINGS					HVAC, PLU	JMBING A	AND ELE	CTRICA	L				1	EQUIPMEN	NT AND SPE	CIAL SYS	TEMS		,
			FLOOR				PAR	TITIONS			CEIL	ING			DOORS		WINDO	ows	HVAC		PLU	IMBING			ELECT	RICAL		Е	QUIPMENT	т	В	JILT-INS		SPECIAL SYSTEMS	
	Carpet	Concrete Polished or Stained	Sports Ceramic Tile	Quarry Tile Resinous	Resilient	CMU	Gypsum Wallboard Ceramic Tile		Markable Wall Folding Wall	Exposed Structure	Acoustical Ceiling Tile	Gypsum Wallboard	Alumin / Storefront	Hollow Metal	Wood, plastic laminate Roll-up, exterior- insulated	Roll-up, interior door/grille View Lite	Interior	Daylighting	Exhaust to exterior Fume Hood	Dust Collection System		Drinking fountain Eye wash/Shower	Floor drain	Duplex	Quad	Data / Voice Switching to Allow Multiple Light Levels	Specialty	Lockers Markerboard	Tackboard / Tackwall	Interactive Board Projection Screen	Base Cabinets with Counters Wall Cabinets	Tall Storage Cabinets	Built-in Shelves	Phone Sound Sytem and Microphone Specialty	NOTES
Administration / Guidance																																			
Administration										Т			Т																						
Main Reception	х	Х			Х	Х	х	Х			Х		Х			Х	х	х						7	2 4	4 X			Х					Х	A, D
Office A	Х					Х	х				Х				х	Х		х						4	1 2	2 X		1	1					Х	
Office C (Principal)	х					Х	Х				Х				Х	Х		Х						6	2 4	4 X		1	1					Х	D
Office B (A.P.)	х					Х	Х				Х				х	х		Х						4	1 2	2 X		1	1					Х	
A.P. Reception / Waiting	х					Х	х	Х			Х		Х			Х		х						4	1 2	2 X			1					Х	
Main Conference Room	х					Х	Х	Х	Х		Х		Х			Х		Х						6	2 4	4 X		1	1					Х	D
Small Conference Room	х					Х	Х	Х	Х		Х		Х			Х		Х						4	1 2	2 X		1	1					Х	D
Storage		Х			Х	Х	х				Х				х	Х	Х							1	:	1									
Office A (Security)	х					Х	х				Х				х	Х		х						4	1 2	2 X		1	1					Х	
Health Clinic																																			
Waiting		Х			Х	Х	Х				Х		Х		Х	Х	х	Х						4	1 2	2			1					Х	
Health Clinic		Х			Х	Х	Х				Х				Х	Х	х	Х			1	Х		6	1 2	2 X		1	1		х х			Х	K
Office A		Х			Х	Х	Х				Х				Х	Х	х	Х						4	1 2	2 X		1	1					Х	
Restroom			Х	Х		Х	х х					Х			Х		Х				1		1	1											
Guidance / Student Services																																			
Reception / Guidance	х					Х	х	Х			Х		Х			Х		х						4	2 4	4			1					Х	
Office B (Counselor/Attendance/Registrar)	х					Х	х				Х				х	Х		х						4	1 2	2 X		1	1					Х	
Conference Room, Small	х					Х	х	Х	Х		Х		Х			Х		х						4	1 2	2 X		1	1					Х	
Records / File Room		X			Х	Х	х				Х				х	Х	X							1		1		1	1				Х	Х	
Workroom / Break Room	х	Х			Х	Х	Х				Х				х	х		Х			1		Х	8	2 4	4	х	1	1		х х		Х	х	Q
Mail Room		Х			Х	Х	Х				Х					Х		Х					Х	2	:	1			1					Х	
Shared																																			
Professional Development / Data Center	х	Х			Х	Х	Х		Х		Х				х	Х		Х						6	2	4		1	2					Х	D
Teacher Work Center	х	х			Х	Х	Х		Х		Х				х	х	х	Х			х			Х	X 2	х		1	1		х х			х	
Office B (Itinerant)	х					Х	Х				Х				х	х		Х						6	2	4 X		1	1					Х	
Multi-use / Community Room	Х	Х			Х	х	х	Х	Х		Х	9/:	.0 X			Х		х						8	4 8	8 X		2	3	1				Х	



HISD FURR HIGH SCHOOL EDUCATIONAL SPECIFICATIONS



							FINIS	HES										OPENI	NGS					H	HVAC, F	PLUMBI	NG AND	ELEC	TRICAL							EQUIF	MENT	AND S	SPECIAL S	SYSTEM	s	$\overline{}$	
			FLO	OOR					PARTI	ITIONS			C	EILING				DOORS		WIND	ows		HVAC			PLUMBING	3			ELECTR	ICAL			EQ	QUIPMEN	IT		В	UILT-INS		SPECIAL SYS	TEMS	
	Carpet	Concrete	Polished or Stained Concrete	Sports Ceramic Tile	Quarry Tile	Resinous	Resilient	CMU or GWB		Glass Wall	Markable Wall	Folding Wall	Acoustical Ceiling Tile	Gypsum Wallboard	Ceiling Height Min/Max	Alumin / Storefront	Hollow Metal	Wood, plastic laminate Roll-up, exterior- insulated Roll-up, interior	View Lite	Interior	Davlighting	Exhaust to exterior	Fume/Exhaust Hood	Sink	Natural Gas (double outlet @ each)	Drinking fountain	Eye wash/Shower	Floor drain	Duplex	Quad Data / Voice	ing 1		Lockers	Markerboard	Tackboard / Tackwall	Interactive Board	Projection screen Base Cabinets with	t s	Tall Storage Cabinets	Built-in Shelves	Phone Sound Sytem and Microphone	Specialty	NOTES
Food Service																																											
Food Preparation																																											
Cooler					Х	Х)	(Mfr	:	1	Mfr.																											
Freezer					Х	Х)	(Mfr	:	1	Mfr.				Х																							
Dry Storage					Х	Х		Х					Х				X :	х	Х	Х									Х														
Kitchen Manager's Office					Х	Х	х	Х	Х	Х			Х				X	х	Х	X X									2	2 2	Х			Х	Х						Х		
Food Prep. / Cook Line		Х			Х	Х			Х				Х				X .	x	Х			Х	Х	Х				X a	s requi	red for	equipt	t											
Laundry Area		Х			Х	Х		Х	Х				Х				X .	x	Х	X		Х						Х	1		Х												N,O
Custodial		Х			Х	Х		Х	Х				Х				X .	x	Х	X		Х		Х				Х	1														N,O
Locker Room		Х		Х	Х	Х		Х	Х				Х				X :	х		X		Х		Х				Х	1		Х		Х		Х						Х		
Restroom		Х		Х	Х	Х		х	Х				Х				x :	x		X			Х			Х		Х	1														
Serving Area		Х			Х	Х		Х	Х				Х				X	х х	Х	Х		Х		Х				Х	X 2	Х 1р	er POS												
Student Dining																																											
Commons Area			Х				х	Х				X >	X	Х	16/20		X	х	Х	Х	Х	(Х			12	4 4	Х			Х	Х						Х		R
Storage		Х	Х				х	Х									X	х		x x									1									\perp					
Control Room		Х	Х				х	Х					Х	Х			X	х	Х	х									4	3 4		Х						\perp					
Stage	Х						х	Х					Х				x :	x											3 (6 5		Х				1	X	\perp			!		



							F	INISHES											OPE	NINGS						н	/AC, PLU	MBING	AND I	ELECTRI	CAL						EQ	UIPME	NT AND	SPECIA	L SYSTE	ΛS			
			FL	LOOR					Р	ARTITIONS				CEILING	i			DOOF	:S		,	VINDOWS		HV	AC		PLU	MBING			E	ELECTRICA	AL			EQUIP	MENT			BUILT-	INS	SPECI	AL SYSTEMS	s	
Custodial / Maintenance	Carpet	Concrete	Polished or Stained Concrete	Sports Ceramic Tile	Quarry Tile	Resinous	Resilient	СМО	Gypsum Wallboard	Glass Wall	Markable Wall	Folding Wall	Exposed Structure	Acoustical	Gypsum Board Ceiling Height Min/Max	Alumin / Storefront	Hollow Metal	Wood, plastic laminate	insulated Roll-up, interior	door/grille	Interior	None	Daylight Exposure	Exhaust to exterior Fume Hood	Dust Collection System	Sink	Natural Gas	Drinking fountain	Eye wash/Shower Floor drain	Duplex	Quad	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	Markerboard	lateractive Board	Interactive board Projection Screen	Base Cabinets w/	Wall Cabinets	Tall Storage Cabinets		Sound Sytem and Microphone	Specialty	Notes
Receiving Entry		Х						Х						Х	16/	20	Х		х	Х									х	4		1										Х			
Plant Engineer Office			Х				Х	Х	Х					х			Х			Х	Х		Х							4	2	2	Х			1 1	1								
Custodial / Maintenance Storage		Х	Х				Х	Х	Х					Х			Х			Х		Х							Х	6		1			:	1 1	1								
Supply Storage																																													
IT Support			Х				Х	Х	Х					х			Х			Х		Х	Х							12	4	6				1 1	1								
Custodial Closets		Х		Х		Х		Х						X :	х		Х	Х				Х							Х	1															N



HISD FURR HIGH SCHOOL EDUCATIONAL SPECIFICATIONS

		Concrete Consider of Stained Consider of Stain														,																														
			FLOOF	2				PA	RTITIONS				CEILING				DOC	RS			WIND	ows		HVAC			PLUN	MBING			E	LECTRICA	ıL			EQU	IPMENT	f		B!	UILT-INS		SPECIA	L SYSTEMS		
	Carpet	Concrete Polished or Stained	Concrete		Quarry Tile	Resilient		Gypsum Wallboard		Markable Wall	Folding Wall	Exposed Structure		Min	front		Wood, plastic laminate	Roll-up, exterior- insulated	Roll-up, interior door/grille	View Lite	None	Daylighting	Exhaust to exterior	Fume Hood	Dust Collection System			Drinking fountain Eve wash/Shower	Floor drain	Duplex	Quad	Data / Voice	Switching to Allow Multiple Light Levels	Specialty	Lockers	2	/ Tackwa	Interactive Board	Projection Screen Base Cabinets with	Counters Wall Cabinets	Tall Storage Cabinets	Shelves	Phone Strom and	Sound Sytem and Microphone Specialty	- Appendix	NOTES
Building Support																																														
Corridors		X	х			Х	Х	х	Х		Х	X	Х		Х	Х	Х		Х	Х	Х	Х						х		Х	Х						Х				Т	Т	Х			
Student Restrooms		Х		Х	Х		Х	х	Х				Х	(No D	oors								Х	х			Х	Х	Х	Х											Х			
Adult Restrooms		Х		Х	Х		Х	х	Х				х				Х								Х	Х			Х	Х	Х	Х											Х			
Stair, Main / Open		X X	Х			Х	Х	х	Х			X :	х х			Х				Х		Х																								
Stair, Exit		X	Х			Х	Х					Х	Х			Х				Х		Х																								
Mechanical Room		Х					Х					х									Х	(1	2														
Electrical Room		Х				Х	Х	х				х									Х	(1	2														
Building Data Room		Х				Х	Х	x	Х			Х									Х	(
Elevator						Х	Х				N	lft Sta	ndard								Х	(3
Elevator Machine Room		Х				Х	Х					X :	Х			Х	Х				K																		\perp	\perp	\perp		Х		\perp	
IT Support																	Ш																				\perp		\perp	\perp	\perp				\perp	
Computer Repair)	X			Х	Х	х	Х		Х		Х	_	D X		Х		Х	Х		Х								8	3	6	Х			2	3	1	\perp	\perp	\perp		Х			
Computer Storage Room			x			X	Х	x	Х		Х		Х	9/1	D X		X		Х	Х		X								8	3	6	Х			2	3	1					Х			