

PBK SPORTS K-12 PLANNING THE RIGHT AQUATIC FACILITIES FOR YOUR SCHOOL DISTRICT + COMMUNITY

INTRODUCTIONS



EXECUTIVE DIRECTOR, FACILITIES + PLANNING, LAMAR CISD TREY SCHNEIDER PARTNER, PBK SPORTS **LORIN PARGOUD** PRINCIPAL, PBK JUAN LÓPEZ PRINCIPAL, PBK SPORTS AGENDA



1. AQUATICS PROGRAMS TODAY 2. PLANNING + DESIGN 3. LAMAR CISD AQUATICS MASTER PLAN 4. FACILITY MAINTENANCE + OPERATIONS 5. AQUATIC FACILITY TRENDS

Aquatics Programs Today



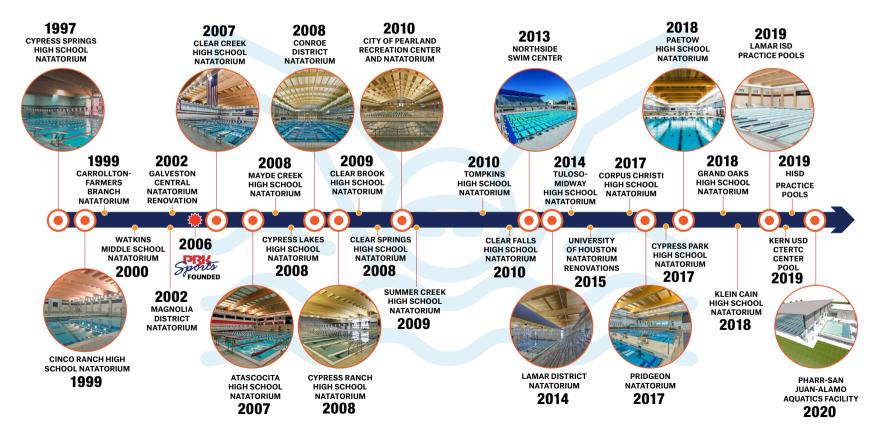


GROWTH OF SPORT



In 2008, US swimmer Michael Phelps became the most successful man at a single Olympic Games by winning eight gold medals. His total medal haul of 23 golds between 2004–2016 is the most out of all sports.

"EVOLUTION OF THE EXPERIENCE"



GOVERNING BODIES, FACILITY STANDARDS, EVENTS













UIL SWIMMING + DIVING EVENTS

FACILITY STANDARDS

EVENTS FOR DISTRICT, REGIONAL AND STATE

Boys and girls events for district, regional and state meets shall be as follows:

200 Yard Medley Relay

200 Yard Freestyle

200 Yard Individual Medley

50 Yard Freestyle

1 Meter Diving

100 Yard Butterfly

100 Yard Freestyle

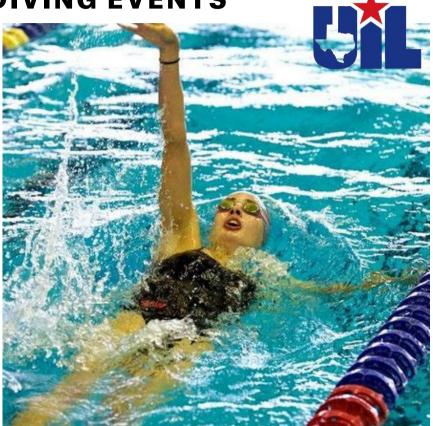
500 Yard Freestyle

200 Yard Freestyle Relay

100 Yard Backstroke

100 Yard Breaststroke

400 Yard Freestyle Relay



USA SWIMMING

FACILITY STANDARDS

50, 100, 200, 400m/500y, 800m/1000y, 1500m/1650 freestyle

100, 200 backstroke

100, 200 butterfly

100, 200 breaststroke

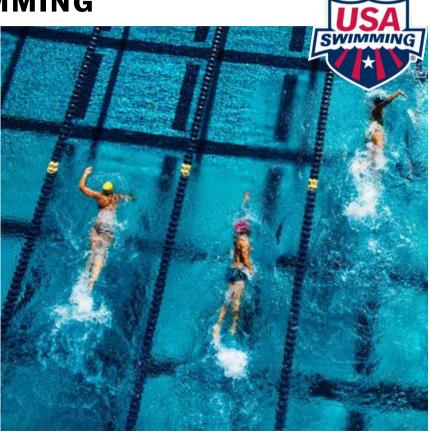
200, 400 individual medley

200, 400, 800 freestyle relay

200, 400 medley relay

200, 400, 800 mixed gender freestyle relay

200, 400 mixed gender medley relay





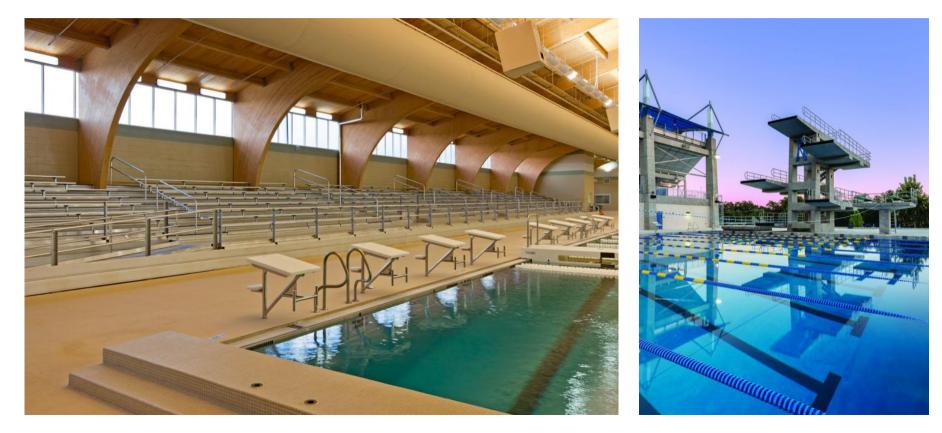
SPRINGBOARD

✓ 1 meter✓ 3 meter

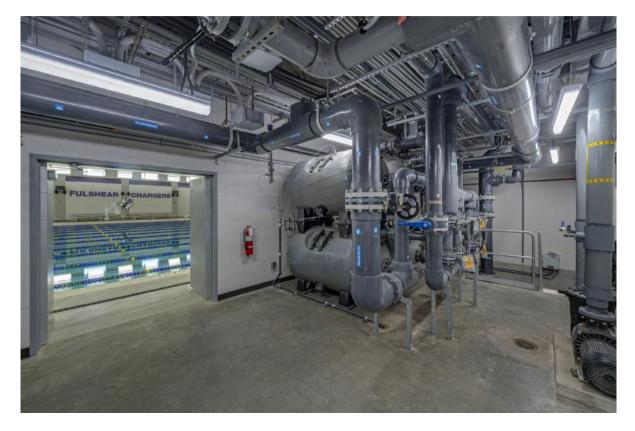
PLATFORM ✓ 1 meter ✓ 3 meter ✓ 5 meter ✓ 7.5 meter ✓ 10 meter

	FACILITY SPECS	Meet or exceeds championship requirements.	NORTHSIDE NATATORIUM (secondary pool)	NORTHSIDE S (main pool 8		CHAMPIONSHIP FACILITY		IDEAL FACILITY		
SIZE	Main Competition Pool	YES	NA	50 METER (8 lanes @ 9' wide, 2m deep min.)		50 METER (8-10 lanes @ 2.5m wide 2m deep min.)		50 METER (8 lanes x 9' wide, 2m deep min.)		
	Secondary Competition Pool	YES	50 METER (8 lanes @ 9' wide, 2m deep min.)	50 METER (8 lanes @ 9' wide, 2m deep min.)		NA		SAME AS COMPETITION POOL		
	Warm-up Pool	YES	NA	25 METER X 25 YD.		25 METER (min. 8 lanes @ 2.5m wide)		25 METER (8 lanes @ 9' wide)		
	Diving Pool	YES	NĂ	Two 1-meter and two 3-meter springboards. Height of highest platform will be 10-meters. Intermediate platforms TBD.		Two 1-meter and two 3-meter springboards. Height of highest platform must be 10-meters. Intermediate platforms may be 5 and 7.5 meters.		Two 1-meter and two 3-meter springboards. Height of highest platform must be 10-meters. Intermediate platforms may be 5 and 7.5 meters.		
	Deck Size	YES	15' on sides: SECONDARY POOL	MAIN POOL 25' on sides	WARM-UP POOL 15' on sides	MAIN POOL 20' on sides	WARM-UP POOL 15' on sides	MAIN POOL 20' on sides	WARM-UP POOL 15' on sides	
EATING	Spectator Seating	POSSIBLE	800 SEATS: SECONDARY POOL	2,500 SEATS: MAIN POOL X TEMPORARY SEATS: DIVING POOL		3,000 SEATS: MAIN POOL		6,000 SEATS: MAIN POOL 2,000 SEATS: SECONDARY POOL		
	Athlete Seating	POSSIBLE	TBD	1,000 ATHLETES		1,500: ATHLETE SEATS		1,200 SEATS TOTAL: 500 SEATS ON EACH SIDE OF MAIN POOL 100 SEATS ON EACH SIDE OF WARM-UP POOL		
	Media Seating	POSSIBLE	TBD	TBD		50: SEATING WITH TABLES NEAR FINISH END		200: SEATING WITH TABLES NEAR FINISH END		
SI	VIP Seating	POSSIBLE	TBD	TBD		50: VIP SEATING ALONG ONE SIDE OF MAIN POOL		200: VIP SEATING ALONG ONE SIDE OF MAIN POOL		
	Hospitality	NO	NONE	NONE		Near pool deck to accommodate 300 at round banquet tables.		Near pool deck to accommodate 300 at round banquet tables.		
z	VIP suite	NA	NONE	NONE		NA		Room overlooking main pool with bar, lounge seating, and video monitors.		
6	General Meeting	POSSIBLE	Could utilize bleacher space with 400 seats in existing natatorium space.	NONE		Nearby room to accommodate 400 in theatre seating.		Nearby room to accommodate 600 in theatre seating.		
ATIOI	Officials	POSSIBLE	NA	Temporary bleachers at north deck to accommodate 60.		Near pool deck to accommodate 60 in theatre seating.		Near pool deck to accommodate 125 in theatre seating.		
RA	Meet Administration	YES	NONE	Windowed room at each end of home side with 12 desks/computers each.		Windowed room at finish-end of main pool with three desks/computers for meet administration.		Windowed room at finish-end of main and secondary pools with three desks/computers for meet administration.		
NIST	Audio/Lighting	NA	NONE	NONE		NA		Windowed room at turning-end of main and secondary pools with all controls for sound and lighting.		
DMINISTR	Drug Testing	YES	NA	Near pool deck. Single toilet space		Near pool deck w/ 3 desks and seating for 10, adjacent to private men's and women's restrooms.		Near pool deck w/ 3 desks and seating for 20, adjacent to private men's and women's restrooms.		
ā	Staff	YES	Nearby rooms with workspaces for 9 staff.	Office spaces on either side of home side.		NA		Nearby room with minimum of 6 desks w/ computer connections.		
◄	Media Workroom	POSSIBLE	Workroom located near secondary pool	NONE		Near pool w/ min. workspaces for 30 w/ computer connections, phones, fax copiers. etc.		Near pool w/ min. workspaces for 50 w/ computer connections, phones, fax copiers. etc.		

PUBLIC-PRIVATE PARTNERSHIPS



SUSTAINABILITY





02 Planning + Design





ASSEMBLE THE DESIGN COMMITTEE

COMMITTEE

✓ Aquatic Director

✓ Administration

✓ Coaches

✓ Parents

✓ Students

✓ Community

✓ Principal



ESTABLISH GOALS + OBJECTIVES



MASTER PLAN VENUE/SITE



DEFINE EVENTS + PROGRAMS



VISIT DIFFERENT POOL FACILITY TYPES



DESIGNATE FACILITY MANAGER



Space/Function	Quantity	Net Unit Area - :	Lamar	Consoli	orium		Spor
Pool Deck	1	4,450	Pro	posed P	rogram	oposed Progr	ram
Pool	1	5,625	2/14/2013 SPACE / FUNCTION	QUANTITY		TOTAL NET AREA-SF	DESCRI Seating for 600
Pool Equipment Room	1	800	NATATORIUM	1	9,000 7,800	9,000 7,800 1,500	Seating for out
Girl's Locker Room	1	780	Pool Area Pool Deck	1	1,500 720	720	
	-		Bleachers Lobby	1	200 215	200 215 300	-
Boy's Locker Rooms	1	780	Concessions (1)NIC 2 Lav)	1	300 70	300	-
Coach's Office	1	220	Men (4 VVG, 2 Lav) Women (7 WC, 2 Lav) Family Restroom	1		-	-
Coach's Restroom / Dressing	1	150	LOCKERS/CLASSROOM	1	1,200	1,200 115	-
MDF	1	35	Classroom / Team Meeting	1	410	820 820	+
Pool Storage	1	260	Boys Locker Rooms	2	510	1,020	
Custodial Closet	1	100	Shared Toilet/Shower	H_{-}	190	190	
Men's RR / 4th Grade Program	1	305	OFFICE Front Office Coach's Office Coach's Dressing Coach's Dressing		610 200 2 135 1 33	20	0
Women's RR / 4th Grade Program	1	360	Life Guard Office/ Hamming SUPPORT	Ŧ	1 1.0 1 6/ 1 8		060 00 160 120
Total Net Program			Equipment Storage Pool Equipment and Chemical Storage Laundry	#		2	9,020
Adjusted Gross Square Footage (Building)			sub net to gross	total actor total			2,212
Mechanical Mezzanine	1	2,800	Gross Includes Mechanical Mezzanine. Electrical, Janitor, Vestibule, Circulation, a Wall Thickness	nd			

PROGRAM OF SPACES

POOL FACILITY TYPES



OPEN AIR POOL



PASSIVE AIR POOL



CLIMATE CONTROLLED POOL

PROS + CONS

POOL CONSTRUCTION TYPES



TRADITIONAL CONCRETE POOL



STAINLESS STEEL PANEL POOL

POOL CATEGORIES



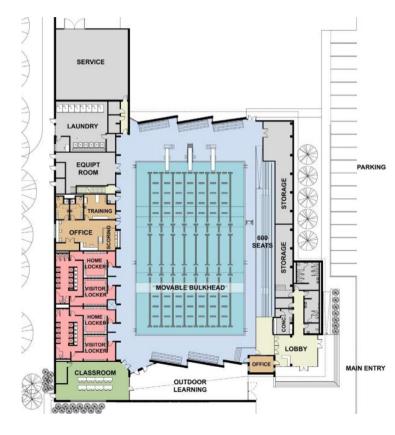
POOL CONFIGURATIONS/DEPTHS







PLANNING CONSIDERATIONS



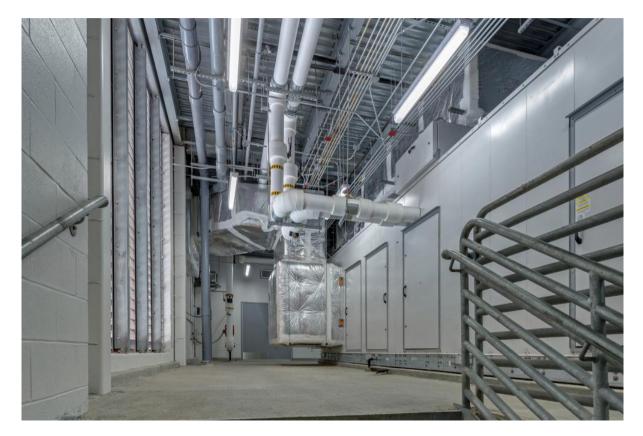




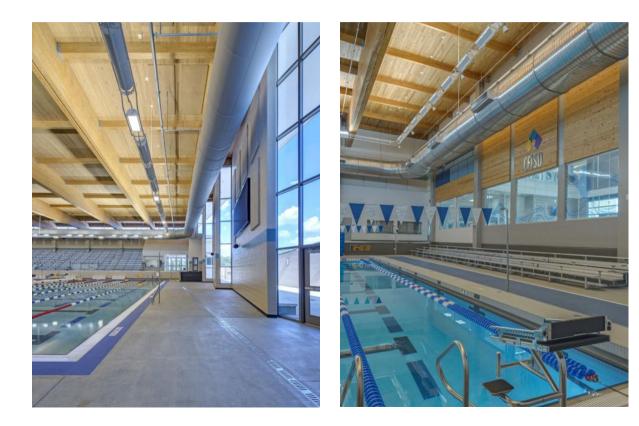




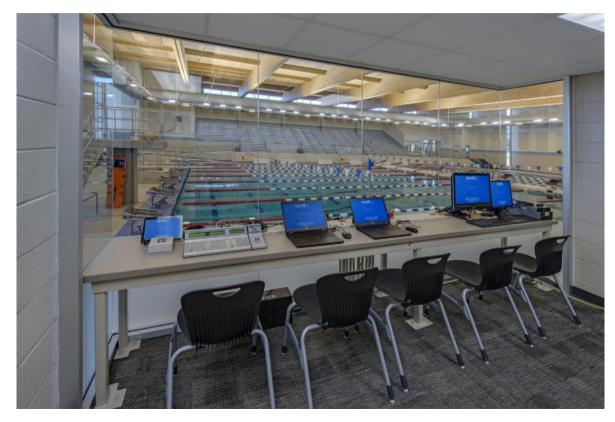
MECHANICAL SYSTEMS/HVAC



NATURAL + ARTIFICIAL LIGHT



TIMING SYSTEMS



SCOREBOARD

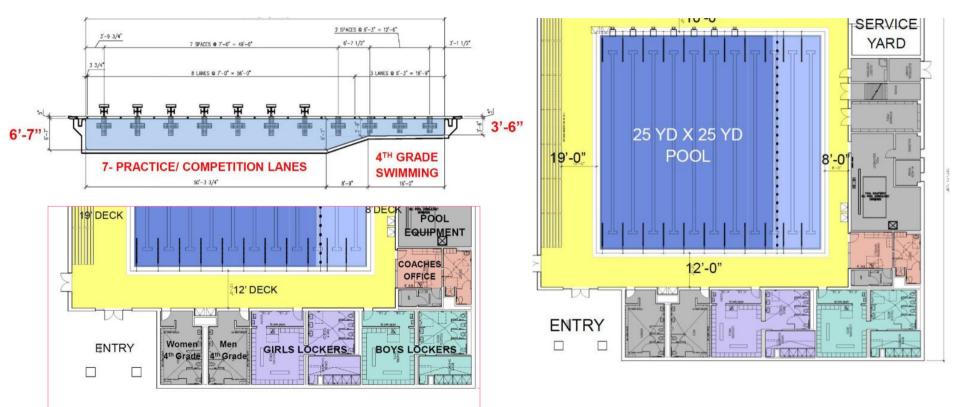


Construction Practice





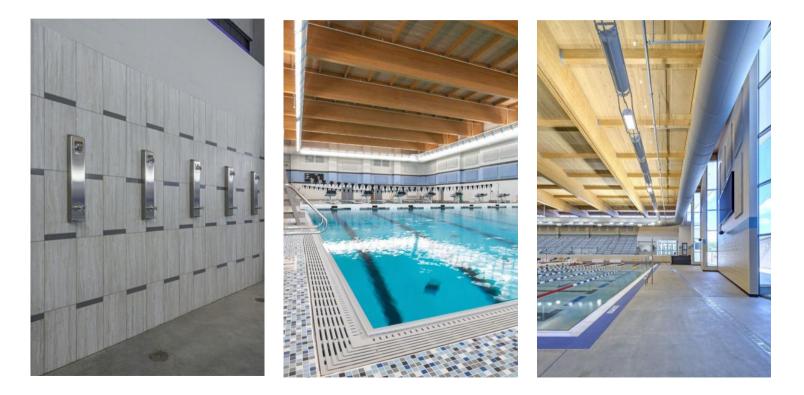
PROTOTYPING



ACOUSTICS/LIGHTING/STRUCTURE



MATERIALS + FINISHES



MECHANICAL SYSTEMS + POOL FILTRATION



CONSTRUCTION SCHEDULE / CHALLENGES

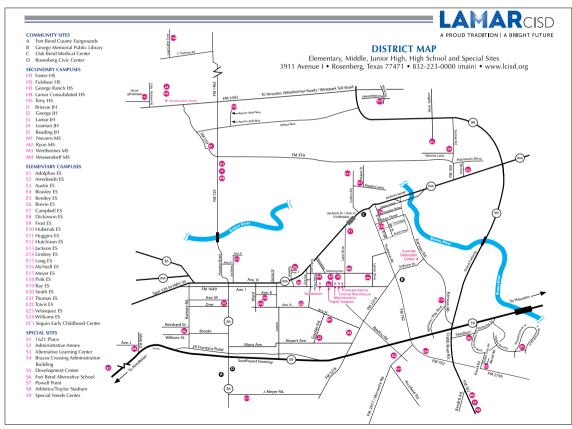


04 Lamar CISD Aquatics Master Plan





AQUATICS MASTER PLAN



THE STORY



The Beginning of the Fourth Grade Learn to Swim Program

LCISD AQUATICS PROGRAMS



PROTOTYPE FACILITIES



VENDOR/MAINTENANCE ITEMS



COMMUNITY/CLUB USAGE



SPECIALIZED STAFF



Aquatic Facility Trends





AQUATIC FACILITY TRENDS

TRENDS











AQUATIC FACILITY TRENDS

TRENDS

AIR FLOW DISTRIBUTION



POOL FILTRATION



ADAPTABILITY AND FLEXIBILITY



HIGH PERFORMANCE HVAC SYSTEM AND MATERIALS



POOL AND AIR TEMPERATURE



DIVING



SCOREBOARDS/TIMING AND ACOUSTICS



NATURAL & ARTIFICIAL LIGHTING





THANK YOU

