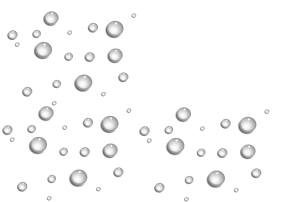
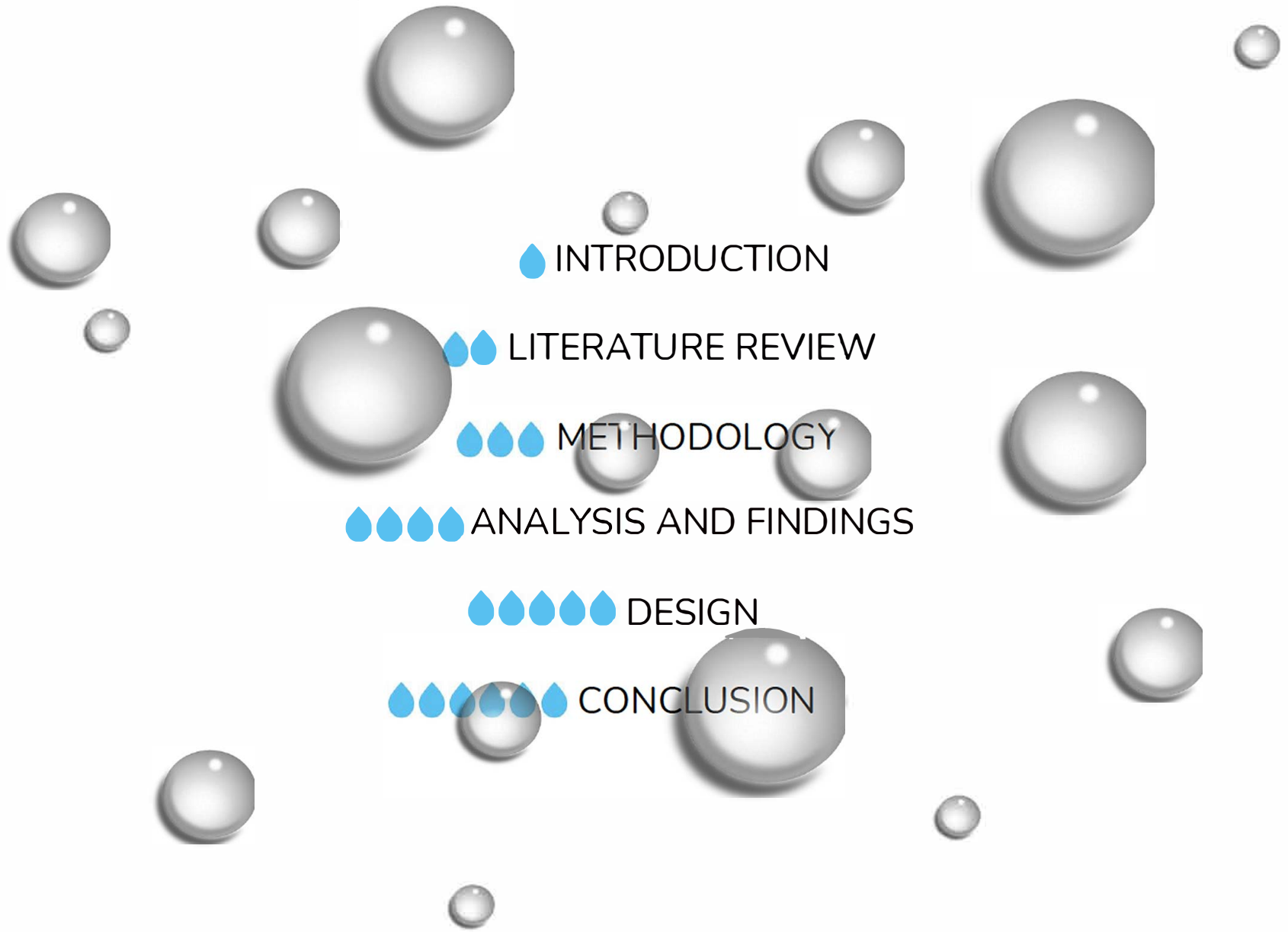


ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS: ENHANCING FOREST PARK PUBLIC CITY POOL



Juan Fuentes
April 24, 2023
Thesis Defense

INTRODUCTION	LITERATURE REVIEW	METHODOLOGY	ANALYSIS AND FINDINGS	DESIGN	CONCLUSION
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INTRODUCTION

- PROBLEM STATEMENT
- PURPOSE OF STUDY
- RESEARCH QUESTIONS
- DEFINITIONS OF KEY TERMS
- METHODOLOGY
- LIMITATIONS & SIGNIFICANCE

PROBLEM STATEMENT:

- In July 2008 (Counsleman-Hunsaker and Kimley-Horn Associates) conducted a city-wide aquatic master plan to replace the city's aging and obsolete pools (AquaticMasterPlan2008)
- Today only **two** functional public pools serve the City of Fort Worth community (PACS2012)
- If Texas major cities were ranked by the availability of public pools, Fort Worth would be dead last (Connelly2018)



Lake Como pool (KERA News 2018)

PROBLEM STATEMENT:

Obsolete Public Pools Fort Worth (AMP2012)

Park Aesthetics →



Park Aesthetics



Safety Hazards

ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

PURPOSE OF STUDY:

- The purpose of this study is to assess obsolete and unsafe public pools in Fort Worth and propose for a new public pool design for Forest park, to inform Landscape architects and Aquatic professionals.
- Fort Worth, faces active demand for accessible, healthy and safe pools (Zavala,2014)



(Ft Worth digital archives)
Forest park pool built 1922

RESEARCH QUESTIONS

- What aquatic design approach, trend and programming is considered for the Forest park public pool design?
- What additional benefits bring **Landscape Architecture** to the Forest park community public pool design?



City of Ft Worth parks (google maps)
Forest park (South central Ft Worth)

DEFINITION OF KEY TERMS

- **Pool** - Any man-made permanently installed or non-portable structure, basin, chamber, or tank containing an artificial body of water that is used for swimming, diving, aquatic sports(TDHHS)
- **Leisure Pool** - The 0 to 4 foot depth of leisure pools provides adults and children aquatic interaction, entertainment, relaxation and fun. With opportunity for many different sizes and designs, the leisure pool is a desirable attraction for all age and skill levels. Many different amenities can be incorporated for added amusement
- **Class B pool** - Any pool used for public recreation and open to the general public with or without a fee.



Source: (Google photos)
Ft Worth Marine Creek Pool
Class B Pool (TDDHS)

DEFINITION OF KEY TERMS:

- **Class D pool** - A wading pool with a maximum water depth of 24 inches at any point. (TDHHS)
- **Zero-Depth Entry** - Zero-depth entry simulates an ocean beach as the pool bottom slopes gradually toward the deeper water. Instead of jumping or climbing into the pool, patrons simply walk in as they would at a beach.
- **Class C pool** - Any pool operated for and in conjunction with: (i) lodging such as hotels, motels, apartments, condominiums, or mobile home parks; (ii) property owner associations, private organizations, or clubs, but not open to the general public.

SIGNIFICANCE AND LIMITATIONS:

- **Significance:**
 - This study is to analyze and evaluate obsolete and aging Fort Worth public pool parks and propose for future city pool developments.
 - Inform Landscape architects, aquatic professionals and park planners on public pool design suggestions and recommendations.
- **Limitations:**
 - To focus on aging existing class B public pools in Fort Worth, alienating and neglecting all other pool classifications private, public or extended.





LITERATURE REVIEW

- HISTORIC BACKGROUND
- RELEVANCE OF LA TO PUBLIC POOLS
- PUBLIC CITY POOLS
- OBSOLETE POOLS

LITERATURE REVIEW TOPICS

- **Public Pool Background**
 - Historic Public Pool Trends
 - Approach to Pool Planning and Codes
- **Relevance of LA to Public Pools**
 - Landscape Architecture and Public pools
- **City Public Pools**
 - Forest Park(active)
 - Marine Creek park(active)
- **Fort Worth Park Inventory**
 - Forest Park, Marine Creek, Sylvania, Sycamore, Como, Hillside, Kellis



Source: (Google photos)



Public space park
Kaworzno, Poland
(RS+Robert
Skitek(2018)

RELEVANCE OF LA TO PUBLIC POOLS

- **Landscape architecture** is the designing of outdoor areas, structures, and landmarks to attain social-behavioral, environmental, and aesthetic results.(Hansen, n.d)
- Pool design using landscaping architecture will develop sociable space around the pool to enable it to function as a resting and relaxation area.(...)
- Investing in landscape architecture allows parks to attract individuals with different tastes, preferences, ideologies, and sensitivities(...)



Green square Gunyama Aquatic Center
Linda Cheng (2014)

• FORT WORTH PUBLIC POOLS

▪ Fort Worth Public Pools Parks

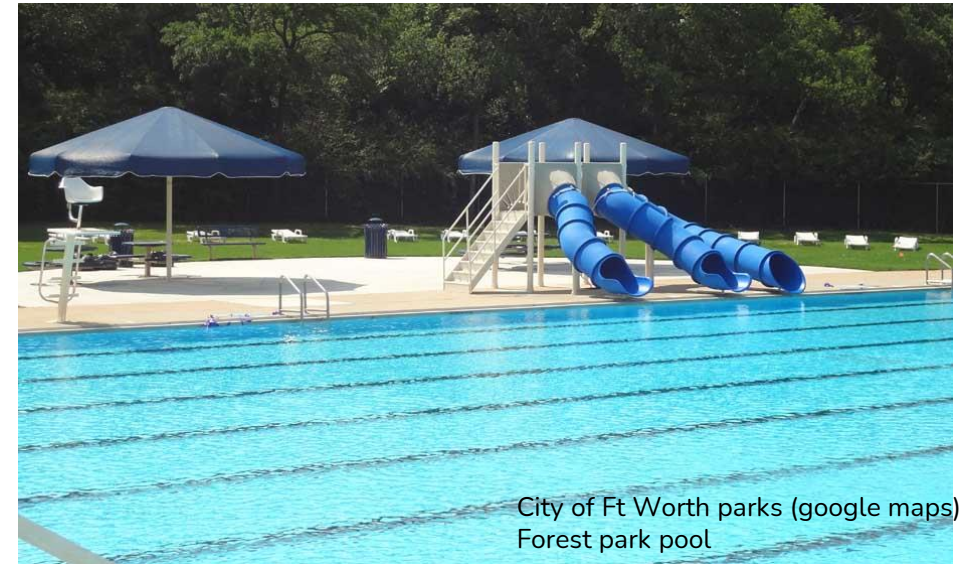
Aquatic parks are essential in alleviating depression, reducing stress, improving concentration skills and enhancing self-esteem(...)

▪ Forest Park

Fort Worth struggled to restore its fame in recreational water activities, it resorted to demolish and re-establish new parks that met the contemporary standards of the current society (AMP, 2013)

▪ Marine Creek Park

Fort Worth as struggles to accommodate the massive population and increased demand for recreational water activities (AMP, 2013)



- **FORT WORTH PARK INVENTORY HISTORIC**

- Marine Creel pool (1926)
- Sycamore pool (1926)
- Forest park pool (1922)
- Lake Como pool (1957)
- Hillside pool (1960)
- Sylvania pool (1936)
- Kellis pool (1960)



- All Ft. Worth Aquatic Parks

AQUATIC PARKS	PARK TYPE	YEAR	ACRES	<u>ATTENDANCE</u>
Forest Park	Community	1922	120	35,408
Marine Creek Park	Community	1926	12	11,810
Sycamore Park ~~no~~	Community	1926	88	8,672
Sylvania Park ~~no~~	Community	1936	30	12,357
Como Park ~~no~~	Community	1957	1.2	1,957
Kellis Park ~~no~~	Neighborhood	1960	16	3,959
Hillside Park ~~no~~	Community	1960	24	4,494

• Active Ft. Worth Aquatic Parks

AQUATIC PARKS	AQUATIC PARK TYPE	REOPEN YEAR	RECREATIONAL AMENITIES
Forest Park	Neighborhood Family Aquatic Center	2013	Small water slide, New diving board, Wading area for small children and Three lap lanes.
Marine Creek Park	Neighborhood Family Aquatic Center	2012	Interactive play structure with water cannons and tipping bucket, Large slide with 'run-out' flume, Four lap lanes, Wet deck Zero depth beach entry, 3200 square foot bath house Infant/toddler changing areas. Vending machines, 7 shade structures Seating(chaise, benches, tables) Adjacent to Marine Park
Sycamore Park	Spray Park	2008	Interactive water toys - Umbrella, Tumbling Buckets, water cannons, water tunnel

- Repaired Ft. Worth Aquatic Parks

AQUATIC PARKS	AGE	MAJOR REPAIRS	MAJOR ISSUES	RECOMMENDED DEMOLITION
Forest Park	98	Resurface vinyl liner	Integrity of pool shell Complete failure of vinyl liner Obsolete chemical controllers and pumps Broken filter laterals Failing slide and diving boards Evaluation of gutter system and grate Incompatible pump and motor Failing deck New ADA standards.	NO
Marine Creek Park	94	piping system, pool &deck cracks seal exp. Joints, chemical and controller acid	piping system, pool &deck cracks seal exp. Joints, chemical and controller acid	NO

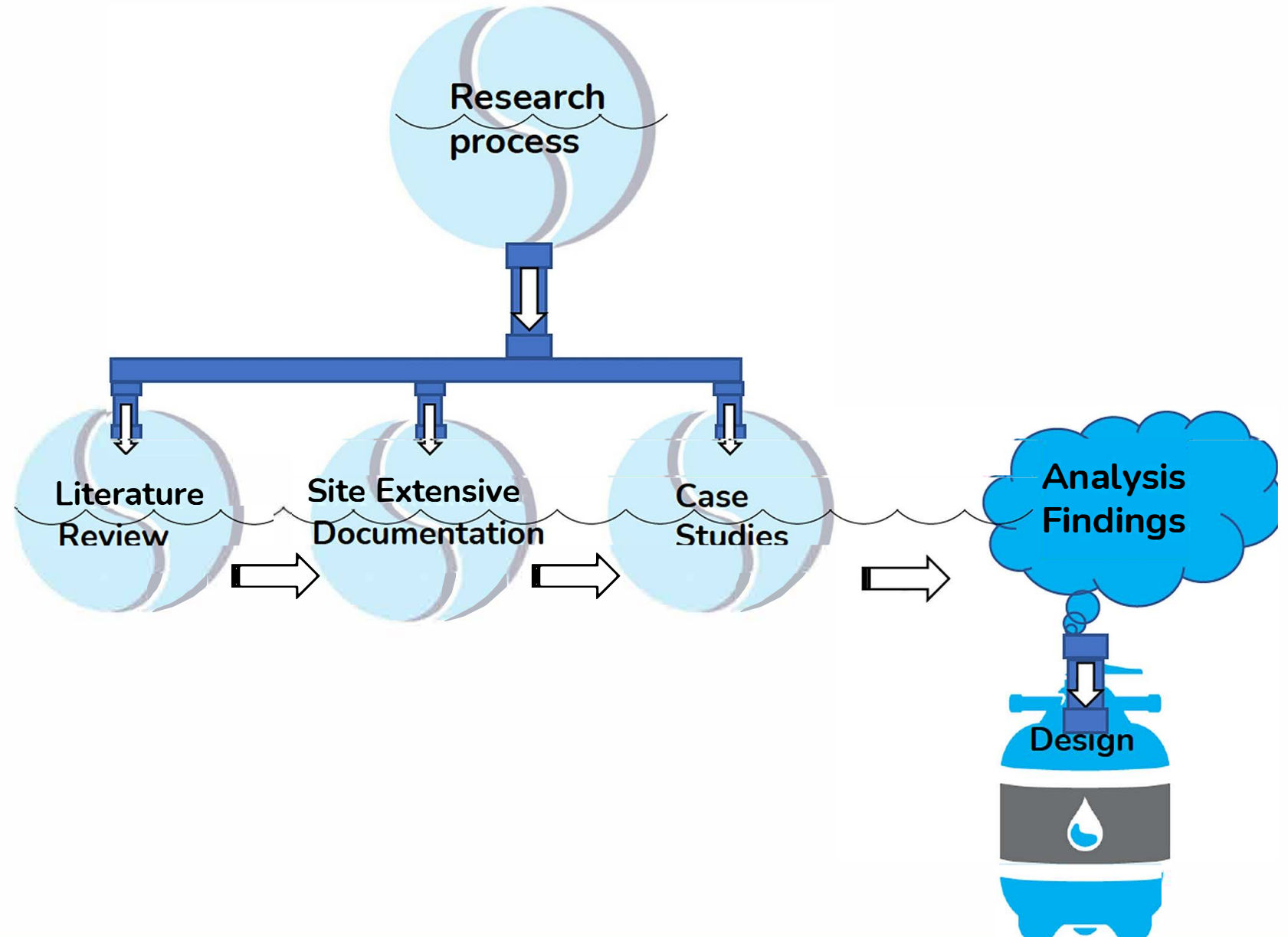
- Demolished Ft. Worth Aquatic Parks

AQUATIC PARKS	AGE	MAJOR REPAIRS	MAJOR ISSUES	RECOMMENDED DEMOLITION
Sycamore Park	86	NONE	Audit recommended to not allocate extensive renovation dollars to pools with concrete shells in excess of 40 years old	YES-Risk management mitigation (potential falls, drainage issues, etc.) Exceeded useful life Functional obsolescence Physical obsolescence Eliminate site detriment & improve aesthetics
Sylvania Park	76	NONE	Audit recommended to not allocate extensive renovation dollars to pools with concrete shells in excess of 40 years old	YES-Risk management mitigation (potential falls, drainage issues, etc.) Exceeded useful life Functional obsolescence Physical obsolescence Eliminate site detriment & improve aesthetics
Como Park	55	NONE	Audit recommended to not allocate extensive renovation dollars to pools with concrete shells in excess of 40 years old	YES-Risk management mitigation (potential falls, drainage issues, etc.) Exceeded useful life Functional obsolescence Physical obsolescence Eliminate site detriment & improve aesthetics
Kellis Park	52	NONE	Audit recommended to not allocate extensive renovation dollars to pools with concrete shells in excess of 40 years old	YES-Risk management mitigation (potential falls, drainage issues, etc.) Exceeded useful life Functional obsolescence Physical obsolescence Eliminate site detriment & improve aesthetics
Hillside Park	52	NONE	Audit recommended to not allocate extensive renovation dollars to pools with concrete shells in excess of 40 years old	YES-Risk management mitigation (potential falls, drainage issues, etc.) Exceeded useful life Functional obsolescence Physical obsolescence Eliminate site detriment & improve aesthetics

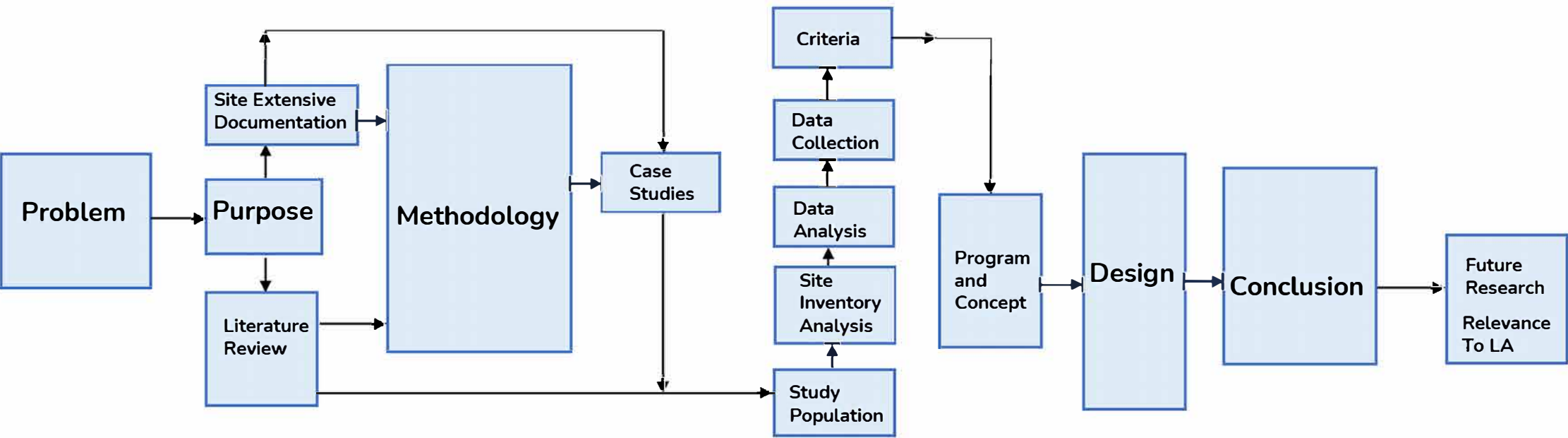
 METHODOLOGY

METHODOLOGY

- This research follows the Quantitative and Qualitative Techniques from (AMP 2012; (Marcus and Francis,1998)) to study Observations, Characteristics and Documentation on **4** existing Aquatic parks in Dallas – Fort Worth and Extended locations.



RESEARCH DESIGN



STUDY POPULATION

- The population for the south side of Fort Worth
- The study population will focus on area with a 3 mile distance ring surrounding South Fort Worth, TX (C/H-K-H&A)

MARKET AREA POPULATION 3 and 5 MILE RADIUS										
Radius	Population						Average Annual Change			
	2000		2010		2015		2000-2010		2010-2015	
	3 Mile	5 Mile	3 Mile	5 Mile	3 Mile	5 Mile	Number	Percent	Number	Percent
	(000's)	(000's)	(000's)	(000's)	(000's)	(000's)	(000's)	Percent	(000's)	Percent
North	6.6	61.0	54.1	155.2	73.2	191.8	4.7	23.4%	3.8	6.2%
Central	54.2	180.6	64.4	225.1	70.2	250.9	1.0	1.7%	1.2	1.8%
South	83.4	164.4	106.3	198.3	116.8	214.7	2.3	2.5%	2.1	1.9%
East	61.2	190.2	66.5	203.5	71.4	218.1	0.5	0.8%	1.0	1.4%
West	38.8	80.9	49.3	97.4	57.7	110.5	1.1	2.4%	1.7	3.2%
Fort Worth, TX	541.0		688.8		772.8		14.8	2.4%	16.8	2.3%
Source: Demographics Now										

Source: Demographics Now

Source: (Demographics Now)

Market area Population South 3-Mile Radius

AGE DISTRIBUTION

- The study population will focus on various age groups with a 3 mile radius surrounding South Fort Worth TX.
- South side City age groups (Demographics Now)

MARKET AREA AGE DISTRIBUTION 2.5 MILE RADIUS													
Age Groups	North		Central		South		East		West		Fort Worth, TX		Total U.S.
	#	%	#	%	#	%	#	%	#	%	#	%	
Age 0 to 4	4,709	8.7%	5,888	9.2%	8,386	7.9%	5,843	8.8%	4,532	9.2%	60,218	9.8%	6.9%
Age 5 to 9	5,211	9.6%	5,644	8.8%	8,566	8.1%	5,120	7.7%	3,908	7.9%	55,905	9.1%	6.7%
Age 10 to 14	4,853	9.0%	5,227	8.1%	8,200	7.7%	4,382	6.6%	3,438	7.0%	50,482	8.2%	6.5%
Subtotal	14,773	27.3%	16,759	26.0%	25,152	23.7%	15,345	23.1%	11,878	24.1%	166,605	27.0%	20.1%
Age 15 to 19	3,618	6.7%	5,244	8.1%	7,633	7.2%	3,991	6.0%	3,312	6.7%	48,693	7.9%	6.7%
Age 20 to 24	2,935	5.4%	5,115	7.9%	6,579	6.2%	4,696	7.1%	3,776	7.7%	50,512	8.2%	6.9%
Age 25 to 29	3,940	7.3%	5,056	7.9%	7,344	6.9%	5,311	8.0%	3,798	7.7%	53,817	8.7%	7.0%
Age 30 to 34	4,542	8.4%	5,088	7.9%	7,444	7.0%	5,053	7.6%	3,602	7.3%	52,479	8.5%	6.6%
Age 35 to 39	4,502	8.3%	4,304	6.7%	7,561	7.1%	4,468	6.7%	3,339	6.8%	47,787	7.7%	6.5%
Age 40 to 44	4,076	7.5%	3,897	6.1%	7,531	7.1%	4,242	6.4%	3,306	6.7%	45,271	7.3%	6.7%
Age 45 to 49	3,980	7.4%	3,916	6.1%	7,580	7.1%	4,391	6.6%	3,319	6.7%	45,546	7.4%	7.1%
Age 50 to 54	3,712	6.9%	3,510	5.5%	7,155	6.7%	4,195	6.3%	3,105	6.3%	42,051	6.8%	7.1%
Age 55 to 59	2,571	4.8%	2,955	4.6%	5,964	5.6%	3,573	5.4%	2,743	5.6%	35,308	5.7%	6.4%
Age 60 to 64	2,037	3.8%	2,519	3.9%	4,675	4.4%	2,864	4.3%	2,200	4.5%	29,094	4.7%	5.4%
Age 65 to 69	1,411	2.6%	1,911	3.0%	3,805	3.6%	2,239	3.4%	1,599	3.2%	22,180	3.6%	4.2%
Age 70 to 74	789	1.5%	1,442	2.2%	2,887	2.7%	1,816	2.7%	1,092	2.2%	16,452	2.7%	3.1%
Age 75 to 79	508	0.9%	1,081	1.7%	2,151	2.0%	1,553	2.3%	848	1.7%	12,478	2.0%	2.4%
Age 80 to 84	351	0.6%	788	1.2%	1,530	1.4%	1,296	1.9%	666	1.4%	9,921	1.6%	1.9%
Age 85 Plus	311	0.6%	762	1.2%	1,327	1.2%	1,502	2.3%	725	1.5%	10,579	1.7%	2.0%
TOTAL:	54,056	100.0%	64,347	100.0%	106,318	100.0%	66,535	100.0%	49,308	100.0%	617,163	100.0%	100%
Median Age	32.0		30.0		34.3		34.2		32.6		32.3		37.1
Source: DemographicsNow													

Source: DemographicsNow

Source: (Demographics Now)

Age Distribution South 3-Mile Radius

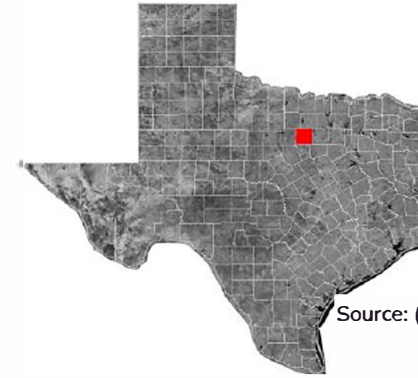
POPULATION AND AQUATIC AGE GROUPS

Design Criteria:

City Age groups Census	Aquatic Age groups Trend	3 Mile Age distribution South Ft Worth Percentages %	Criteria
			
Source: (Demographics Now)	Source: (Counsilman-Hunsaker)	Source: (Demographics Now)	

STUDY LOCATION

- The study location will focus in central southside Fort Worth location with a 3 mile distance ring surrounding the chosen site.



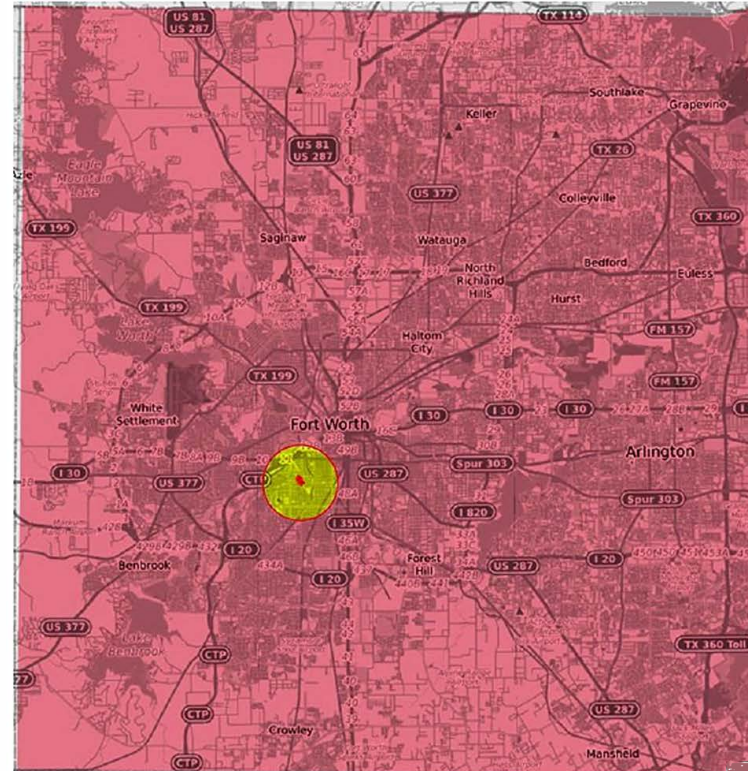
Source: (Google earth pro)

FT. WORTH

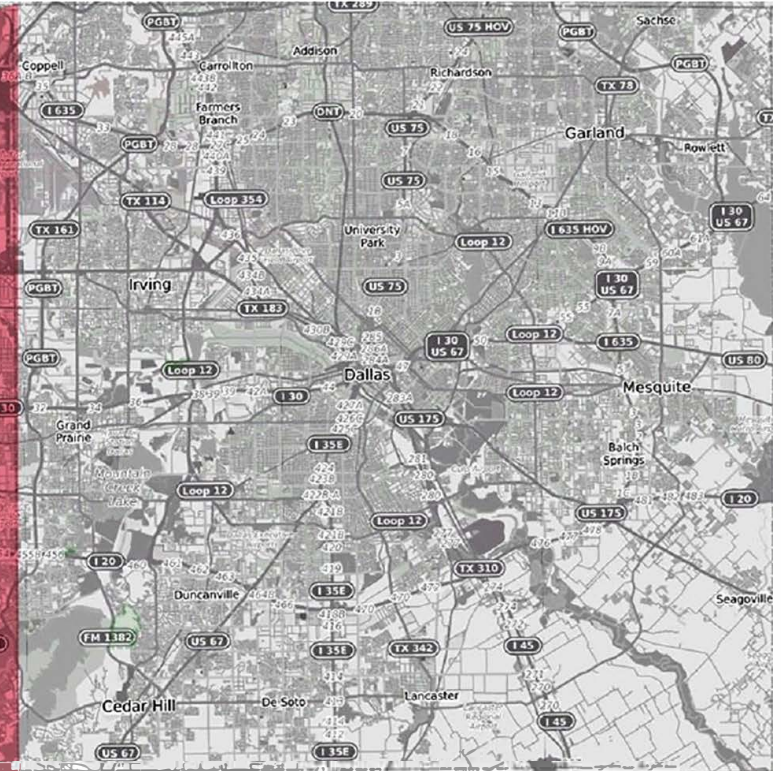


City of Ft Worth aquatic centers (AMP)(google maps)
(1)Forest park (South central Ft Worth)

TARRANT COUNTY



DALLAS COUNTY



Source: (Google earth pro)

ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

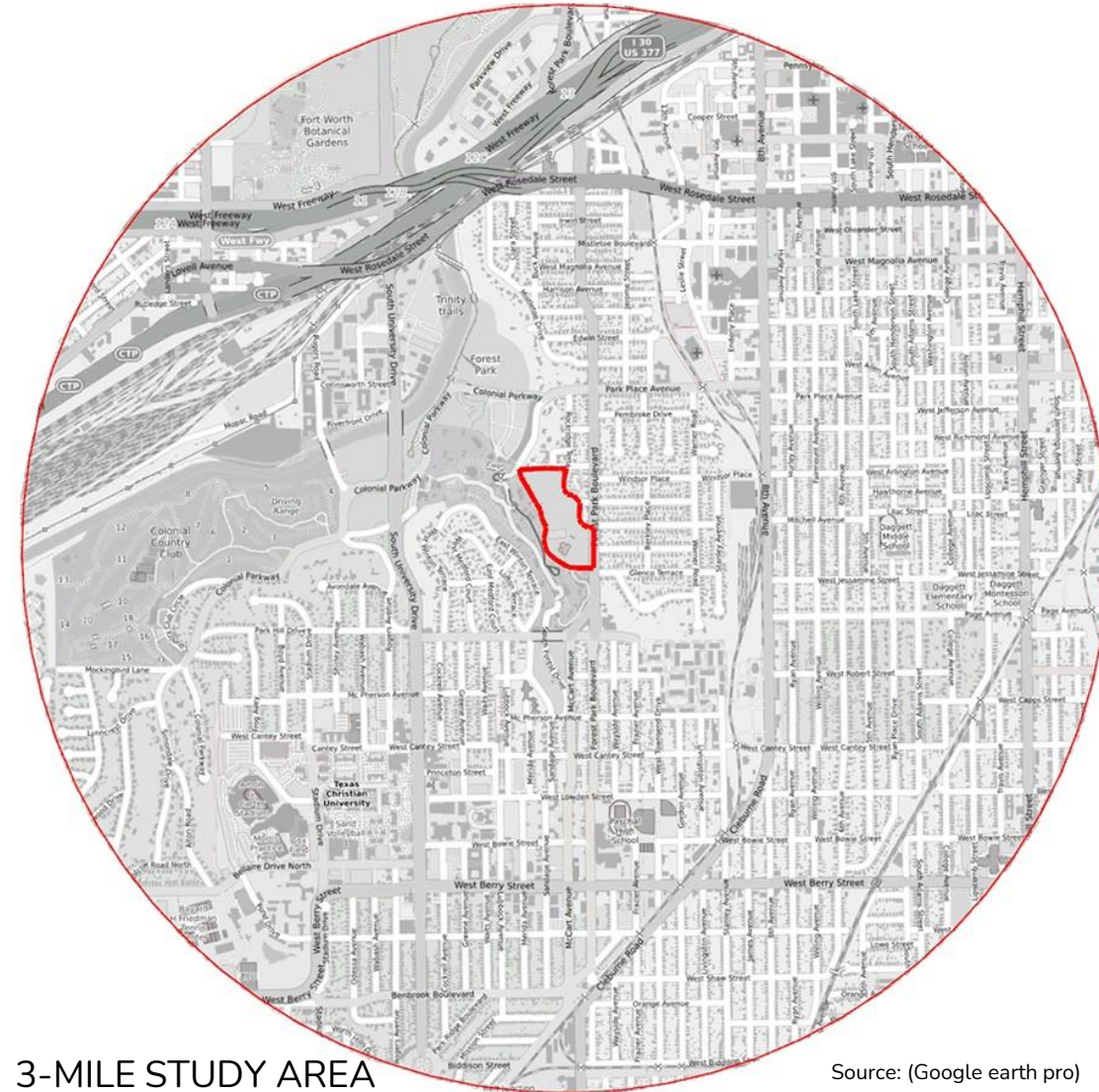
STUDY LOCATION

- The study location will focus in south Fort Worth Forest park location.



FOREST PARK

Source: (Google earth pro)

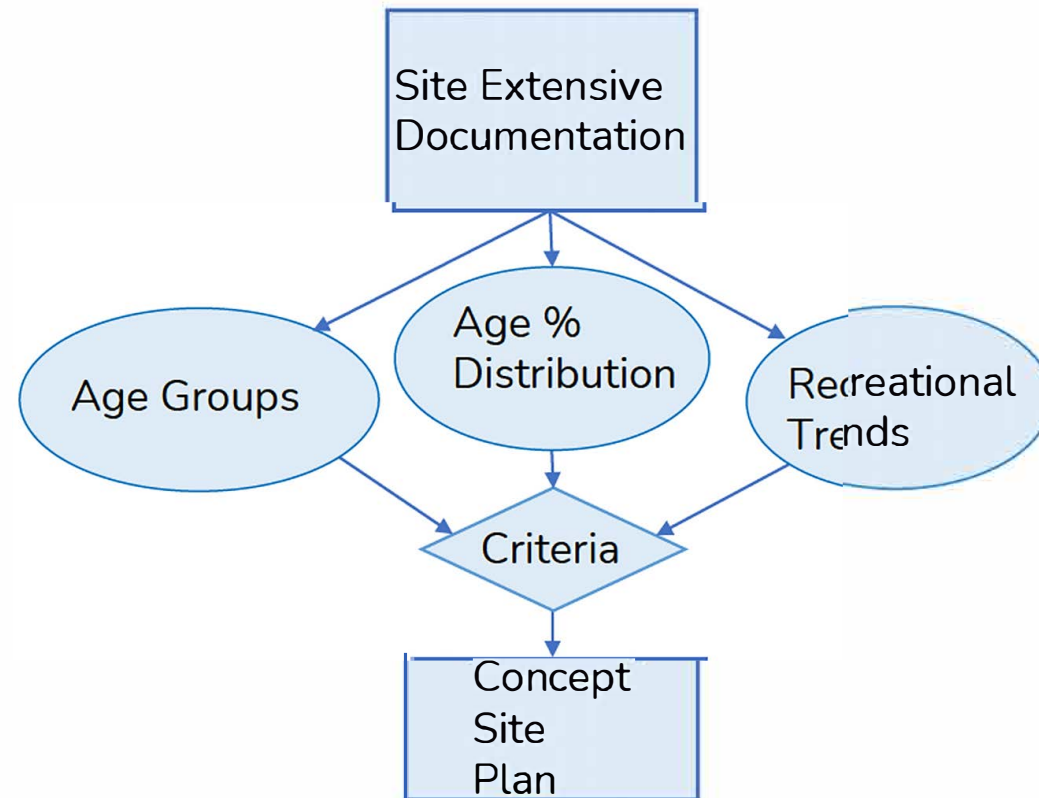


3-MILE STUDY AREA

Source: (Google earth pro)

DATA COLLECTION METHODS

- **Site Extensive Documentation :**
Archival data Secondary data:
Local and extended public pools(AMP)

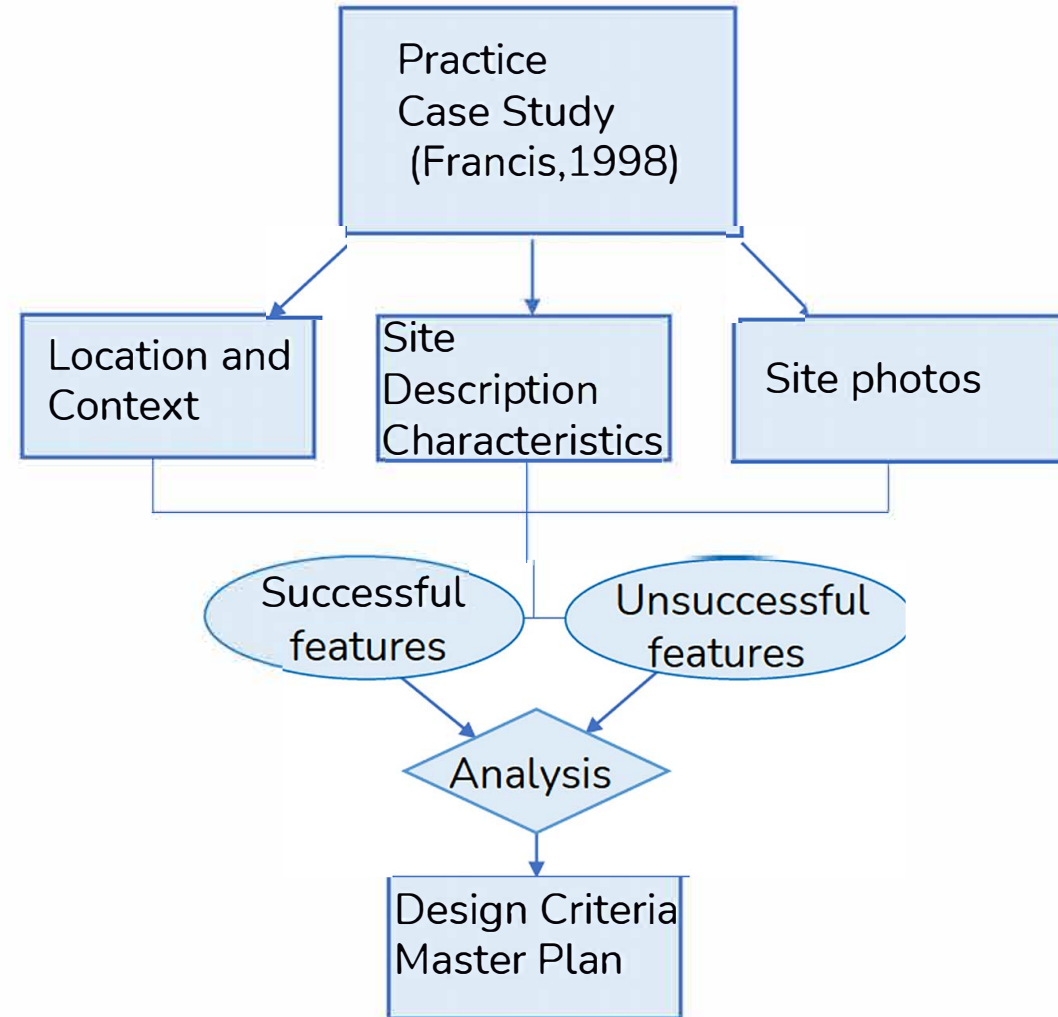


DATA COLLECTION METHODS

- **Case Studies: 2 Case studies**

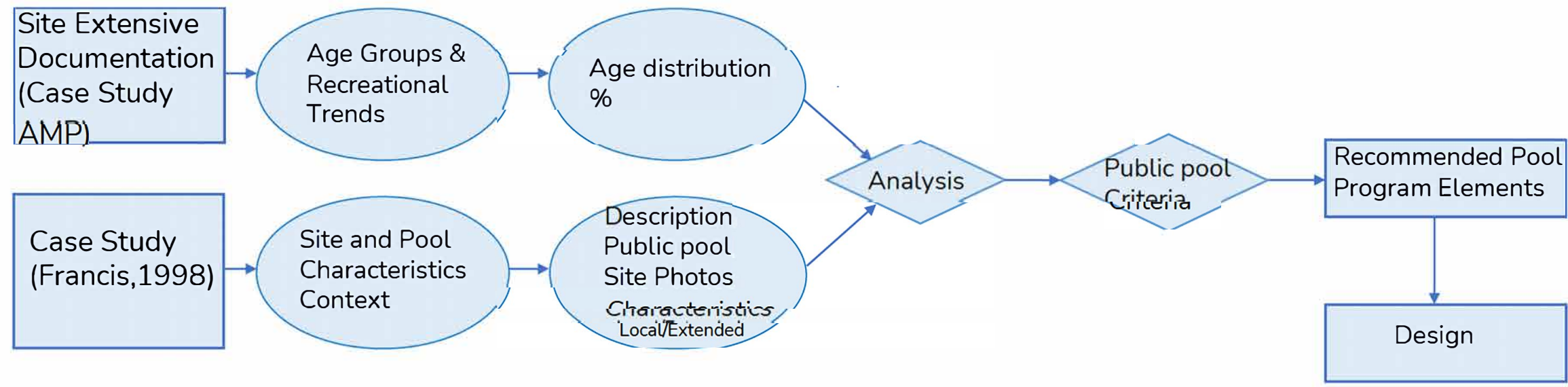
Observations, Site visits

Photos, Secondary data on local and extended Public pools (Marcus and Francis,1998)



DATA ANALYSIS METHODS: CASE STUDY

Synthesis



DATA ANALYSIS METHODS

Case Study Synthesis Evaluation Criteria:

Recreational Public Pool Criteria	Case Study	Case Study	Recreational Description	Recommended Program Elements from Case studies (Weighted scale)
	Public pool name Rank criteria	Public pool name Rank criteria		
+	+	+	=	?

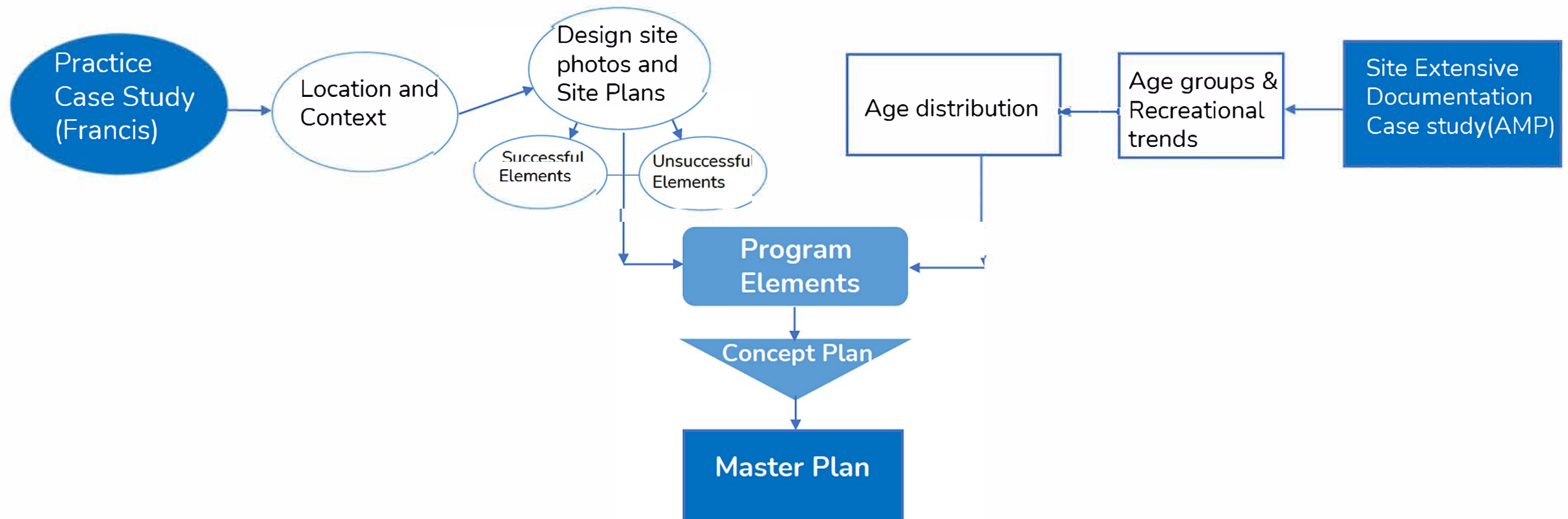
Source: (Demographics Now) Source: (Counsilman-Hunsaker)

SITE SELECTION CRITERIA:

- **FOREST PARK-** Last community Public Pool, South Fort Worth, TX
- **Connectivity-** to major public and residential areas
- **Access-** to major street arteries and thoroughfares
- **Park area-** 20 acres for potential facility expansion, open nature spaces, trails, bike routes
- **Park location-** Extensive population, eldest pool city standing

DESIGN PLANNING PROCESS

- All Data gathered from Case studies, Lit review, and Site documentation were taken in consideration for a suitable new Forest Aquatic park design.



SIGNIFICANCE AND LIMITATIONS

- Researcher is prone to errors in secondary data beyond his control.
- Site visits can bias documentation based on time of year and season

ANALYSIS AND FINDINGS

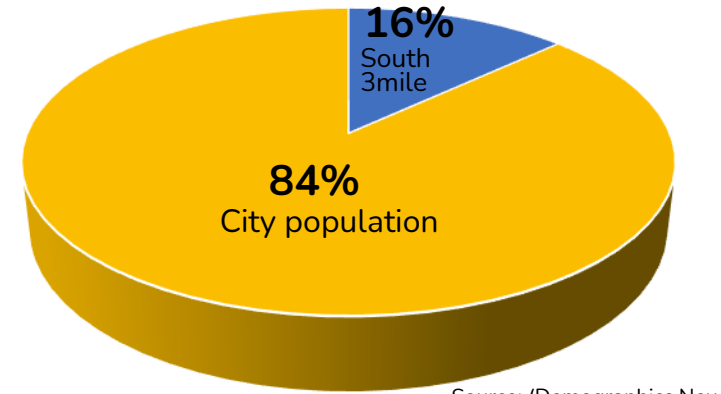
Source: (Google photos)

STUDY POPULATION

- The population base for the City of Fort Worth is 772,800 (Demographics Now 2010)
- The population in South Fort Worth, TX is 106,800 (Demographics Now 2010)

AGE DISTRIBUTION

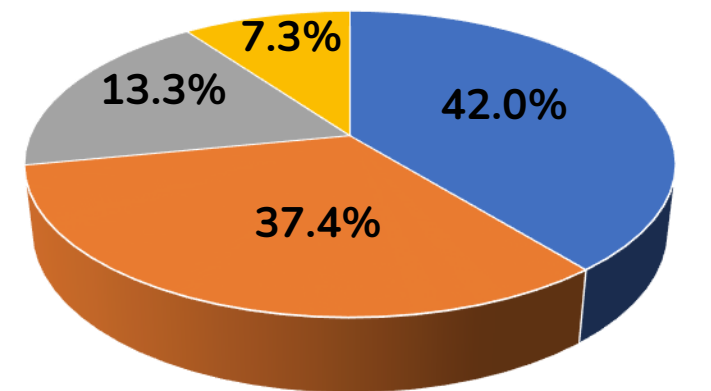
- The study population of 4 major age groups within a 3 mile radius surrounding in South Fort Worth TX. (Demographics Now 2010)



Source: (Demographics Now)

■ South 3-Mile ■ City Population

Market area Population Fort Worth, TX



Source: (Demographics Now)

■ 30-49 ■ 0-14 ■ 20-29 ■ 15-19

Age Distribution (South) 3-Mile Radius

FINDINGS TO POPULATION, AGE GROUPS AND TRENDS

- Age Groups
- Age Distribution %
- Recreational Trends
- Criteria

3 Mile Age Groups South Ft Worth %	Recreational Aquatic Age groups Trend	3 Mile South Ft Worth Total %	Recreational Age Group Considerations	
			Recreational Trends List	Recreational Criteria
0-14 37.4%	0-3	44.7%	tot pool, tot slides, spray features	Tot pool Tot slides Spray features gathering places sand volleyball
	4-7		Splash pad, beach entry, play features, sand play	mat racer diving board
	8-11		Water walks, Play structures, waterslides, open water	
15-19 7.3%	12-16		Water walks, waterslides, open water, lazy river, gathering places, sand volleyball, mat racer, diving board	Play features sand play water walks play structures waterslides open water lazy river
20-29 13.3%	17-22	13.3%	Action island, Intense waterslides, wave pool, mat racer, climbing wall, open water, sand volleyball, drop slides, diving board	Wave pool Climbing wall Drop slides
30-49 42.0%	23-45	42.0%	Beach entry, open water, spa, tanning ledge, lap pool, lazy river, waterslides, diving board	Spa Tanning ledge Lap pool
	46 +		Spa, tanning ledge, lap pool, lazy river, waterslides	

Source: (Demographics Now) Source: Counsilman-Hunsaker

CASE STUDY 1: Community Public Pool

- **Randol Mill-** Community Public Pool, Arlington, TX

Description: The Randol Mill Family Aquatic Center offers aquatic recreation for all members of the family. The facility includes interactive recreation elements such as a shallow water play structure, vortex pools, current channel, water slide and tot and leisure areas. The depth of pools ranges from zero depth to four feet deep Other amenities include two shade pavilions, shower facilities, deck furniture and concessions.

- **Successful features-** Swim lessons area, Lazy river with water features, Family friendly environment, space for expansion.
- **Unsuccessful features-** Waterslide on separate body of water, Help center placement for guests.



Source: (Google photos)

Randol Mill Community Pool
Arlington, Texas

CASE STUDY 2: Community Public Pool

- **Pirate's Bay Water Park-** Community Public Pool, Baytown, TX

Description: The facility has four winding slides, including one tube slide, Children's play area, A 671 foot long lazy river also winds throughout the park. Pirate's Bay also has pavilion and cabana rentals.

- **Successful features-** Park circulation, easy access , large parking areas, extended facilities.
- **Unsuccessful features-** Body slides, flow riders multiple tube slides.



Source: (Google photos)

Pirate's Bay Community Pool
Baytown, Texas

CASE STUDY 1 & 2

Evaluation Criteria:

Recreational Public Pool Criteria	Case Study 1	Case Study 2	Recreational Description	Recommended Program Elements from case studies (Weighted scale)
	Randol Mill Park Community Pool Arlington, TX	Pirates Bay Community Pool Baytown, TX		
Lap Pools	0	2	Essential to note that fitness lap swimming and water walking are important to many adults and seniors. Opportunities for limited practice and training exist in a two, three, or four lane 25-yard lap pool adjacent to leisure pool. Additionally, programming can be incorporated for lessons and group activities.	MEDIUM
Lazy Rivers	3	3	lazy river is part of the leisure pool, usually 6-8 feet wide with water traveling at approximately three miles per hour. The current channel can provide an ideal floating adventure with a tranquil ride on a relaxing journey going with the flow, or it can be used for walking against the current as a non-programmed or programmed exercise. This amenity provides a refreshing way for all ages to leisurely enjoy the water.	HIGH
Waterslides	1	3	Waterslides provide excellent recreation value and come in many shapes and sizes. The teen market is drawn to speed slides and drop slides. High-thrill swirl slides spin patrons around before shooting them down into the water.	HIGH
Play Features	1	1	Interactive play features bring recreational value to aquatic facilities. Children can slide down slides, scamper through spraying water, climb across bridges, and scurry over and under tunnels. chains, and ropes can be manipulated and transformed by the imagination. As children interact with these features, they control where and when the water sprays will occur.	MEDIUM
Leisure Pools	1	2	0 to 4 foot depth of leisure pools provides adults and children aquatic interaction, entertainment, relaxation and fun. With opportunity for many different sizes and designs, the leisure pool is a desirable attraction for all age and skill levels. Many different amenities can be incorporated for added amusement.	MEDIUM
Beach Entry	1	3	Zero-depth entry simulates an ocean beach as the pool bottom slopes gradually toward the deeper water. Instead of jumping or climbing into the pool, patrons simply walk in as they would at a beach.	HIGH
Climbing Walls	0	1	Fun alternative to slides and diving makes great addition to fitness and recreational programs	NON-EXISTENT
Shade Features	1	3	Shade umbrellas come in many styles and colors and provide necessary shade while lending a festive atmosphere. They cover, connect, and join areas while providing relaxation out of the sun	HIGH
Concessions	1	1	Access to food and drinks	MEDIUM
Dressing rooms- Rest rooms	1	1	Access to private clothes changing and Sanitary services	MEDIUM

SCALE: High-3, Medium-2, Low-1, Non-existent-0

CASE STUDY 3: Community Public Pool

- **Bad Konigshofen- Community Public Pool,** Arlington, TX

Description: The pool features an interactive spray pad, shallow water play pool, lap pool, diving area and two water slides. Other amenities include concessions, storage lockers, shower facilities, deck furniture and a shade pavilion..

- **Successful features-** Pool rentals, Splash Pad , possible extended facilities.
- **Unsuccessful features-** Far off concessions, Diving board, Deep water area.



Source: (Google photos)

Bad Konigshofen- Community Pool
Arlington, Texas

CASE STUDY 4: Community Public Pool

- **Splash in the Boro-** Community Public Pool, Statesboro, GA

Description: Included within the park is an 800-foot pool that simulates a river and encircles the play and leisure pools. The park also contains 25-meter lane pool and a 24,000-square-foot heated therapy pool. The park provides concessions with seating areas. Restrooms with family change areas and lockers are located within the facility

- **Successful features-** Pool rentals, Splash Pad , possible extended facilities, parking, accessibility.
- **Unsuccessful features-** Far off concessions, Family gathering areas.



Source: (Google photos)

Splash in the Boro- Community Pool
Statesboro, Georgia

CASE STUDY 3 & 4

Evaluation Criteria:

Recreational Public Pool Criteria	Case Study 3 Bad Konigshofen Community Pool Arlington, TX	Case Study 4 Splash-n-the-Boro Waterpark Statesboro, GA	Recreational Description	Recommended Program Elements from Case studies (Weighted scale)
Lap Pools	3	3	Essential to note that fitness lap swimming and water walking are important to many adults and seniors. Opportunities for limited practice and training exist in a two, three, or four lane 25-yard lap pool adjacent to leisure pool. Additionally, programming can be incorporated for lessons and group activities.	HIGH
Lazy Rivers	0	3	lazy river is part of the leisure pool, usually 6-8 feet wide with water traveling at approximately three miles per hour. The current channel can provide an ideal floating adventure with a tranquil ride on a relaxing journey going with the flow, or it can be used for walking against the current as a non-programmed or programmed exercise. This amenity provides a refreshing way for all ages to leisurely enjoy the water.	MEDIUM
Waterslides	2	3	Waterslides provide excellent recreation value and come in many shapes and sizes. The teen market is drawn to speed slides and drop slides. High-thrill swirl slides spin patrons around before shooting them down into the water.	HIGH
Play Features	2	1	Interactive play features bring recreational value to aquatic facilities. Children can slide down slides, scamper through spraying water, climb across bridges, and scurry over and under tunnels. chains, and ropes can be manipulated and transformed by the imagination. As children interact with these features, they control where and when the water sprays will occur.	MEDIUM
Leisure Pools	2	2	0.25-4 foot depth of leisure pools provides adults and children aquatic interaction, entertainment, relaxation and fun. With opportunity for many different sizes and designs, the leisure pool is a desirable attraction for all age and skill levels. Many different amenities can be incorporated for added amusement.	HIGH
Beach Entry	2	3	Zero-depth entry simulates an ocean beach as the pool bottom slopes gradually toward the deeper water. Instead of jumping or climbing into the pool, patrons simply walk in as they would at a beach.	HIGH
Climbing Walls	0	1	Fun alternative to slides and diving makes great addition to fitness and recreational programs	NON-EXISTENT
Shade Features	2	3	Shade umbrellas come in many styles and colors and provide necessary shade while lending a festive atmosphere. They cover, connect, and join areas while providing relaxation out of the sun	MEDIUM
Concessions	1	1	Access to food and drinks	MEDIUM
Dressing rooms- Rest rooms	1	1	Access to private clothes changing and Sanitary services	MEDIUM

SCALE: High-3, Medium-2, Low-1, Non-existent-0

DESIGN CONSIDERATIONS FOR: Forest park Community Pool

Recreational Public Pool Criteria	Recreational Description	Desian Considerations Program (Weiahted scale)
Lap Pools	Essential to note that fitness lap swimming and water walking are important to many adults and seniors. Opportunities for limited practice and training exist in a two, three, or four lane 25-yard lap pool adjacent to leisure pool. Additionally, programming can be incorporated for lessons and group activities.	HIGH
Lazy Rivers	lazy river is part of the leisure pool, usually 6-8 feet wide with water traveling at approximately three miles per hour. The current channel can provide an ideal floating adventure with a tranquil ride on a relaxing journey going with the flow, or it can be used for walking against the current as a non-programmed or programmed exercise. This amenity provides a refreshing way for all ages to leisurly enjoy the water.	HIGH
Waterslides	Waterslides provide excellent recreation value and come in many shapes and sizes. The teen market is drawn to speed slides and drop slides. High-thrill swirl slides spin patrons around before shooting them down into the water.	HIGH
Play Features	Interactive play features bring recreational value to aquatic facilities. Children can slide down slides, scamper through spraying water, climb across bridges, and scurry over and under tunnels. chains, and ropes can be manipulated and transformed by the imagination. As children interact with these features, they control where and when the water sprays will occur.	MEDIUM
Leisure Pools	0-to-4-foot depth of leisure pools provides adults and children aquatic interaction, entertainment, relaxation and fun. With opportunity for many different sizes and designs, the leisure pool is a desirable attraction for all age and skill levels. Many different amenities can be incorporated for added amusement.	HIGH
Beach Entry	Zero-depth entry simulates an ocean beach as the pool bottom slopes gradually toward the deeper water. Instead of jumping or climbing into the pool, patrons simply walk in as they would at a beach.	HIGH
Shade Features	Shade umbrellas come in many styles and colors and provide necessary shade while lending a festive atmosphere. They cover, connect, and join areas while providing relaxation out of the sun	HIGH
Concessions	Access to food and drinks	MEDIUM
Dressing rooms- Rest rooms	Access to private clothe changing and Sanitary services	MEDIUM

SCALE: High-3, Medium-2, Low-1, Non-existent-0

PROGRAM ELEMENTS FOR Forest park Community Pool:

- **Lap Pool-** Essential to note that fitness lap swimming and water walking are important to many adults and seniors
- **Lazy River-** Lazy river is part of the leisure pool, usually 6-8 feet wide with water traveling at approximately three miles per hour.
- **Waterslides-** Waterslides provide excellent recreation value and come in many shapes and sizes. High-thrill swirl slides spin patrons around before shooting them down into the water.
- **Leisure pools-** 0 to 4 foot depth of leisure pools provides adults and children aquatic interaction, entertainment, relaxation and fun, the leisure pool is a desirable attraction for all age and skill levels.
- **Beach Entry-** Zero-depth entry simulates an ocean beach as the pool bottom slopes gradually toward the deeper water.
- **Shade features-** Shade umbrellas come in many styles and colors and provide necessary shade while lending a festive atmosphere. They cover, connect, and join areas while providing relaxation out of the sun.

PROGRAM ELEMENTS FOR: Forest park Community Pool

- **Play features-** Interactive play features bring recreational value to aquatic facilities. Children can slide down slides, scamper through spraying water, climb across bridges, and scurry over and under tunnels. chains, and ropes can be manipulated and transformed by the imagination. As children interact with these features ,they control where and when the water sprays will occur.
- **Concessions-** Access to food and drinks inside the water park.
- **Dressing rooms-** Access to dressing rooms for security inside water park.
- **Restrooms-** Access to sanitary facilities inside water park.

 DESIGN

SELECTED SITE

- **FOREST PARK-** Last community Public Pool, South Fort Worth, TX
- **Connectivity-** to major public and residential areas
- **Access-** to major street arteries and thoroughfares
- **Park area-** 20 acres for potential facility expansion, open nature spaces, trails, bike routes
- **Park location-** Extensive population, eldest pool city standing



Source: (Google earth pro)

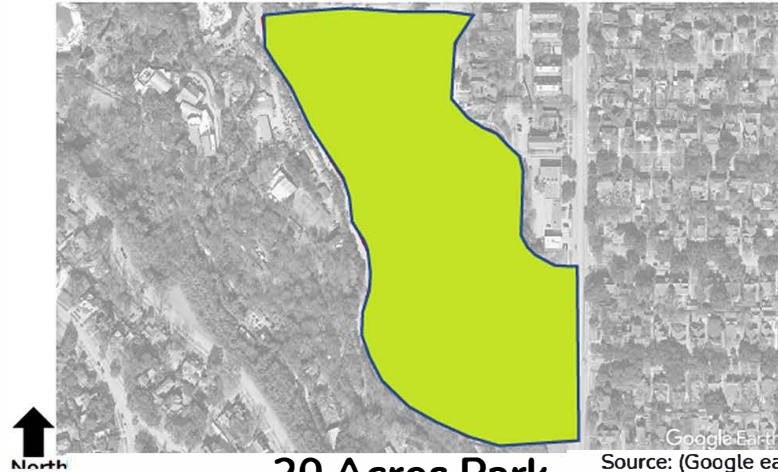
Source: North Central Texas
Council of Governments



REGIONAL CONTEXT

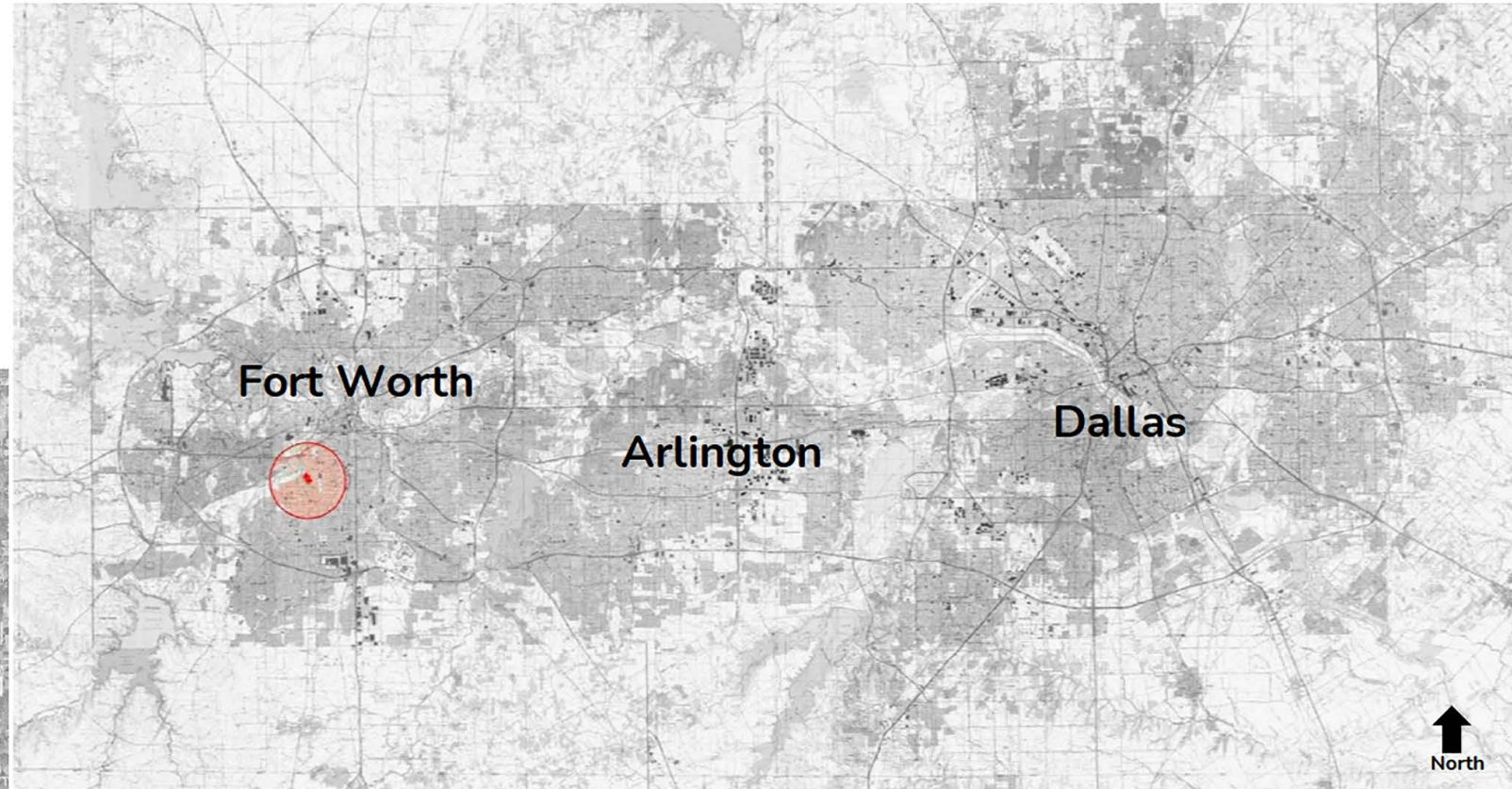
FOREST PARK PARK :

- Tarrant County - Fort Worth, TX
- Located approx. 2 miles south of Downtown Fort Worth.
- Approx. 20 Acres



20 Acres Park

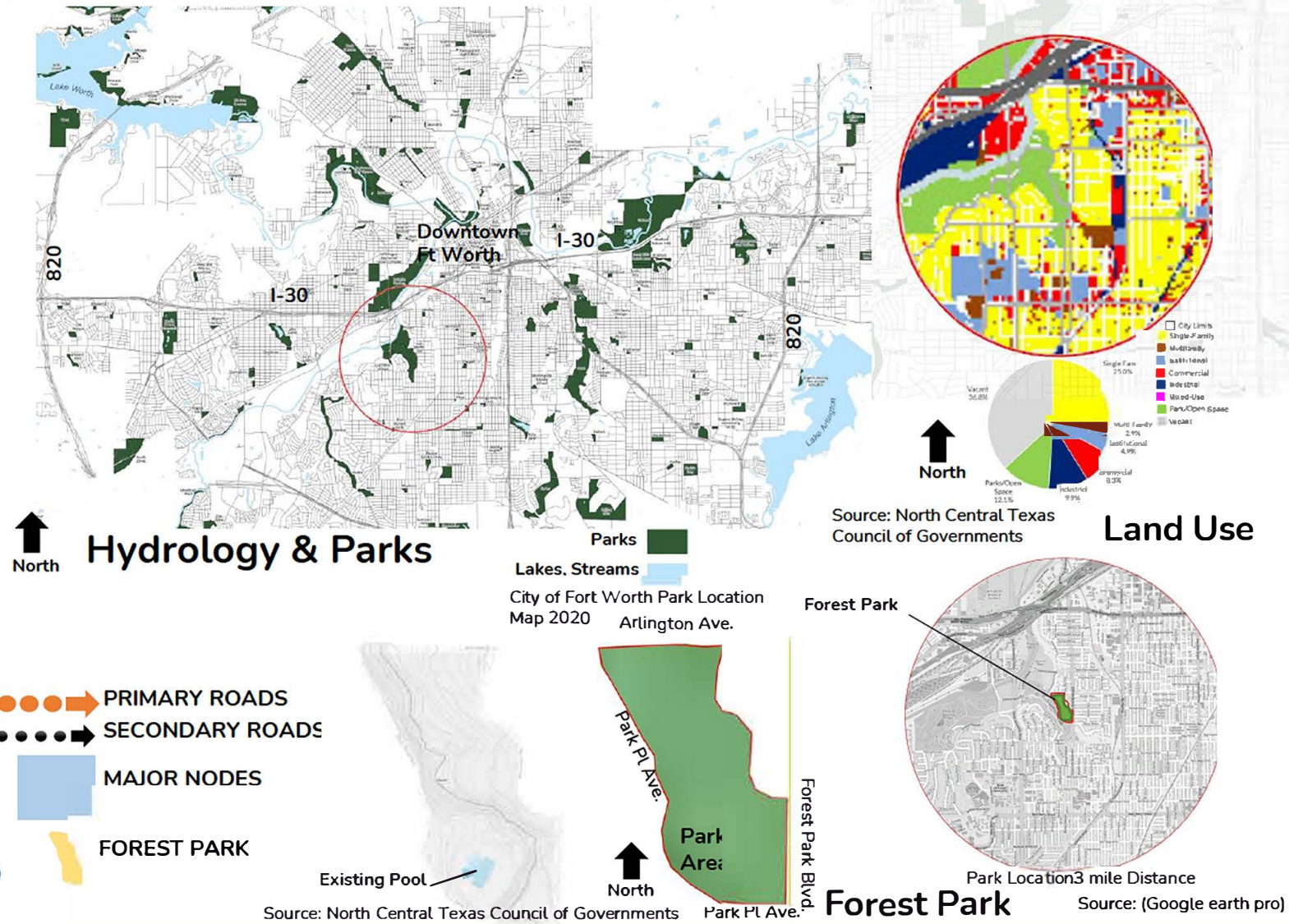
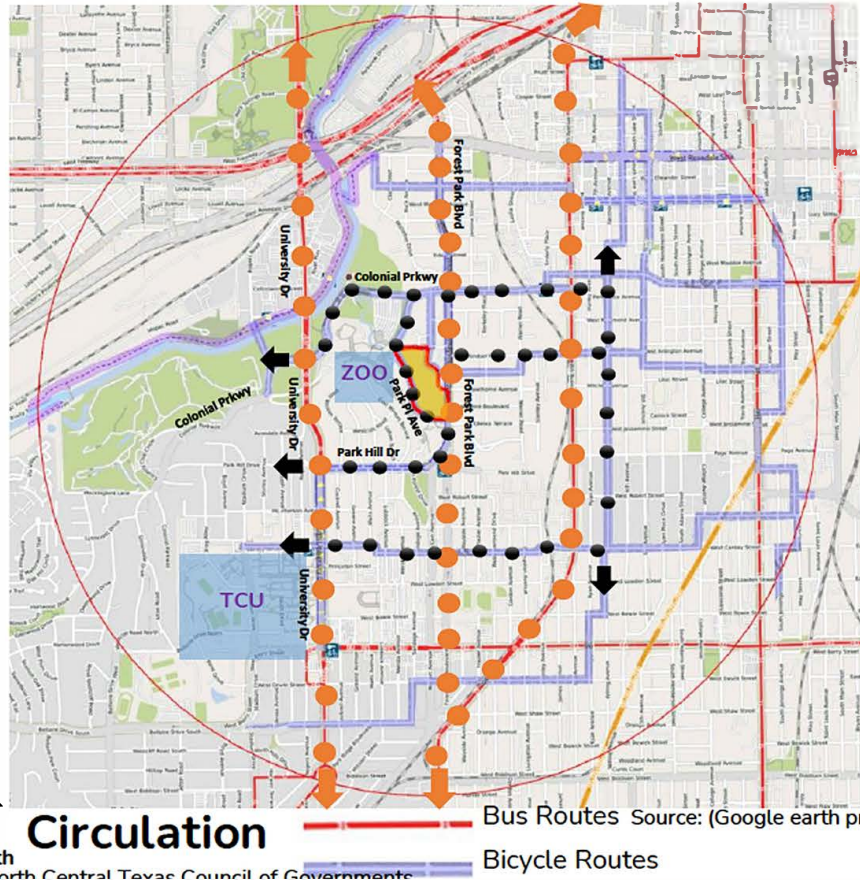
Source: (Google earth pro)



Source: (Google earth pro)

SITE ANALYSIS

FOREST PARK:

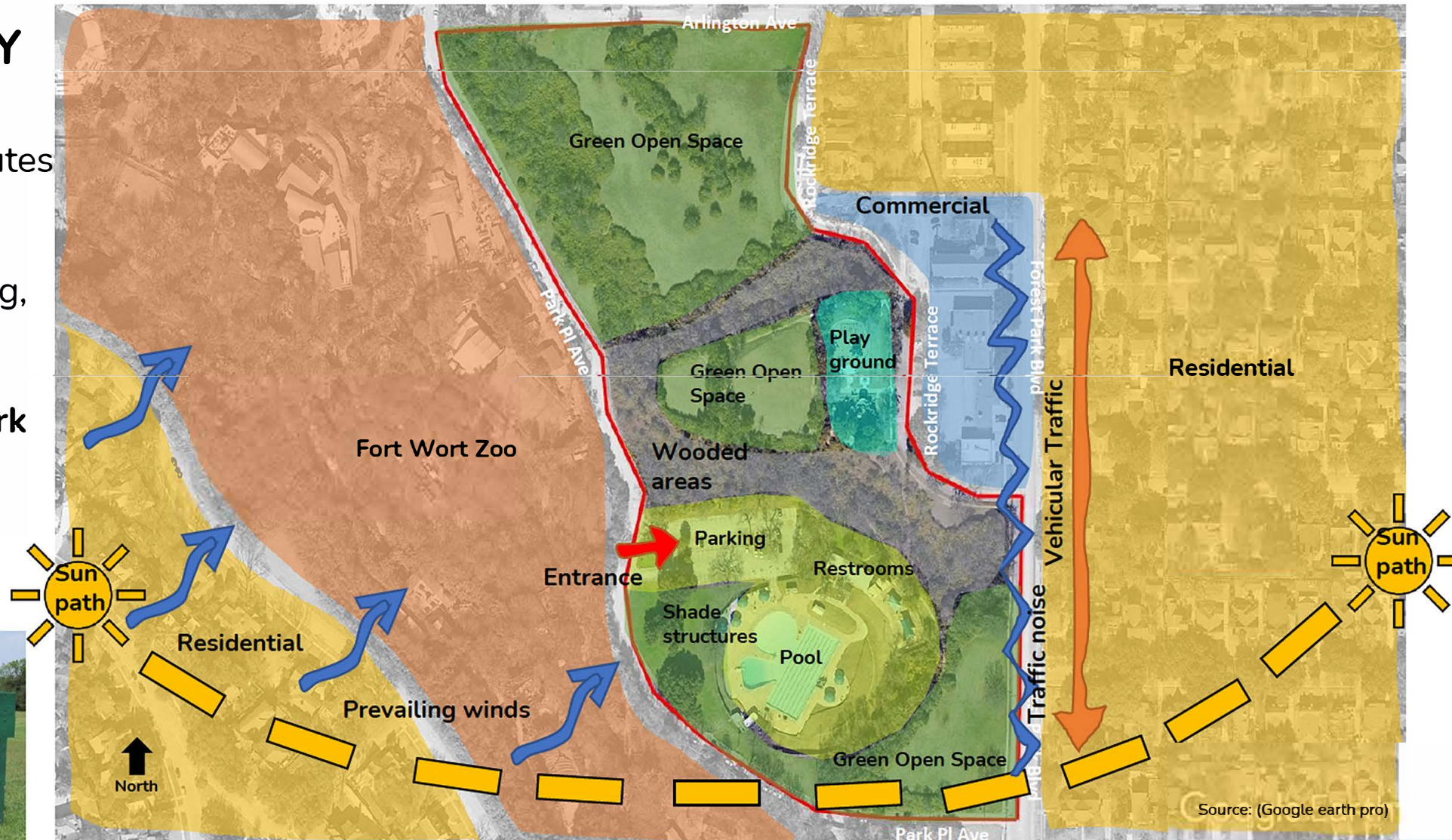


ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

Circulation SITE INVENTORY

FOREST PARK:

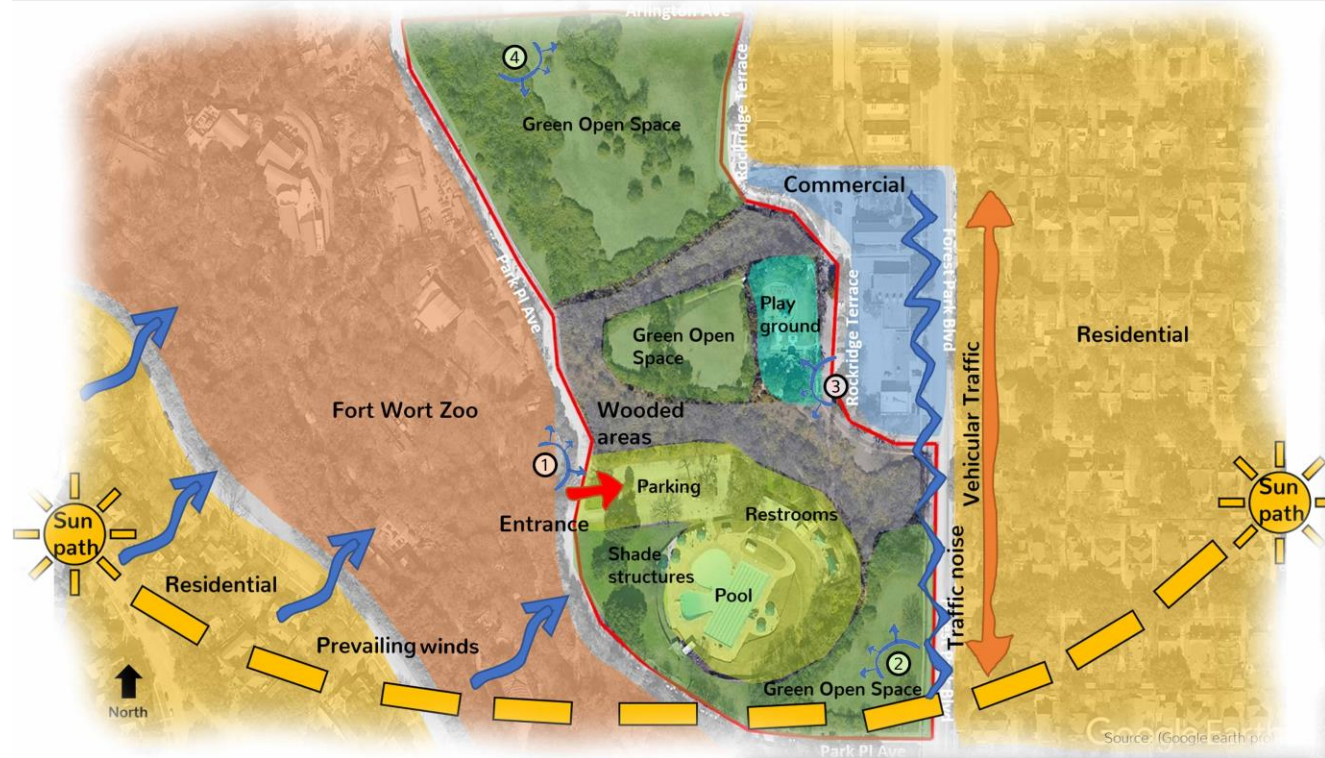
- 20 Acres-Bicycle routes
Walking trail.
- Children Playground
- Existing Pool, Parking, Shade areas, Pool Facilities.
- **Extended Forest Park**
Benches, Bike racks, Electrical boxes, Grills, Parking lots, Shelters, Tables, Stand alone swings.



ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

SITE INVENTORY

ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



LEGEND:



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ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

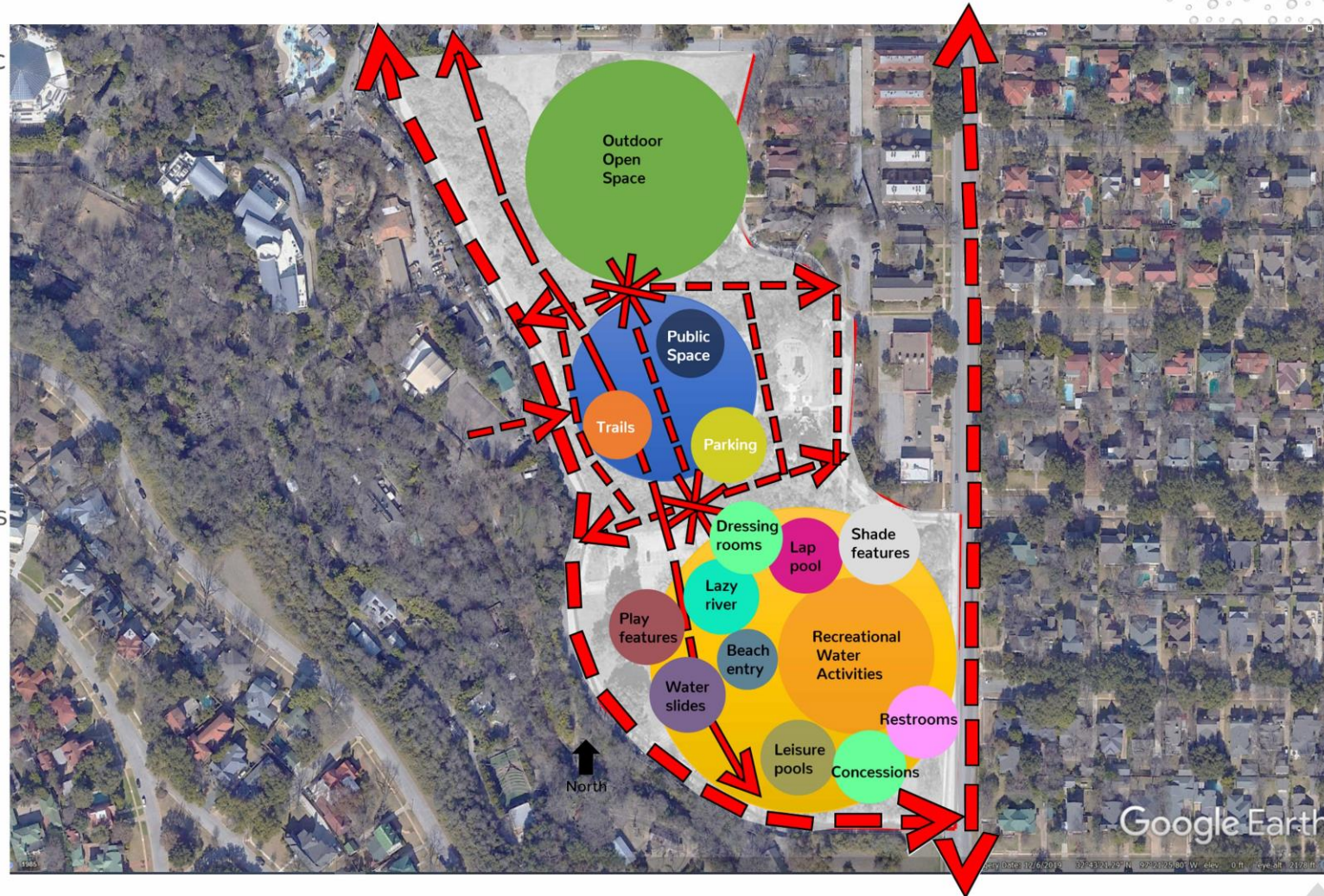
CONCEPT

ADDRESSING OBSOLESCENCE IN FORT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK

Forest Park
Community Public
City Pool

PROGRAMMATIC ELEMENTS:

1. Lap Pool
2. Lazy River
3. Leisure Pool
4. Beach Entry
5. Play Features
6. Waterslides
7. Shade Features
8. Concessions
9. Dressing Rooms
10. Restrooms



MASTER PLAN

ADDRESSING OBSOLESCENCE IN FORT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

PERSPECTIVE

ADDRESSING ABSOLESCENCE IN FORT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



PERSPECTIVES

ADDRESSING OBSOLESCENCE IN FORT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



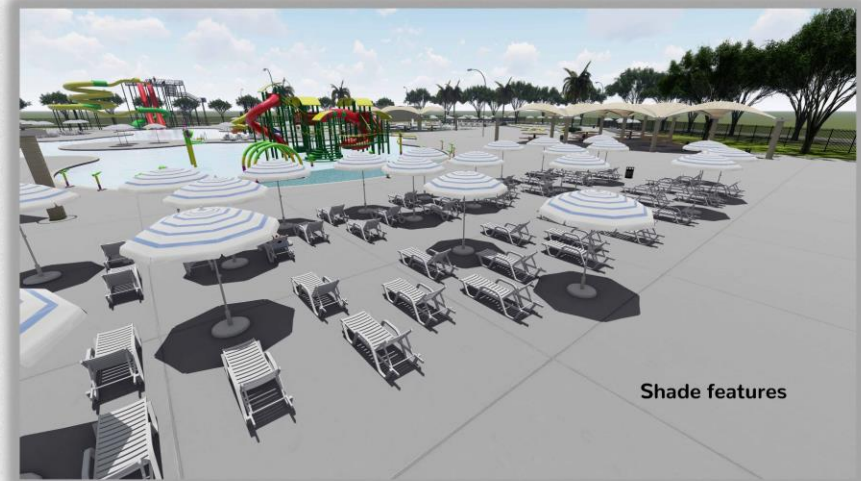
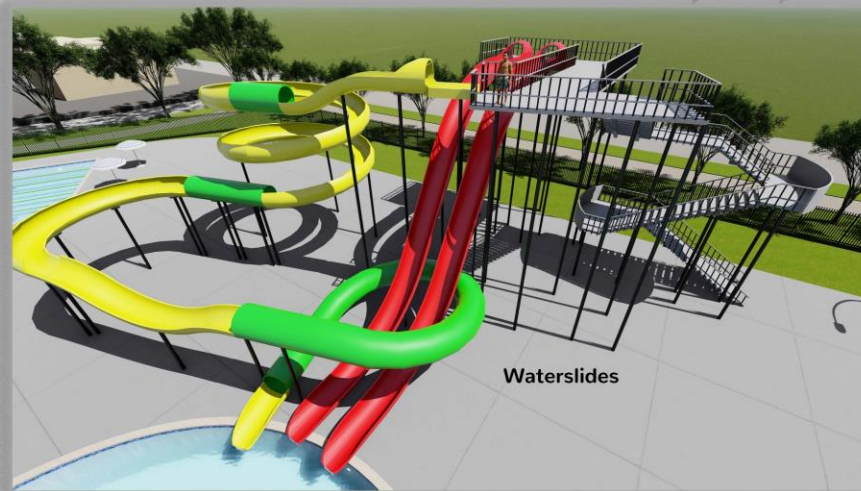
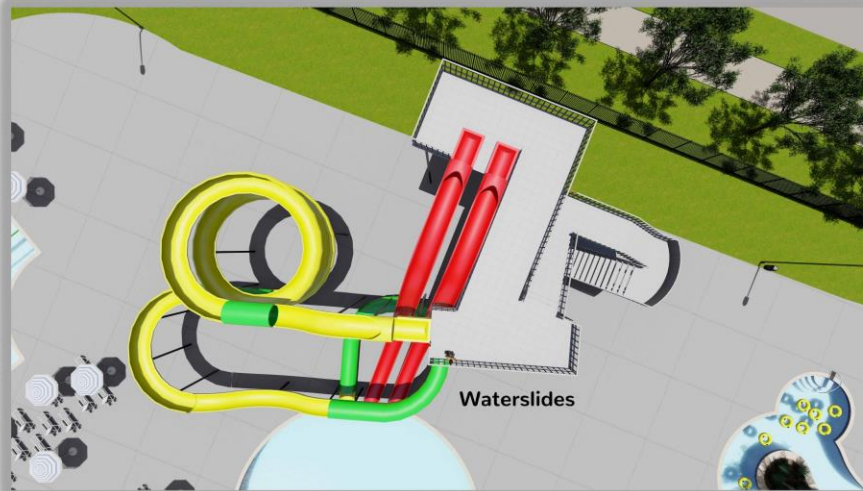
PERSPECTIVES

ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



PERSPECTIVES

ADDRESSING OBSOLESCENCE IN FORT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



PERSPECTIVES

ADDRESSING ABSOLESCENCE IN FORT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK COMMUNITY AQUATIC PARK



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ADDRESSING OBSOLESCENCE IN FT WORTH PUBLIC POOLS:
ENHANCING FOREST PARK PUBLIC CITY POOL

CONCLUSION:

- According to the study, the existing Forest Park Community Pool can be replaced by a successful and effective Class B **Recreational** public city swimming pool.
- Recreational city swimming pools is the most successful aquatic design for municipalities, meeting users current trends and encourages participation of all age groups.

RELEVANCE TO LANDSCAPE ARCHITECTURE:

- Aquatic engineers are consultants to Landscape architects and are only used for to make critical decisions on pool operational systems.
- Landscape architects make overall critical decisions on public city pools including , but not limited to park circulation, building facilities, infrastructure.
- Landscape architects have the responsibility to create ecological and conservation park areas.

FUTURE RESEARCH:

According to the study, the need for more public pools in within the city to serve other communities to include medium size facilities with various bodies of water.

The use of Splash pads features to enhance recreation at community city parks. These are cost effective facilities that use minimal water and can be operated without certified lifeguards.

The use of new Regional aquatic centers of large scale with cutting edge amenities.

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