

Monthly Developer/Consultant Process Training

Platting, Studies and Dedications

Session 2

April 11, 2018



What is a Plat?

- A **Plat** is a map depicting a **piece of land** and illustrates the owner's **intention to subdivide** the land
- When **approved** by City and/or County and **recorded** in the county courthouse, a plat:
 - Creates legal lots of record
 - Assigns legal descriptions
 - Dedicates public spaces
 - Establishes easements



Texas Local Government Code (TLGC)

• Governs **regulation** of land division and development

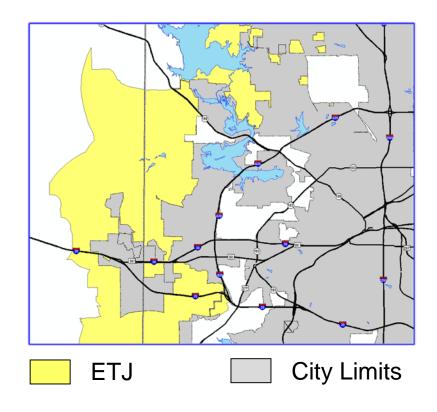
- TLGC **requires a plat** to lay out lots or to lay out parts for public use or for the use of adjacent lots
- TLGC **does not require a plat** under these conditions:
 - All parts are greater than 5 acres, each part has access, and no public improvements need to be dedicated
 - Consanguinity: Four or fewer parts transferred to a relative (County only)



City Authority Over Platting

- **TLGC, Chapter 212** states City may adopt **rules** governing plats:
 - To promote the health, safety, morals, or general welfare of the municipality, and
 - To promote the safe, orderly, and healthful **development** of the municipality
- Extraterritorial Jurisdiction (ETJ)

- City may extend platting rules to ETJ
- Interlocal agreements with Counties (Tarrant, Denton, Parker, Wise & Johnson)



City Limitations Under Chapter 212

• City **shall approve** a plat if it:

- Conforms to the City's general plan
- Conforms to City's **rules** governing plats and subdivisions of land (Subdivision Ordinance)
- Required **bond is filed**
- City shall act on a plat within 30 days after it is submitted (studies must be accepted for a complete application)
- A plat is considered approved unless it is disapproved within that time period, subject to meeting conditions





Subdivision Ordinance

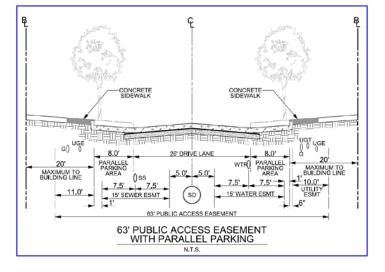
- The primary document of regulations and incorporates:
 - Plans such as Master Thoroughfare Plan
 - **Policies** such as Neighborhood & Community Park Dedication Policy
 - Ordinances such as Stormwater management
 - Development standards such as Trinity Uptown
 - **Design standards** such as technical design criteria for streets

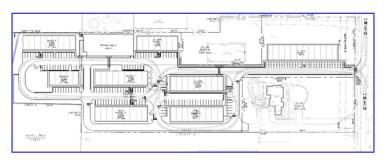


City Plan Commission

 Reviews Development Review Committee's (DRC's) recommendations and when in compliance with Subdivision Ordinance:

- Approves Concept Plans and Preliminary Plats
- Approves Replats that increase residential density
- When **not in compliance** with Subdivision Ordinance:
 - May approve plans and plats with a waiver of a regulation where the effect is not detrimental to public health, safety or welfare
 - May also approve a plan or plat, but deny a **waiver**





City Plan Commission

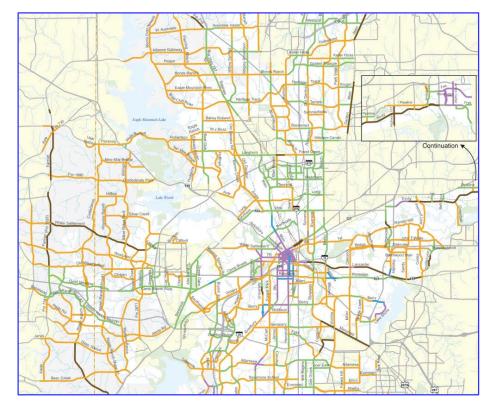
- Conditional approval allowed when:
 - MTP Amendment required

- **Rezoning** application pending
- Changes that require a **public hearing**
 - Changes in land use, zoning, street types, the configuration of street patterns, connections to perimeter streets
 - An increase in development intensity or extensions to the perimeter boundary of the subdivision to un-subdivided land



Master Thoroughfare Plan (MTP)

- Long-range plan for major transportation facilities, not targeted to a **specific point** in the future
- Ultimate development of the City's thoroughfare network
- Adopted in May 2016, change in philosophy from a classification system to street types that are context sensitive and promote complete streets





MTP Amendments

- Waivers/amendments are mandatory for both City and Developer projects that do not meet requirements.
- Amendments are needed when there is a change proposed to the MTP maps (street type, number of lanes, alignment) or policies within the document.
 <u>Some amendments can be handled administratively, while some must be heard</u> <u>by the City Plan Commission</u>.
- Application required. The amendment application can be found online at <u>www.fortworthtexas.gov/MTP</u>



MTP Waivers

- When there is a change proposed that does not change either the MTP maps or policy document, such as deviation from the adopted cross-section or minor alignment shifts. <u>Some waivers can be handled administratively, while some</u> <u>must be heard by the City Plan Commission</u>.
- Application required. Waiver applications can be found online at <u>www.fortworthtexas.gov/MTP</u>
- Requests to waive a sidewalk (any sidewalk required that's less than 8') is a TPW administrative waiver.

MTP Amendments

Administrative Amendment

 Alignment changes <1,000 ft w/ owners permission

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 Changes to other plans (e.g. bike plan changes a corridor recommendation)

Plan Commission Amendment

- New thoroughfares
- >1,000 feet change
- Affected owners permission not granted
- Changing thoroughfare class (e.g. connector to system link)
- Changes to number of through lanes
- Cross-section added/removed

MTP Waivers

Administrative Waiver

• Changes to median width, buffers, etc.

FORT WORTH.

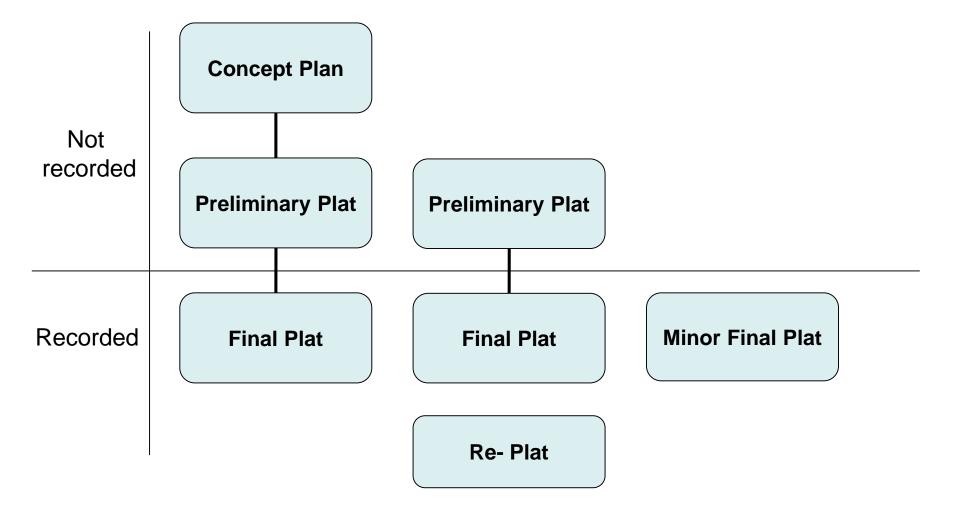
 Addition of crosssectional element: no added ROW

Plan Commission Waiver

- Increase or decrease adopted ROW
- Change in width of travel, bike, and/or transit lanes, sidepaths; includes Established Thoroughfares

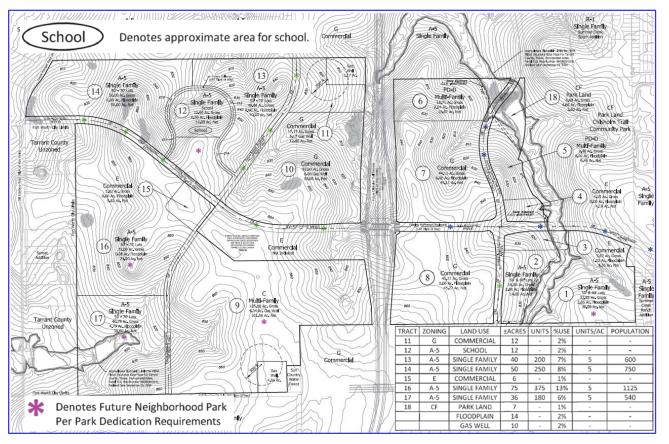


Types of Plats



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Concept Plan



Approved by Plan Commission and not recorded with County

Required when:

- Contiguous parcels > 640 acres
- Preliminary plats presented in phases
- Within City or proposed for annexation

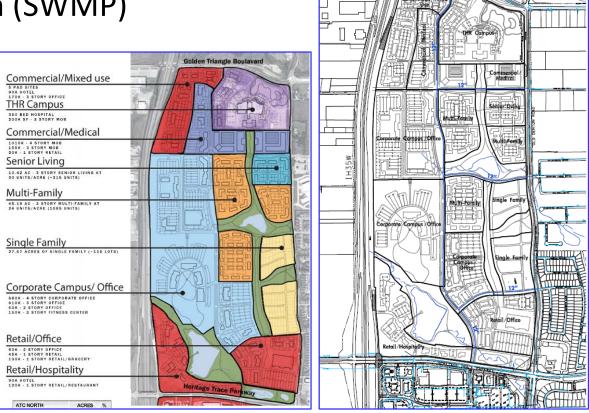
Illustrates:

- Major street patterns
- Land use
- Public facilities

Required Studies for Concept Plan

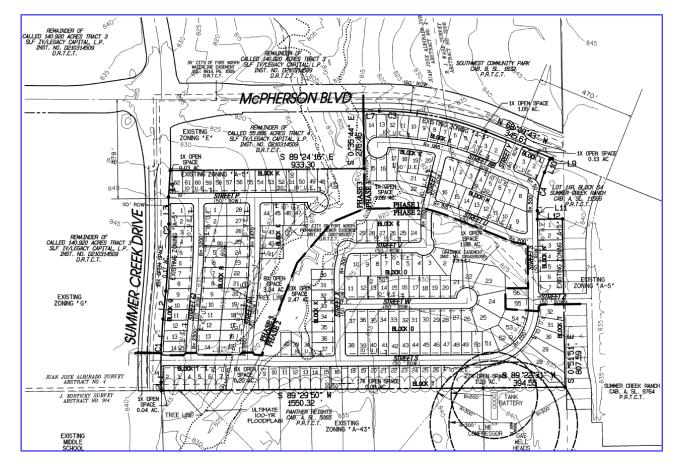
- Conceptual Stormwater Management Plan (SWMP)
 - Pre-development drainage
 - Impacts of proposed development
 - Proposed stormwater **controls**
- Traffic Impact Analysis (TIA)

- More than 5,000 daily trips
- Assesses impacts within one mile
- Comprehensive Water and Sewer Studies
 - Pre-development capacity
 - Impact of ultimate build out



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Preliminary Plat



Approved by Plan Commission and not recorded with County

Required when:

- Five or more lots proposed
- Final plats presented in phases
- New street dedication
- Must conform to Concept Plan, if applicable

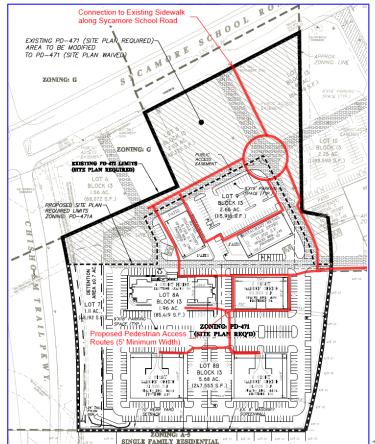
Illustrates:

- Internal street design & circulation
- Block pattern and length/ HOA lots
- Lot configuration and orientation
- Gas well setbacks

Required Studies for Preliminary Plat

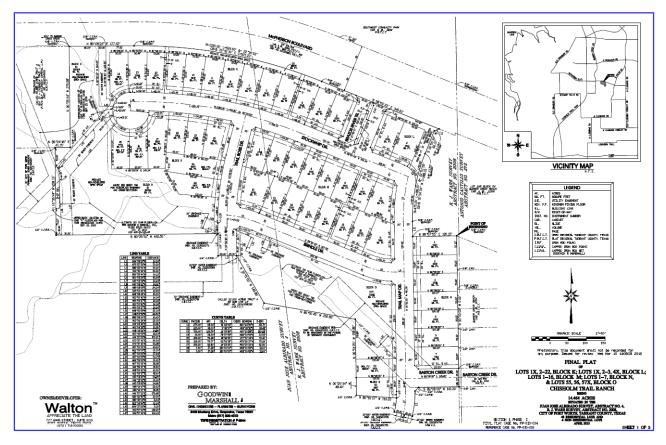
- Preliminary Stormwater Management Plan (SWMP)
 - **Downstream properties** that could be affected
 - Existing, proposed, and fully-developed runoff
 - Existing conveyance systems
 - Capacity of existing **constraint points**
- Traffic Assessment Study (TAS)

- Between 1,000 and 5,000 daily trips
- Assesses impact within ½ mile
- Comprehensive Water and Sewer Studies



FORT WORTH.

Final Plat



Approved administratively and recorded with County

Comments to be met:

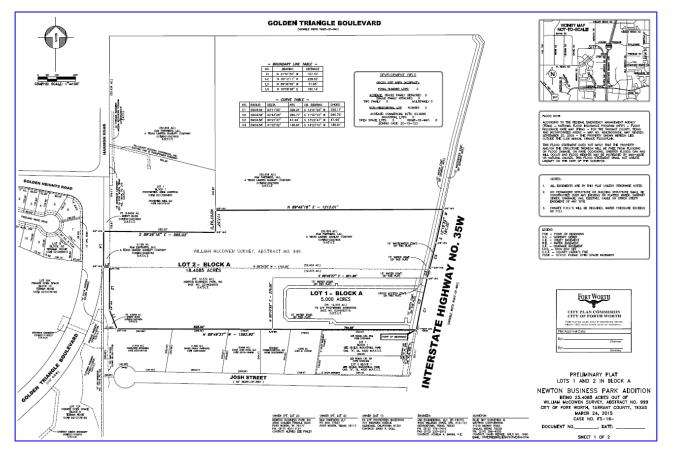
- Must conform to the approved Preliminary Plat
- Lots meet zoning district requirements

Illustrates:

- Lot configuration and orientation
- Easements such as utility, drainage and access
- Public facilities and spaces/ HOA lots
- New street names
- Gas well setbacks



Minor Final Plat



Approved administratively, and recorded with County

Permitted when:

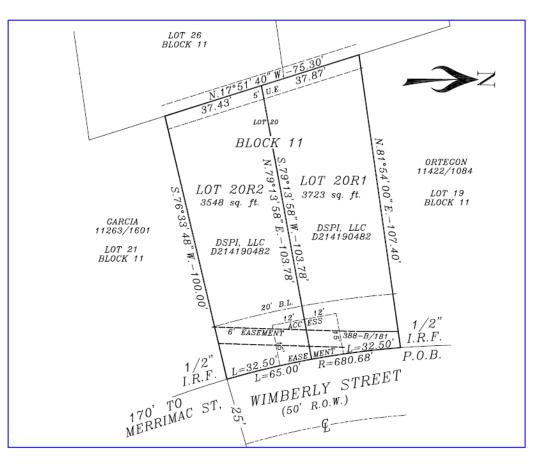
- Four or fewer lots proposed
- Direct access to an existing street
- No new street dedication
- Lots meet zoning district requirements

Illustrates:

 Describes in detail lots, public areas and easements



Replat (Final Plat)



Previously platted lots may be replatted without vacating the previous plat of record, and recorded with County

May be administrative when:

- No additional single-family or two-family lots are created
- Minor street adjustments
- Otherwise, approved by City Plan
 Commission

Illustrates:

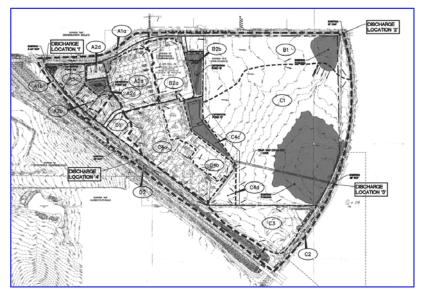
- Describes lots, public areas and easements
- Does not amend or remove any covenants or restrictions
 21

Required Studies for Final Plats

- Final Stormwater Management Plan
 - Conforms to previous studies
 - Drainage calculations and design plans
 - Construction plans for public drainage improvements
- Traffic Studies

- TIS or TAS may be requested
- Site specific analysis
- Water and Sewer Studies
 - Redevelopment loading or full study
 - Study needed if no preliminary plat study







Street and Alley Vacations and Closures

- Closures only physically close the right-ofway for vehicular use
- Vacations incorporate the right-of-way into the adjoining property through replatting
- **Two public hearings** are required: City Plan Commission recommendation with final action by the City Council
- Utility easements are oftentimes retained upon vacation of right-of-way





Platting Team

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Fire Department Review

- Points of access requirements
- Hose lay distances

- New street names
- Emergency Access Easements (fire lanes)
- Verify existing and correct street name via ArcGIS
- Gas well set back distances
- Multi-family site plan review
- Addressing upon recording of plat



Fire Department – Plat Review

Bureau of Fire Prevention 200 Texas St, Lower Level Fort Worth, Texas

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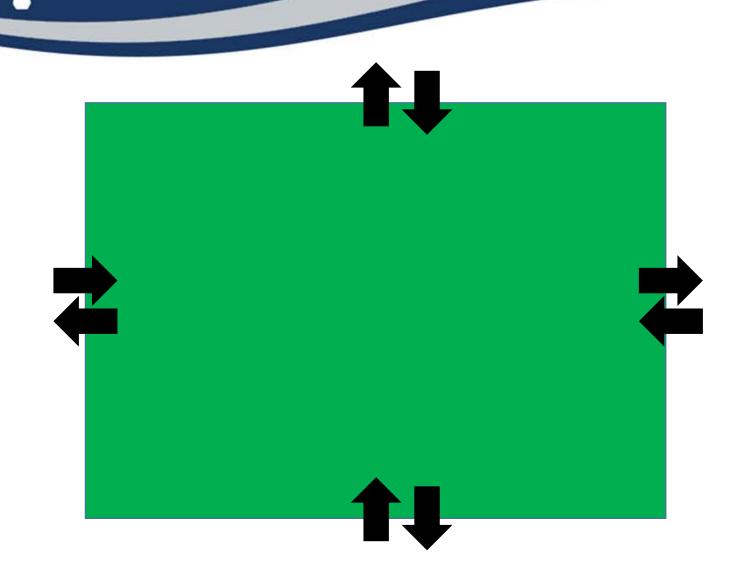
Captain Daniel Cearley <u>daniel.cearley@fortworthtexas.gov</u> 817.392.6797

Lt. Alan McLain james.mclain@fortworthtexas.gov 817.392.6033



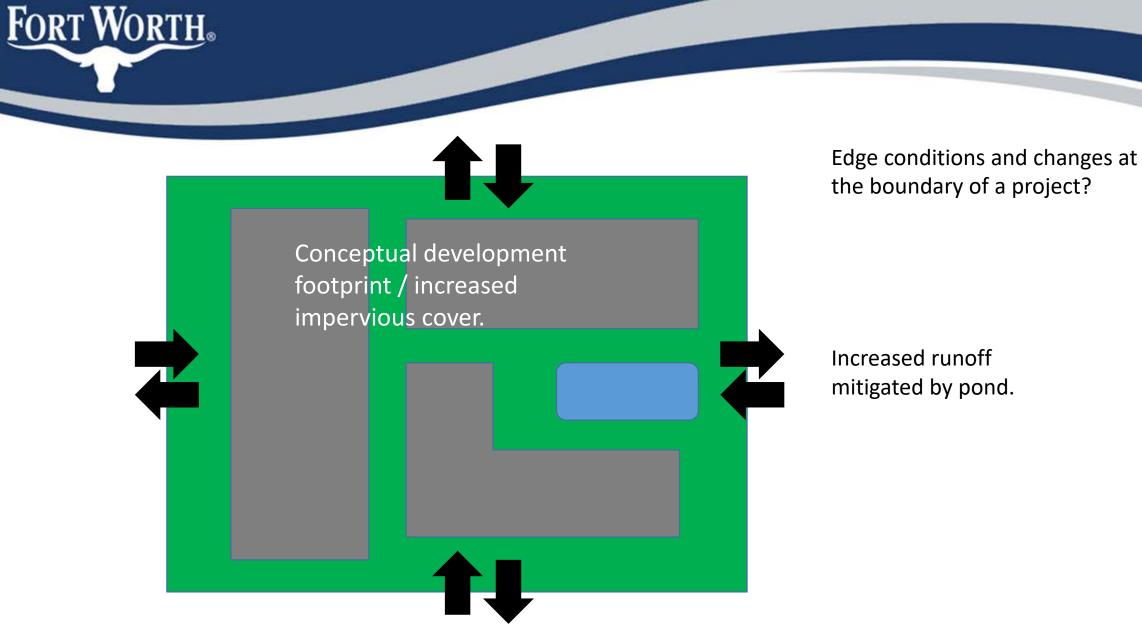
Stormwater Management

- Stormwater management (iSWM) plan stages follow the platting process
 - Concept Plan Conceptual iSWM plan
 - Preliminary Plat Preliminary iSWM plan
 - Final Plat Final iSWM plan
- Review plats for:
 - Easement requirements and supporting analysis
 - Items described in the Stormwater Management section of the Subdivision Ordinance



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Edge conditions and changes at the boundary of a project?



Increased runoff and downstream assessment of impacts.

mitigated by pond.

Analysis limited to "zone of influence"

Check for:

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- Habitable / insurable structures (0.00' rise)
- Flood elevations (≤0.1' rise)
- Priority to floodplain ordinance (consistent)
- Channel velocities (maximum or ≤5% increase)
- Downstream discharges
- Downstream assessment
 - Exemption for small infill providing detention
 - Simplified methods

Simplified detention method for Preliminary Plats.

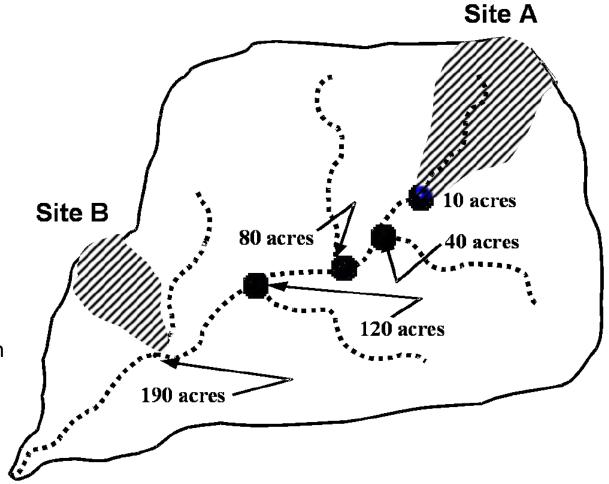
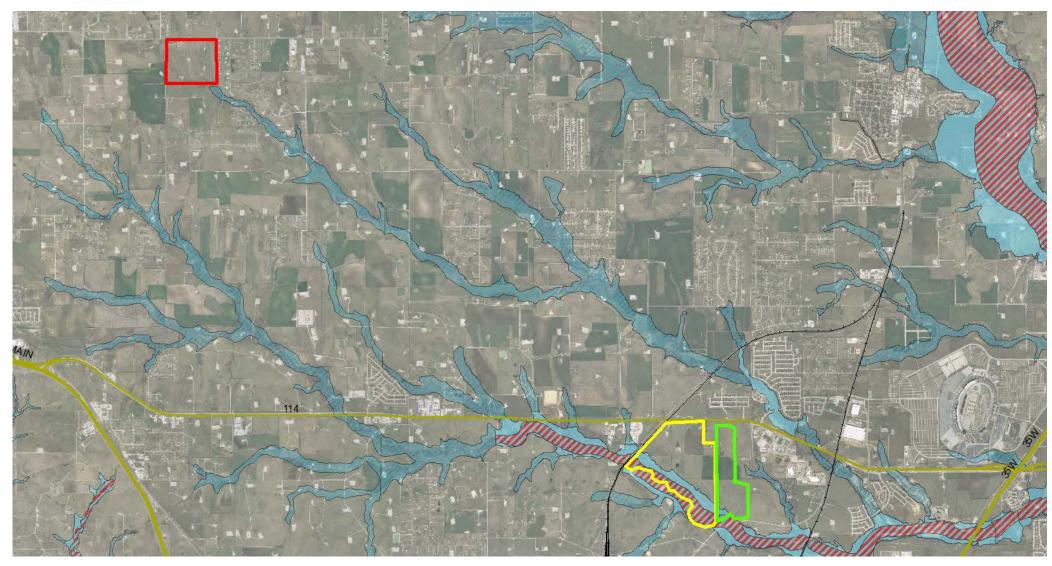
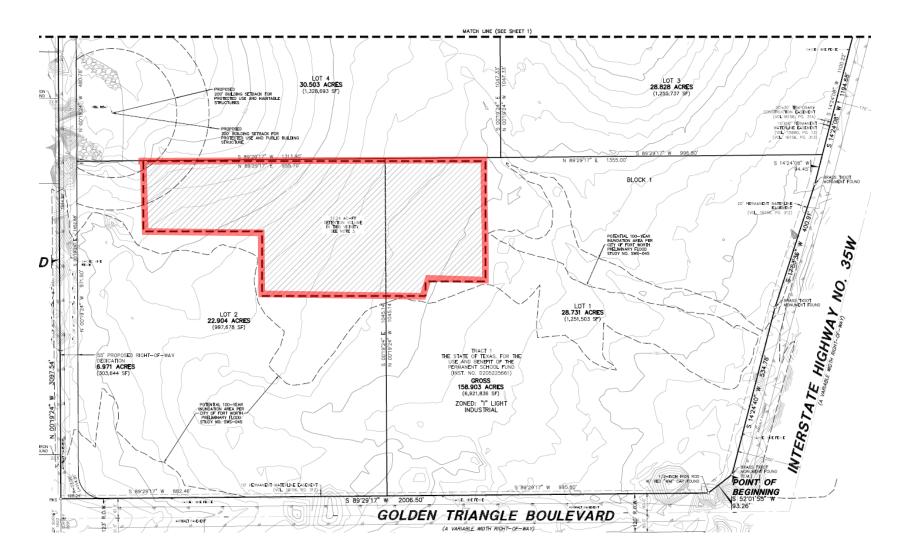


Figure 2.3 Example of the Ten-Percent Rule







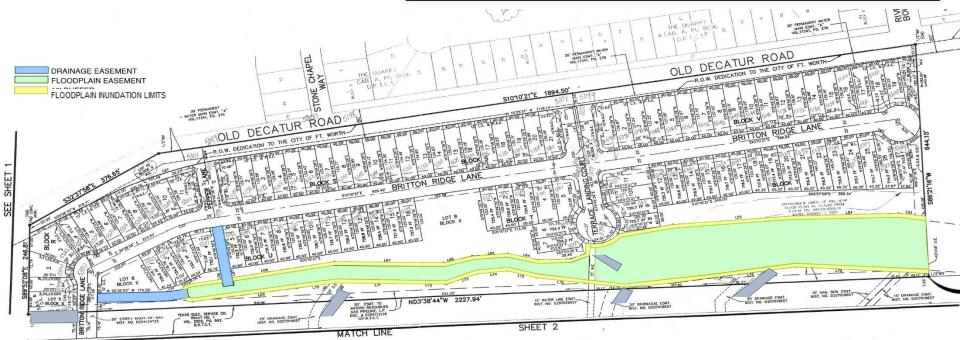


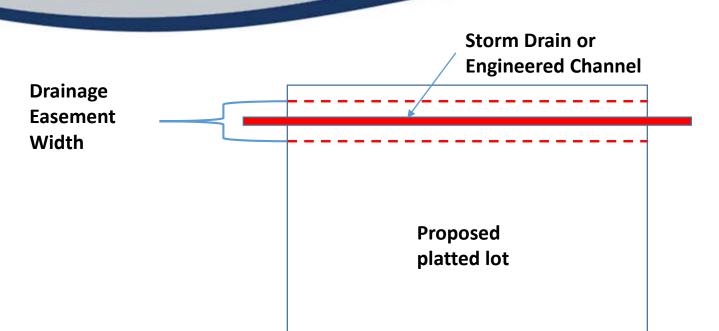
FORT WORTH.

Example: FP-05-092

A connected system of drainage easements and floodplain easements conveying public runoff, design for the 100-year storm.



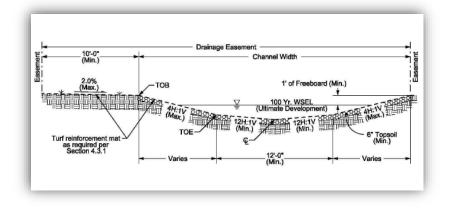


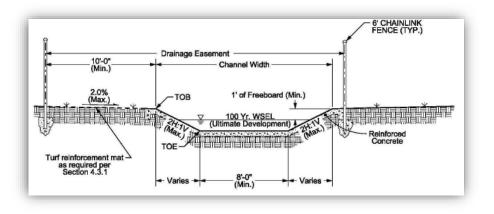


Easement Width For Circular Pipes

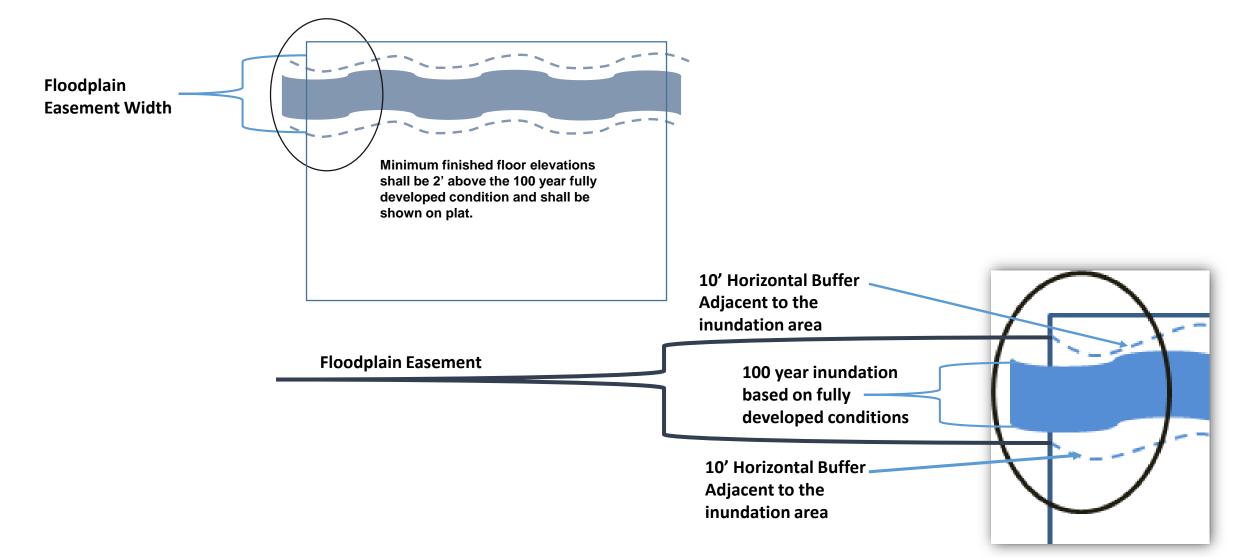
Pipe Size	Minimum Easement Width Required
39" and under	15 Feet
42" through 54"	20 Feet
60" through 66"	25 Feet
72" through 102"	30 Feet

Easement Width For Reinforced Concrete Box and Arch Storm Drains shall have an easement width equal to the width of the box plus twenty (20) additional feet. The edge of the box should be located five (5) feet from either edge of the easement.











Stormwater Development Services Team

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Traffic Studies

• A tool to forecast the potential impacts a project will have on the surrounding traffic network.

FORT WORTH.

- Identify improvements that will become necessary over time.
- Provide a timeline for whom is responsible for the improvements and when they should be expected.
- Provide guidance of the effectiveness of traffic mitigation

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• TRAFFIC STUDIES DO NOT DETERMINE FEASIBILITY OF A PROJECT.

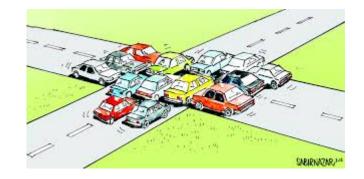


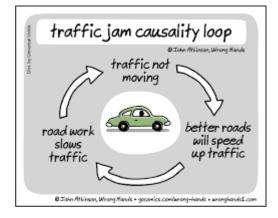
Why we do Traffic Studies?













Traffic Studies

Are required when:

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- Traffic volumes exceed 500 ADT
- A project is located in an area with known traffic concerns and/or access limitations
- Geometric constraints may impede a design requirement
- A particular type of traffic mitigation device (stop sign, traffic signal or roundabout) is requested/proposed for a location
- Engineering discretion determines a study is necessary

FORT WORTH	1		ITE Trip Generation Threshold Workshe City of Fort Worth, Te							
-	Develo	pment Name:	Development Training							
Applicant:			Project Facilitation							
	Legal Descripti	ON (Lot, Block):	Lot 1, Block 1, City Council Chambers							
	Case /	Plat Number:	Pre-Development Conf	erence	Date:	August 4, 20	17			
							Warisheet Last Upsteled: D			
Trip Generation of	Proposed Dev	elopment								
Land Use: (for use when	land uses and intens	ties are known at t	ime of concept plan, prelimi	nary or final plat, or build	ng permit)					
Land Use Type ¹ :	Dev	elopment Unit:	Intensity ² :	Daily Trip Generation ³	Trip Gen	Rate (AM) ⁴	Trip Gen Rate (P)			
Government Office Dui	ding 1	.000 SF GFA	1300	89,609.00	7,6	44.00	1.573.00			
		Total	Land Use Trip Gen Rate:	89,609.00 Daily Trip Generation		44.00 Rate (AM)	1,573.00			
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			Total Trip Gen Rate:	89,609.00	7,6	44.00	1,573.00			
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		TOTAL DEVEL	OPMENT TRIP GENERAT TAS	ION RATE: 81 Required:	9,609.00 No	7,644.00 No	1,573.00 No			

• TRAFFIC STUDIES MAY BE REQUESTED AT ANY PHASE OF PLATTING

Types of Traffic Studies

• Traffic Assessment Study (TAS)

WORTH

- Projects of 500-4,999 average daily trips (ADT)
- Studies intersections within a ½ mile
- Assess infrastructure needs based on existing/proposed traffic volumes
- Traffic Impact Analysis (TIA)
 - 5,000 or more average daily trips (ADT)
 - Studies intersections within two miles
 - Assess infrastructure needs based on existing/proposed traffic volumes

- Visibility/Feasibility Study
 - Geometrics impede a design requirement
 - Engineering justification for a waiver of requirements
 - Support for the proposed alternative design
- Warrant Study
 - Traffic mitigation is proposed
 - Determine if the proposed improvements are the correct tool for the problem
 - Engineering justification for the proposed improvement

Types of Traffic Studies

• Traffic Circulation Study

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- May be requested with a street vacation application or a connectivity waiver
 - Shows traffic flows with respect to the vacation or waiver request
- Required for all new school sites
 - Show the drop-off/pick-up queuing needs
 - Based on proposed student population (based on age and number of students)
 - Based on the projected attendance boundary
 - Determine the location and arrangement of the school zone infrastructure
 - Provides a timeline for the improvements to be in place

Transportation Team Transportation and Public Works

James Avenue

5001 James Ave.

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FORT WORTH.

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Water/Wastewater Study Objectives

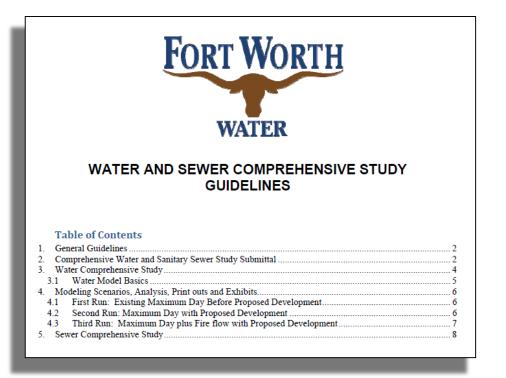
- Objectives
 - State the existing condition
 - Show proposed facilities
 - Calculate demand/loads created by proposed development
 - Demonstrate impact of proposed development
 - No impact
 - Impact (Facility improvements/Extensions)





Water/Wastewater Loading Requirements

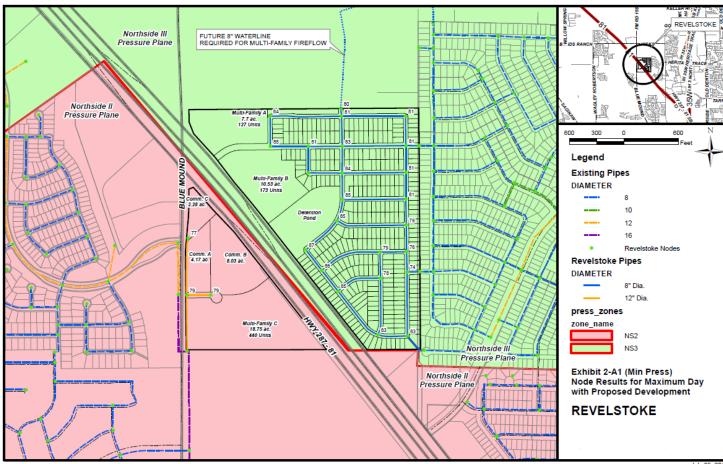
- Requirements
 - Case by case basis
 - Proximity to existing facility, topography, size of development, development type, etc.
 - Requirement decision is made during PDC research

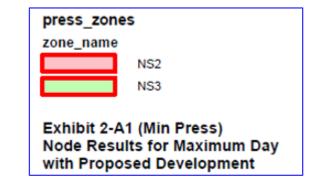




Water Study Example

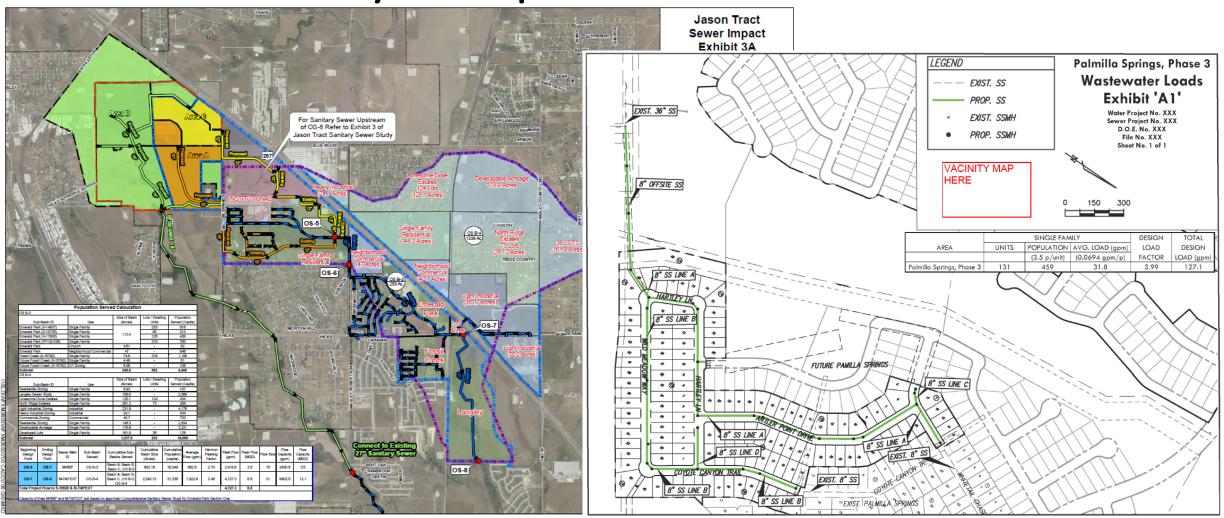
FORT WORTH.







Wastewater Study Examples





Water Department

200 Texas St, Second Floor SW Corner Fort Worth, Texas

Water and Wastewater Studies:

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Wade Goodman, (Fireflow Request Status & W/WW Study Numbers) wade.goodman@fortworthtexas.gov 817.392.7139

W/WW Plat Comment Review: Soon Wong, P.E. soon.wong@fortworthtexas.gov

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• The Neighborhood and Community Park Dedication Policy

Originated in 1977 as a section of the City's Subdivision Ordinance and is administered by the Park and Recreation Department (PARD)

• Purpose of Park Dedication Policy

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The policy shall insure the provision of adequate park and recreational areas with needed facilities in the form of Neighborhood Parks and Community Parks



Park Dedication Policy Implementation

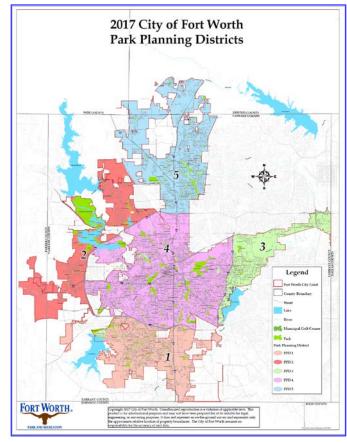
• Type of Development Activity

All new Residential Development within the City of Fort Worth is subject to the policy. These fees are not subject to being waved

• Plan Implementation

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The Policy governs all Park Dedication and Improvement Requirements within the corporate limits of the City of Fort Worth



Platting of Proposed Park Land

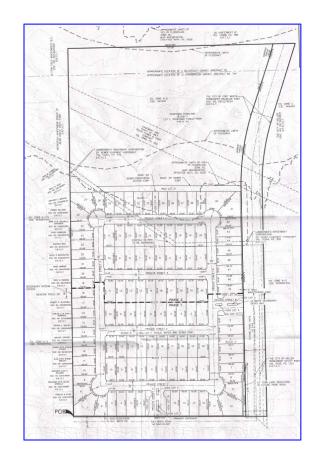
• Preliminary Plat & Proposed Park Land

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When the development size triggers a land dedication, if the PARD and the Developer mutually agree to a proposed area, it must be indicated on the preliminary plat and identified as Proposed Public Park

• All other Open Space not agreed to by the PARD

Must be indicated as "Private HOA/Developer Owned and Maintained Open Space" on the preliminary plat and all subsequent final plats submitted





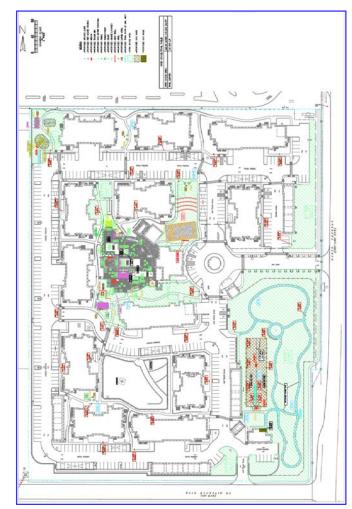
- PPD4 \$500.00 per residential unit
- All other PPD's

FORT WORTH.

- Neighborhood Park Land Dedication

 2.5 acres/1.000 people
 Per acre land value fee
- Neighborhood Park Development Fee
 \$30,000/Per acre
- Neighborhood Park Infrastructure Fee
- Community Park Land Dedication

 3.75 acres/1,000 people
 Per acre land value fee





Park and Recreation Department

Park and Recreation Department 4200 South Freeway, Suite 2200 Fort Worth, Texas 76115

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Questions?