

# CITY OF XX

DRAFT



The City / County of \_\_\_\_\_, Texas, by Ordinance / Order Number \_\_\_\_\_, entitled \_\_\_\_\_, dated \_\_\_\_\_, \_\_\_\_\_ has adopted the iSWM Design Manual for Site Development as its storm water management and design document with the addition of this "Local Criteria" Section which sets design criteria specific to the City / County and amends the design manual as stated therein.

The Local Criteria Section identifies those sections of the iSWM Design Manual for Site Development in which local criteria has been established and/or the language of the section has been amended by addition, change or deletion. When amendments occur, the text as amended will appear in this Local Criteria Section.

The requirements contained within this Local Criteria Section shall take precedence over conflicting provisions that may be contained in the iSWM Design Manual for Site Development approved by the North Central Texas Council of Governments.

All proposed developments within the Limits of the City / County of \_\_\_\_\_ and its Extra-territorial Jurisdiction (ETJ) shall comply with all local, county, state and federal regulations and all required permits or approvals shall be obtained by the developer whether public or private.

The sections listed hereafter have been amended and/or criteria specific to the City / County have been set.

## Chapter 1 – Storm Water Management System Planning and Design

### 1.2 *integrated* Planning and Design Approach

The design storm for the Streambank Protection and Conveyance storms are designated as follows:

Storm Event	Design Storm
Streambank Protection storm	
Conveyance storm	

## Chapter 2 – Hydrologic Analysis

### 2.1 Estimating Runoff

The following table specifies which hydrologic methods shall be used.

Hydrologic Method	Acceptable	Not Acceptable	Conditions/Limitations
Rational	_____	_____	_____
Modified Rational	_____	_____	_____
Simplified SCS (NRCS)	_____	_____	_____
Snyder's Unit Hydrograph	_____	_____	_____

SCS (NRCS) Unit Hydrograph	_____	_____	_____
TXDOT Regression Equations	_____	_____	_____
USGS Regression Equations	_____	_____	_____
iSWM Water Quality Protection Volume Calculation	_____	_____	_____
Other	_____	_____	_____

## Chapter 3 – Hydraulic Design of Streets and Closed Conduits

### 3.1 Storm Water Street and Closed Conduit Design Overview

The following design storm frequencies shall be used in inlet and storm drain design.

#### Storm Drain Design (pipes and culverts)

Design Storm Frequency: \_\_\_\_\_ yr

#### Inlet Design (other than sump)

Design Storm Frequency: \_\_\_\_\_ yr

#### Street/Roadway Conveyance

Design Storm Frequency: \_\_\_\_\_ yr

## Chapter 4 – Hydraulic Design of Open Channels, Culverts, Bridges, and Detention Structures

### 4.1 Storm Water Open Channels, Culverts, Bridges, and Detention Structure Design Overview

The following design storm frequencies shall be used in culvert, bridge, and open channel design.

Culverts: \_\_\_\_\_ yr

Bridges: \_\_\_\_\_ yr

Open Channels: \_\_\_\_\_ yr

### 4.2 Culvert Design

The following freeboard and velocity requirements for culvert design shall be used.

#### Freeboard Requirement for a 100-year storm (ft)

Existing Conditions: \_\_\_\_\_ (2 ft recommended)

Fully Developed Conditions: \_\_\_\_\_ (18 inches recommended)

**Outlet Velocity**

Minimum: \_\_\_\_\_ (2.5 fps recommended)

Maximum: \_\_\_\_\_ (15 fps recommended)

**4.3 Bridge Design**

The following freeboard requirements for bridge design shall be used.

**Freeboard Requirement for a 100-year storm (ft)**

Existing Conditions: \_\_\_\_\_ (2 ft recommended)

Fully Developed Conditions: \_\_\_\_\_ (18 inches recommended)

**4.5 Storage Design**

The design storm frequencies used in determining storage volume shall be as specified below.

**Storage Design**

Streambank Protection storm (1- or 2-year, 24 hour event): \_\_\_\_\_

Conveyance storm (5-, 10-, or 25-year, 24 hour event): \_\_\_\_\_

100-year storm: \_\_\_\_\_ 100-year, 24 hour event (required)

Other: \_\_\_\_\_

**4.6 Outlet Structures**

Secondary outlets require a specified freeboard height that should be determined by the local jurisdiction.

**Freeboard Requirement for a 100-year storm (ft)**

Existing Conditions: \_\_\_\_\_ (2 ft recommended)

Fully Developed Conditions: \_\_\_\_\_ (18 inches recommended)