



# Drainage Master Plan Update

## Project: HC01 - Regional Detention



**Project Type:** Flooding      **Drainage CIP Ranking:** 34      **Existing Study:** No      **TxDot:** No  
**Date Identified:** 2010      **Total Weighted Score:** 767      **Panel #:** O14  
**Date Last Reported:**      **Project Cost:** \$307,500      **Council District:** 3  
**Original Cost Year:** 2010      **Study File Name:**

### Description:

The Hudson Creek drainage basin is ideally suited for a regional detention system. The west fork of the creek is largely undeveloped in the upper portion of the watershed. Regional storm water detention upstream of Copperfield would allow the peak flows from existing development to pass down the channel before the regional pond reached its maximum release rate.

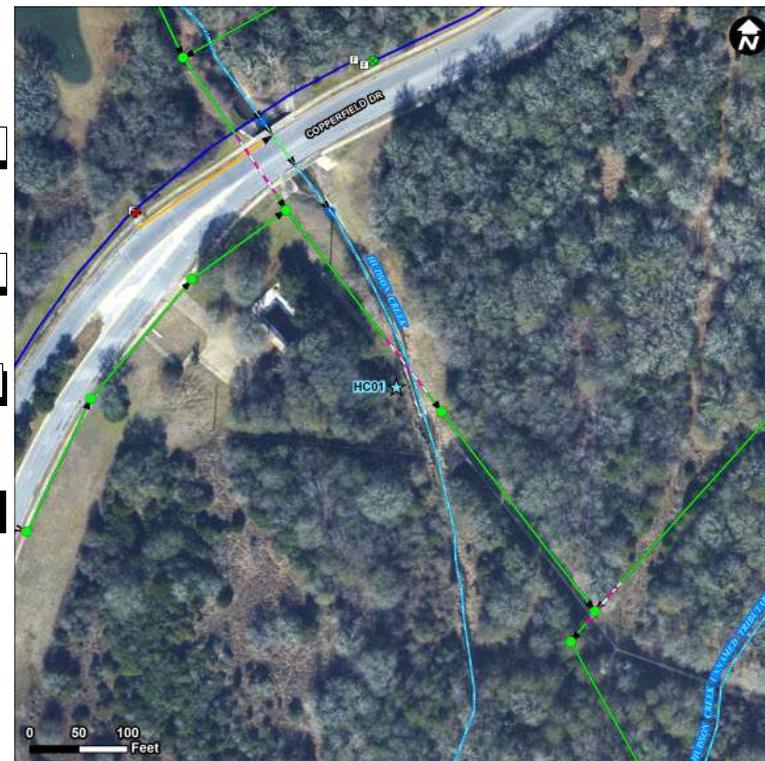
### Justification:

The Hudson Creek drainage basin experiences some flooding and creek maintenance problems along the main stem of the creek. With future development, the existing road crossing might experience overtopping and increased floodplain top widths.

### Funding Options:

### Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$307,500	Stormwater	\$0	\$0	\$0	\$0	\$0
<b>Const</b>	<b>\$307,500</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total</b>	<b>\$307,500</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>



### Ranking Criteria

<b>Life Safety:</b>	7	<b>Street Flooding:</b>	9	<b>Infrastructure Damage:</b>	7	<b>Maintenance:</b>	2
<b>Structures Flooding:</b>	3	<b>Frequency of Flooding:</b>	2	<b>Funding Source:</b>	0	<b>Project Cost:</b>	8
<b>Right-of-Way Availability:</b>	10						



# Drainage Master Plan Update



## Project: HC03 - Copperfield Subdivision Ph 2 Erosion Trib 4.1.1

**Project Type:** Maintenance    **Drainage CIP Ranking:** 106    **Existing Study:** No    **TxDot:** No  
**Date Identified:** 2010    **Total Weighted Score:** 234    **Panel #:** O14  
**Date Last Reported:**    **Project Cost:** \$1,759,500    **Council District:** 3  
**Original Cost Year:** 2010    **Study File Name:**

### Description:

A detailed hydrologic and hydraulic study will need to be done to assess existing and future conditions of the creek. From this study alternatives should be proposed to determine a channel improvement alternative for design.

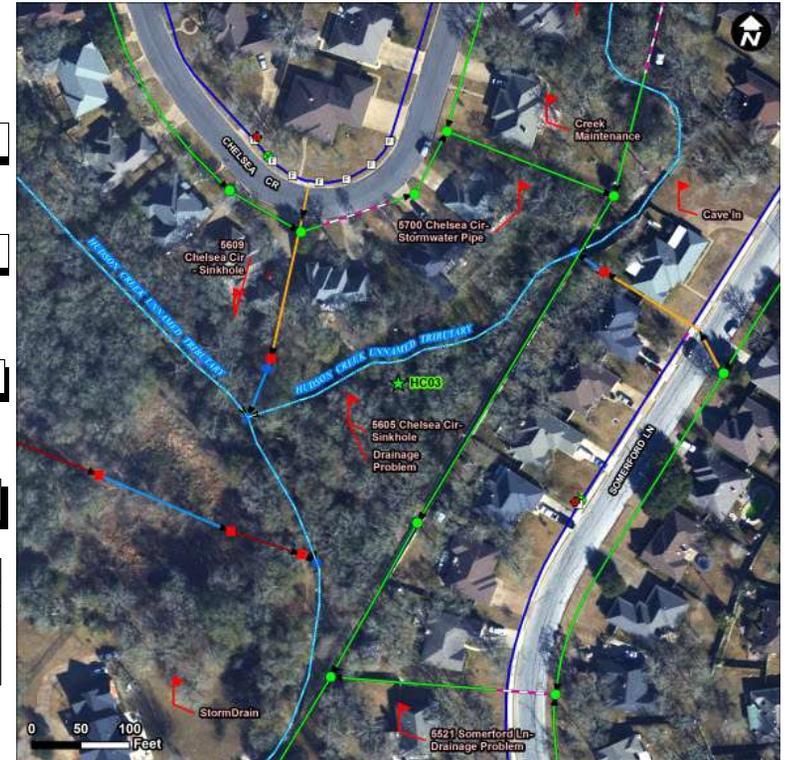
### Justification:

The City identified channel erosion along an unstudied Tributary of Hudson Creek. The concern extends approximately 1,700 LF between Warwick Lane and Canterbury Drive in a residential subdivision. The channel is heavily vegetated with development along both overbanks.

### Funding Options:

### Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$229,500	Stormwater	\$0	\$0	\$0	\$0	\$0
<b>Design/Survey</b>	<b>\$229,500</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Stormwater	\$1,530,000	Stormwater	\$0	\$0	\$0	\$0	\$0
<b>Const</b>	<b>\$1,530,000</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total</b>	<b>\$1,759,500</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>



### Ranking Criteria

<b>Life Safety:</b>	0	<b>Street Flooding:</b>	0	<b>Infrastructure Damage:</b>	4	<b>Maintenance:</b>	2
<b>Structures Flooding:</b>	3	<b>Frequency of Flooding:</b>	0	<b>Funding Source:</b>	0	<b>Project Cost:</b>	5
<b>Right-of-Way Availability:</b>	0						



# Drainage Master Plan Update

## Project: HC04 - Kirkwood Drive Backyard Flooding



**Project Type:** Flooding      **Drainage CIP Ranking:** 91      **Existing Study:** No      **TxDot:** No  
**Date Identified:** 2010      **Total Weighted Score:** 403      **Panel #:** P13  
**Date Last Reported:**      **Project Cost:** \$30,000      **Council District:** 3  
**Original Cost Year:** 2010      **Study File Name:**

### Description:

This project includes a study to identify proposed improvements for the area. It is assumed that an additional storm drain will be needed.

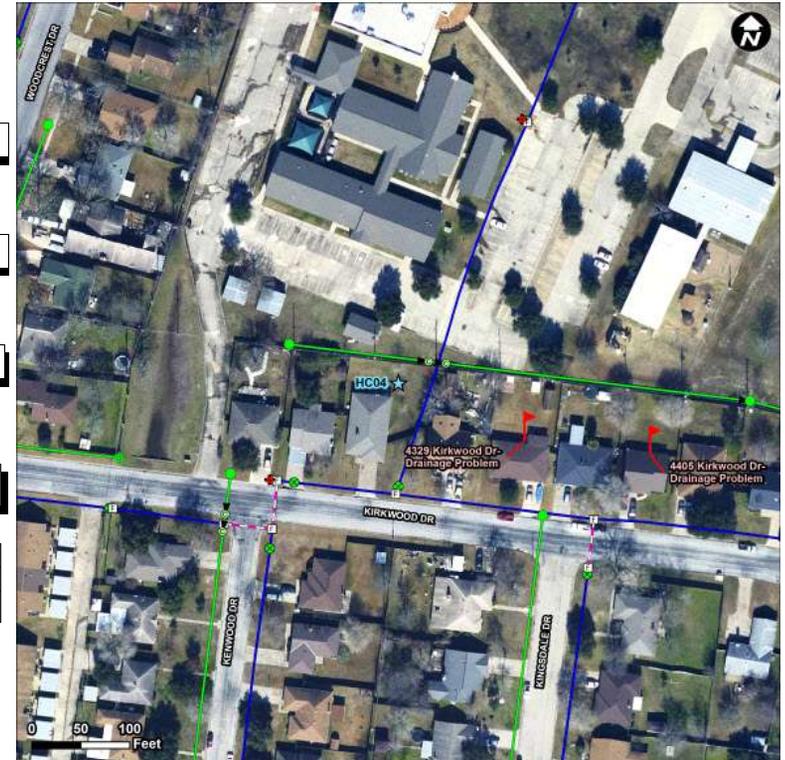
### Justification:

The City has received multiple drainage and flooding concerns from residents in this area. This is a residential area with existing storm drain. The cause of flooding is unclear.

### Funding Options:

### Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$30,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$30,000		\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$30,000</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>



### Ranking Criteria

<b>Life Safety:</b>	0	<b>Street Flooding:</b>	2	<b>Infrastructure Damage:</b>	0	<b>Maintenance:</b>	0
<b>Structures Flooding:</b>	0	<b>Frequency of Flooding:</b>	7	<b>Funding Source:</b>	0	<b>Project Cost:</b>	10
<b>Right-of-Way Availability:</b>	10						