



Drainage Master Plan Update

Project: SC01 - 23rd Street Drainage



Project Type: Flooding **Drainage CIP Ranking:** 7 **Existing Study:** Yes **TxDot:** No
Date Identified: 2008 **Total Weighted Score:** 947 **Panel #:** O10
Date Last Reported: **Project Cost:** \$1,195,437 **Council District:** 1
Original Cost Year: 2010 **Study File Name:** North Area Storm Sewer Investigations - GL 2008

Description:

23rd Street is classified as a major arterial, according to the City of Bryan Thoroughfare Plan. Upsizing pipes along 23rd, Parker St, and Sterling Ave will prevent the 10-year storm event from flooding the roadways per City of Bryan requirements. A 48" RCP is proposed along 23rd Street from Bryan Ave to Parker St, and a 24" RCP is proposed along Parker Ave from 24th to 23rd Street. 2-60" RCPs are proposed along 23rd Street from Sims Ave. to Sterling Ave and continue down Sterling Avenue outfalling into the two existing 60" RCPs at 22nd Street. The new system requires 14 new 10 ft inlets.

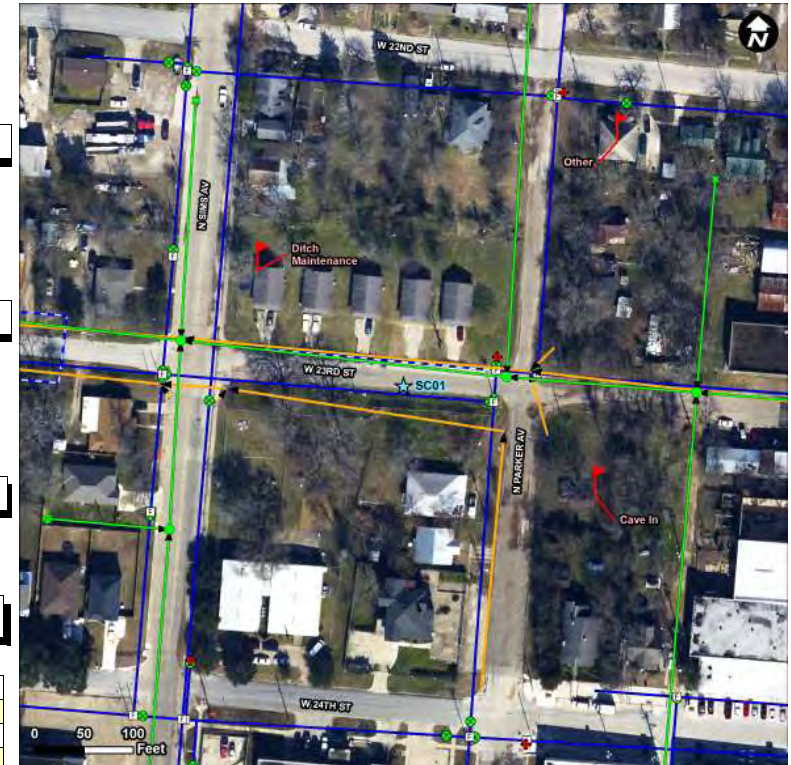
Justification:

The existing storm drain system along 23rd Street between Bryan and Sterling Avenues collects runoff from approximately 90 acres, including residential and downtown commercial areas. The system consists of pipe sizes ranging from 18" clay pipe to 48" RCPs. The pipes and inlets are undersized and in poor condition as they are clogged with debris and silt, according to the North Area Storm Sewer Investigations within the Still Creek Sub-Basin Report dated July 2008 by Goodwin-Lasiter, Inc. There is also an old corrugated pipe exposed at the surface and disconnected sections of the storm sewer.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$155,927	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$155,927		\$0	\$0	\$0	\$0	\$0
Stormwater	\$1,039,510	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$1,039,510		\$0	\$0	\$0	\$0	\$0
Total	\$1,195,437		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	7	Street Flooding:	4	Infrastructure Damage:	10	Maintenance:	2
Structures Flooding:	9	Frequency of Flooding:	10	Funding Source:	0	Project Cost:	5



Drainage Master Plan Update



Project: SC02 - 23rd Street Drainage Maintenance

Project Type: Maintenance **Drainage CIP Ranking:** 93 **Existing Study:** Yes **TxDot:** No
Date Identified: 2008 **Total Weighted Score:** 347 **Panel #:** N10
Date Last Reported: **Project Cost:** \$20,000 **Council District:** 1
Original Cost Year: 2010 **Study File Name:** North Area Storm Sewer Investigations - GL 2008

Description:

Silt and debris must be removed from the existing pipes and inlets to allow full conveyance. The City will have to work with local contractors to develop a routine maintenance program. For budgeting purposes it assumed maintenance will be performed semi-annually. This may need to be adjusted for larger storm events that are not anticipated.

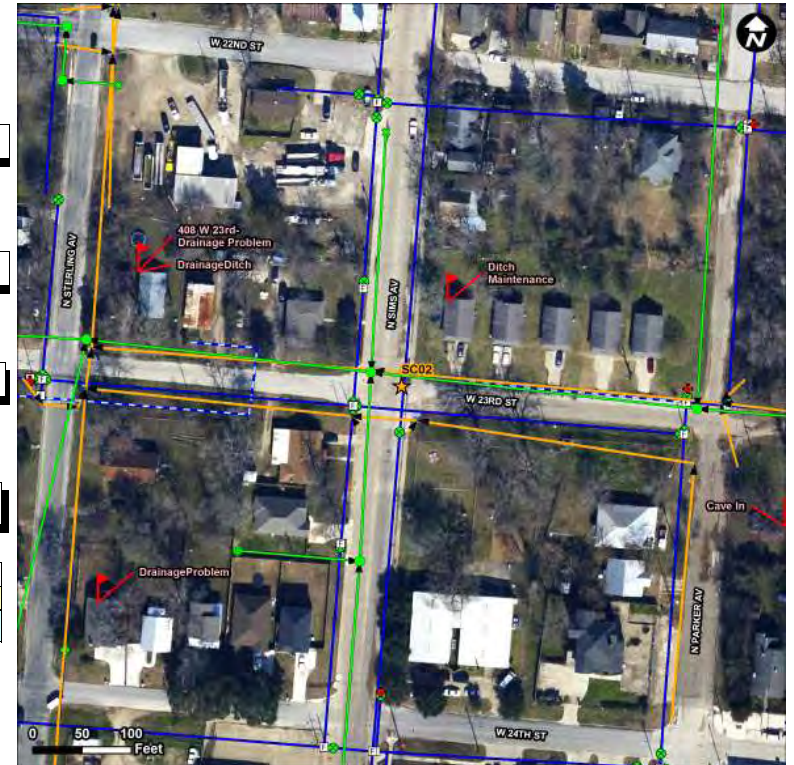
Justification:

The existing inlets and pipes along 23rd Street, Bryan Avenue, and Parker Street are clogged with debris and silt.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$20,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$20,000		\$0	\$0	\$0	\$0	\$0
Total	\$20,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	0	Street Flooding:	6	Infrastructure Damage:	0	Maintenance:	0
Structures Flooding:	0	Frequency of Flooding:	0	Funding Source:	0	Project Cost:	10
Right-of-Way Availability:	10						



Drainage Master Plan Update

Project: SC03 - Tennessee Avenue Crossing



Project Type: Flooding **Drainage CIP Ranking:** 18 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 839 **Panel #:** L09
Date Last Reported: **Project Cost:** \$258,750 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

Tennessee Avenue is classified as a local street according to the City of Bryan Thoroughfare Plan. A study and detailed design needs to be completed to assess the flooding and design culvert improvements to reduce road overtopping.

Justification:

Still Creek flows under Tennessee Avenue south of Wilkes Street through 3-8'x7' box culverts. The crossing is adjacent to residential buildings and the channel is mainly short grass and a few trees. According to the City of Bryan bridges with drainage issues database, the crossing is experiencing flooding during storm events.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$33,750	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$33,750		\$0	\$0	\$0	\$0	\$0
Stormwater	\$225,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$225,000		\$0	\$0	\$0	\$0	\$0
Total	\$258,750		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	7	Street Flooding:	0	Infrastructure Damage:	4	Maintenance:	2
Structures Flooding:	10	Frequency of Flooding:	10	Funding Source:	0	Project Cost:	8
Right-of-Way Availability:	10						



Drainage Master Plan Update

Project: SC05 - Woodville Road Crossing WF Still Creek



Project Type: Flooding **Drainage CIP Ranking:** 24 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 811 **Panel #:** K09
Date Last Reported: **Project Cost:** \$230,000 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

Southside Road is classified as a local street according to the City of Bryan Thoroughfare Plan. A study of the channel and detailed design phase needs to be completed to assess the flooding and propose culvert improvements to reduce road overtopping.

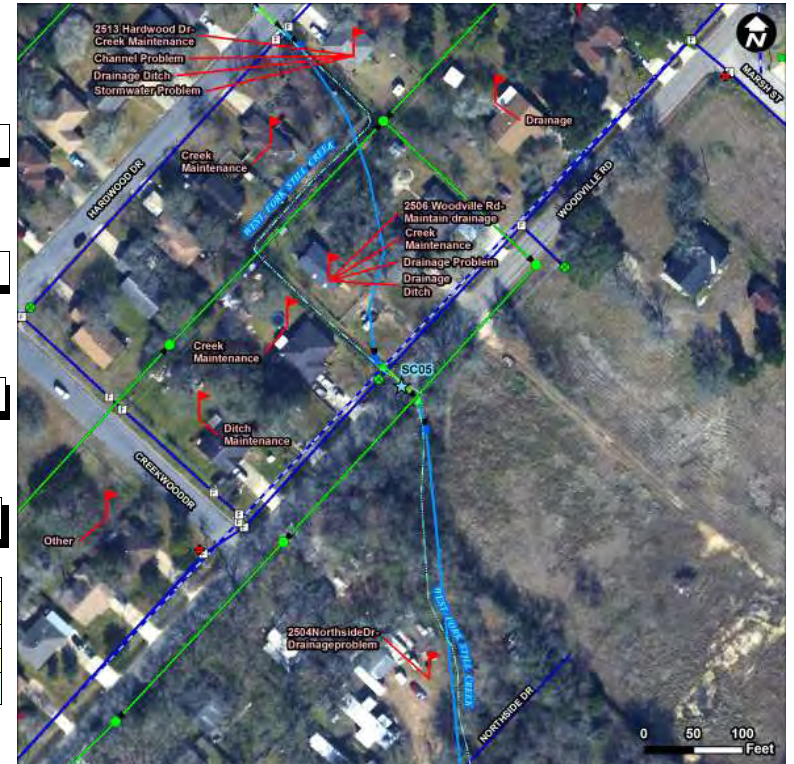
Justification:

Still Creek West Fork flows under Southside Drive through 3-36" RCP culverts and experiences flooding of approximately less than 6 inches. Residential homes are adjacent to the crossing. According to the City of Bryan bridges with drainage issues database, the crossing experiences flooding during storm events.

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
Stormwater	\$200,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$200,000		\$0	\$0	\$0	\$0	\$0
Total	\$230,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	5	Street Flooding:	2	Infrastructure Damage:	4	Maintenance:	10
Structures Flooding:	10	Frequency of Flooding:	1	Funding Source:	0	Project Cost:	8
Right-of-Way Availability:	10						



Drainage Master Plan Update

Project: SC07 - W MLK St Crossing Trib A



Project Type: Flooding
Date Identified: 2010
Date Last Reported:
Original Cost Year: 2010

Drainage CIP Ranking: 8
Total Weighted Score: 945
Project Cost: \$402,500
Study File Name:

Existing Study: No
Panel #: N09
Council District: 2
TxDot: No

Description:

West MLK Street is classified as a collector street based on the City of Bryan Thoroughfare Plan. A study of the channel and detailed design phase needs to be completed to assess the flooding and propose culvert improvements to reduce road overtopping.

Justification:

Still Creek Tributary A flows under W MLK Street through a 10'x5' box culvert. 801 and 807 Harlem Street are located adjacent to the crossing and the channel is approximately 30 ft from the nearest structure. The channel is encroaching upon their properties and causing flooding. This road provides access to a school. According to the City of Bryan bridges with drainage issues database, this crossing is experiencing flooding during storm events.

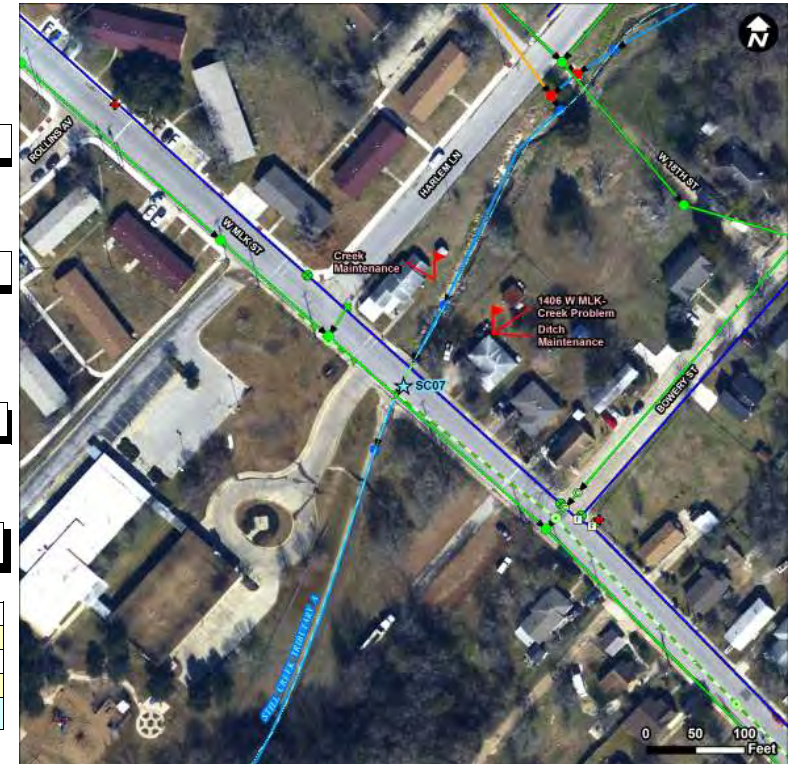
Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$52,500	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$52,500		\$0	\$0	\$0	\$0	\$0
Stormwater	\$350,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$350,000		\$0	\$0	\$0	\$0	\$0
Total	\$402,500		\$0	\$0	\$0	\$0	\$0

Ranking Criteria

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





Drainage Master Plan Update

Project: SC08 - W 17th Street Crossing Trib A



Project Type: Flooding **Drainage CIP Ranking:** 3 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 1004 **Panel #:** N09
Date Last Reported: **Project Cost:** \$287,500 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

West 17th Street is classified as a local street based on the City of Bryan Thoroughfare Plan. A study of the channel and detailed design phase needs to be completed to assess the flooding and propose culvert improvements to reduce road overtopping.

Justification:

Still Creek Tributary A flows under West 17th Street through 2-36" RCP culverts. Residential homes are adjacent to the crossing and the channel is mainly short grass with few trees. The road is overtopped by 1.19 ft during the 100-year storm event and begins flooding during the 5-year event. According to the City of Bryan bridges with drainage issues database, this crossing experiences flooding during storm events.

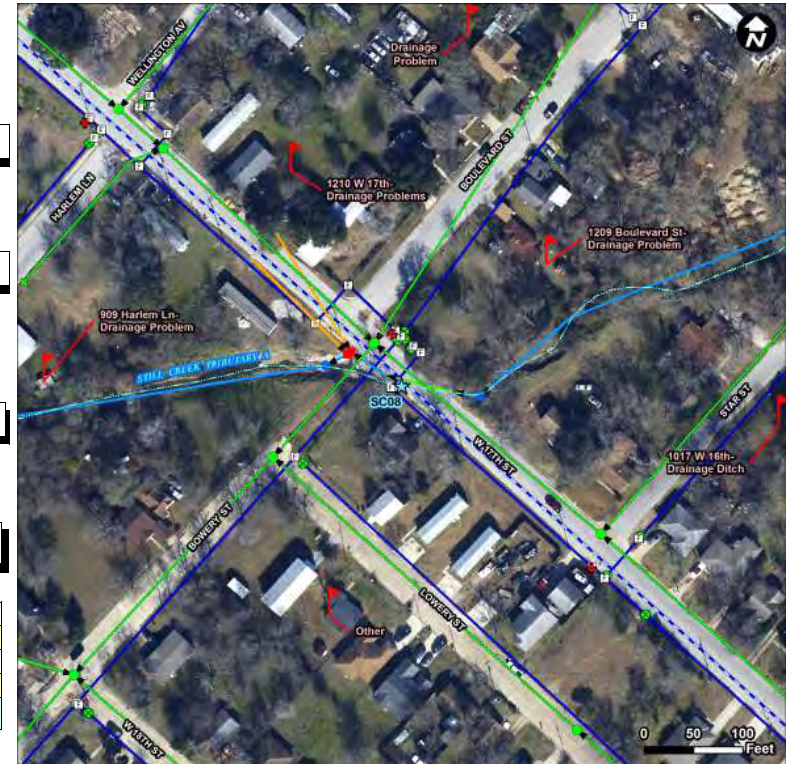
Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$37,500	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$37,500		\$0	\$0	\$0	\$0	\$0
Stormwater	\$250,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$250,000		\$0	\$0	\$0	\$0	\$0
Total	\$287,500		\$0	\$0	\$0	\$0	\$0

Ranking Criteria

Life Safety:	8	Street Flooding:	5	Infrastructure Damage:	7	Maintenance:	4
Structures Flooding:	10	Frequency of Flooding:	9	Funding Source:	0	Project Cost:	8
Right-of-Way Availability:	10						





Drainage Master Plan Update

Project: SC10 - Shirley Lane Street Flooding



Project Type: Flooding **Drainage CIP Ranking:** 85 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 448 **Panel #:** K10
Date Last Reported: **Project Cost:** \$35,000 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

Shirley Lane is classified as a local street, according to the City of Bryan Thoroughfare Plan. A study of local drainage and a detailed design phase are needed to assess flooding and propose improvements to reduce flooding in the area. This project includes the study phase only.

Justification:

Shirley Lane from Nancy Street to Elaine drive experiences flooding during storm events, according to the City of Bryan flooding and erosion issues database. The area is mostly developed and located near the E Earl Rudder Highway.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$35,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$35,000		\$0	\$0	\$0	\$0	\$0
Total	\$35,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	0	Street Flooding:	0	Infrastructure Damage:	1	Maintenance:	6
Structures Flooding:	5	Frequency of Flooding:	4	Funding Source:	0	Project Cost:	10
Right-of-Way Availability:	3						



Drainage Master Plan Update



Project: SC12 - Malvern Street and Southside Drive Street Flooding

Project Type: Flooding **Drainage CIP Ranking:** 6 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 965 **Panel #:** L09
Date Last Reported: **Project Cost:** \$30,000 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

A study of the drainage and detailed design phase are needed to assess flooding and propose improvements to reduce flooding in the area. This project includes the study phase only.

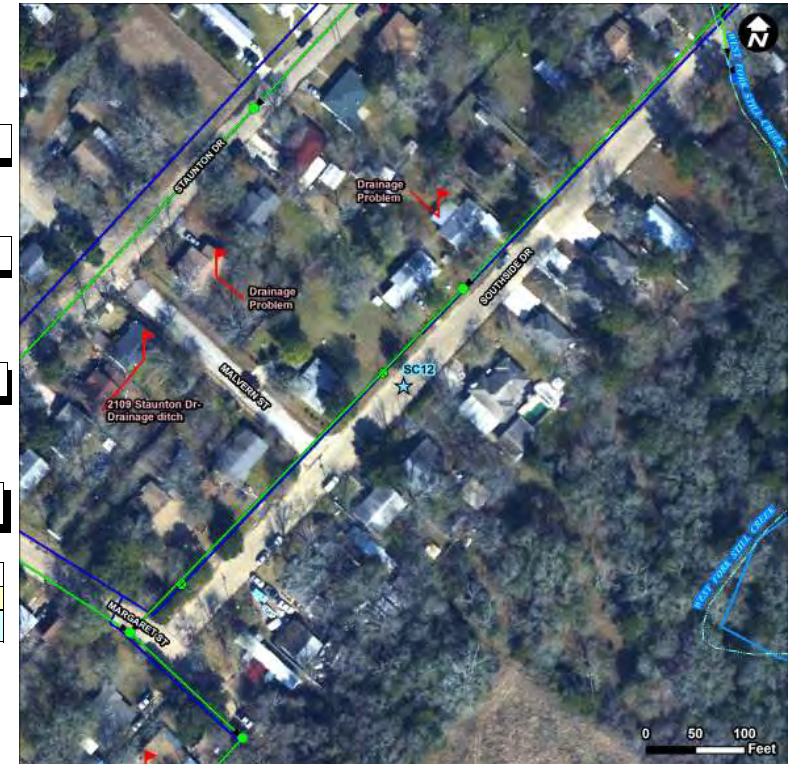
Justification:

The existing Still Creek channel flows under Southside Drive near residential buildings. The City identified approximately 110 LF of Malvern Drive and 330 LF of Southside Drive with street flooding due to insufficient channel capacity. Flooding is approximately 1.5 to 2 ft.

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
Total	\$30,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	8	Street Flooding:	6	Infrastructure Damage:	10	Maintenance:	2
Structures Flooding:	6	Frequency of Flooding:	7	Funding Source:	0	Project Cost:	10
Right-of-Way Availability:	10						



Drainage Master Plan Update

Project: SC13 - Harwood Drive Street Flooding



Project Type: Flooding **Drainage CIP Ranking:** 21 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 819 **Panel #:** L09
Date Last Reported: **Project Cost:** \$50,000 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

A study of the drainage and detailed design phase are needed to assess flooding and propose improvements to reduce flooding in the area. This project includes the study phase only. As part of this study phase alternatives should be proposed to eliminate flooding.

Justification:

2307 Woodville Road is located in a single family residential neighborhood. The City identified flooding at the homes due to drainage from Harwood Drive, located north of the Woodville Drive homes.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$50,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$50,000		\$0	\$0	\$0	\$0	\$0
Total	\$50,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	5	Street Flooding:	0	Infrastructure Damage:	4	Maintenance:	8
Structures Flooding:	7	Frequency of Flooding:	7	Funding Source:	0	Project Cost:	10
Right-of-Way Availability:	10						



Drainage Master Plan Update

Project: SC14 - McDade Property Flooding



Project Type: Flooding **Drainage CIP Ranking:** 71 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 586 **Panel #:** N09
Date Last Reported: **Project Cost:** \$25,000 **Council District:** 2
Original Cost Year: 2010 **Study File Name:**

Description:

A study of the drainage and detailed design phase are needed to assess and propose improvements to reduce flooding in the area. This project includes the study phase only. As part of this study phase alternatives should be proposed to eliminate flooding.

Justification:

Still Creek Tributary A flows through the McDade property north of Dean Street and east of Saunders Street. The area is mainly undeveloped with a subdivision to the south along Dean Street and a school to the northeast. According to the City of Bryan flooding and erosion issues database, Tributary A splits due to blockage on the McDade property and floods surrounding areas.

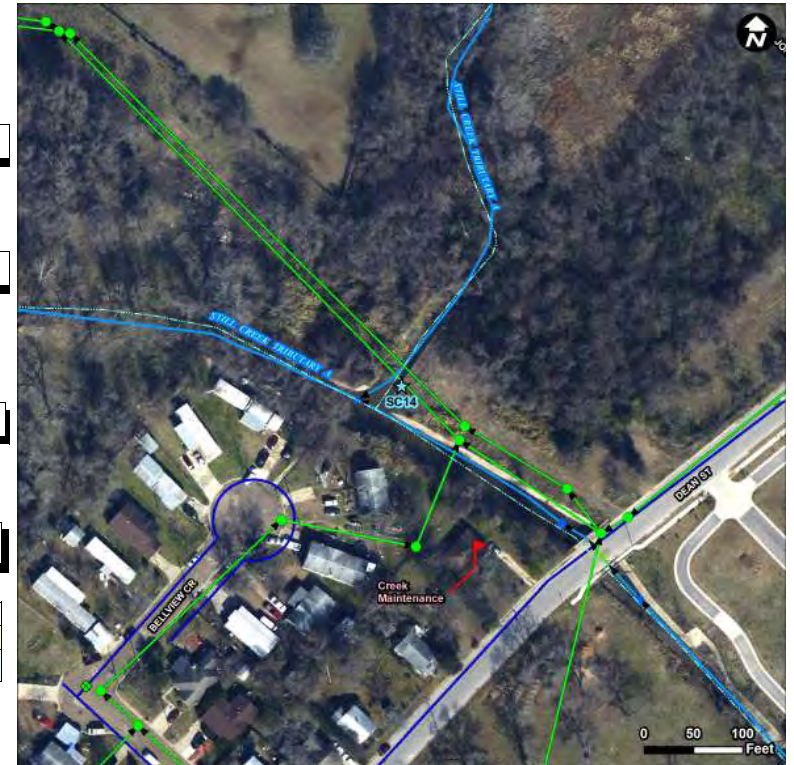
Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$25,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$25,000		\$0	\$0	\$0	\$0	\$0
Total	\$25,000		\$0	\$0	\$0	\$0	\$0

Ranking Criteria

Life Safety:	5	Street Flooding:	0	Infrastructure Damage:	7	Maintenance:	0
Structures Flooding:	3	Frequency of Flooding:	7	Funding Source:	0	Project Cost:	10
Right-of-Way Availability:	3						





Drainage Master Plan Update

Project: SC16 - Tabor Road Flooding



Project Type: Flooding **Drainage CIP Ranking:** 70 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 593 **Panel #:** N10
Date Last Reported: **Project Cost:** \$345,000 **Council District:** 1
Original Cost Year: 2010 **Study File Name:**

Description:

A drainage study is needed to identify the source of flooding in this area. The study should provide alternatives to eliminate existing flooding. A maintenance program for the bar ditches may be a possible solution.

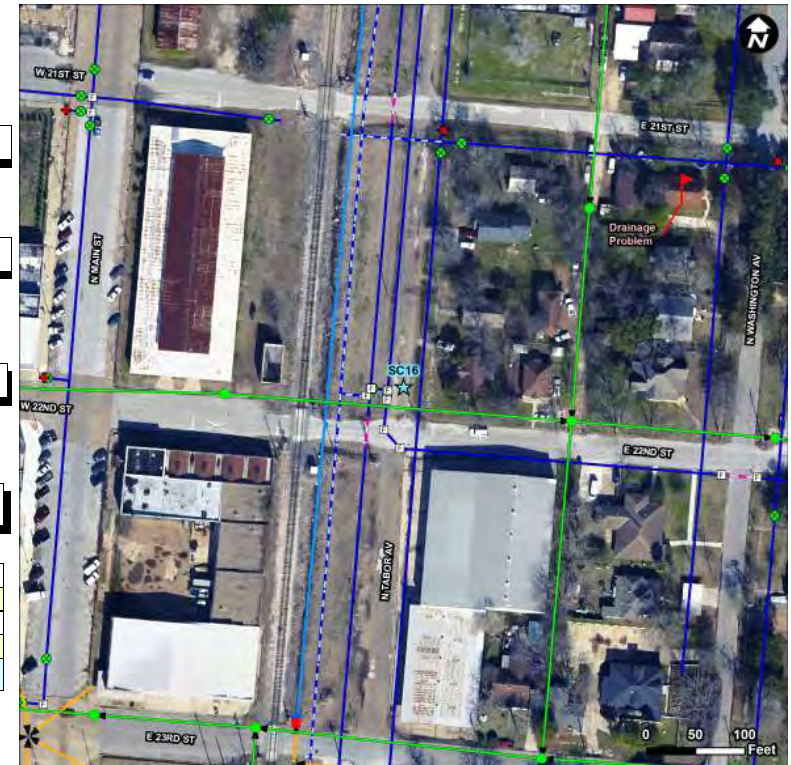
Justification:

Tabor Road from MLK Street to West WM J Bryan Parkway is adjacent to both commercial and residential buildings. The runoff is conveyed through bar ditches along either side of the road. According to the City, these bar ditches are causing flooding issues in the area.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$45,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$45,000		\$0	\$0	\$0	\$0	\$0
Stormwater	\$300,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$300,000		\$0	\$0	\$0	\$0	\$0
Total	\$345,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	5	Street Flooding:	3	Infrastructure Damage:	4	Maintenance:	2
Structures Flooding:	0	Frequency of Flooding:	7	Funding Source:	0	Project Cost:	7
Right-of-Way Availability:	10						



Drainage Master Plan Update

Project: SC17 - N Logan Ave and W 24th Street Drainage



Project Type: Flooding **Drainage CIP Ranking:** 56 **Existing Study:** No **TxDot:** No
Date Identified: 2010 **Total Weighted Score:** 672 **Panel #:** O10
Date Last Reported: **Project Cost:** \$460,000 **Council District:** 1
Original Cost Year: 2010 **Study File Name:**

Description:

A study of the drainage and detailed design phase are needed to assess and propose improvements to reduce flooding in the area. This project includes the study phase only. As part of this study phase alternatives should be proposed to eliminate flooding.

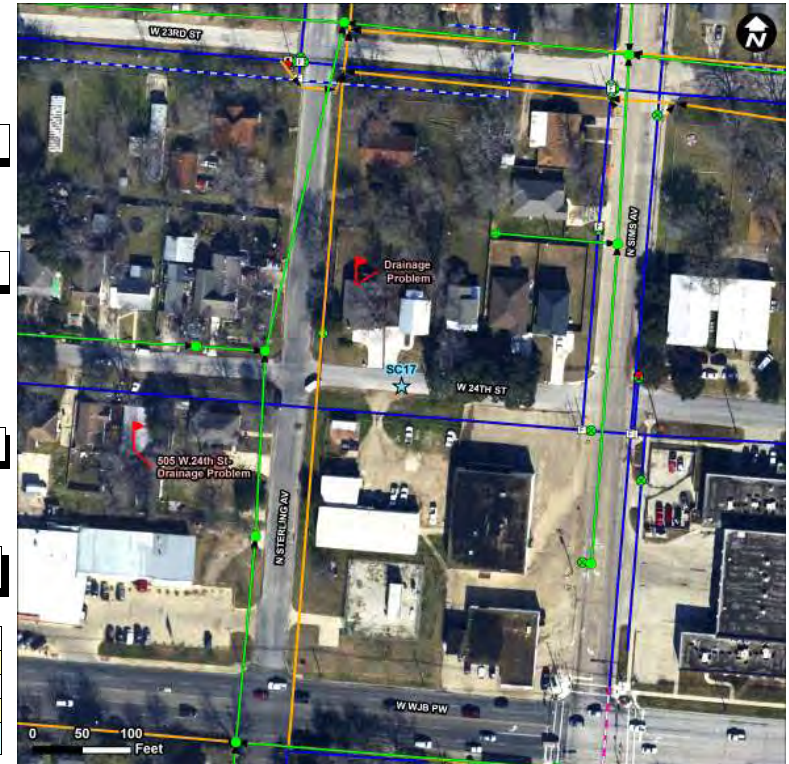
Justification:

A school is located at the intersection of Randolph Road and North Logan Ave. North Logan Avenue from West 21st Street to 24th Street is adjacent to residential homes on either side of the Road, and 24th Street from Logan Ave to Bryan Ave is adjacent to residential homes as well as commercial buildings. These streets do not have curb and gutter and the runoff from the surrounding areas is conveyed through bar ditches along either side of the roads toward the school. According to the City, the streets are flooding due to insufficient drainage systems.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	\$60,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Design/Survey	\$60,000		\$0	\$0	\$0	\$0	\$0
Stormwater	\$400,000	Stormwater	\$0	\$0	\$0	\$0	\$0
Const	\$400,000		\$0	\$0	\$0	\$0	\$0
Total	\$460,000		\$0	\$0	\$0	\$0	\$0



Ranking Criteria

Life Safety:	5	Street Flooding:	3	Infrastructure Damage:	7	Maintenance:	0
Structures Flooding:	3	Frequency of Flooding:	7	Funding Source:	0	Project Cost:	7
Right-of-Way Availability:	10						