

# Project: TC01 - Villa Maria Crossing



Project Type: Flooding Date Identified: 2005

**Drainage CIP Ranking: 27 Total Weighted Score:** 797 Existing Study: No

Panel #: S09

TxDot: Yes

Date Last Reported:

Project Cost: \$431,250

**Council District:** 5

Original Cost Year: 2010

Study File Name:

Description:

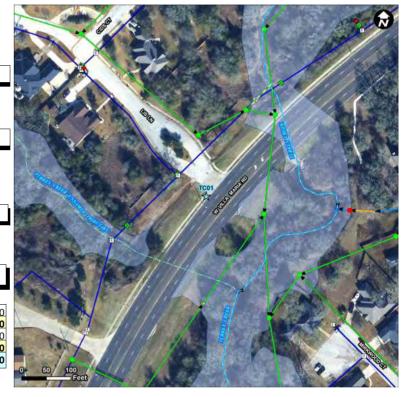
Villa Maria is classified as a major arterial road, according to the City of Bryan Thoroughfare Plan. Culvert improvements are necessary at this crossing to reduce road overtopping. Detailed design for the 100-year storm event. There is currently not a study available for this area.

#### Justification:

There are two existing 9'x9' box culverts that convey flow from Turkey Creek beneath W Villa Maria Road, which is a TxDOT ROW. This street is the only access route for a small subdivision and residential buildings are adjacent to this crossing. Villa Maria Road beings flooding during the 10-year storm event and is overtopped by a depth of 2.67 ft during the 100-year storm event.

## **Funding Options:**

| Funding Source Summary: |           |            |      |      |      |      |      |  |  |  |
|-------------------------|-----------|------------|------|------|------|------|------|--|--|--|
| Туре                    | Original  | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |  |  |  |
| Stormwater              | \$56.250  | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Design/Survey           | \$56,250  |            | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Stormwater              | \$375,000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Const                   | \$375,000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Total                   | \$431,250 |            | \$0  | \$0  | \$0  | \$0  |      |  |  |  |



Ranking Criteria

Life Safety: Street 10

Infrastructure Damage:

Maintenance:

**Structures** 

Frequency of Flooding:

Flooding:

**Funding** Source:

Project Cost: 7

Flooding: Right-of-Way

**Availability:** 







Project Type: Flooding
Date Identified: 2005

Drainage CIP Ranking: 78

Total Weighted Score: 490

Existing Study: No
Panel #: V08

TxDot: No

Date Last Reported:

Project Cost: \$230,000

Council District: 5

Original Cost Year: 2010

Study File Name:

Description:

Jones Road is classified as a collector street, according to the City of Bryan Thoroughfare plan. Culvert improvements are necessary at this crossing to reduce road overtopping. Detailed design for the 100-year storm event has not yet been studied.

Justification:

Turkey Creek flows under the London Bridge at Jones Road. The street is adjacent to undeveloped land and beings flooding during the 50-year storm event. The road is overtopped by a depth of 0.92 ft during the 100-year storm event.

## **Funding Options:**

| Funding Source Summary: |           |            |      |      |      |      |      |  |  |
|-------------------------|-----------|------------|------|------|------|------|------|--|--|
| Туре                    | 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: 7 Street 2 Infrastructure 0 Maintenance: 0

Flooding: Damage:

Structures 3 Frequency of 1 Funding 0 Project Cost: 8 Flooding: Source:





Project: TC03 - Westwood Main Street Crossing SF Turkey Creek

TxDot: No

Project Type: Flooding Date Identified: 2010

**Drainage CIP Ranking: 52** Total Weighted Score: 683

Project Cost: \$345,000

Existing Study: No Panel #: T09

**Council District:** 5

Date Last Reported: Original Cost Year: 2010

Study File Name:

# Description:

Westwood Main Street 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:

The South Fork of Turkey Creek is conveyed under Westwood Main Street through a culvert. The crossing is adjacent to mostly undeveloped land and surrounded with trees. According to the City, the road experiences flooding of approximately less than 6 inches during storm events.

# **Funding Options:**

| Funding Source Summary: |           |            |      |      |      |      |      |  |  |  |
|-------------------------|-----------|------------|------|------|------|------|------|--|--|--|
| Туре                    | 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:

Street Flooding: Infrastructure Damage:

10 Maintenance:

**Structures** Frequency of Flooding:

Flooding:

**Funding** Source:

**Project Cost:** 8

Right-of-Way 10 **Availability:** 

Stormwater Masterplan TC03 Bryan, Texas

12/2/2010



# Project: TC04 - Leon Street Flooding



Project Type: Flooding
Date Identified: 2010

Drainage CIP Ranking: 77
Total Weighted Score: 493

Existing Study: No
Panel #: S10

TxDot: No

Date Last Reported:

Project Cost: \$40,000

Council District: 5

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 only includes the study phase. In the study phase alternatives should be recommended to eliminate flooding in the area.

#### Justification:

3512 Leon Street is located at the intersection of Leon Street and Yegua Street and in a single family residential subdivision. The City identified general street flooding at this location due to runoff from the streets and subdivision.

## **Funding Options:**

## **Funding Source Summary:**

| Туре          | Original | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------|----------|------------|------|------|------|------|------|
| Stormwater    | \$40,000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Design/Survey | \$40.000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Total         | \$40,000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |



### Ranking Criteria

Life Safety: 0 Street 3 Infrastructure 0 Maintenance: 2

Flooding: Damage:

Structures 5 Frequency of 4 Funding 0 Project Cost: 1

Flooding: Flooding: Source:



Project: TC05 - W Villa Maria Erosion



Project Type: Erosion

Drainage CIP Ranking: 88

Existing Study: No

TxDot: Yes

Date Identified: 2010

Date Last Reported:

Total Weighted Score: 427
Project Cost: \$862,500

*Panel #:* S09

Original Cost Year: 2010

Study File Name:

**Council District:** 5

### **Description:**

Erosion control and detailed design is needed to propose improvements that will reduce erosion along the channel. Culvert improvements are needed at this location (TC01), and could be completed concurrently with this project.

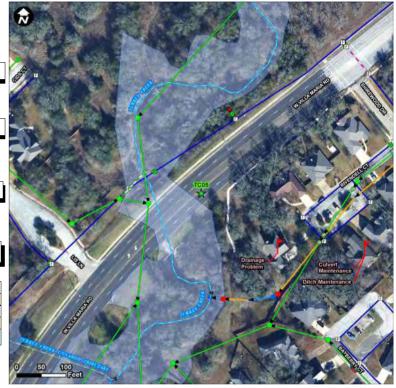
#### Justification:

Turkey Creek is conveyed under W Villa Maria Road through a culvert crossing. The crossing is adjacent to residential buildings on the south and undeveloped area to the north. The City identified erosion along the creek on the up and downstream sides of W Villa Maria Road.

## **Funding Options:**

## **Funding Source Summary:**

| Туре          | Original  | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------|-----------|------------|------|------|------|------|------|
| Stormwater    | \$112,500 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Design/Survey | \$112.500 |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Stormwater    | \$750.000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Const         | \$750.000 |            | \$0  | \$0  | \$0  | Ś0   | \$0  |
| Total         | \$862,500 |            | \$0  | \$0  | \$0  | \$0  | \$0  |



### Ranking Criteria

Life Safety: 0 Street 4 Infrastructure 4 Maintenance: 2

Flooding: Damage:

Structures 3 Frequency of 0 Funding 0 Project Cost: 6

Flooding: Flooding: Source:







Project Type: Erosion

**Drainage CIP Ranking:** 98

Existing Study: No

TxDot: No

Date Identified: 2010

Date Last Reported:

Total Weighted Score: 313
Project Cost: \$310,500

Council District: 5

Panel #: T09

Original Cost Year: 2010

Study File Name:

# Description:

Erosion control and detailed design is needed to propose improvements that will reduce erosion along the channel.

#### Justification:

Turkey Creek Unnamed Tributary flows east of the Miana Court cul-de-sac and is conveyed under Villa Maria Road. The area is mainly small subdivisions and undeveloped land. According to the City, there is erosion along the channel behind the homes at 2100 and 2102 Miana court.

## **Funding Options:**

## **Funding Source Summary:**

| Туре          | Original  | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------|-----------|------------|------|------|------|------|------|
| Stormwater    | \$40,500  | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Design/Survey | \$40.500  |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Stormwater    | \$270.000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Const         | \$270.000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Total         | \$310,500 |            | \$0  | \$0  | \$0  | \$0  | \$0  |



# Ranking Criteria

Life Safety: 0 Street 0 Infrastructure 4 Maintenance: 0

Flooding: Damage:

Structures 0 Frequency of 0 Funding 0 Project Cost: 8

Flooding: Flooding: Source:



Project: TC07 - N Traditions Dr Erosion



Project Type: Erosion

Drainage CIP Ranking: 102

Existing Study: No

TxDot: No

Date Identified: 2010

Date Last Reported:

Total Weighted Score: 285
Project Cost: \$690,200

*Panel #:* T09

Original Cost Year: 2010

Study File Name:

**Council District:** 5

## Description:

Erosion control and detailed design is needed to propose improvements that will reduce erosion along approximately 1700 LF of channel.

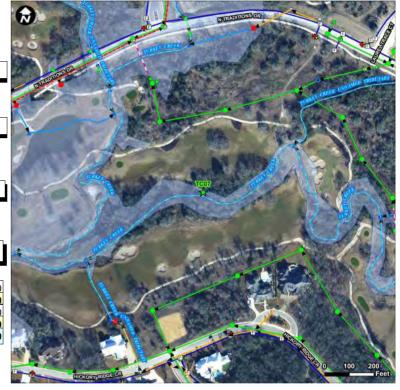
#### Justification:

Turkey Creek is conveyed under North Traditions Drive. Turkey Creek Tributary D combines with Turkey Creek near this crossing. The creek flows through the Traditions Golf Course and surrounded by trees with a small detention pond to the southwest. According to the City, there is erosion along Turkey Creek.

## **Funding Options:**

## **Funding Source Summary:**

| Туре          | Original  | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------|-----------|------------|------|------|------|------|------|
| Stormwater    | \$10,200  | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Design/Survey | \$10.200  |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Stormwater    | \$680.000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Const         | \$680.000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Total         | \$690,200 |            | \$0  | \$0  | \$0  | \$0  | \$0  |



### Ranking Criteria

Life Safety: 0 Street 0 Infrastructure 4 Maintenance: 0 Flooding: Damage:

Structures 0 Frequency of 0 Funding 0 Project Cost: 6

Flooding: Flooding: Source:



Project: TC08 - S Traditions Dr Erosion



Project Type: Erosion

Drainage CIP Ranking: 98

Existing Study: No

Panel #: U09

TxDot: No

Date Identified: 2010 Date Last Reported:

Total Weighted Score: 313 Project Cost: \$207,000

**Council District:** 5

Original Cost Year: 2010

Study File Name:

### **Description:**

Erosion control and detailed design is needed to propose improvements that will reduce erosion along the channel.

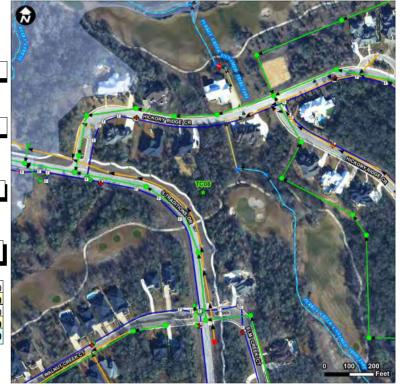
#### Justification:

Turkey Creek is conveyed under a bridge at South Tradition Drive west of Hickory Ridge. The creek flows through the Traditions Golf Course up and downstream of S Traditions Drive. According to the City, there is erosion along the creek and causes flooding near the Traditions Ph 4 subdivision to the south.

## **Funding Options:**

## **Funding Source Summary:**

| L             |           |            |      |      |      |      |      |
|---------------|-----------|------------|------|------|------|------|------|
| Туре          | Original  | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |
| Stormwater    | \$27,000  | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Design/Survey | \$27.000  |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Stormwater    | \$180.000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |
| Const         | \$180.000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |
| Total         | \$207,000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |



### Ranking Criteria

Life Safety: Infrastructure 4 Maintenance: Street

Flooding: Damage:

**Structures** Frequency of **Funding Project Cost:** 8

Flooding: Flooding: Source:





Project: TC09 - Traditions Golf Course Area Erosion

**Project Type:** Erosion

Drainage CIP Ranking: 119

Existing Study: No

TxDot: No

Date Identified: 2010 Date Last Reported:

Total Weighted Score: 146 Project Cost: \$1,840,000

Panel #: T09

**Council District:** 5

Original Cost Year: 2010

Study File Name:

## **Description:**

Erosion control and detailed design is needed to propose improvements that will reduce erosion along approximately 4000 LF of channel.

#### Justification:

Turkey Creek flows through the Traditions Golf Course southwest of Traditions Blvd and N Traditions Drive. The channel experiences erosion along its banks.

# **Funding Options:**

| Funding Source Summary: |             |            |      |      |      |      |      |  |  |  |
|-------------------------|-------------|------------|------|------|------|------|------|--|--|--|
| Туре                    | Original    | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |  |  |  |
| Stormwater              | \$240,000   | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Design/Survey           | \$240,000   |            | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Stormwater              | \$1.600.000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |
| Const                   | \$1.600.000 |            | \$0  | Ś0   | \$0  | \$0  | Ś0   |  |  |  |
| Total                   | \$1,840,000 |            | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |  |



## Ranking Criteria

Life Safety: Infrastructure 4 Maintenance: Street

Flooding: Damage:

**Structures** Frequency of **Funding Project Cost:** 5 Flooding: Flooding: Source:

0 Right-of-Way

**Availability:** 



Project: TC10 - Hummingbird Lane Erosion

TxDot: No



**Project Type:** Erosion

**Drainage CIP Ranking: 75** 

Existing Study: No

Date Identified: 2010

Total Weighted Score: 544

Project Cost: \$143,750

Panel #: T09

Date Last Reported:

**Council District:** 5

Original Cost Year: 2010

Study File Name:

**Description:** 

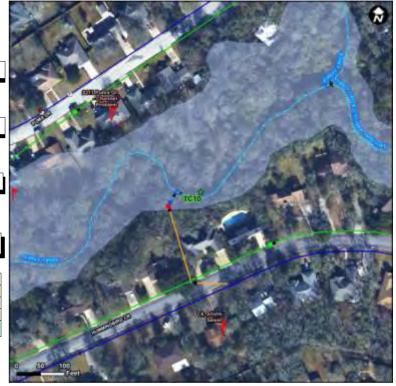
The northwest corner of the residence is threatened by erosion of the slope. The project requires an extension of the storm drain and armory of the slope to prevent future erosion.

Justification:

There is severe erosion near 3009 Hummingbird Lane due to storm drain discharge into a tributary of Turkey Creek. There is limited access to the subidivision and severe elevation differential caused by the erosion.

## **Funding Options:**

| Funding Source Summary: |           |            |      |      |      |      |      |  |  |
|-------------------------|-----------|------------|------|------|------|------|------|--|--|
| Туре                    | Original  | Source     | 2011 | 2012 | 2013 | 2014 | 2015 |  |  |
| Stormwater              | \$18,750  | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |
| Design/Survey           | \$18,750  |            | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |
| Stormwater              | \$125.000 | Stormwater | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |
| Const                   | \$125.000 |            | \$0  | \$0  | Ś0   | \$0  | \$0  |  |  |
| Total                   | \$143,750 |            | \$0  | \$0  | \$0  | \$0  | \$0  |  |  |



## Ranking Criteria

Life Safety: Street Infrastructure 10

Maintenance: 2

Flooding: **Structures** 

Damage:

Frequency of

**Funding** 

Project Cost: 9

Flooding:

Flooding:

Source: