

# Flood Mitigation Project (FMP)



Title **Arlington VC(A)-1 Drainage and Erosion Improvements**

ID# **033000016** Sponsor **Arlington**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

Arlington VC(A)-1 Drainage and Erosion Improvements; unfunded FIF #13646  
 This project includes improving the drainage in a residential area with an undersized bridge and severe erosion issues.

Watershed HUC# (if known) **120301020506,120301020405** Emergency Need? **No**  
 Drainage area (mi<sup>2</sup> est.) **1**  
 Associated FME's **-** County **Tarrant**  
 Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**  
 Population at risk **472** # of structures **115** Critical facilities **4**  
 Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **2**  
 Number of low water crossings **3** Historical road closures **-**

## 100-Year Flood Risk Reduction

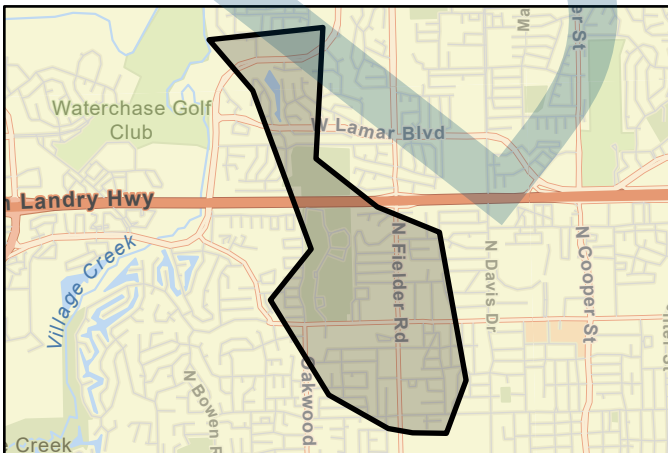
Population removed from 100-yr **290** # of structures removed from 100-yr **72**  
 Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **0**  
 Road removed from 100-yr (miles) **-** Low water crossings removed from 100-yr **0**  
 Other benefits **-** Reduction in # of road closures over 10 years **3**

## Impacts

Negative impacts? **Yes** Negative impacts description **-**  
 Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Project Cost **\$2,601,000** % Nature-Based **0** BCR **-**  
 Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)



Title **Lancaster/Foch Area Mitigation**

ID# **033000030** Sponsor **Fort Worth**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

To decrease the flooding depths near the Norwood/Bledsoe/Crockett intersections, a storm drain alternative was developed. The storm drain system would run along Foch Street and then through Trinity Park to the river.

Watershed HUC# (if known)	<b>120301020105,120301020307</b>	Emergency Need?	<b>No</b>
Associated FME's	<b>-</b>	Drainage area (mi <sup>2</sup> est.)	<b>6</b>
Associated FMS's	<b>-</b>	County	<b>Tarrant</b>
		Associated FMP's	<b>-</b>

## Existing 100-Year Flood Risk

Flood risk type:	Riverine? <b>Yes</b>	Coastal? <b>No</b>	Local? <b>No</b>	Playa? <b>No</b>	Other? <b>No</b>
Population at risk	<b>14,214</b>	# of structures	<b>400</b>	Critical facilities	<b>3</b>
Farm/Ranch land impacted (acres)	<b>0</b>	Roadway(s) impacted (length)	<b>7</b>		
Number of low water crossings	<b>1</b>	Historical road closures	<b>-</b>		

## 100-Year Flood Risk Reduction

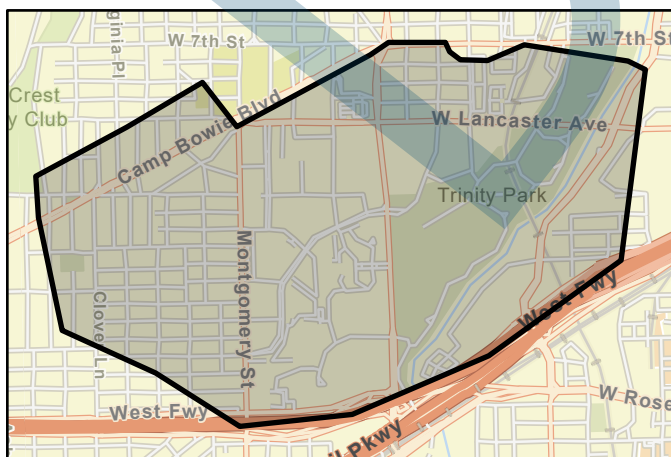
Population removed from 100-yr	<b>808</b>	# of structures removed from 100-yr	<b>19</b>
Critical facilities removed from 100-yr	<b>0</b>	Farm/Ranch land removed from 100-yr (acres)	<b>0</b>
Road removed from 100-yr (miles)	<b>-</b>	Low water crossings removed from 100-yr	<b>0</b>
Other benefits	<b>-</b>	Reduction in # of road closures over 10 years	<b>1</b>

## Impacts

Negative impacts?	<b>Yes</b>	Negative impacts description	<b>-</b>
Water supply contributions?	<b>No</b>	Water supply contribution description	<b>-</b>

## Estimated Cost

Project Cost	<b>\$11,771,000</b>	% Nature-Based	<b>0</b>	BCR	<b>-</b>
Recurring costs	<b>-</b>	Issues	<b>-</b>		



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)



Title **Linwood Park Flood Mitigation (University Drive)**

ID# **033000031** Sponsor **Fort Worth**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

To mitigate the flooding depths in the Linwood Park area, a storm drain would outfall to the West Fork Trinity River.

Watershed HUC# (if known) **120301020105,120301020307** Emergency Need? **No**  
 Drainage area (mi<sup>2</sup> est.) **2**  
 Associated FME's **-** County **Tarrant**  
 Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**  
 Population at risk **20,830** # of structures **669** Critical facilities **7**  
 Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **15**  
 Number of low water crossings **1** Historical road closures **-**

## 100-Year Flood Risk Reduction

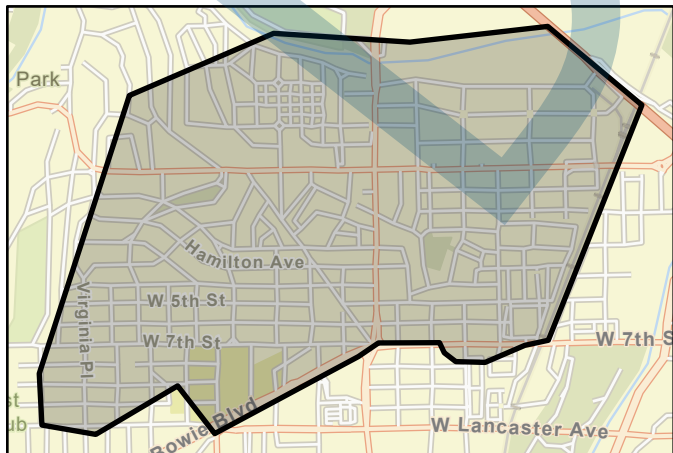
Population removed from 100-yr **1,026** # of structures removed from 100-yr **6**  
 Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **0**  
 Road removed from 100-yr (miles) **-** Low water crossings removed from 100-yr **0**  
 Other benefits **-** Reduction in # of road closures over 10 years **0**

## Impacts

Negative impacts? **Yes** Negative impacts description **-**  
 Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Project Cost **\$50,523,000** % Nature-Based **0** BCR **-**  
 Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)



Title **Spring Meadows Estates Detention Pond Design**

ID# **033000007** Sponsor **Sachse**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

Pond redesign and reconstruction to lower normal pool elevation to be below inlets upstream. Increase storage capacity and design outlet works to increase level of service to 100-yr storm event.

Watershed HUC# (if known) **120301060406,120301060408,12030106040** Emergency Need? **No**

Drainage area (mi<sup>2</sup> est.) **1**

Associated FME's **-** County **Dallas**

Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Population at risk **18** # of structures **9** Critical facilities **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures **-**

## 100-Year Flood Risk Reduction

Population removed from 100-yr **18** # of structures removed from 100-yr **9**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **0**

Road removed from 100-yr (miles) **-** Low water crossings removed from 100-yr **0**

Other benefits **-** Reduction in # of road closures over 10 years **-**

## Impacts

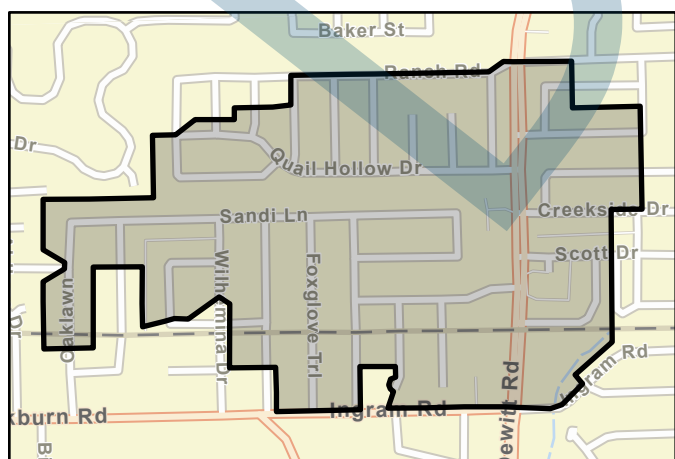
Negative impacts? **No** Negative impacts description **-**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Project Cost **\$1,868,000** % Nature-Based **0** BCR **-**

Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)



Title **Sunnyvale Urban Flooding Reduction Improvements - Area 1**

ID# **033000033** Sponsor **Sunnyvale**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

Proposed alternatives to reduce roadway overtopping's during the 100-year ultimate storm such as culvert and ditch improvements.

Watershed HUC# (if known) **120301060501,120301060503** Emergency Need? **No**

Drainage area (mi<sup>2</sup> est.) **1**

Associated FME's **-** County **Dallas**

Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Population at risk **844** # of structures **25** Critical facilities **1**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures **-**

## 100-Year Flood Risk Reduction

Population removed from 100-yr **844** # of structures removed from 100-yr **14**

Critical facilities removed from 100-yr **1** Farm/Ranch land removed from 100-yr (acres) **0**

Road removed from 100-yr (miles) **-** Low water crossings removed from 100-yr **0**

Other benefits **-** Reduction in # of road closures over 10 years **6**

## Impacts

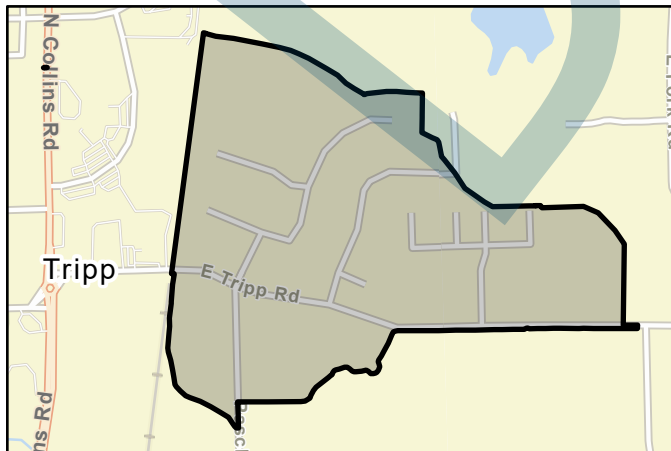
Negative impacts? **Yes** Negative impacts description **-**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Project Cost **\$4,560,000** % Nature-Based **0** BCR **-**

Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area



# Flood Mitigation Project (FMP)



Title **Sunnyvale Urban Flooding Reduction Improvements - Area 2**

ID# **033000036** Sponsor **Sunnyvale**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

Proposed alternatives to reduce roadway overtopping's during the 100-year ultimate storm such as culvert, ditch and storm drain improvements.

Watershed HUC# (if known) **120301060503** Emergency Need? **No**  
 Drainage area (mi<sup>2</sup> est.) **1**  
 Associated FME's **-** County **Dallas**  
 Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**  
 Population at risk **113** # of structures **35** Critical facilities **1**  
 Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **1**  
 Number of low water crossings **0** Historical road closures **-**

## 100-Year Flood Risk Reduction

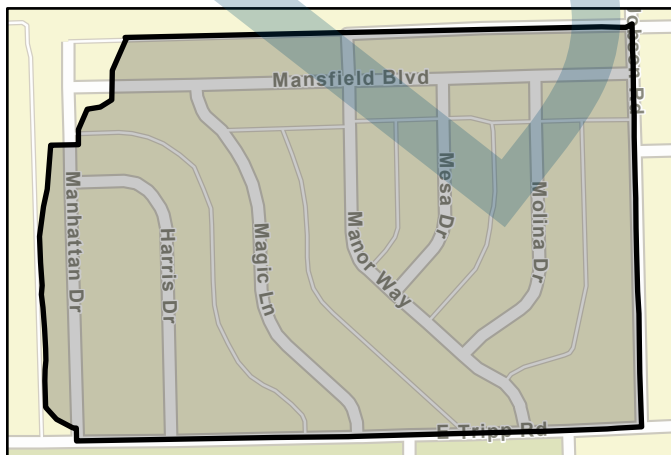
Population removed from 100-yr **113** # of structures removed from 100-yr **32**  
 Critical facilities removed from 100-yr **1** Farm/Ranch land removed from 100-yr (acres) **0**  
 Road removed from 100-yr (miles) **-** Low water crossings removed from 100-yr **0**  
 Other benefits **-** Reduction in # of road closures over 10 years **7**

## Impacts

Negative impacts? **Yes** Negative impacts description **-**  
 Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Project Cost **\$5,701,000** % Nature-Based **0** BCR **-**  
 Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)



Title **West Irving Creek Phases 2, 3, and 4**

ID# **033000008** Sponsor **Irving**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Project Description

FIF - 13792; The West Irving Creek channel improvements project consists of reconstruction of over 2.5 miles of shallow trapezoidal concrete channel as deeper vertical walled channel to increase capacity and relieve historical flooding issues. The ve

Watershed HUC# (if known) **120301020706** Emergency Need? **No**  
 Drainage area (mi<sup>2</sup> est.) **68**  
 Associated FME's **-** County **Dallas**  
 Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**  
 Population at risk **1,102** # of structures **247** Critical facilities **7**  
 Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **5**  
 Number of low water crossings **4** Historical road closures **-**

## 100-Year Flood Risk Reduction

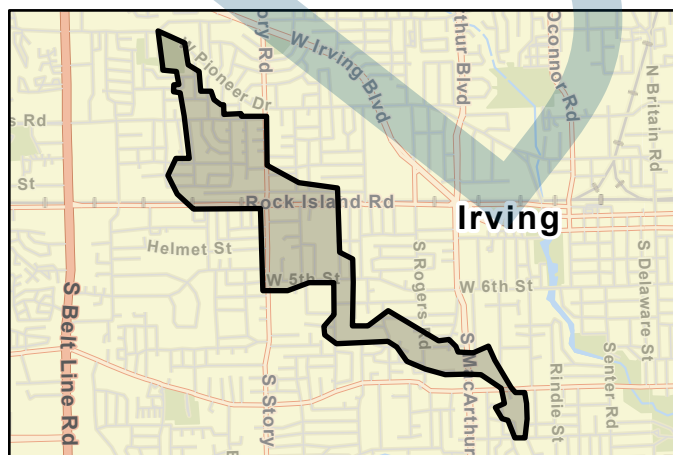
Population removed from 100-yr **1,073** # of structures removed from 100-yr **240**  
 Critical facilities removed from 100-yr **-2** Farm/Ranch land removed from 100-yr (acres) **0**  
 Road removed from 100-yr (miles) **-** Low water crossings removed from 100-yr **-3**  
 Other benefits **-** Reduction in # of road closures over 10 years **44**

## Impacts

Negative impacts? **No** Negative impacts description **-**  
 Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Project Cost **\$98,746,000** % Nature-Based **0** BCR **-**  
 Recurring costs **-** Issues **-**



FMP area



Regional view of FMP area