



# **CITY OF SUNSET VALLEY**

FY 2021-2022 Capital Improvement Projects

NOVEMBER 29, 2021





# **WATER SYSTEM**

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Capital Improvement Projects

# PROJECT INFORMATION SHEET

**Project Name:** Sunset Trail Water Line Improvements

**Type of Improvements:** Water

**Project Description:**

Replace undersized water mains and construct water main connections to improve domestic and fire flows in the area.

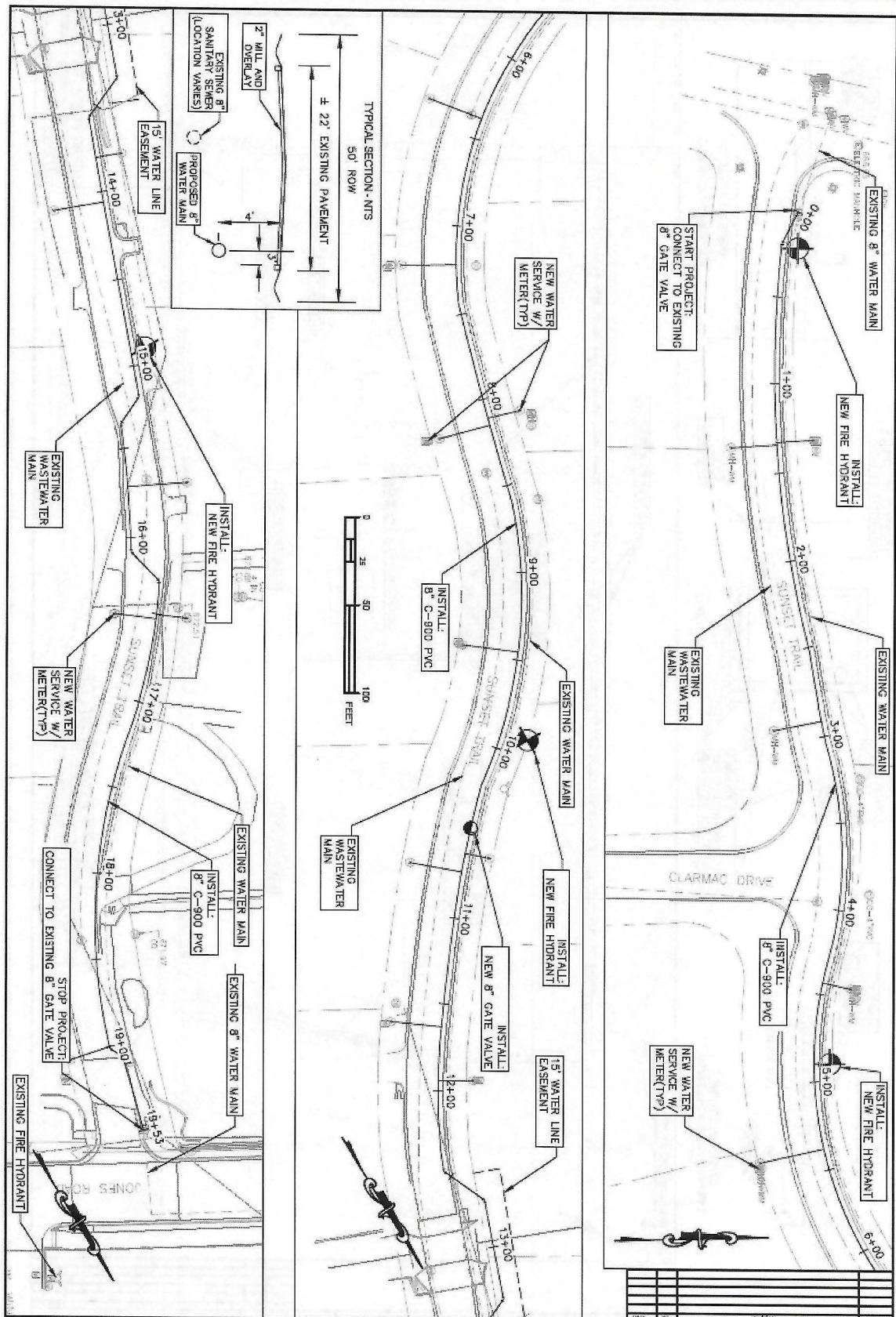
The improvements include installing an 8” waterline in Sunset Trail from Jones Road to Reese Street and constructing an 8” water main loop connection between Reese Drive and Pillow Drive.

**Notable Project Challenges:**

- Water line separation from existing sanitary sewer main.
- This project will require the acquisition of water line easements.

**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 45,000	
Right-of-way Acquisition	\$ 20,000	
Construction	\$ 290,000	
Contingency	\$ 35,000	
<b>TOTAL</b>	<b>\$ 390,000</b>	



<b>B</b>	SHEET	FILE C:\120-105 PLAN.dwg
	EXH	DRAWN BY: CF
	B	DESIGNED BY: GF
		REVIEWED BY: GVT
		PROJECT NO.: 120-105

CITY OF SUNSET VALLEY  
 JONES ROAD AND SUNSET TRAIL  
 STREET, DRAINAGE, AND WATERLINE IMPROVEMENTS  
 PRELIMINARY SCHEMATIC

**Freeland & Turk**  
 ENGINEERING GROUP

150 CREEKSIDE PARK RD. STE 200 (330) 435-0329  
 SPRING BRANCH, TX 75076 TBPE FIRM 5-21047

# PROJECT INFORMATION SHEET

**Project Name:** Lone Oak Trail Water Line Improvements

**Type of Improvements:** Water

**Project Description:**

Replace undersized water mains and construct water main connections to improve domestic and fire flows in the area.

The improvements consist of replacing the undersized water main with an 8” water line from the City water treatment plant to the existing 8” main in Jones Road and establishing water system loop connections between Lone Oak Trail at Curley Mesquite.

**Notable Project Challenges:**

- Water line loop connections will be intrusive to landowners.
- Water utility easements required (2 parcels).

**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 20,000	
Right-of-way Acquisition/Permitting	\$ 30,000	
Construction	\$ 120,000	
Contingency	\$ 20,000	
<b>TOTAL</b>	<b>\$ 190,000</b>	

⋯ Existing 8" Water Mains  
— Proposed 8" Water Mains



SHEET:  
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 JOB:  
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 DATE:  
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City of Sunset Valley  
 Lone Oak Trail Water Line  
 Improvements



**Freeland Turk**  
**ENGINEERING GROUP**  
 160 CREEKSIDE PARK ROAD, SUITE 200  
 SPRING BRANCH, TX 78070  
 TBPE FIRM F-21047

# PROJECT INFORMATION SHEET

**Project Name:** Backflow Preventer Repair and Winterization

**Type of Improvements:** Water

**Project Description:**

Repair / replace and winterize backflow preventers maintained by the CoSV.



**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 15,000	
Right-of-way Acquisition		
Construction	\$110,000	
Contingency	\$ 15,000	
<b>TOTAL</b>	<b>\$140,000</b>	

# PROJECT INFORMATION SHEET

**Project Name:** Residential and Commercial AMR Water Meter Replacement

**Type of Improvements:** Water

**Project Description:**

Replace existing residential and commercial water meters with AMR meters. AMR water metering allows data to be read electronically using cell technology and data processed using Incode Technology billing software.



**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 30,000	
Right-of-way Acquisition		
Construction	\$250,000	
Contingency	\$ 20,000	
<b>TOTAL</b>	<b>\$300,000</b>	





# **WASTEWATER SYSTEM**

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Capital Improvement Projects

# PROJECT INFORMATION SHEET

**Project Name:** Stearns Lane Lift Station Improvements

**Type of Improvement:** Wastewater

**Project Description:**

Rehabilitate the Stearns Lane lift station to meet code requirements and increase its capacity to accommodate future growth. Improvements include grinder pumps, pump controls, and SCADA.

**Notable Project Challenges**

- Additional easement acquisition.
- Sewage bypass pumping.



**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 44,000	
Right-of-way Acquisition	\$ 0	
Construction	\$115,000	
Contingency	\$ 25,000	
<b>TOTAL</b>	<b>\$184,000</b>	

# PROJECT INFORMATION SHEET

**Project Name:** US 290 Sanitary Sewer Main Repairs

**Type of Improvement:** Wastewater

**Project Description:**

Replacement and repairs of sewer pipe will eliminate sag conditions and protruding service connections, reducing maintenance effort and costs. The effort includes replacement and repair of the existing sewer pipe at 8 locations, totaling over 325 feet.

**Notable Project Challenges:**

- Constrained work area
- Potential utility conflicts during construction
- Damage to landscaping
- Short term single driveway closures
- Bypass pumping

**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 20,000	
Right-of-way Acquisition	\$	
Construction	\$100,000	
Contingency	\$ 30,000	
<b>TOTAL</b>	<b>\$150,000</b>	

 Sewer Main Repairs



SHEET:

JOB:

DATE:

City of Sunset Valley  
US 290 Sanitary Sewer Main Repairs



**Freeland Turk**  
**ENGINEERING GROUP**

160 CREEKSIDE PARK ROAD, SUITE 200  
SPRING BRANCH, TX 78070  
TBPE FIRM F-21047



# **STREETS**

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Capital Improvement Projects

# PROJECT INFORMATION SHEET

**Project Name:** Lone Oak Trail Turnaround Improvements

**Type of Improvements:** Street

**Project Description:**

Construct turnaround at the south end of Lone Oak Trail for emergency vehicles. The improvements include a handicap parking space.

**Notable Project Challenges:**

- Conversion of City Property to Right-of-way



**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 15,000	
Right-of-way Acquisition	\$ 5,000	
Construction	\$ 50,000	
Contingency	\$ 10,000	
<b>TOTAL</b>	<b>\$ 80,000</b>	



Not To Scale



SHEET:

JOB:  
DATE:

City of Sunset Valley  
Lone Oak Trail Turnaround



**Freeland Turk**  
**ENGINEERING GROUP**

160 CREEKSIDE PARK ROAD, SUITE 200  
SPRING BRANCH, TX 78070  
TBPE FIRM F-21047

# PROJECT INFORMATION SHEET

Project Name: 5-Year Street Maintenance Plan

Type of Improvements: Street

**Project Description:**

Maintenance of all streets in Sunset Valley including crack sealing, patching, joint repair, micro-surfacing, and mill and overlay.



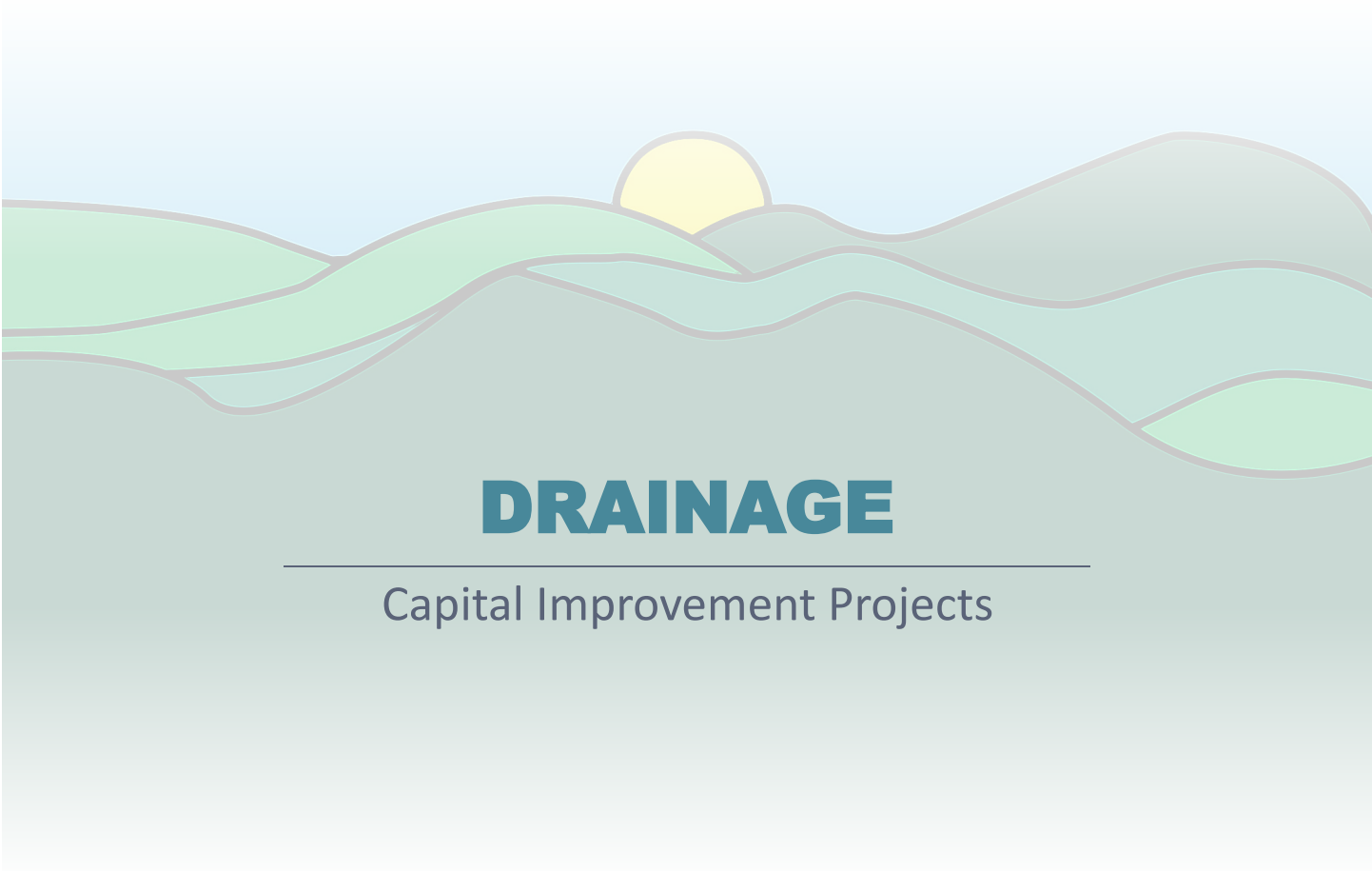
FREELAND TURK ENGINEERING GROUP, LLC FIRM F-21047  
 160 CREEKSIDE PARK ROAD, SUITE 160  
 SPRING BRANCH, TX 78070 830-377-4555

PROJECT CITY OF SUNSET VALLEY 5-YR STREET MAINTENANCE PROGRAM SUMMARY  
 DATE 4/15/2021

**5 YR STREET MAINTENANCE PROGRAM**

Street Name	Segment	Construction Type	Composite Rating		Lane-Feet (Estimated)	Patching / Joint Repair	Micro-surfacing	Mill & Overlay	5-Year Maintenance Cost
Crack Sealing Program	Citywide				109122.4				\$ 356,970.44
Brodie Lane	Entire	HMAC	59.5	Fair	22387.2				\$ 391,331.33
Ernest Robles Way	S of Jones Road	PCC	63.0	Fair	14439				\$ 213,772.36
Ernest Robles Way	N of Jones	HMAC	76.5	Good	2460				\$ 40,959.00
Jones Road	Entire	HMAC	70.0	Fair	10405				\$ 173,219.84
Home Depot Boulevard	Entire	PCC	66.5	Fair	7300				\$ 113,480.33
Oakdale Drive	Entire	HMAC	86.5	Good	5740				\$ -
Lovegrass Lane	Entire	HMAC	86.5	Good	7600				\$ -
Yellowtail Cove	Entire	HMAC	80.0	Good	3896				\$ -
Curley Mesquite	Entire	HMAC	80.0	Good	774				\$ -
Lone Oak Trail	Entire	HMAC	60.5	Fair	6124				\$ 239,126.08
Pillow Road	N of Jones Road	HMAC	80.0	Good	10466				\$ -
Reese Drive	S of Jones Road	HMAC	73.5	Good	4574				\$ -
Sunset Trail	Entire	HMAC	67.0	Fair	3908				\$ 143,003.49
Clarmac Drive	Entire	HMAC	67.0	Fair	340				\$ -
Sunflower Trail	Entire	HMAC	73.5	Good	4530				\$ -
Muni Complex Parking Lot	Entire	HMAC	83.5	Good	1300				\$ -
<b>Total 5-YR Maintenance Cost</b>									<b>\$ 1,671,862.86</b>





# **DRAINAGE**

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Capital Improvement Projects

# PROJECT INFORMATION SHEET

**Project Name:** Lovegrass Water Quality Pond Repairs

**Type of Improvements:** Drainage

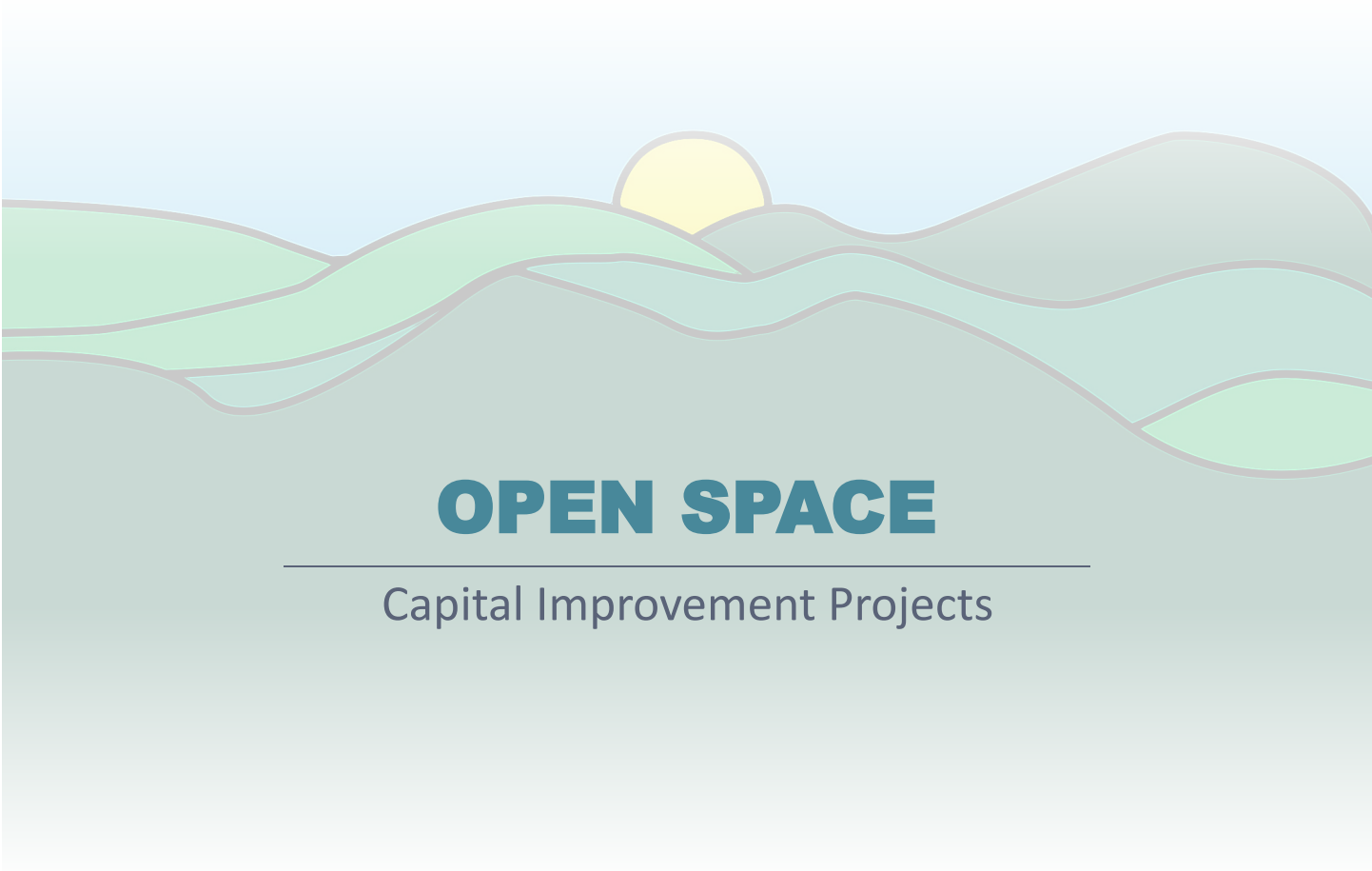
**Project Description:**

Make repairs and return the water quality pond back to service. The improvements include the installation of a new pump and electrical controls, repair pond leak, and replace stone stack.



**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 10,000	
Right-of-way Acquisition		
Construction	\$ 50,000	
Contingency	\$ 5,000	
TOTAL	\$ 65,000	



# **OPEN SPACE**

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Capital Improvement Projects

# PROJECT INFORMATION SHEET

**Project Name:** Valley Creek Park Trail Improvements

**Type of Improvement:** Open Space

**Notable Project Challenges:**

**Project Description:**

- Create a stable trail crossing at the creeks.

Create a trailhead and extend trail across creek to South Hill Conservation Area trail.



**Project Costs**

Activity	Cost	
Engineering / Planning	\$ 5,000	
Right-of-way Acquisition		
Construction	\$30,000	
Contingency	\$ 5,000	
TOTAL	\$40,000	

Not to Scale



 New Trail

Pillow Drive

Reese Drive



SHEET:

City of Sunset Valley  
Valley Creek Park Trail

JOB:  
DATE:



**Freeland Turk**  
**ENGINEERING GROUP**

160 CREEKSIDE PARK ROAD, SUITE 200  
SPRING BRANCH, TX 78070  
TBPE FIRM F-21047