

# **Sherlock Drive and Winter Park Lane Storm Drain Improvement Project**

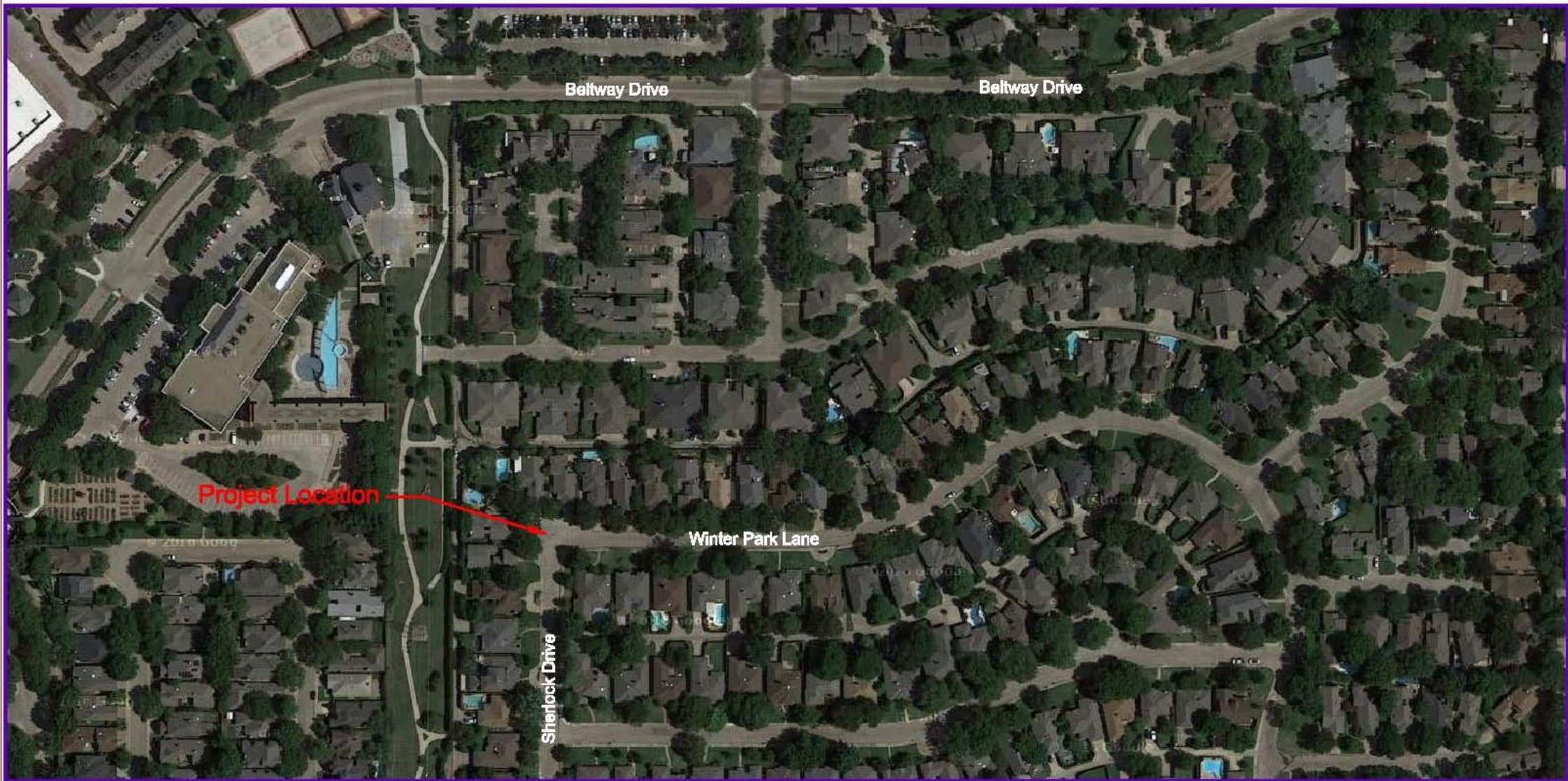
June 26, 2018

The logo for the City of Addison, featuring the word "ADDISON" in blue capital letters inside a white circle, which is set against a blue background with a white diagonal line.

**ADDISON**

# Sherlock / Winter Park Flooding

ADDISON





# Top Priority Project – Sherlock Drive Flooding

ADDISON

- Sherlock Drive/Winter Park Intersection
  - Two recent flooding incidents
    - May 2015
    - June 2016
- Meets all risk criteria:
  - Life safety
  - Potential flood damage to residential, commercial, and/or industrial property
  - Flood risk to roadways
  - Known flooding



# Sherlock / Winter Park Flood Events

A blue circular logo with the word "ADDISON" in white capital letters.

- May 30, 2015
  - Flooded 2 homes
    - 3907 Winter Park
    - 14727 Sherlock Drive
  - Approximately \$40,000 in property damages
- June 12, 2016
  - Flood waters rose several feet over curb
  - No property damage during this event

# Storm Water System Assessment and Analysis

A blue circular logo with the word "ADDISON" in white, uppercase letters.

- Stormwater assessment and analysis shows storm water system is undersized
  - During 1% (100 year) event drainage area generates 165 cubic feet per second (cfs) of runoff
  - Storm drain system capacity is approximately 110 cfs
- Several alternatives were developed to alleviate the risk of flooding
  - Upsizing alternative selected

- Replacement and installation of new storm drain piping
  - Limits of new piping – intersection of Sherlock Drive and Winter Park Lane to Belt Line Road
- Installation of several new inlets
- Regrading and replacement of the intersection of Sherlock Drive and Winter Park Lane
- Site restoration

# Bid Tabulation

A blue circular logo with the word "ADDISON" in white capital letters.

Contractor	Cost
<b>Engineer's Estimate</b>	<b>\$1,068,000</b>
FNH Construction LLC	\$1,324,990
Flow-Line Construction Inc.	\$1,411,558
Texas Standard	\$1,413,879
DDM Construction	\$1,461,461
Joe Funk Construction	\$1,656,908
Camino Construction	\$2,201,230

# Engineers Estimate

- Project was estimated using:
  - Historical bid pricing for municipal projects
  - TxDOT running average pricing
- Project costs were escalated 20% to account for complexity
- Significant line item difference

	Item	Unit	Unit Cost	Total
Halff Associates	54" Concrete Pipe	1,590 LF	\$250.00	\$397,500
FNH	54" Concrete Pipe	1,590 LF	\$450.00	\$715,500

- Contractor stated volatility of the construction market and the potential liability as reasons for higher cost



# Recommendation

- Project Budget - \$1,200,000
  - Design Services - \$160,250
  - Remaining for construction - \$1,039,750
- Move \$500,000 in funds from other projects
  - Addition of inlets on Oaks North Drive and Montfort
  - Both projects would begin design this year
  - Construction would be moved to FY 2019
- Staff plans to discuss funding for future storm water projects during the budget process