

# 2017 Bond Program, Proposition D: Hughes Lane at Kalani Place Storm Drainage Improvement Project

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Assistant Director  
Capital Improvements  
Dallas Water Utilities



# Welcome/Introductions/Opening Remarks

- Welcome/Introduction: Honorable Lee Kleinman  
Council District 11
- Team Introductions: Matt Penk
- Presentation: Clifton Miller / Matt Penk



# Agenda

- Project History & Purpose
- Proposed Improvements
- Schedule and Next Steps
- Community Conversation



# Process

- Presentation (20 Minutes)
- Moderated Conversation (30 Minutes)
  - Questions/Input collected via index cards during presentation
  - Moderator sorts and groups index cards with similar content and directs questions/input to City staff for response
- Post meeting questions/inputs can be directed to City's Project Team

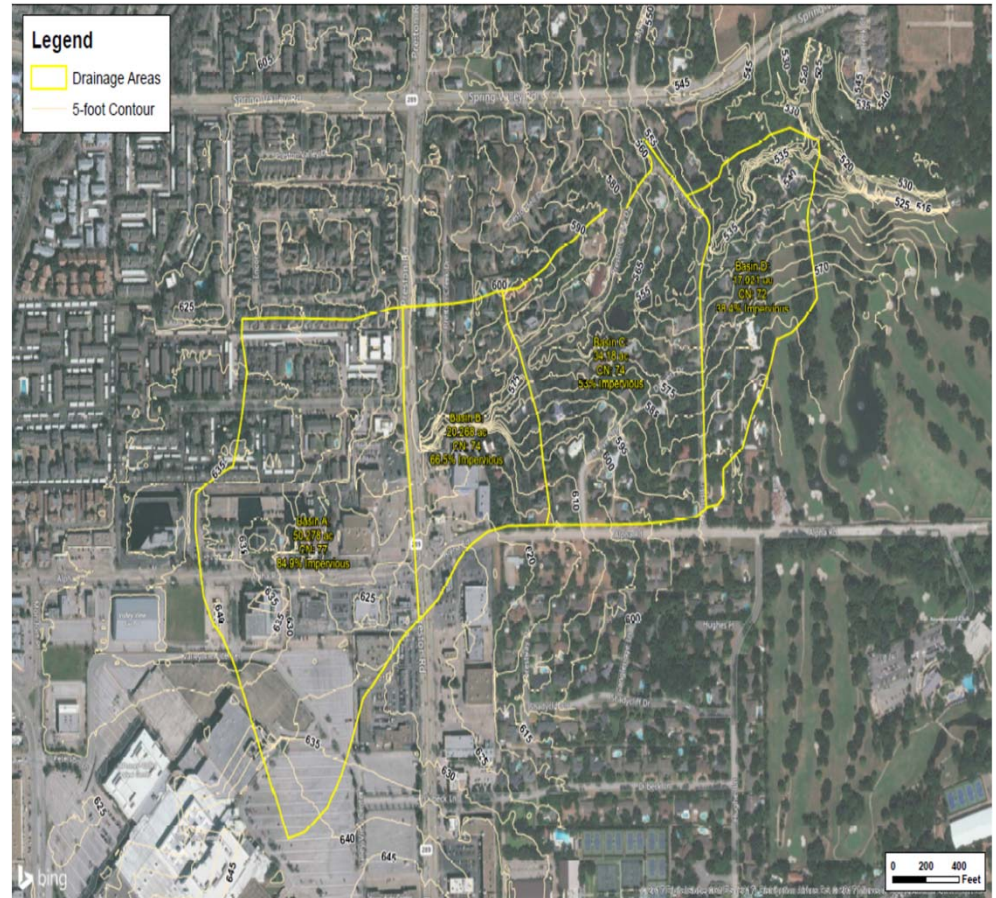


# Project History & Purpose



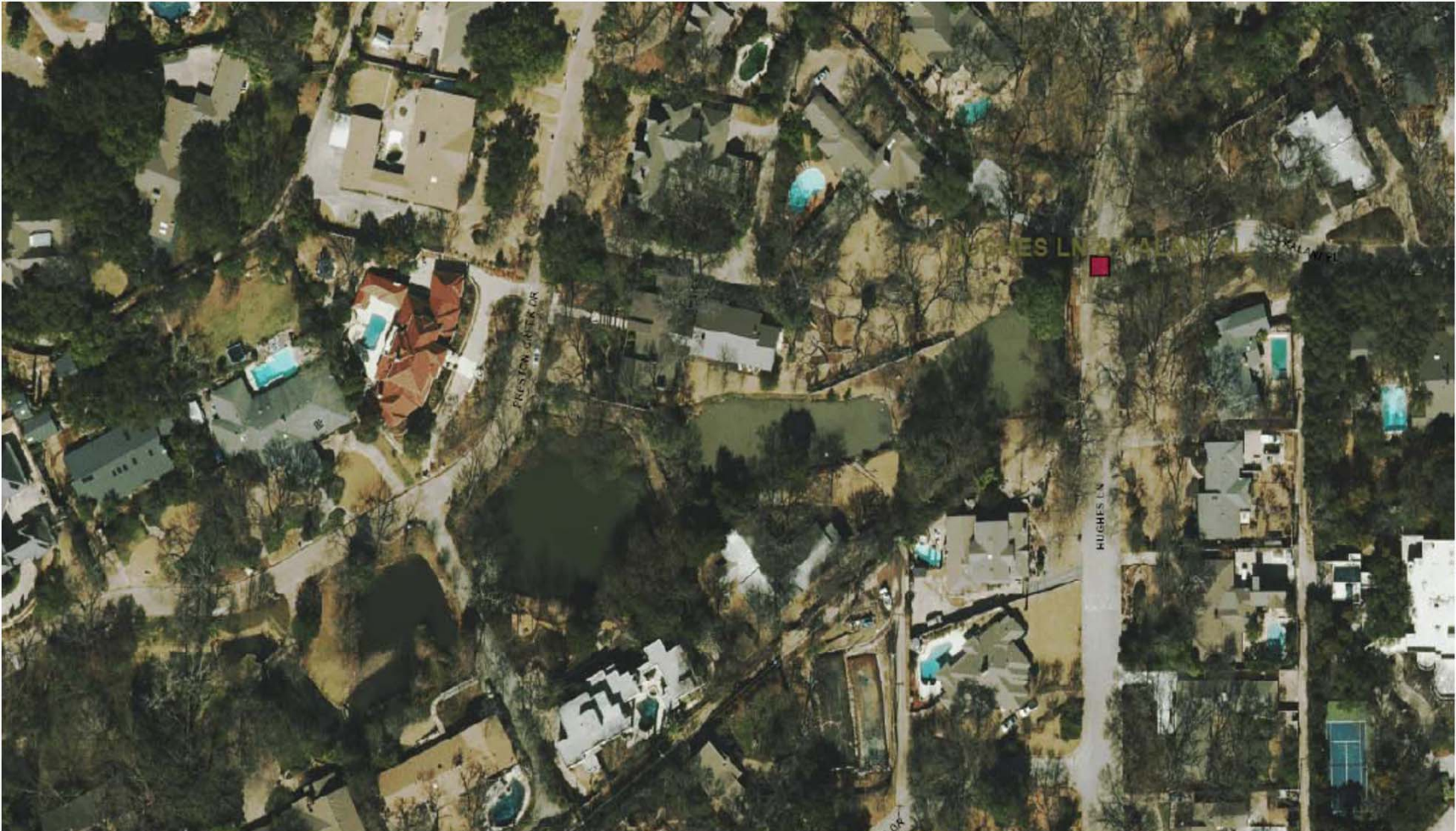
# Drainage Area

- Part of White Rock Creek Tributary #6
- Total Drainage Area at Hughes Lane ~ 105 acres
- Includes 4 private ponds in series





# Drainage Area - Ponds



# Drainage System

- Drained at Hughes Lane through a morning glory and auxiliary spillway
- Drainage system built by developer around 1960 to serve neighborhood drainage
- Additional connectivity to the City's storm drainage system in the 1970's





# Flood Risk Management

- Flooding concerns expressed since the 1970's
- Additional inlets added on Hughes Lane in 1974
- Flood risk management project included in City's Unfunded Needs Inventory in 1979
- Flooding persisted and a study was initiated in 1988 that recommended upsizing underground pipes and modifications to the spillway



# Hughes Lane Flooding



# Flood Risk Management

- In 2017 the City commissioned a study to reassess current conditions and flood risk on Hughes Lane at Kalani Place
- Study included field evaluation, survey, and flood modeling
- Study concluded:
  - Hughes Lane is overtopped during a 1-year storm
  - Hughes Lane considered hazardous crossing in 100-year storm
  - Improvements needed to alleviate flooding and hazardous road condition



# Proposed Improvements



# Drainage Improvements

- 2017 Study recommended the following:
  - Approximately 115-foot long dual 6' x 6' box culvert under Hughes Lane
  - Overflow weir from pond and channel connected to box culvert
  - Approximately 30 feet of open back inlets on Hughes Lane draining to 36" pipe connected to box culvert





# Implementation

- 2017 Bond Program includes \$800,000 for drainage improvements for this project (design and construction)
- Design request for qualifications has been completed and design firm selected
- City Council consideration of the design contract planned for May 22, 2019



# Schedule / Next Steps



# Next Steps

- Design team will begin design in Late Spring/Early Summer 2019
- Proposed work will be advanced and community updated in Fall 2019
- Design will incorporate neighborhood feedback, where possible, and is anticipated to be complete Summer 2020
- Construction may begin as early as Fall 2020 and be completed Summer 2021



# Community Update Milestones

Phase	Date	Comments
Preliminary Design	Fall 2019	Community Update
Final Design	Summer 2020	Community Update
Construction Start	Fall 2020	Community Meeting
Construction Completion	Summer 2021	Community Update



# Dallas Water Utilities Project Team

Team Member /Contact Information	Role
Matt Penk, P.E. 214-671-9560 <a href="mailto:matthew.penk@dallascityhall.com">matthew.penk@dallascityhall.com</a>	Assistant Director Capital Improvements
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# Community Conversation



# Adjourn

