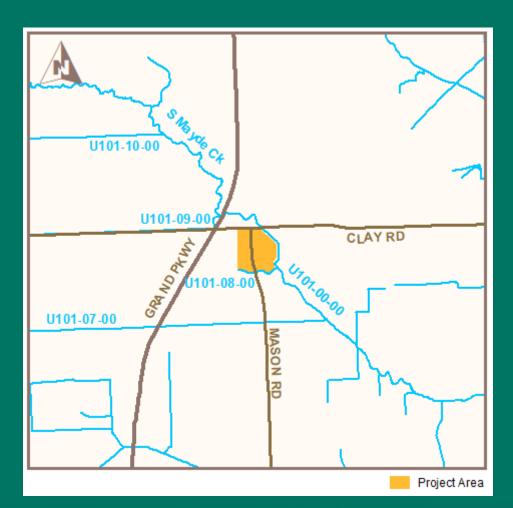
Bridgewater Village & Enclave at Bridgewater Subdivision Drainage Improvements **Lonnie Anderson** Principal **Pape-Dawson Engineers**





Study Location





PROJECT PROGRESS & COMMUNITY ENGAGEMENT

Study Purpose

- Assess historical flood risk
- Develop improvements to reduce flood risk within the subdivision from:
 - Storms up to the 1% Annual Chance (100-yr)
 - Local runoff
 - South Mayde Creek (U101-00-00)



PROJECT PROGRESS & COMMUNITY ENGAGEMENT

Overview

- Neighborhood built in 1999
- Curb and gutter with storm sewer system
- Drainage system is adequate for local rainfall
- Issue:
 - South Mayde Creek overflows Clay Rd at North Mason and sheetflows directly into neighborhood
 - Local drainage system was not designed for this additional flow



PROJECT PROGRESS & COMMUNITY ENGAGEMENT





PROJECT PROGRESS & COMMUNITY ENGAGEMENT

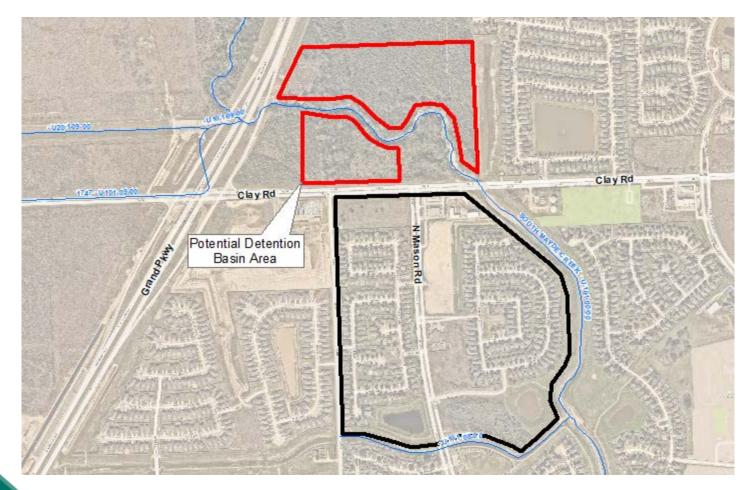
Proposed Improvements

- Wet-bottom detention basin with a low-lying (1-2 ft) berm north of Clay Rd
- This will prevent overtopping of Clay Rd during a 1% Annual Chance (100-Yr) event



PROJECT PROGRESS & COMMUNITY ENGAGEMENT

Proposed Improvements





PROJECT PROGRESS & COMMUNITY ENGAGEMENT

Estimated Flood Depth 1% Annual Chance (100-Yr)

BEFORE







Max Depth (ft)	1.5 - 2
< 0.25	2 - 2.5
0.25 - 0.5	2.5 - 3
0.5 - 1	3 - 5
1 - 1.5	> 5



PROJECT PROGRESS & COMMUNITY ENGAGEMENT

How will this project benefit your community?

- Will prevent overtopping of Clay Rd during a 100-yr storm
- This will eliminate flooding in homes
- This will reduce flooding in streets from up to 3-ft to 6-inches







PROJECT PROGRESS & COMMUNITY ENGAGEMENT



PROJECT PROGRESS & COMMUNITY ENGAGEMENT