Legislation Text

File #: 23-2655, **Version:** 1

Department: County Engineer
Department Head/Elected Official: Milton Rahman, PhD, P.E., PMP, CFM, County Engineer

Regular or Supplemental RCA: Regular RCA
Type of Request: Public Necessity

Project ID (if applicable): P100-00-00-HC015
Vendor/Entity Legal Name (if applicable): Any applicable landowner and/or property interest holder

MWDBE Contracted Goal (if applicable): Not applicable
MWDBE Current Participation (if applicable): Not applicable
Justification for 0% MWDBE Participation Goal:

Request Summary (Agenda Caption):
Request for approval of a certain project, decreeing the project to be a public necessity and convenience, directing the Harris County Real Property Division to acquire, and authorizing eminent domain, if necessary, for one (1) fee simple tract for the public project known as Sierra Ranch and Stonefield Terrace Sec 3 Subdivisions Drainage Improvements - 2018 project, for the purpose of stormwater detention/retention, UPIN 19101MF12E01, Precinct 3.

Background and Discussion:
The proposed project consists of local drainage improvements which will serve the Sierra Ranch and Stonefield Terrace Section 3 subdivisions. The drainage analysis identified significant ponding to occur within the subdivision, so the proposed improvements consist of 19 additional inlets and approximately 420 linear feet of storm sewer improvements within Sierra Ranch and a proposed detention pond within Stonefield Terrace Section 3. The proposed improvements do not include any improvements to the P122-00-00 channel, but outflows into P122-00-00 will not be increased under proposed conditions.

Expected Impact:
The proposed improvements will significantly reduce localized ponding within the subdivisions during storm events up to and including the 100-year event. The proposed improvements will ensure there is no localized ponding during the 2-year and 10-year storm events and will reduce 100-year ponding depths within the neighborhood by an average of 0.4 feet, with the largest reduction being 0.7 feet. The number of inundated parcels during the 100-year event, factoring in a 10-year tailwater condition on P122-00-00, will be reduced from 65 to 36. The area inundated during the 100-year event, factoring in a 10-year tailwater condition on P122-00-00, will be reduced from 12.7 acres to 8.9 acres under proposed conditions.

Alternative Options:
Storm sewer improvements within Stonefield Terrace Section 3 were evaluated, but the proposed detention basin provided a more significant reduction in ponding depths, with less impact/disturbance to the subdivision. Restrictors are proposed at the existing Sierra Ranch detention basin to prevent increased outflows under proposed conditions.

Two alternatives were evaluated, one proposing additional excavation within the existing detention basin in lieu of the restrictors. The other alternative included a new detention basin in the left overbank of P122-00-00 but this would result in additional acquisitions.

Alignment with Goal(s):

_ Justice and Safety
_ Economic Opportunity
_ Housing
_ Public Health
X Transportation
X Flooding
_ Environment
_ Governance and Customer Service

Prior Court Action (if any)**: None**

Date	Agenda Item #	Action Taken

Location:
Address (if applicable): 0 Lullaby Dr., Crosby, TX 77532
Precinct(s): Precinct 3

Fiscal and Personnel Summary			
Service Name			
	FY 23	**FY 24**	**Next 3 FYs**
Incremental Expenditures (do NOT write values in thousands or millions)			
Labor Expenditures	$	$	$
Non-Labor Expenditures	$	$	$
Total Incremental Expenditures	**$**	**$**	**$**
Funding Sources (do NOT write values in thousands or millions)			
Existing Budget			
Choose an item.	$	$	$
Choose an item.	$	$	$
Choose an item.	$	$	$
Total Current Budget	$	$	$

Additional Budget Requested			
Choose an item.	$	$	$
Choose an item.	$	$	$
Choose an item.	$	$	$
Total Additional Budget Requested	$	$	$
Total Funding Sources	**$**	**$**	**$**
Personnel (Fill out section only if requesting new PCNs)			
Current Position Count for Service	-	-	-
Additional Positions Requested	-	-	-
Total Personnel	**-**	**-**	**-**

Anticipated Court Date: May 16, 2023

Anticipated Implementation Date (if different from Court date):

Emergency/Disaster Recovery Note: Not an emergency, disaster, or COVID-19 related item

Contact(s) name, title, department: Albrina C. Coleman, Director, Real Property Division

Attachments (if applicable)**:** Findings and Declarations; Survey Descriptions and Maps