

**J|C** JONES | CARTER

**Clear for Takeoff: Development within an Overflow and the Protection of Sugar Land Regional Airport**

**TFMA Fall Technical Summit**  
August 28, 2019

Heather Goodpasture, P.E., CFM; Brendan Byrne, P.E., CFM; Stephen Reiter, P.E., CFM

*One Company. Unlimited Potential.*

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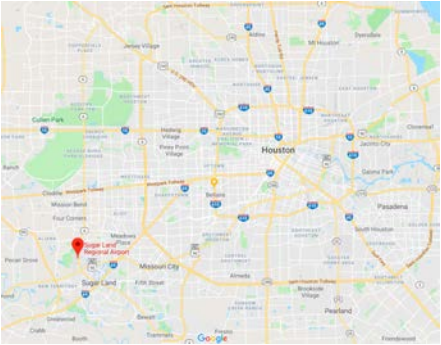
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**LOCATION**



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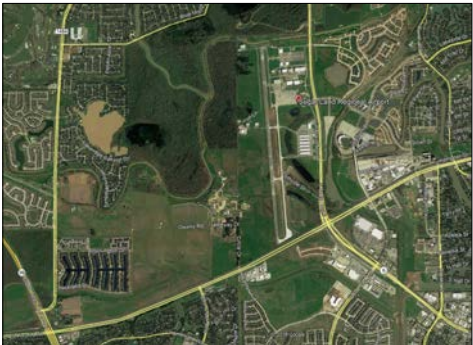
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**LOCATION**



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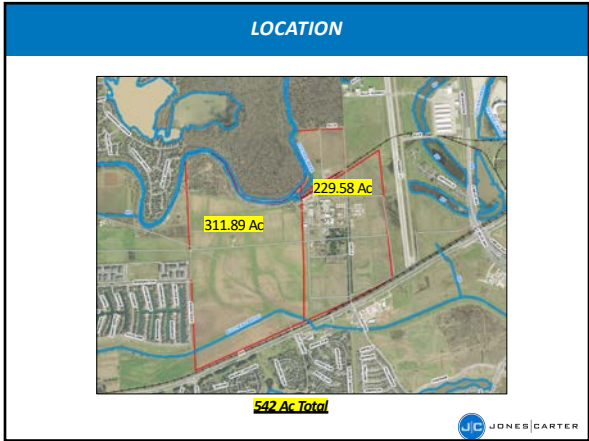
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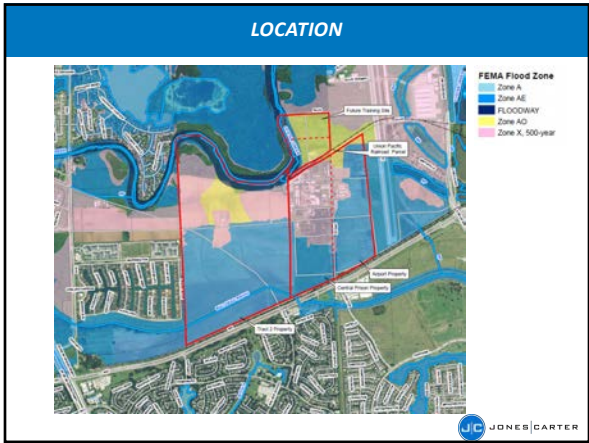
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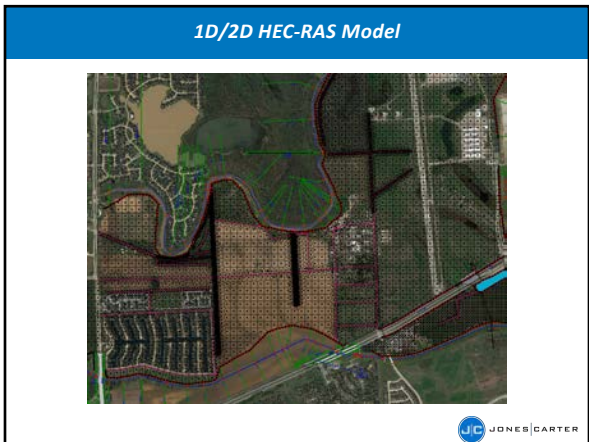
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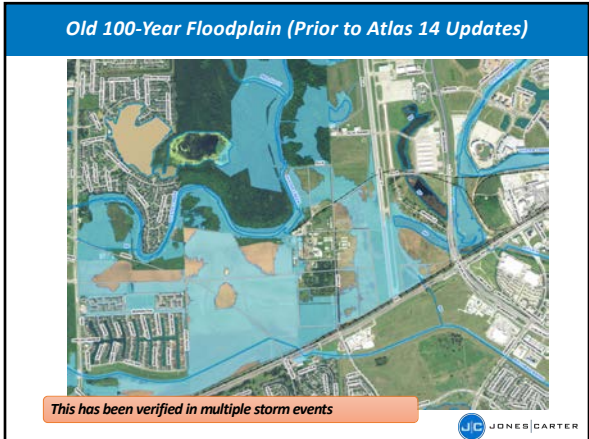
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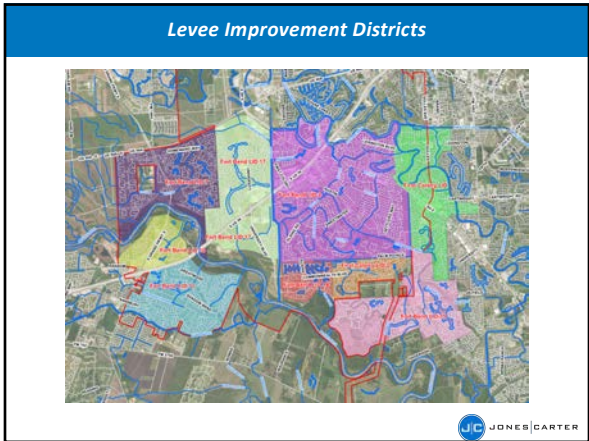
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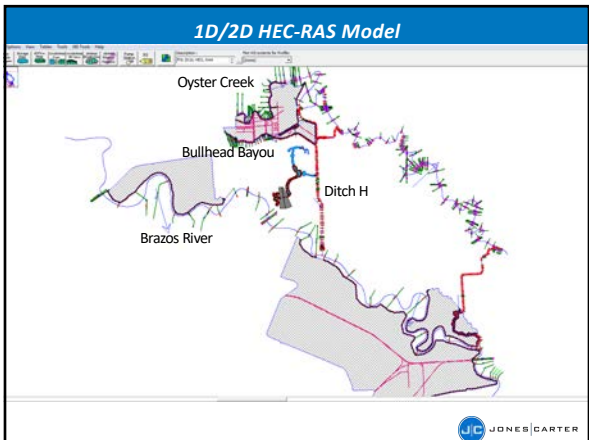
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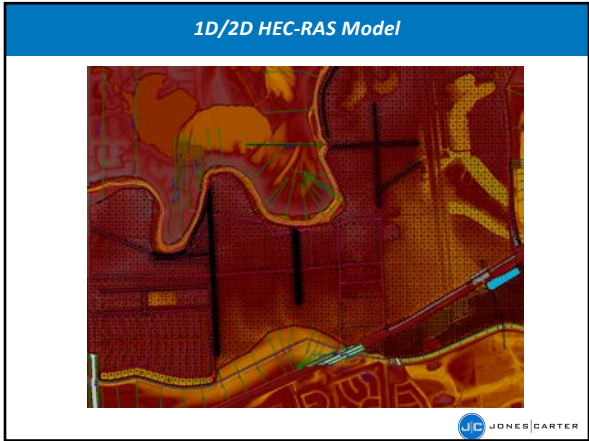
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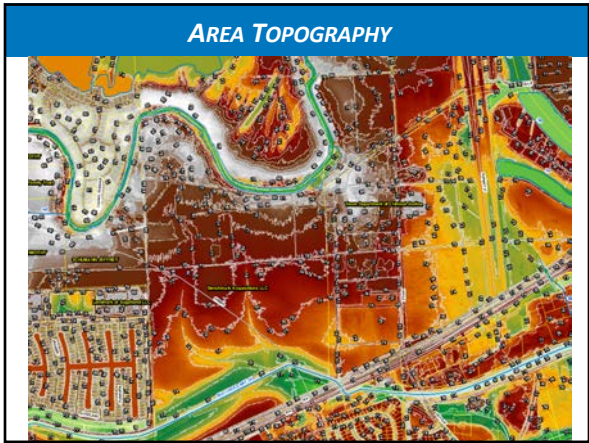
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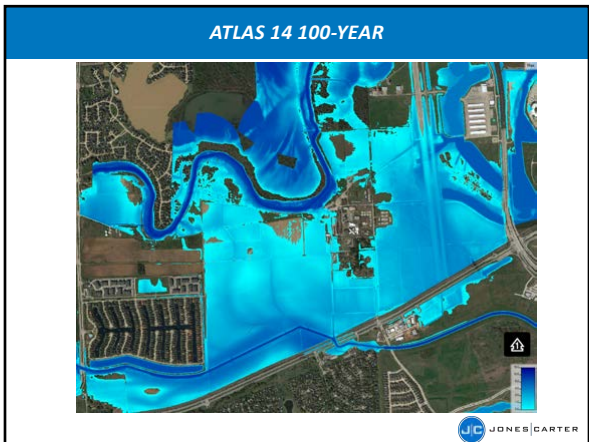
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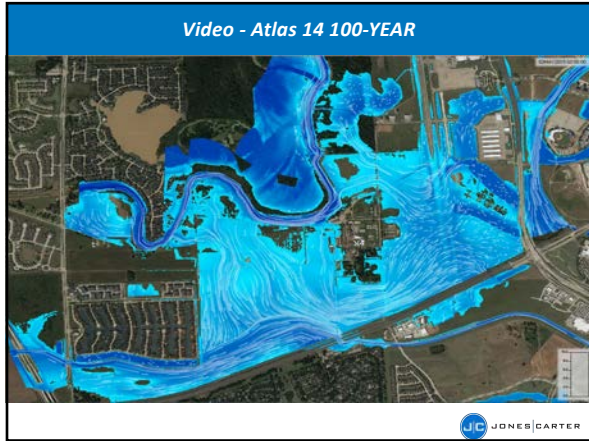
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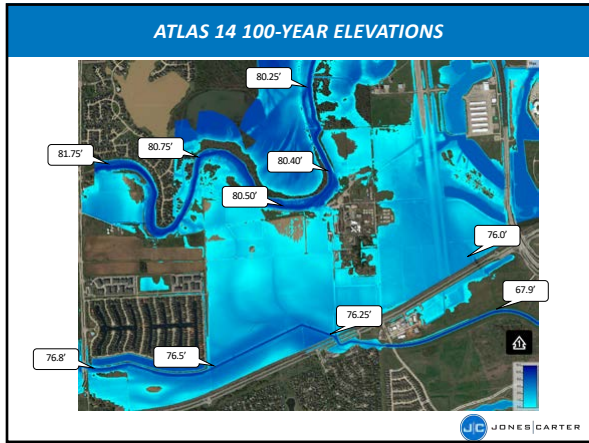
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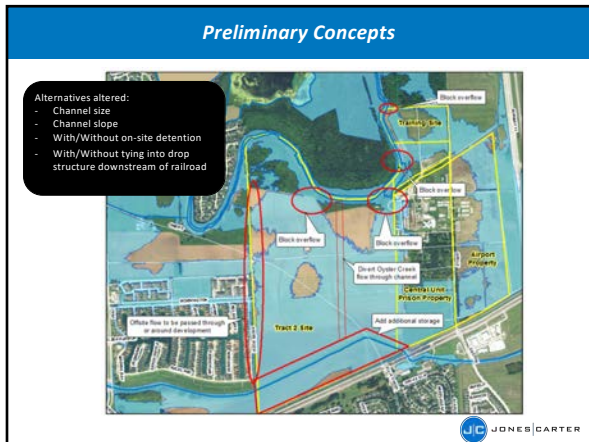
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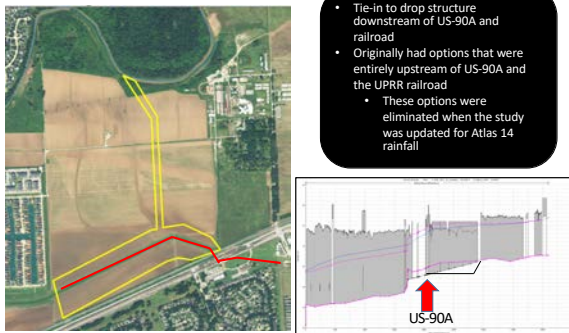
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### Preliminary Concepts



- Tie-in to drop structure downstream of US-90A and railroad
- Originally had options that were entirely upstream of US-90A and the UPRR railroad
  - These options were eliminated when the study was updated for Atlas 14 rainfall

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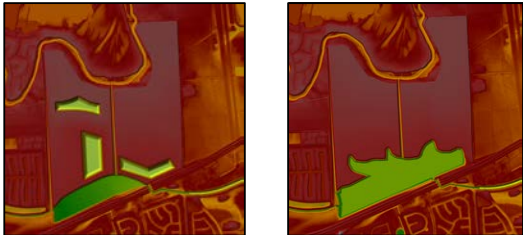
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### Preliminary Concepts

<b>Option A</b> <ul style="list-style-type: none"><li>- On-site detention (270 ac-ft)</li><li>- 630-ft bottom width channel (730-ft top width)</li></ul>	<b>Option B</b> <ul style="list-style-type: none"><li>- No on-site detention</li><li>- Wet bottom pond</li><li>- 94 Acres</li></ul>
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- Very similar developable acreage for both alternatives (~285 Ac Total; ~135-Ac for Residential)

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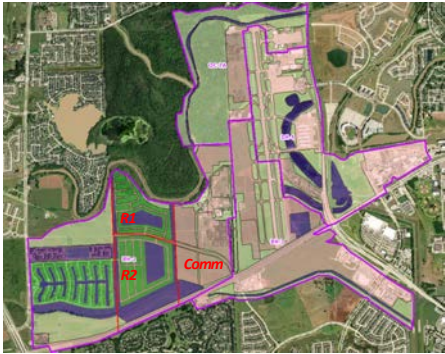
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### Proposed Conditions Land Use



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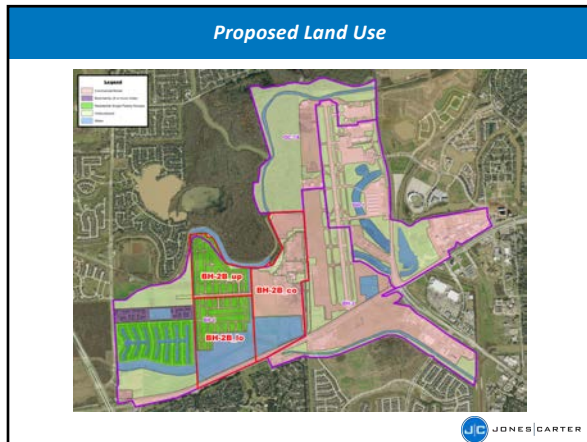
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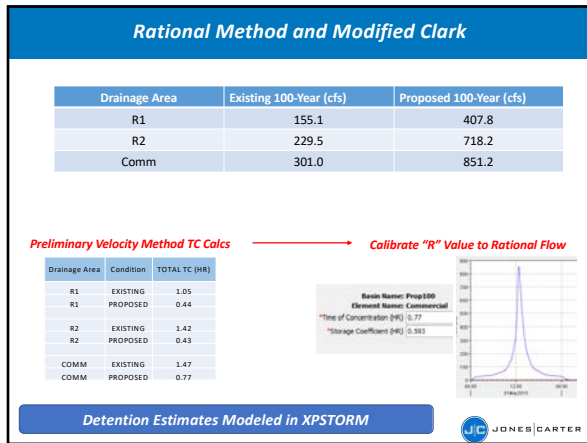
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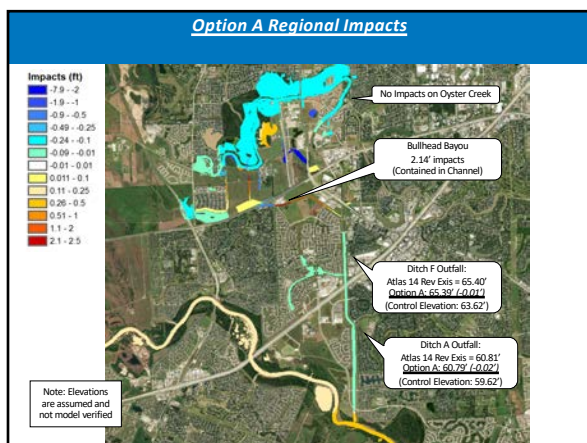
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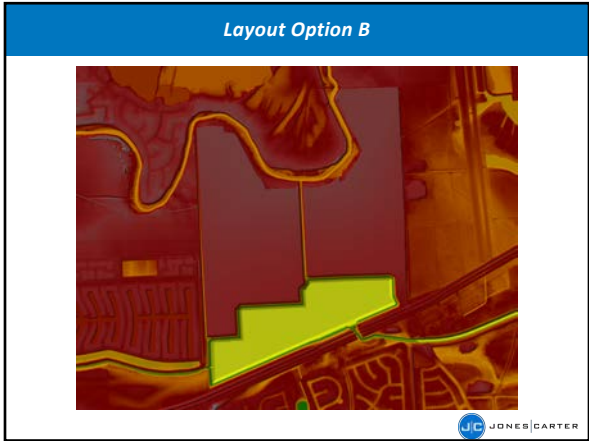
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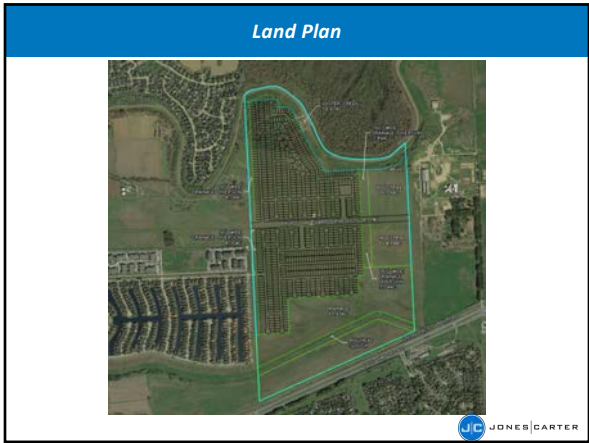
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**Summary**

- The completion of this project will require successful coordination between:
  - The Developer
  - The City of Sugar Land
  - The Sugar Land Regional Airport
  - TxDOT
  - UPRR
  - USACE
- If completed, this project would create about 285 acres of developable land and protect the Sugar Land Regional Airport from local flood events



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**NEXT STEPS**

- Develop cost estimates
- Finalize drainage report
- Investigate and begin permitting processes for USACE, UPRR, and TxDOT



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