Board Of Directors

Darrell Groves

President

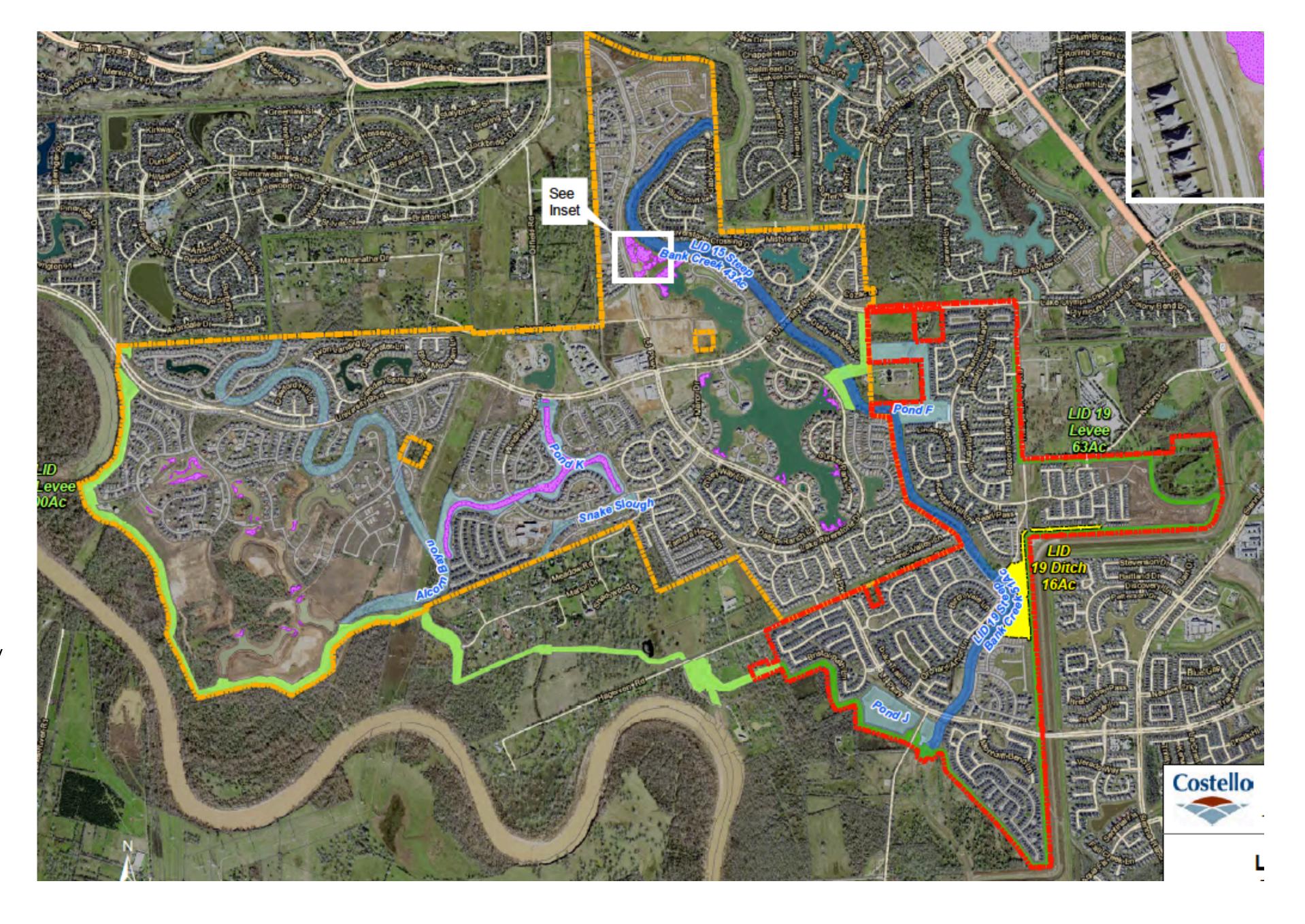
Rohit Sankholkar

Vice President / Secretary

Girish Misra

Assistant VP / Assistant Secretary

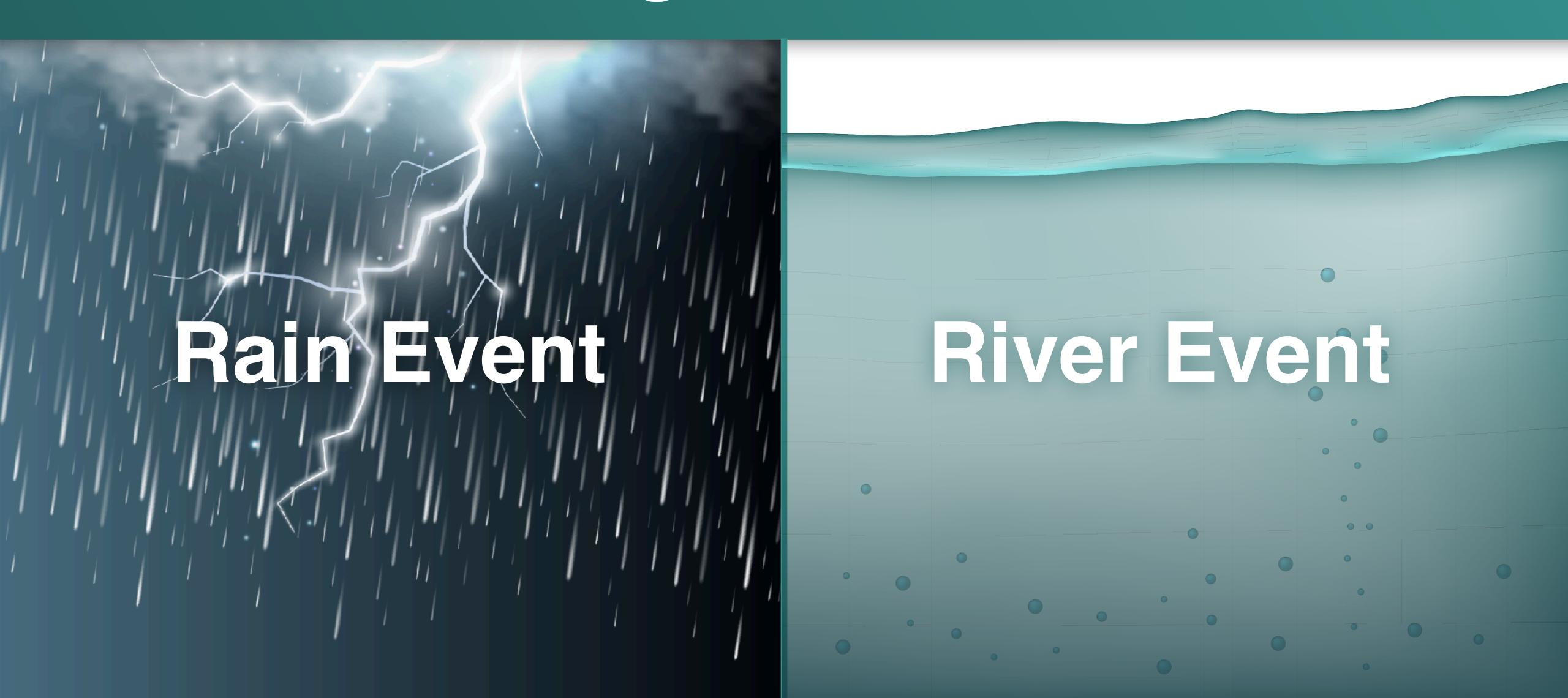




Today we will discuss:

- Flooding Causes
- Quick Recap of Harvey
- Introduce the Richmond Gauge
- Explain your levee
- "Riverstone's Flood Formula"

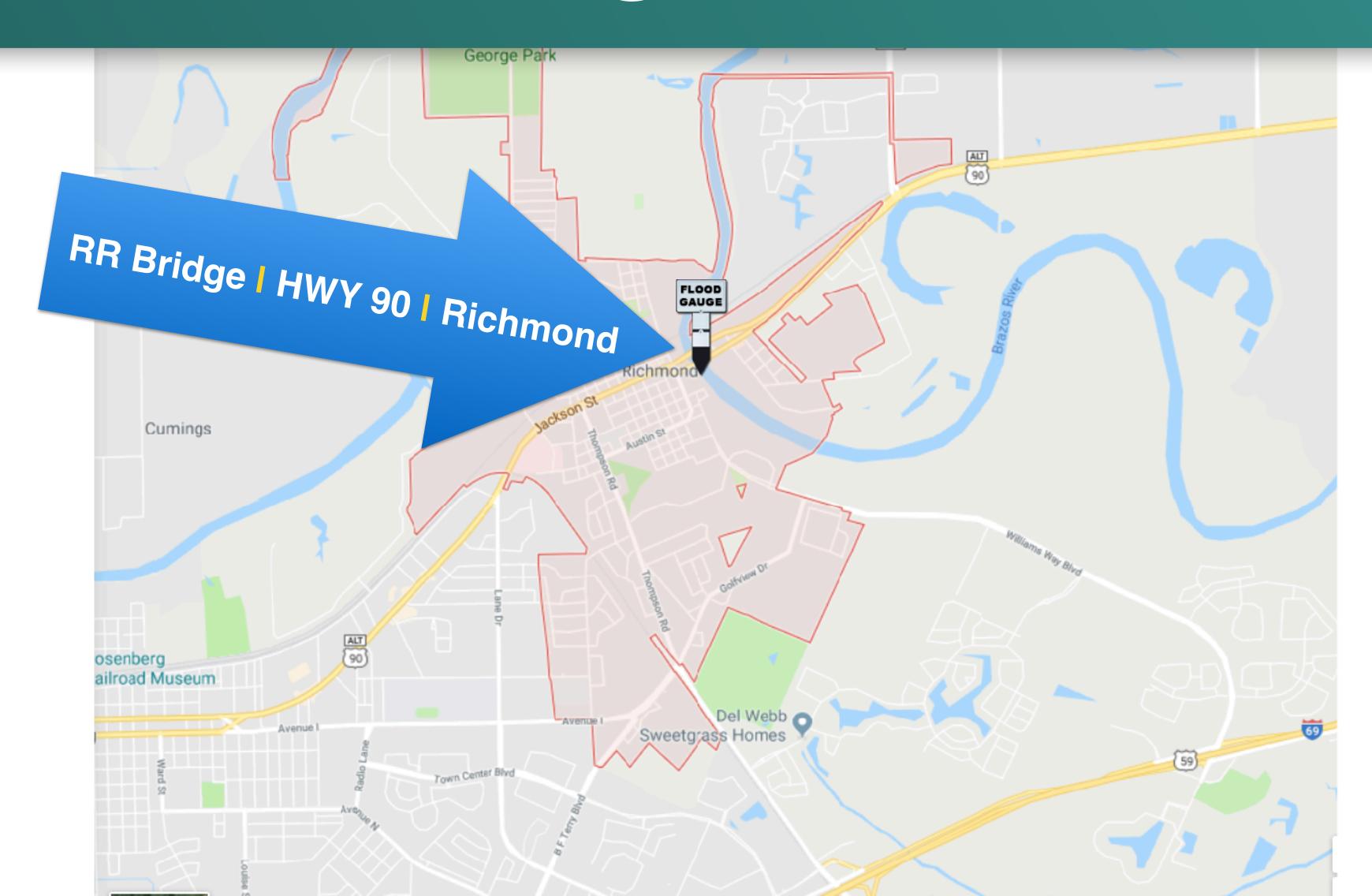
Flooding 101: Causes



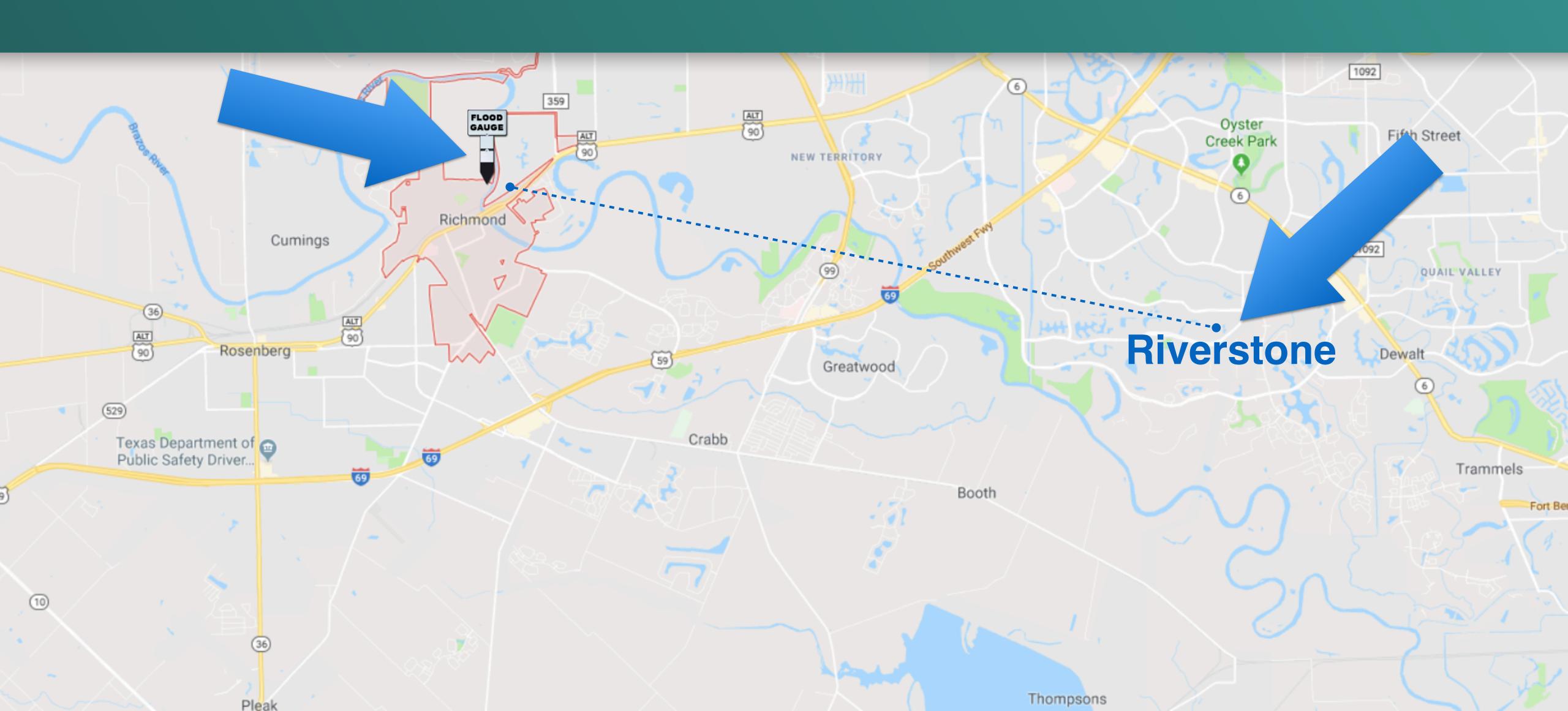
The Richmond Gauge



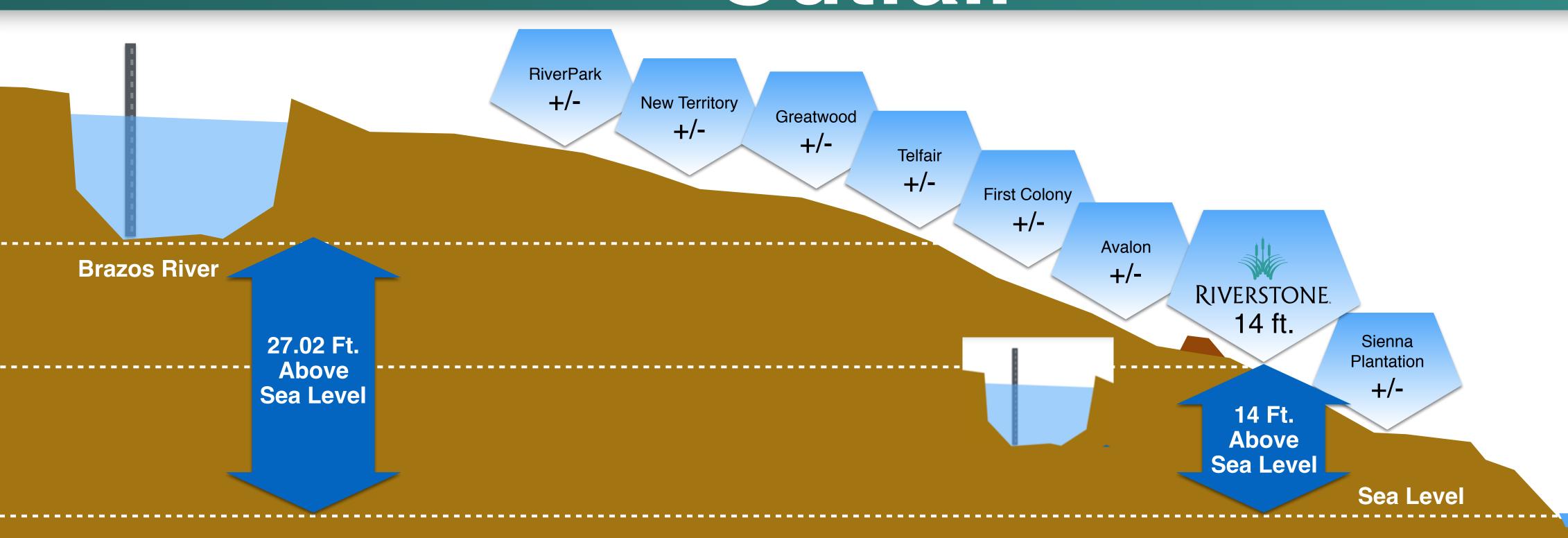
Richmond Gauge Location



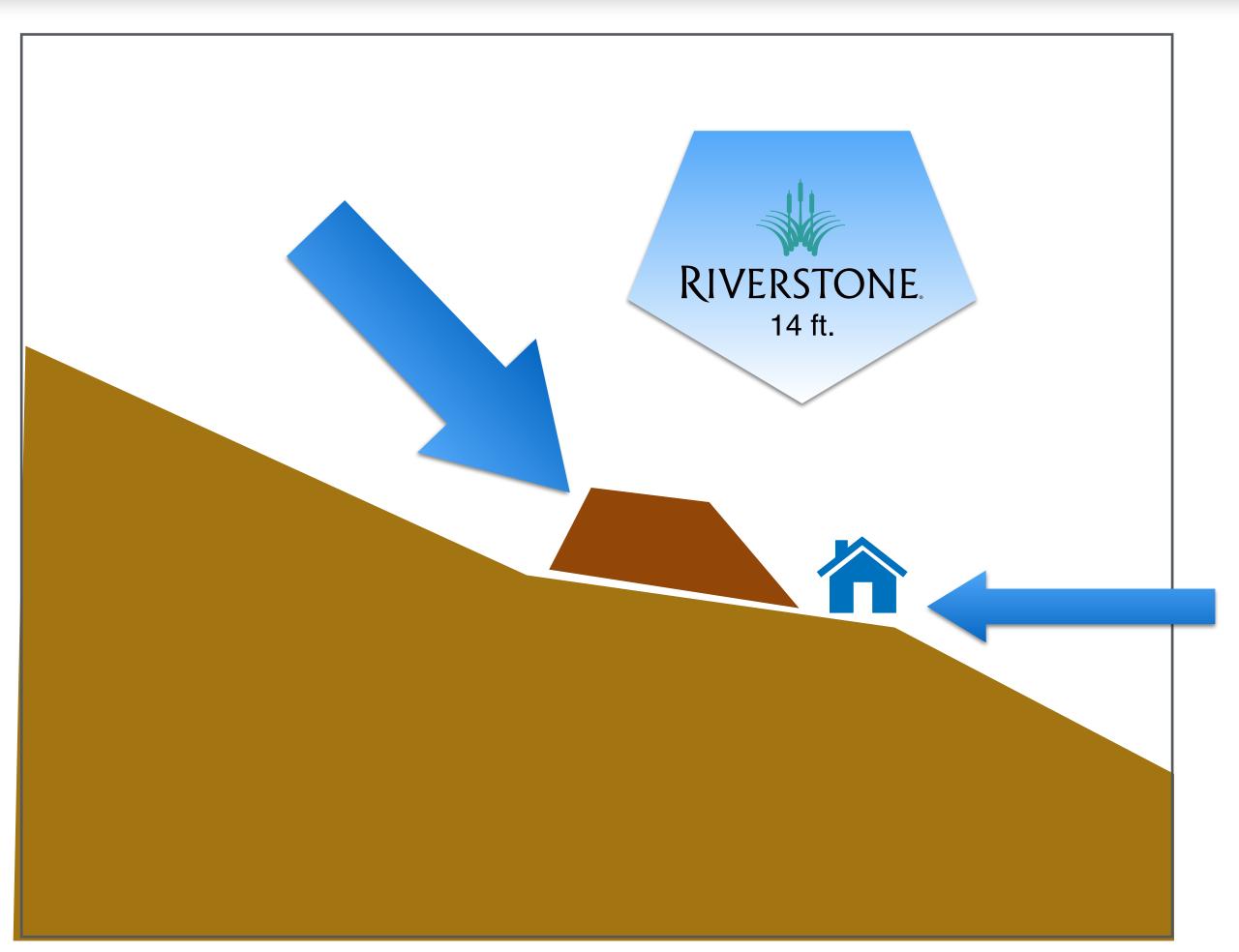
Location Relative to Riverstone



Brazos River Bottom Elevation Relative to Riverstone @ Alcorn Outfall



Riverstone's Levee @ Alcorn Outfall



Height of 75 ft.

Between the river and Riverstone

Slab Elevation @MSL

Riverstone Flood Formula @ Alcorn Outfall

Brazos River Water Level

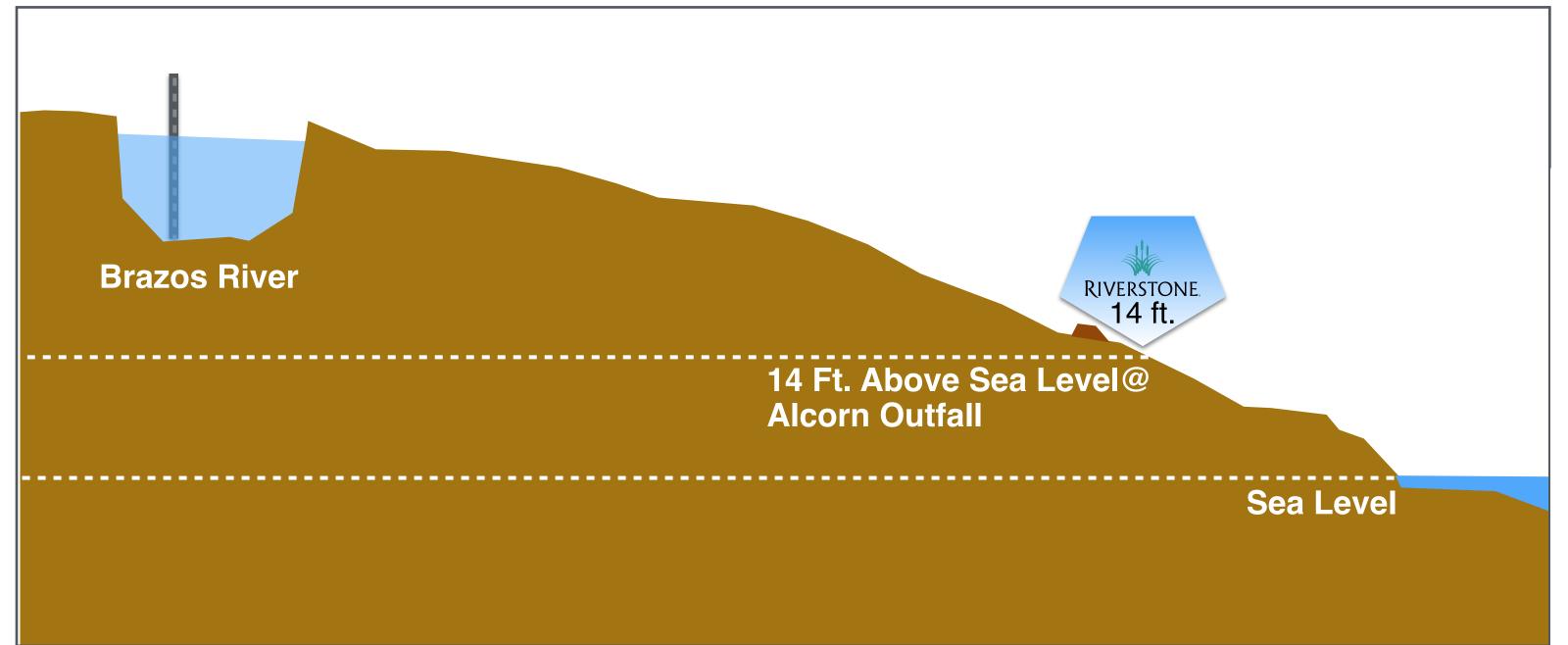
X ft.

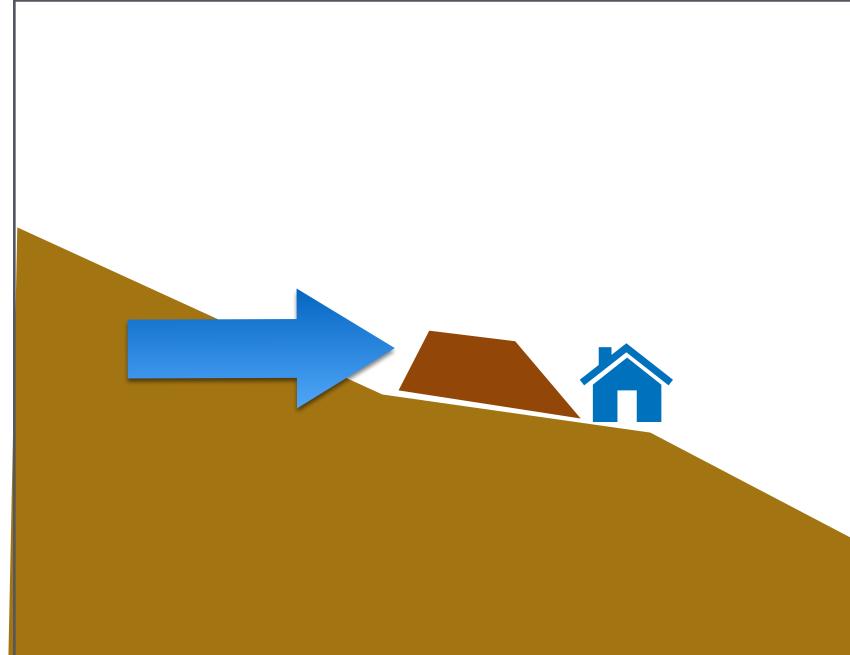
Riverstone Sea Level 14 ft_



Levee Height

75 ft.





During Harvey

Brazos River Reached Record Level of 55.2 ft.



Harvey's Formula Numbers

Brazos River Water Level

Riverstone @ **Alcorn Outfall** Sea Level

Riverstone Levee

55.2 ft. + 14 ft. = 69.2 ft. <

Riverstone Levee held strong!

With 6 ft. of freeboard

Freeboard is a factor of safety usually expressed in feet above a flood level for purposes of floodplain management.

Riverstone @ Alcorn Outfall Flood Formula

Brazos River Water Level

X ft.



Riverstone Sea Level

14 ft



Levee
Height
75 ft.

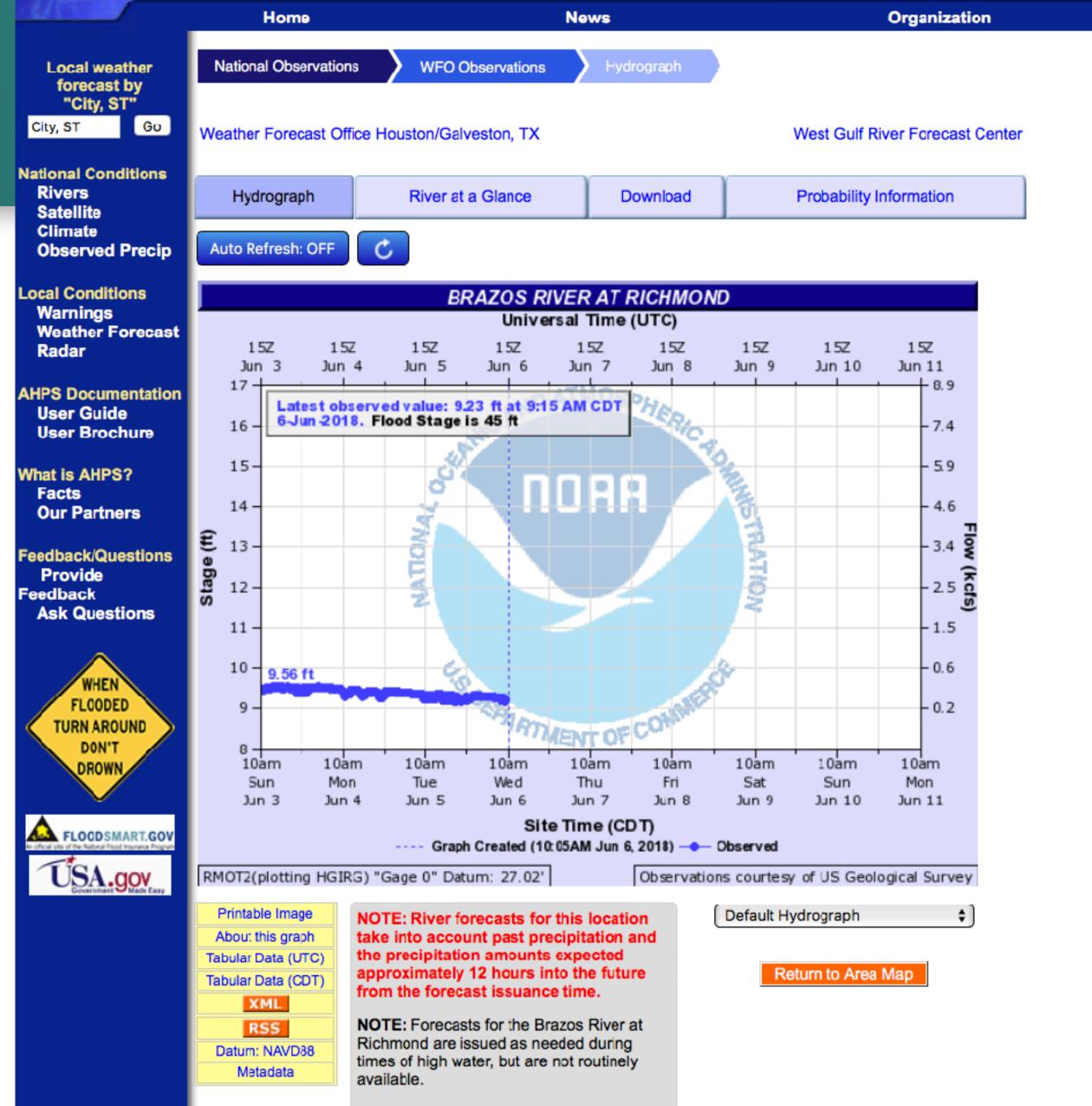
Practice the math:

Recent Brazos River depth: 9.23 ft.

National Weather Service

Search for:





Fill in the formula:

Brazos River Water Level 9.23 ft.



Riverstone Sea Level

14 ft.



Levee
Height
75 ft.

23.23 ft. < 75 ft. 51.77 ft. of freeboard

Remember your formula

Riverstone @ Alcorn Outfall Flood Formula:

Brazos River Water Level

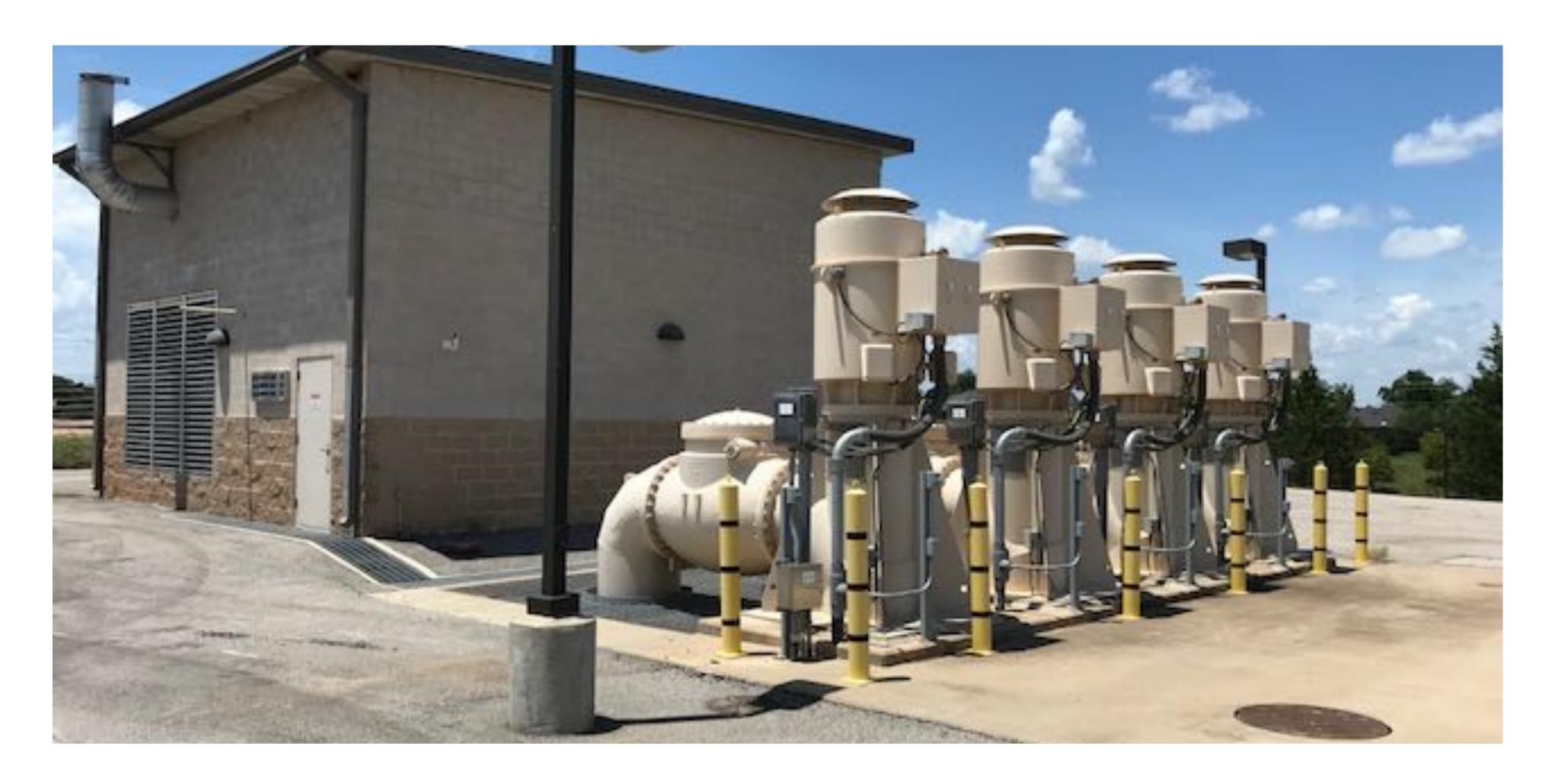


Riverstone Sea Level
14 ft.



Levee

```
38 8 50
37 7 49
36 6 48
35 5 47
34 4 46
33 3 45
32 2 44
```



Riverstone Steep Bank Creek

Pump Station















Riverstone Alcorn Bayou

Pump Station



















Thank you for your time.





