



**K·FRIESE**  
**+ ASSOCIATES**  
PUBLIC PROJECT ENGINEERING



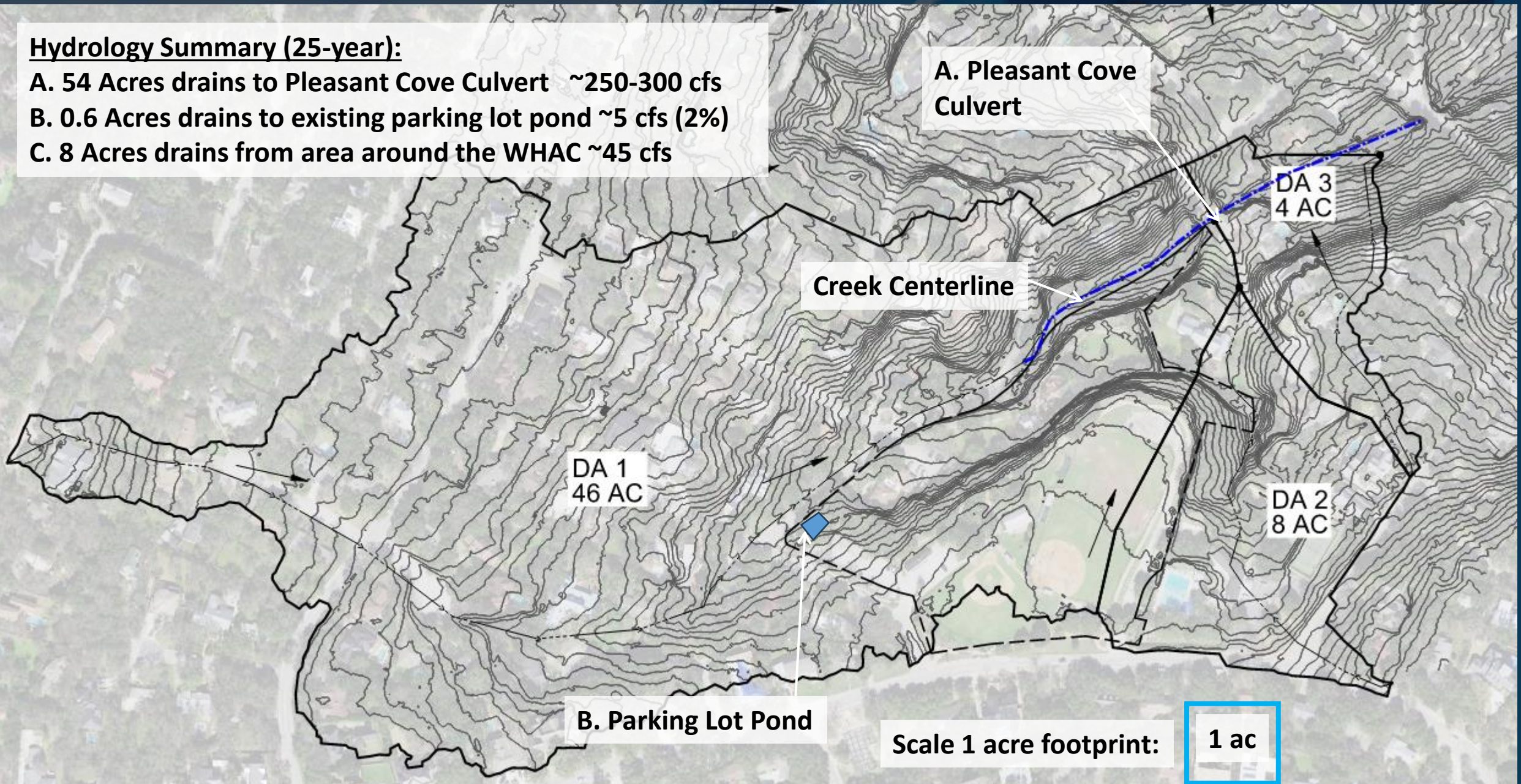
## **City of Rollingwood** **Rollingwood Park Drainage Concerns - Update**

[June 11, 2024](#)

# Understanding the Problem – Contributing Drainage Areas

## Hydrology Summary (25-year):

- A. 54 Acres drains to Pleasant Cove Culvert ~250-300 cfs
- B. 0.6 Acres drains to existing parking lot pond ~5 cfs (2%)
- C. 8 Acres drains from area around the WHAC ~45 cfs



## CITY OF ROLLINGWOOD INFRASTRUCTURE IMPROVEMENTS PLAN COST SUMMARY



**Project ID:** F  
**Project Name:** Nixon/Gentry Drainage Improvements  
**Drainage Basin:** 5

### Problem Description

Roadway flooding and property flooding along Gentry Drive and Nixon Drive.

### Proposed Improvements

Install approximately 272 feet of 24" RCP, 846 feet of 36" RCP, 125 feet of 5' x 3' RCB, and 626 feet of 6' x 3' RCB. Begin at Gentry Drive and discharge to channel near City Hall. It will include an estimated 20 curb inlets, 1 area inlet, and approximately 12 driveway reconstructions. This includes the improvements at AOI E. To mitigate downstream impacts, the improvements along AOI M should be completed first.

### CIP Ranking

15 out of 23

### Project Costs\*\*

\*\*AOI E included

Engineering & Survey:	\$ 300,000
Construction:	\$ 1,648,000
Other:	\$ 76,000
ROW/Easements:	UNK
<b>Total:</b>	<b>\$ 2,024,000</b>

Conceptual Cost Range: > \$2M  
Estimated Construction Duration: 15 Months

### Project Map & Photo



Proposed storm sewer in red.  
Existing 100-yr inundation shown.



Nixon and Gentry intersection looking north. 09/11/2019

### Possible Impacts

It is possible that the velocities and peak flow in Town Lake tributary will increase downstream of the project due to these improvements. Further analysis to document impacts is necessary.

### Assumptions

- It is assumed drainage easements and ROW can and will be obtained as necessary.
- It is assumed the proposed storm drain will have sufficient capacity for the design storm event.
- During detailed project design, the design storm and tailwater will need additional consideration.