



K·FRIESE
+ ASSOCIATES
PUBLIC PROJECT ENGINEERING



City of Rollingwood **Rollingwood Park Drainage Concerns**

June 11, 2024

OVERVIEW



Presentation outline

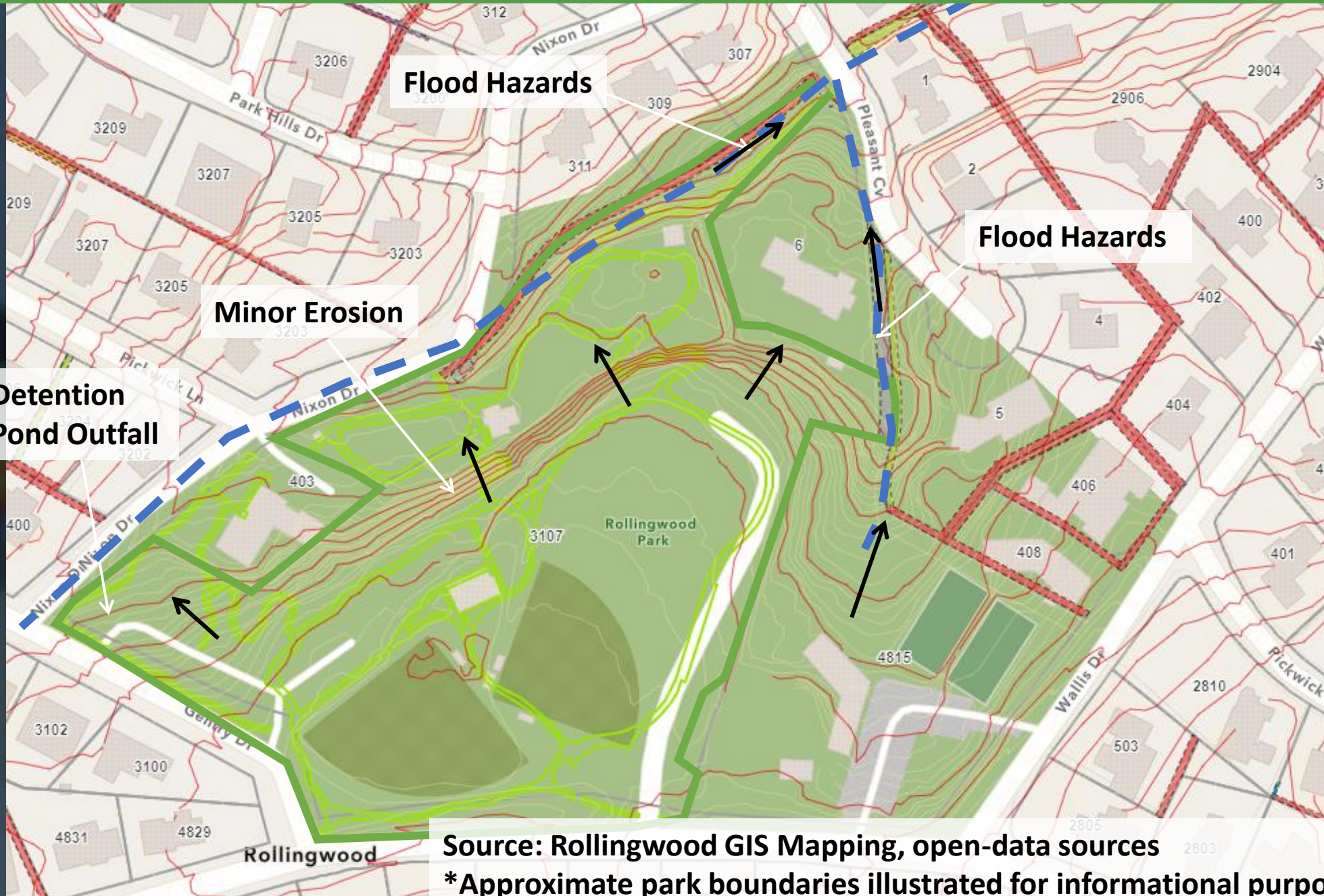
- **Project Location Overview**
- **Understanding the Problem**
 - Review of known issues
- **Cost-Benefits Discussion**
 - **Option 1 (\$\$\$):** Perform a detailed engineering study and then design to address bigger flood risk concerns; *High cost, major impacts to park, long timeline*
 - **Option 2 (\$):** Hire a landscape contractor to address minor concerns; *Low cost, provides immediate benefits*
- **Discussion**

Understanding the Problem – Aerial Imagery



Source: Rollingwood GIS Mapping, open-data sources
*Approximate park boundaries illustrated for informational purposes only

Understanding the Problem – Topography



Flood Hazards

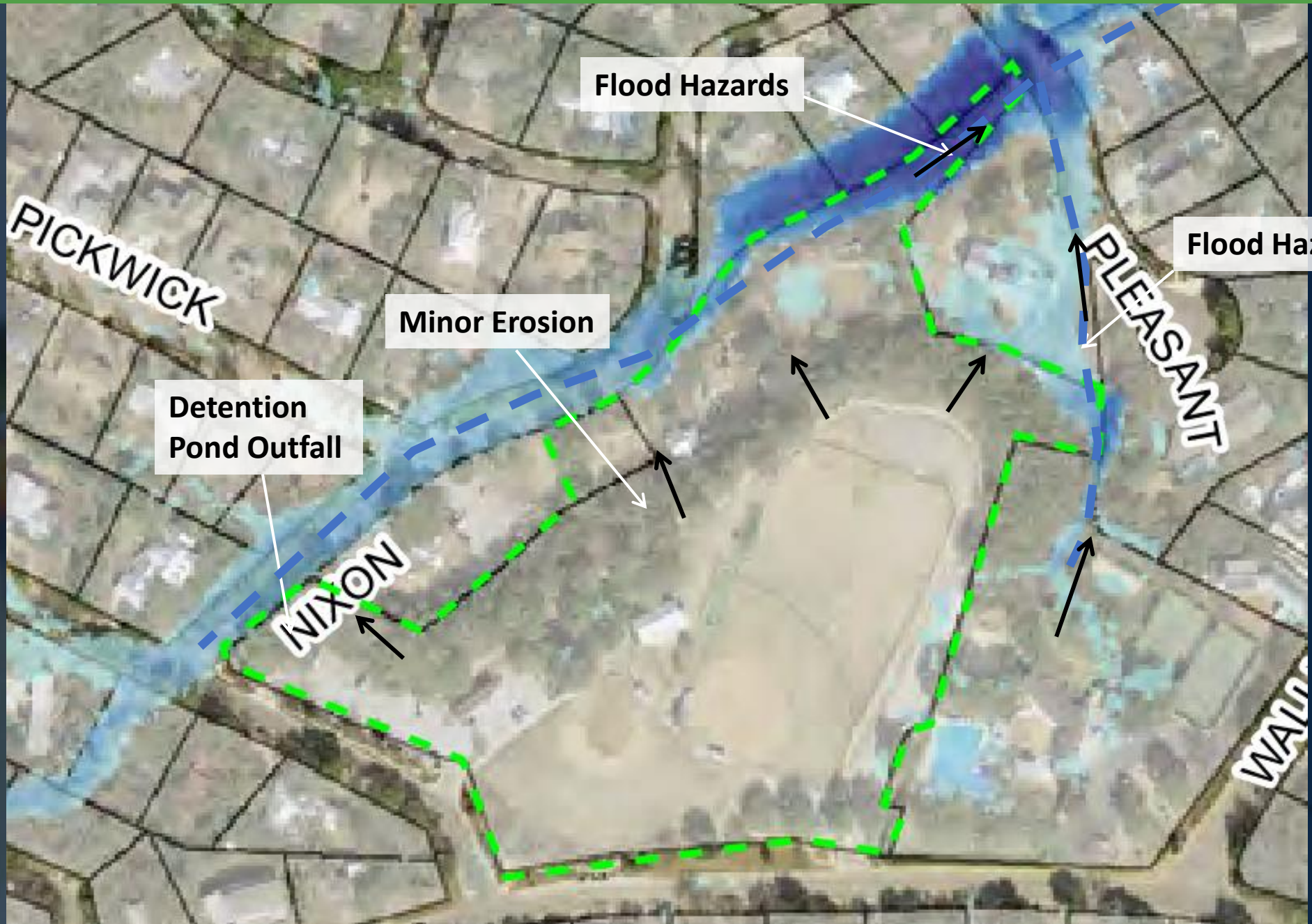
Flood Hazards

Minor Erosion

Detention Pond Outfall

Source: Rollingwood GIS Mapping, open-data sources
*Approximate park boundaries illustrated for informational purposes only

Understanding the Problem – Infrastructure Improvement Plan Flood Mapping Results



Flood Hazards

Flood Hazards

PICKWICK

Minor Erosion

Detention Pond Outfall

NIXON

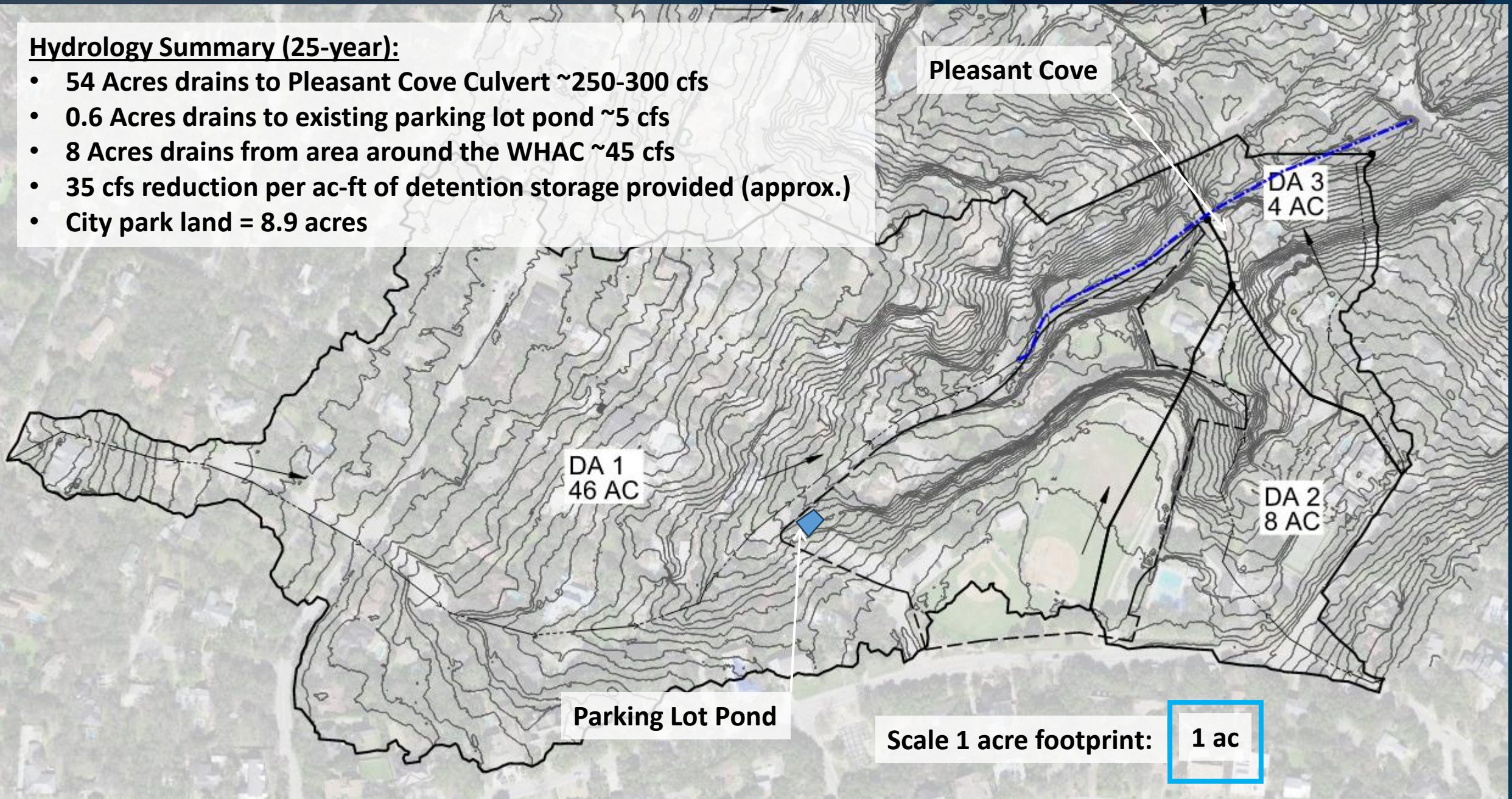
PLEASANT

WALTON

Understanding the Problem – Contributing Drainage Areas

Hydrology Summary (25-year):

- 54 Acres drains to Pleasant Cove Culvert ~250-300 cfs
- 0.6 Acres drains to existing parking lot pond ~5 cfs
- 8 Acres drains from area around the WHAC ~45 cfs
- 35 cfs reduction per ac-ft of detention storage provided (approx.)
- City park land = 8.9 acres



Understanding the Problem – Photos

