

# **Galston Stormwater Major Drainage Upgrade**

## **Information Session**

Galston Community Centre  
6<sup>th</sup> February 2025

# Introduction

- Fiona Leatham Director Infrastructure & Major Projects
- Martin Drake Acting Manager Design & Construction
- Dinesh Tamang Drainage Engineer
- Belinda Small Community Engagement Advisor

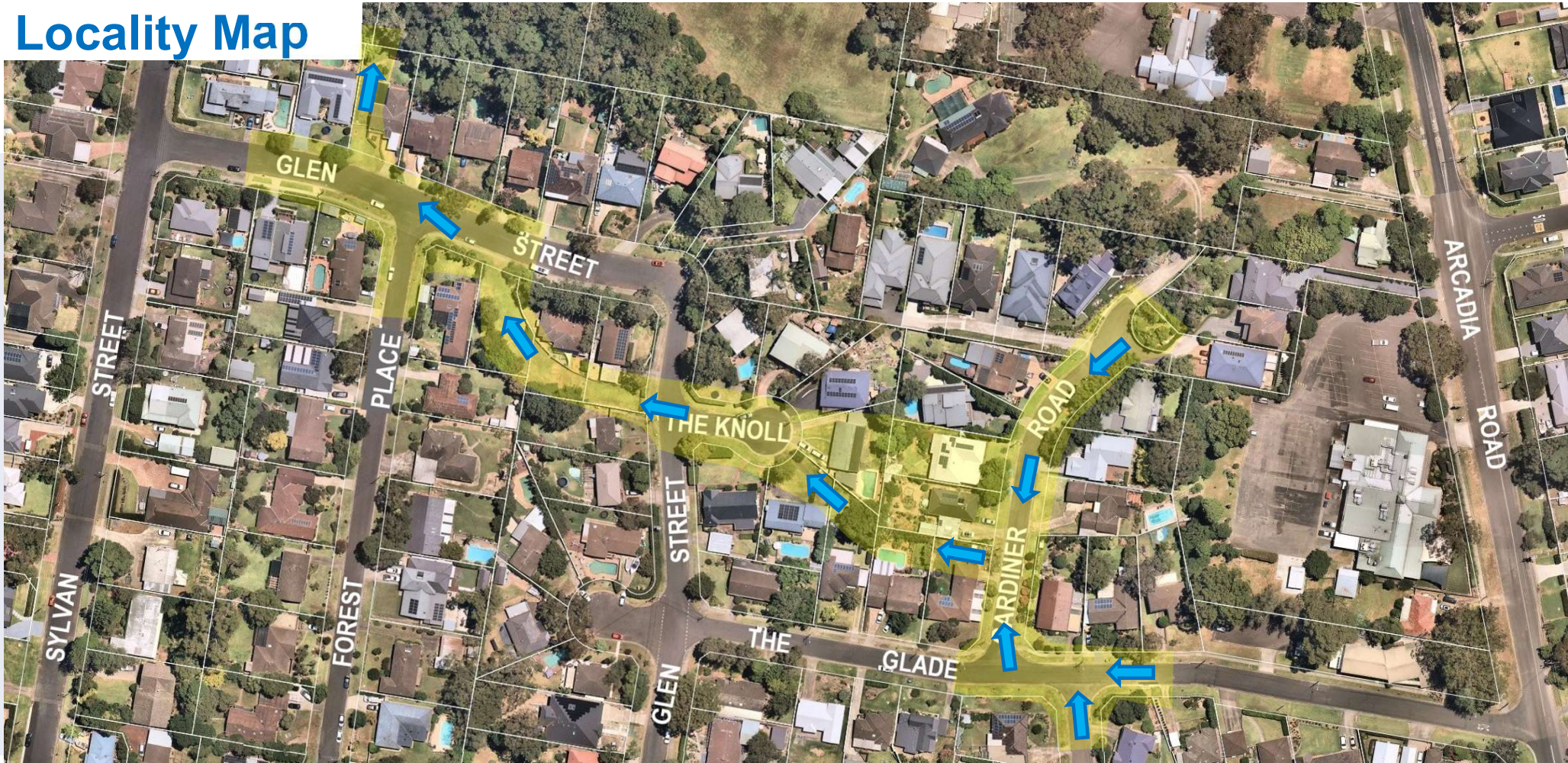
# Introduction and Overview of the Presentation

- NSW Flood Prone Land Policy 2023
  - The primary objective of the policy is to **reduce the impacts of flooding** and flood liability on communities and individual owners and occupiers of flood prone property, and to reduce private and public losses resulting from floods, **utilising ecologically positive methods wherever possible**. In doing so, community resilience to flooding is improved.
- Obligation under s.733 Local Government Act to provide information in good faith
- Council's draft Floodplain Risk Management Study & Plan (FRMSP) 2022
  - Council's State Government legislative requirement from which to prioritise flood mitigation projects across the LGA
- Current Flooding & Drainage Challenges
- Flood and Drainage Studies/Investigations
- Addressing Flooding Issues
- Next Steps

# Area scope



# Locality Map



Service Trust Respect Innovation

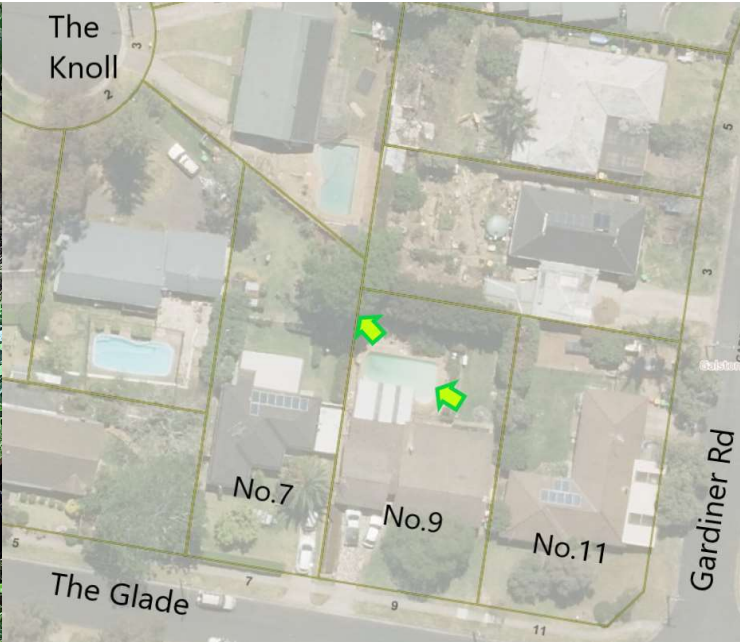




2012 February - The Knoll & Glen Street



7 The Glade



9 The Glade



9 The Glade

2020 February - 7 & 9 The Glade



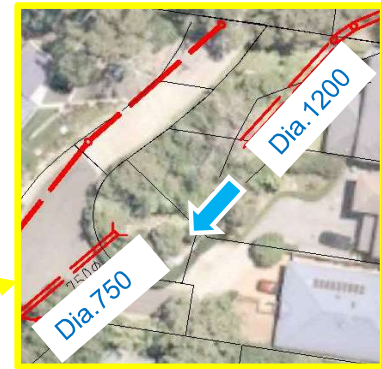
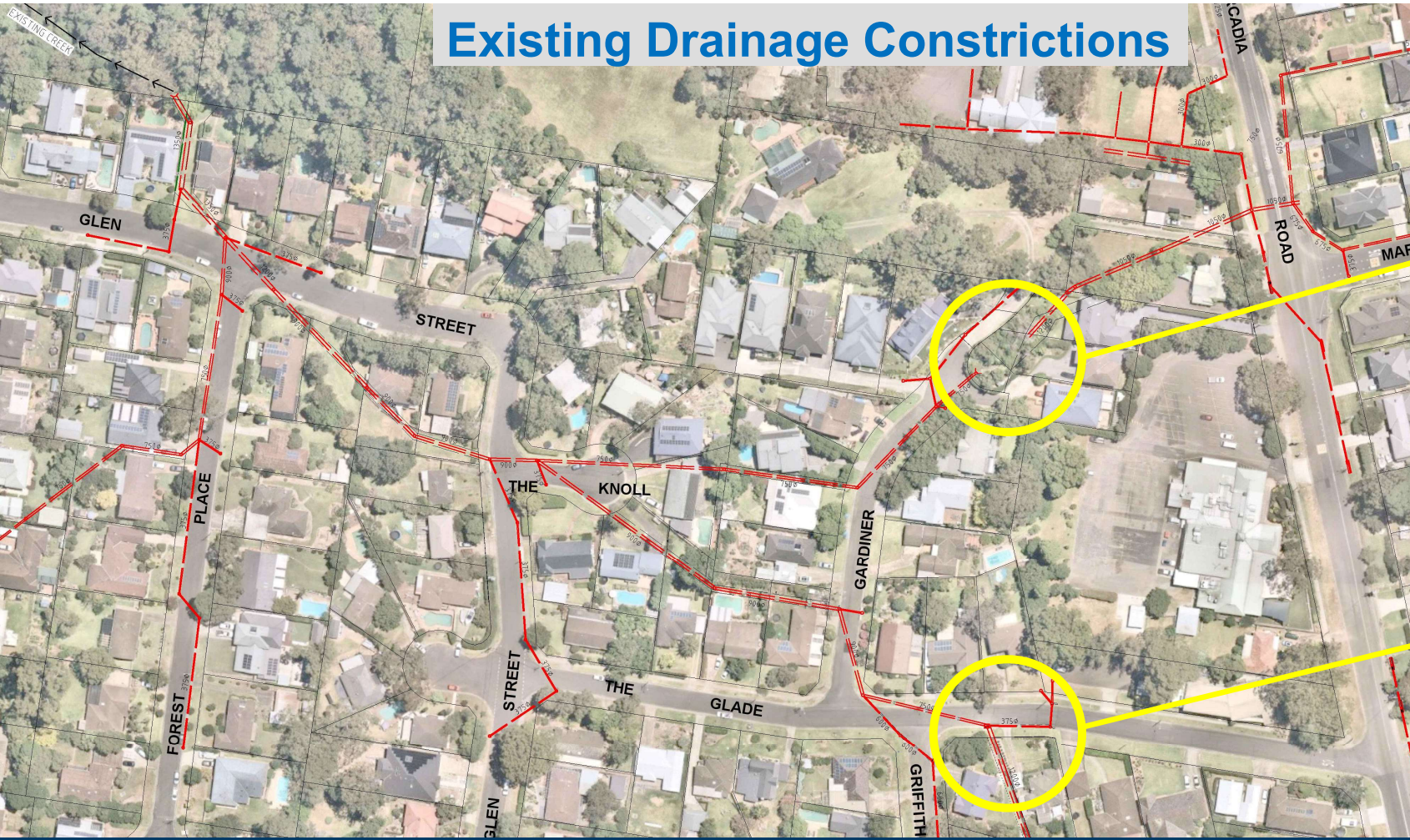
2022 February - 44 Glen Street



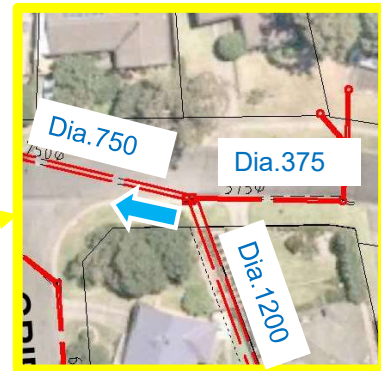
# Current Flooding & Drainage Challenges

- Area has historical flooding Issues.
  - Recent flooding events occurred in 2012, 2020 & 2022.
- Undersized Pipes
  - Existing drainage in downstream areas of Galston Village were designed to less stringent standards in the 1960's and 1970's. As development in Galston expanded to upstream areas, and newer drainage standards became applicable, this has lead to some instances where larger pipes discharge into smaller pipes causing pipe capacity issues and flooding.
- Inadequate overland flow path.
  - Some overland flow paths run through private properties and have insufficient width and are obstructed by fences, sheds, hedges and other physical barriers.

# Existing Drainage Constrictions

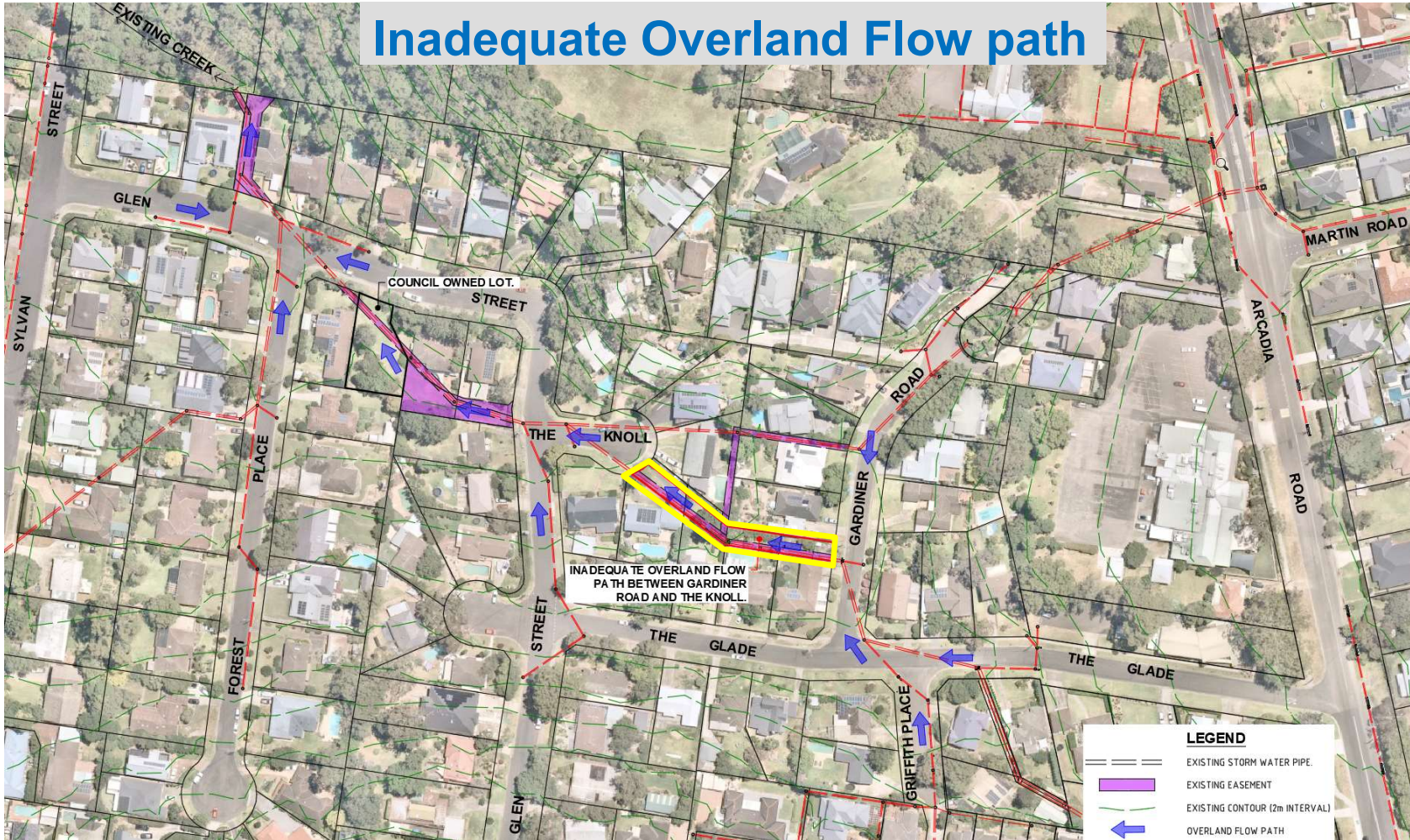


**Gardiner Road:**  
Dia.1200 to Dia. 750

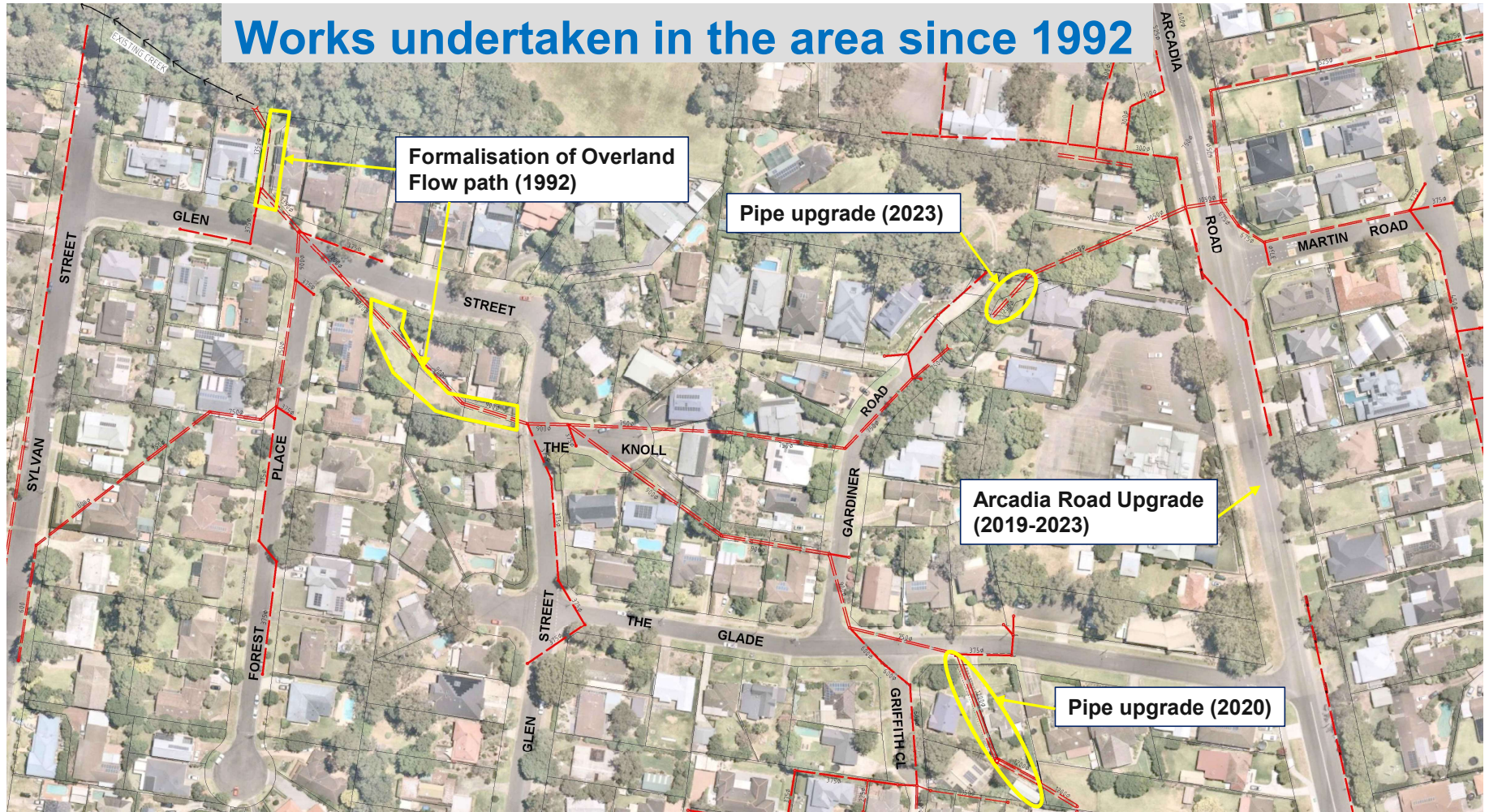


**The Glade:**  
Dia.1200 to Dia. 750

# Inadequate Overland Flow path



# Works undertaken in the area since 1992



# Flood and Drainage Studies/Investigations

- Cardno (2022) draft “Hornsby Floodplain Risk Management Study and Plan”
  - Key outcomes of FRMSP:
    - Defines existing flood behavior and associated hazards
    - Recommends stormwater drainage upgrades
    - Provides basis for prioritizing stormwater drainage upgrades and future management of identified flood liable areas
- Council’s Drainage Engineers have also carried out several investigations to address flooding issues in the area.

# Properties subject to Flooding in 20%AEP Storm Events (Existing)



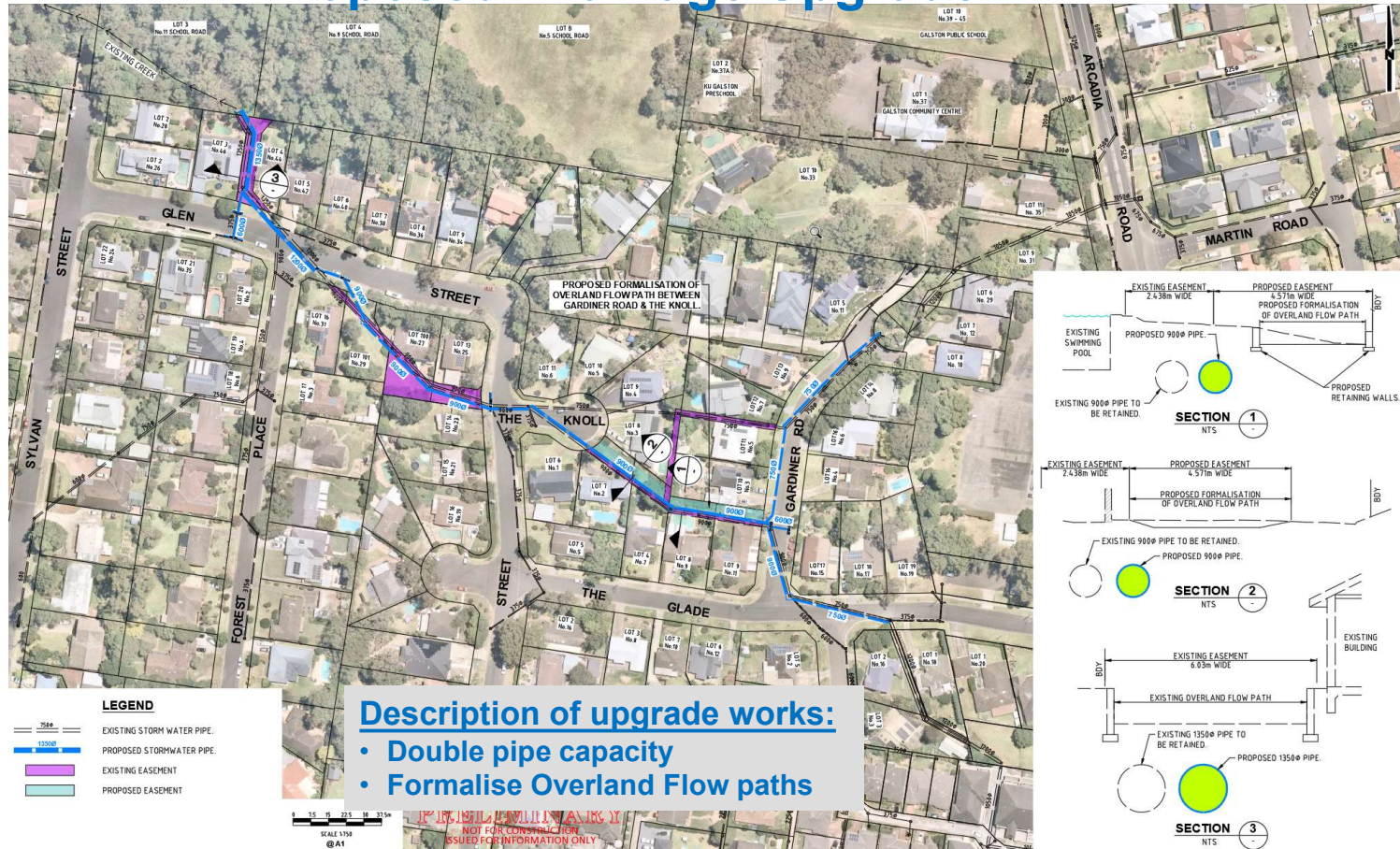
## Legend

- ★ Properties subject to Overground Flooding in 20% AEP Event
- ▲ Properties subject to Overfloor Flooding in 20% AEP Event
- Flood Extent 20% (0.15m Filtered)

# Addressing Flooding Issues

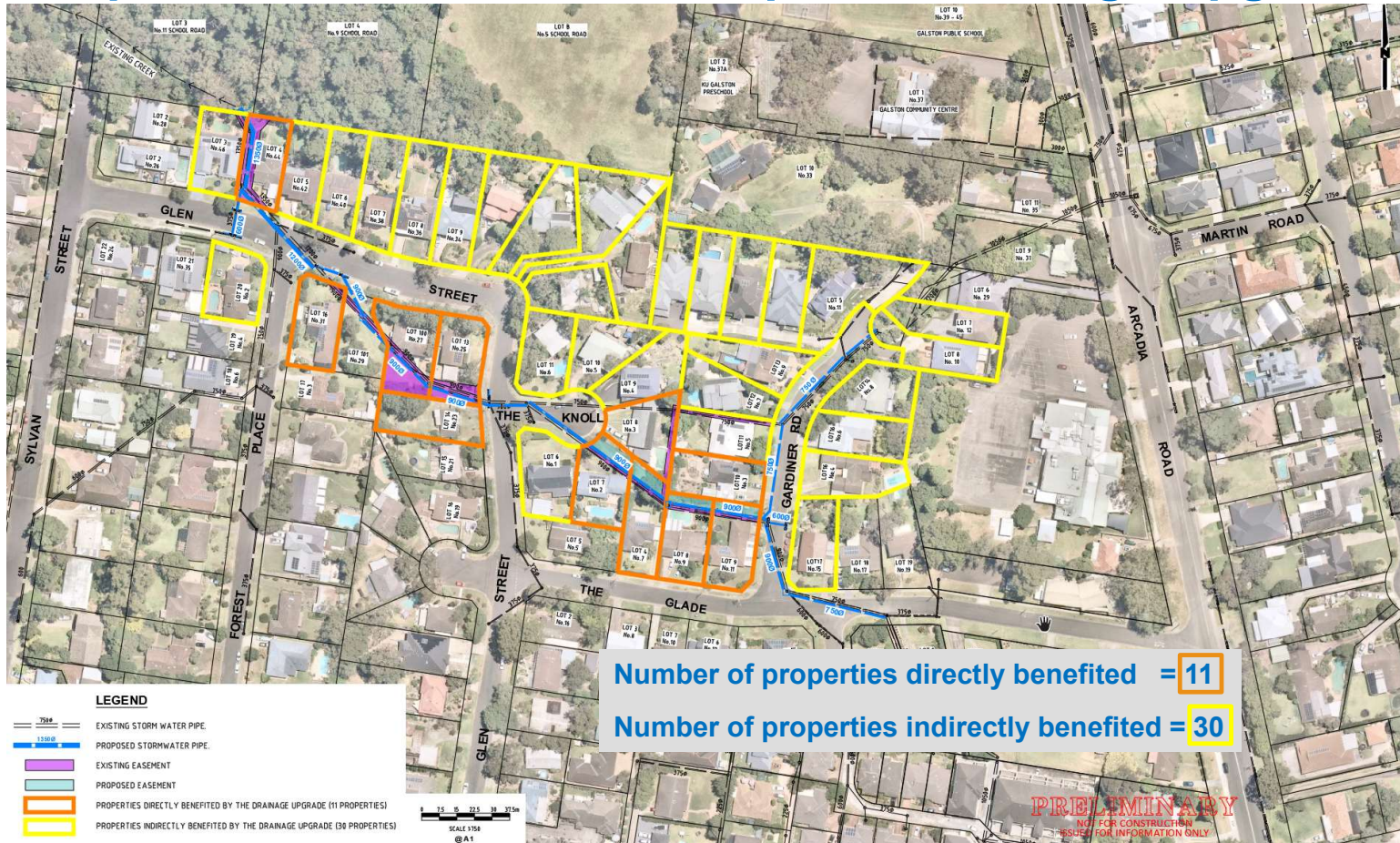
- Stormwater Drainage Upgrade is required.
- Various Design Options have been considered.
  - with the combination of following:
    - Upsizing Stormwater Pipes.
    - Formalisation of Overland Flow paths.
    - Diversion of Stormwater Flow.
    - Detention of Stormwater.
    - Acquisition of properties.

# Proposed Drainage Upgrade

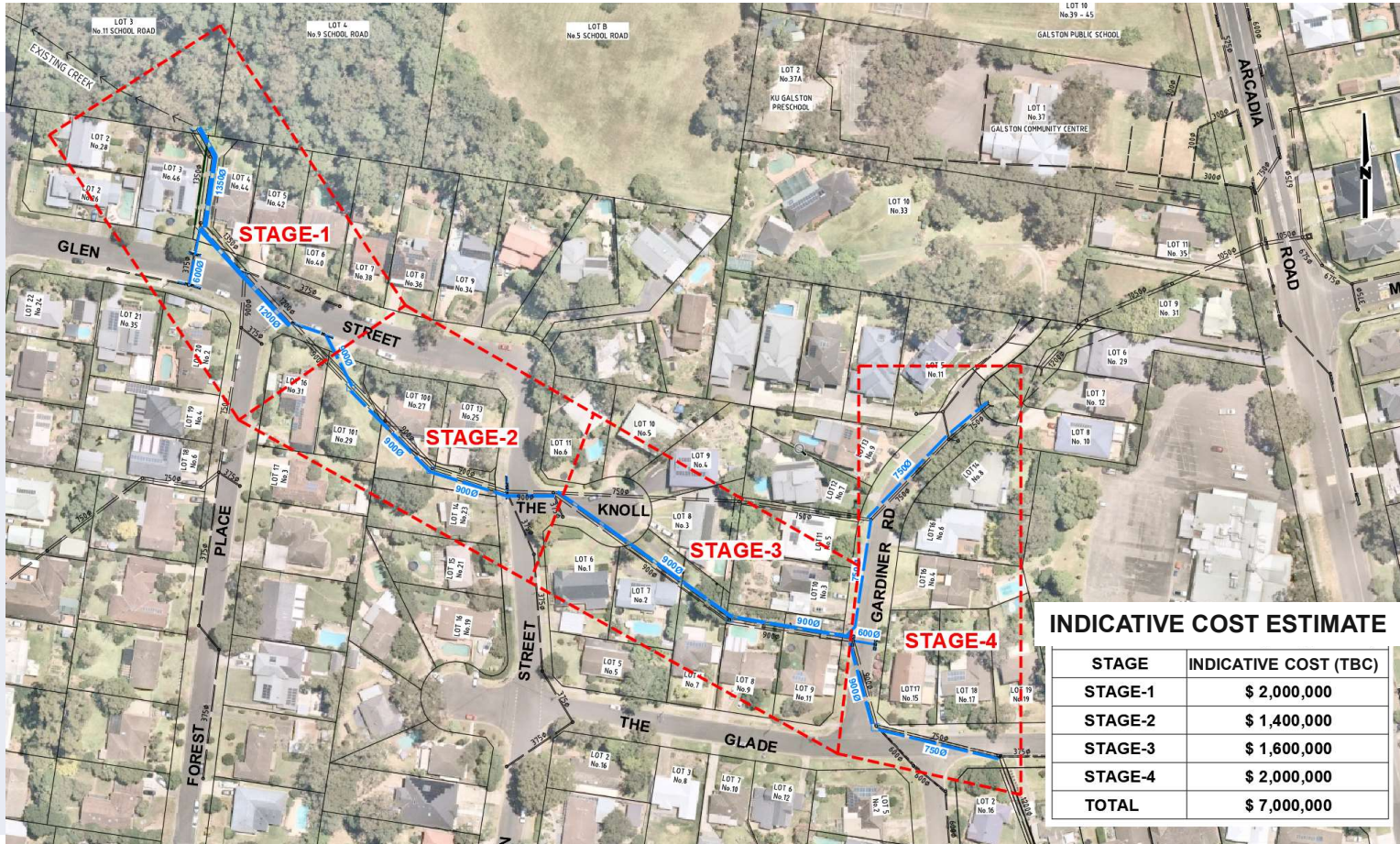




# Properties to Benefit from Proposed Drainage Upgrade



# Construction Staging Plan



## INDICATIVE COST ESTIMATE

| STAGE        | INDICATIVE COST (TBC) |
|--------------|-----------------------|
| STAGE-1      | \$ 2,000,000          |
| STAGE-2      | \$ 1,400,000          |
| STAGE-3      | \$ 1,600,000          |
| STAGE-4      | \$ 2,000,000          |
| <b>TOTAL</b> | <b>\$ 7,000,000</b>   |

# Property discussions

- Where easement widening is required, Council will contact the directly impacted property owners.
- Discuss overland flow path and drainage adjustments required with directly impacted property owners.

## Next Steps

- Further site investigation and Detailed Design.
  - Double pipe capacity from The Glade to Existing Creek.
  - Formalisation of overland flow path between Gardiner Road and The Knoll.
- Confirm cost estimate from independent Quantity Surveyor prior to construction.
- Proposed timeframes:
  - February – June 2025      Further site investigations and Detailed Design
  - 2025/26(TBC)              Construction stages 1 & 2
  - 2026/27(TBC)              Construction stages 3 & 4

## Further Information

- Directly affected residents will be contacted during investigations and design phase.
- Information about the project will also be posted on Council's website under Infrastructure Works Noticeboard: [www.hornsby.nsw.gov.au/council/noticeboard/works/infrastructure-works](http://www.hornsby.nsw.gov.au/council/noticeboard/works/infrastructure-works)
- Further questions or information please contact Council's customer service via Email: [hsc@hornsby.nsw.gov.au](mailto:hsc@hornsby.nsw.gov.au) or Telephone: (02) 9847 6666

Questions?

Thank You