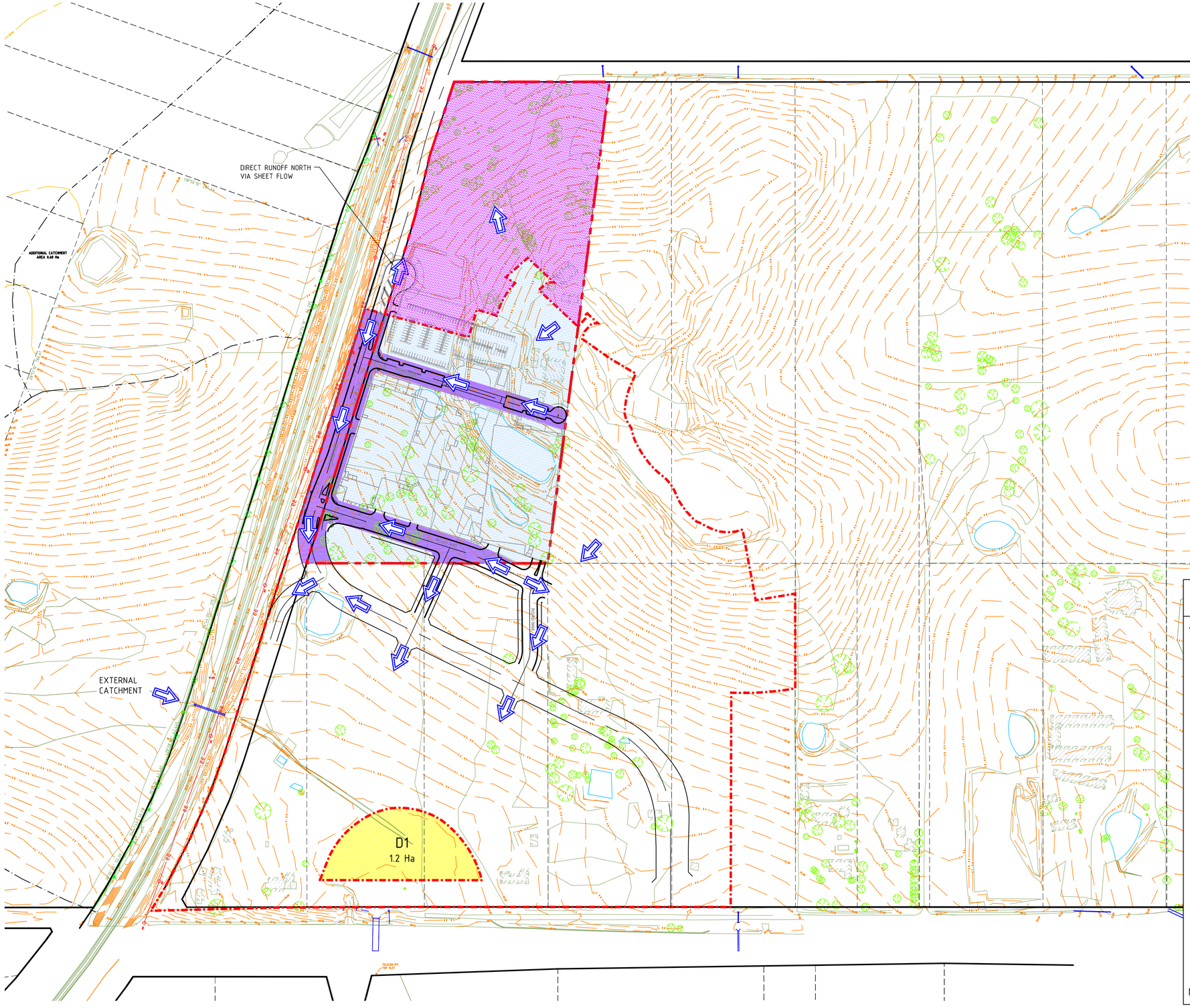


## LEGEND

- D1 — Proposed southern precinct detention
- Northern Catchment
- Catchment Boundary (final determined by road grading)
- Woothworths Site Boundary
- Flow direction
- Woolworth's southern catchment private domain
- Woolworth's southern catchment public domain

## INTEGRATED WATER MANAGEMENT STRATEGY

1. WATER QUANTITY MANAGEMENT

Southern Catchment Philosophy for Woolworths portion

- To manage flows from private and public domain areas
- Detention Basin (DI) to manage Woolworths contributing catchment based on impervious area of 65%
- Total Woolworths catchment Area draining to DI = 5.7356ha
- Total Volume from Woolworths portion to be managed by DI = 1525m3 (Calculated from total catchment area at 65% impervious volume) to be managed as follows
  - 100% of runoff from roads to drain directly to detention basin DI. (Say Xm3)
  - Additional storage volume from Woolworths private domain contribution to be provided in DI = (1525-X)m3.
  - Provide on site detention on private domain to manage additional storage required (in excess of the 1525m3).

Northern Catchment - to be confirmed.

2. WATER QUALITY

A) Woolworth's Private Domain
- Managed 'at source'
- Consider GPT'S and water quality treatment in each site.
- Consider on site recycling of $H_20$ (Harvesting to remove nutrients).

B) Public Domain In Woolworth's Site (Public Roads)
- Manage at source
- Rain gardens in East-West streets and other street subject to grade detention.

Note: Extent of private/public domain to be determined at final design

PRELIMINARY - NOT FOR CONSTRUCTION

| Rev | Amendment / Reason For Issue | Date | Drawing Completed by | Designed & Checked by | Verified by X = Not verified | Issue Authorised (*) |
|---|---|---|---|---|---|---|
| B | FOR FINAL SUBMISSION | 09/03/13 | IS | PMcB | X | PMcB |
| A | ISSUE FOR INFORMATION FOR UPDATED INFRASTRUCTURE ASSESSMENT REPORT | 12.10.12 | IS/MMc | MMc/PMcB | X | PMcB |

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Project: WOOLWORTHS WARNERVALE UPDATED INFRASTRUCTURE ASSESSMENT PLANS
Client: WOOLWORTHS
Architect/Project Manager:

Drawing Title: STORMWATER MANAGEMENT PHILOSOPHY
Drawing No.: 10S183C -MPEA110
Sheet: 10 Of 14
Rev: B

A1 SHEET 300mm 200mm 100mm 0

Date : 05-3-13 Time : 8:14am Plotted By : sunc6056 Filename : P:\S1 Leonards\Projects\210\10s183\CADD\civ\ACAD_Current\MPEA REPORT 120823\10s183-MPEA10-Stormwater Management Philosophy.dwg