

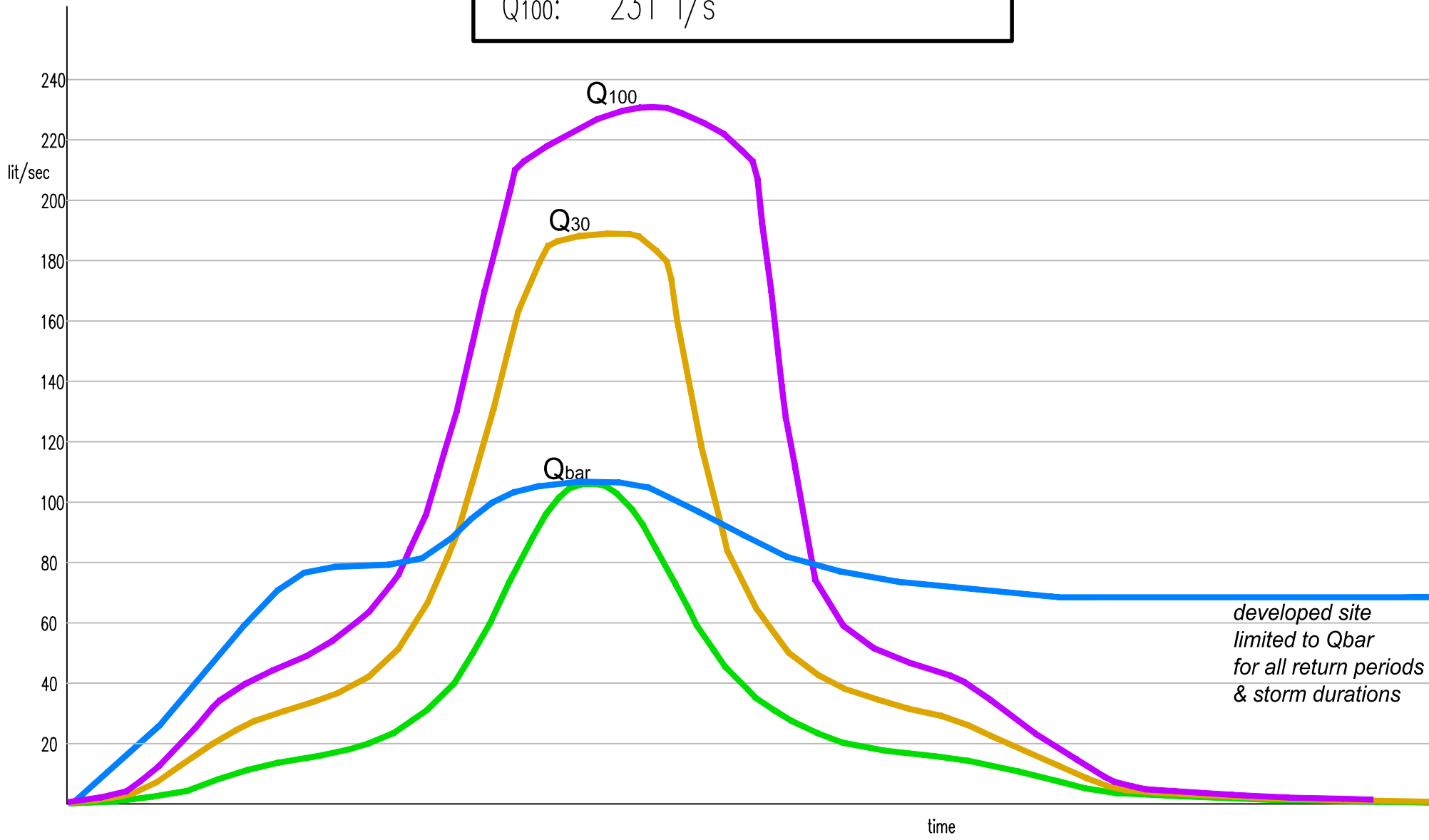
GREENFIELD RUNOFF: IH124 METHODOLOGY, SITE AREA 12.6HA, SOIL TYPE 5

Q_{bar}: 106 l/s = 8.41 l/s/ha

Q₃₀: 189 l/s

Q₁₀₀: 231 l/s

→ x 12.6ha x 65% impermeable = 68.9 lit/sec



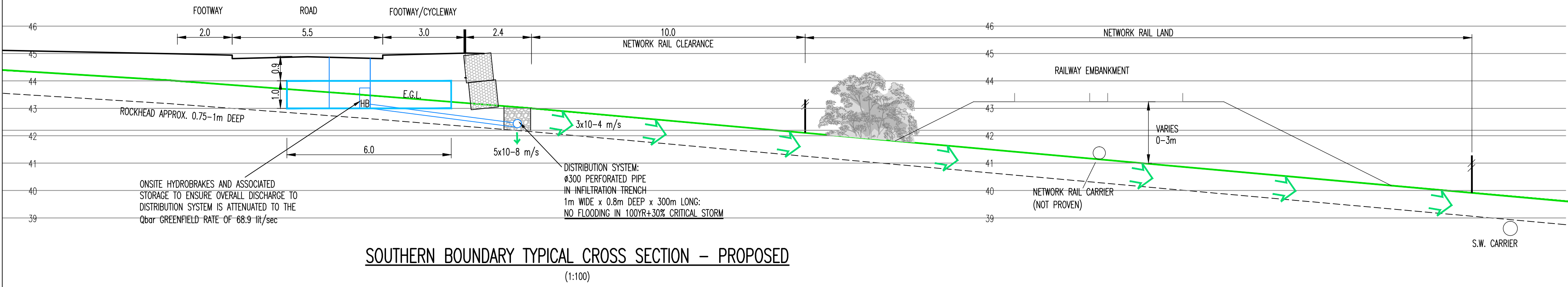
TYPICAL HYDROGRAPH

THE VALE OF
GLAMORGAN COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

APPROVED

SUBJECT TO COMPLIANCE WITH CONDITIONS (IF ANY)



This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.

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- KEY:
- DRAINAGE MECHANISMS IN THE DEVELOPED SITE ARE DESIGNED TO MIMIC THE EXISTING MECHANISMS, WHILST ALSO PROVIDING SIGNIFICANT DOWNSTREAM AND ONSITE FLOOD RISK MITIGATION.
 - FUTURE SITE DRAINAGE MECHANISMS:
 - i) Laterally in southerly direction through free-draining top layer out of southern boundary infiltration trench.
 - ii) Vertically from infiltration trench in to weathered limestone as status quo (low but measurable permeability)
 - iii) Overland flow reduced at southern boundary: infiltration trench sized to accommodate 100yr+30% critical storm without flooding.
 - SUB-SURFACE STORMWATER STORAGE CELLS (INDICATIVE: TOTAL VOL ~ 6000m³)
 - PROPOSED SW DRAINAGE

A05	16.10.14	ARCHITECT LAYOUT UPDATED TO 0508/1003-A	GT
A04	13.05.14	ARCHITECT LAYOUT AMENDED	JW
A03	28.04.14	SUDS BASINS REPLACED WITH SUB-SURFACE STORAGE CELLS AND SOUTHERN BOUNDARY FOOTWAY/CYCLEWAY INCREASED TO 3.0m.	SJ
A02	27.03.14	DRAINAGE UPDATED, SOUTHERN BOUNDARY TYPICAL CROSS SECTION AND QBAR GRAPH & TABLE ADDED.	SJ
A01	21.03.14	FIRST ISSUE	SJ
Rev	Date	Description	By

Amendments

Project
PORKTKERRY ROAD, RHOOSE

Title
PROPOSED DRAINAGE LAYOUT

Client
TAYLOR WIMPEY

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Drawing Status PRELIMINARY				
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