

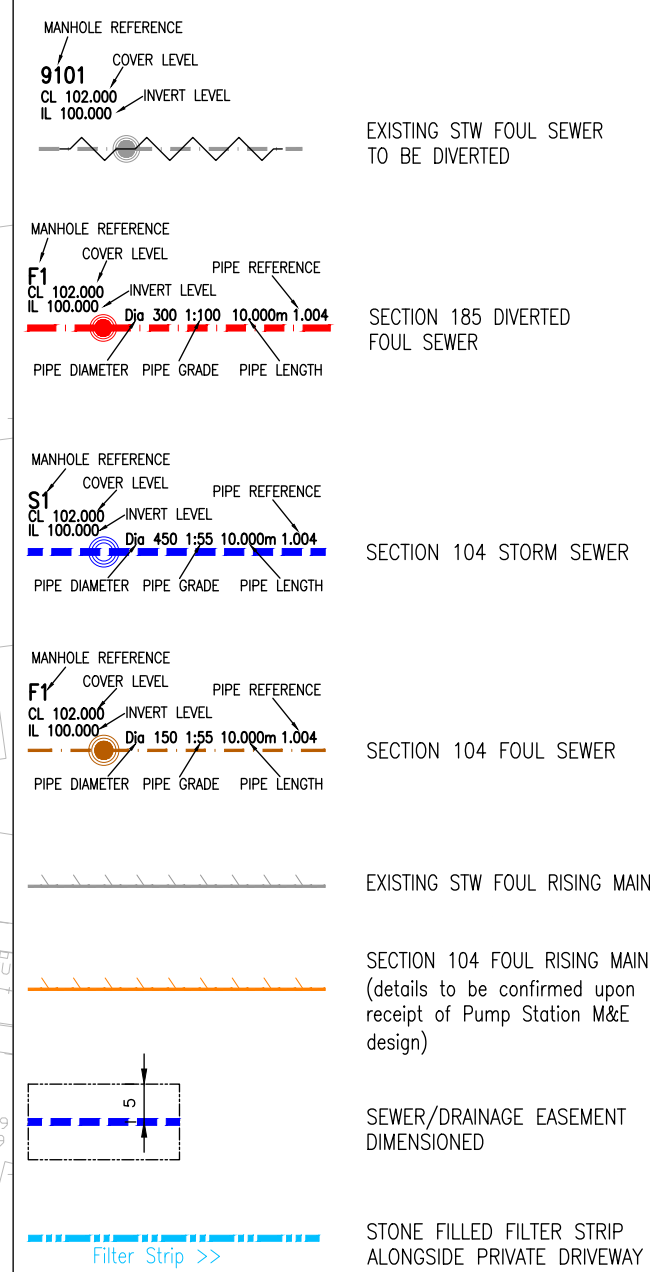


PRELIMINARY ENGINEERING: General Notes.

1. Do not scale this drawing. If in doubt, ask.
2. This drawing is to be used for preliminary appraisal of proposed works only. It is not intended for construction use.
3. This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details.
4. All dimensions are in metres unless noted otherwise. All levels are in metres unless noted otherwise.
5. Highway design shown is indicative only and subject to Housing layout confirmation, planning approval and Section 38/278 technical approval.
6. Drainage design shown is indicative only and subject to Housing layout confirmation, planning approval and Section 104 technical approval.

NOTE: THIS DRAWING IS
INTENDED FOR PLANNING
PURPOSES ONLY

PRELIMINARY ENGINEERING KEY:



**NETWORK 3
SITE DESIGN TO CATER FOR THE FIRST 5mm OF RAINFALL**

SITE IMP AREA = 16,400m²
EQUIVALENT VOLUME OF 82m³

DETENTION BASIN BED (exc FOREBAY)
BED AREA = 403m²
TREATMENT FACTOR $\times 5 = 2,015m^3$ OF DEVELOPMENT
EQUIVALENT VOLUME OF 10.1m³

REMAINING CATCHMENT TO BE ACCOMMODATED 14,385m²
212m² $\times$ 0.35m DEEP = 74.2m³

DETENTION BASIN FOREBAY
212m² $\times$ 0.35m DEEP = 74.2m³

5mm RAINFALL SUMMARY

- SITE REQUIRES 82m³ TO BE CATERED FOR
- DETENTION BASIN CATERERS FOR 10.1m³
- FOREBAY CATERERS FOR 74.2m³

TOTAL 84.3m³

S18-FLOW CONTROL

- MAX. DISCHARGE RATE 7.0 l/s
- DESIGN HEAD 1.165m
- 121mm ϕ HYDROBRAKE FLOW CONTROL model SHE-0121-7000-1165-7000

DETENTION BASIN 3 - ONLINE

- 1,000m³ STORAGE VOLUME
- BED LEVEL 99.13m
- MAX TWL 100.28m
- BANK LEVEL 100.58m (min)
- 300mm FREEBOARD
- DESIGNED FOR 100yr+40cc+10%UC
- POND SLOPES 1 IN 3

FLOOD COMPENSATION WORKS AS PER DESIGNS SHOWN ON JBA DRAWINGS REF:

- PIB-JBA-XX-00-DR-C-0001-S1-P03-GeneralArrangement (Overall)
- PIB-JBA-XX-00-DR-C-0009-S1-P03-GeneralArrangement (Sheet 1 of 3)
- PIB-JBA-XX-00-DR-C-0002-S1-P05-GeneralArrangement (Sheet 2 of 3)
- PIB-JBA-XX-00-DR-C-0003-S1-P03-GeneralArrangement (Sheet 3 of 3)
- PIB-JBA-XX-00-DR-C-0004-S1-P02-Construction_Details
- PIB-JBA-XX-00-DR-C-0006-S1-P02-Embankment_Sections_Sheet_1_of_3
- PIB-JBA-XX-00-DR-C-0007-S1-P02-Embankment_Sections_Sheet_2_of_3
- PIB-JBA-XX-00-DR-C-0008-S1-P02-Embankment_Sections_Sheet_3_of_3

STN	EASTINGS	NORTHINGS	LEVEL	DESCRIPTION
PS1	444756.398	893010.367	106.163	Wooden Peg
PS2	444705.891	893036.215	107.257	Pipe Nail
PS3	444634.701	893069.035	107.312	Phillips Screw
PS4	444672.844	893110.465	105.353	Pipe Nail
PS5	444744.194	893110.465	105.353	Pipe Nail

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Jelson
HOMES

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT
**SAPCOTE ROAD,
BURBAGE
SOUTH SITE**

**DRAINAGE GENERAL
ARRANGEMENT PLAN**
SHEET 3 OF 3

DRAWN	SC	DATE	29-06-26	PURPOSE OF ISSUE	☒ PRELIMINARY ☐ APPROVAL ☐ CONSTRUCTION
SCALE	1/500	SIZE	A1	REV.	B
DWG NO.	E409-00-23				