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:

- MANHOLE REFERENCE / COVER LEVEL / 9101 / CL 102.000 / IL 100.000 / INVERT LEVEL — EXISTING STW FOUL SEWER TO BE DIVERTED
- MANHOLE REFERENCE / COVER LEVEL / F1 / CL 102.000 / IL 100.000 / INVERT LEVEL / PIPE REFERENCE / Dia 300 1:100 10.000m 1.004 / PIPE DIAMETER PIPE GRADE PIPE LENGTH — SECTION 185 DIVERTED FOUL SEWER
- MANHOLE REFERENCE / COVER LEVEL / S1 / CL 102.000 / IL 100.000 / INVERT LEVEL / PIPE REFERENCE / Dia 150 1:55 10.000m 1.004 / PIPE DIAMETER PIPE GRADE PIPE LENGTH — SECTION 104 STORM SEWER
- MANHOLE REFERENCE / COVER LEVEL / F1 / CL 102.000 / IL 100.000 / INVERT LEVEL / PIPE REFERENCE / Dia 150 1:55 10.000m 1.004 / PIPE DIAMETER PIPE GRADE PIPE LENGTH — SECTION 104 FOUL SEWER
- EXISTING STW FOUL RISING MAIN
- SECTION 104 FOUL RISING MAIN (details to be confirmed upon receipt of Pump Station M&E design)
- SEWER/DRAINAGE EASEMENT DIMENSIONED
- STONE FILLED FILTER STRIP ALONGSIDE PRIVATE DRIVEWAY (Filter Strip >>)

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 x 5 = 2,015m² OF DEVELOPMENT
EQUIVALENT VOLUME OF 10.1m³

REMAINING CATCHMENT TO BE ACCOMMODATED 14,385m²
EQUIVALENT VOLUME 14,385 x 0.005 = 71.9m³

DETENTION BASIN FOREBAY
212m2 x 0.35m DEEP = 74.2m³

5mm RAINFALL SUMMARY
- SITE REQUIRES 82m³ TO BE CATERED FOR
- DETENTION BASIN CATERS FOR 10.1m³
- FOREBAY CATERS FOR 74.2m³

TOTAL 84.3m³

S18—FLOW CONTROL
- MAX. DISCHARGE RATE 7.0 l/s
- DESIGN HEAD 1.165m
- 121mm∅ 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+40%cc+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-General_Arrangement (Overall)
- PIB-JBA-XX-00-DR-C-0009-S1-P03-General_Arrangement (Sheet 1 of 3)
- PIB-JBA-XX-00-DR-C-0002-S1-P05-General_Arrangement (Sheet 2 of 3)
- PIB-JBA-XX-00-DR-C-0003-S1-P03-General_Arrangement (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

SURVEY STATIONS

STN	EASTINGS	NORTHINGS	LEVEL	DESCRIPTION
PS1	444756.398	293010.387	106.163	Wooden Peg
PS2	444705.891	293032.215	107.257	Pipe Nail
PS3	444634.701	293069.035	107.312	Phillips Screw
PS4	444672.844	293110.465	105.353	Pipe Nail
PS5	444744.256	293105.447	103.312	Cap of Mr Frame

REV	DESCRIPTION	DATE	INITIAL
B	JBA FLOOD MODELLING AND NETWORK 2 BALANCING POND UPDATED.	08.10.26	SC
A	ENGINEERING DESIGN UPDATED TO INCLUDE ADDITIONAL SUDS. DRAWING REFERENCE NUMBER CORRECTED.	28.07.26	SC

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CLIENT: Jelson Homes

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

TITLE: DRAINAGE GENERAL ARRANGEMENT PLAN
SHEET 3 OF 3

DRAWN	DATE	PURPOSE OF ISSUE
SC	29-06-26	☒ PRELIMINARY ☐ APPROVAL ☐ CONSTRUCTION
SCALE 1/500	SIZE A1	

DWG NO. E409-00-23 REV. B