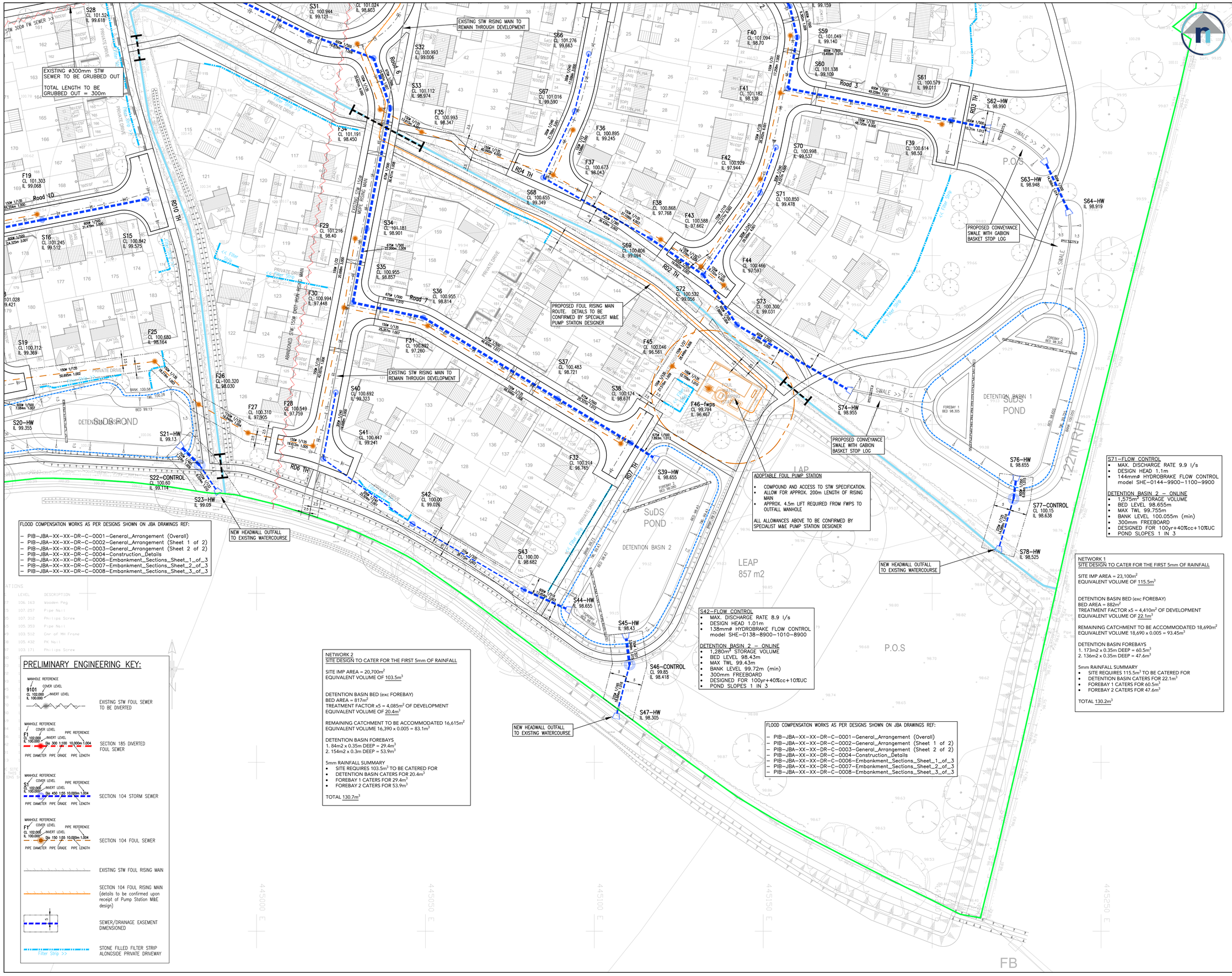

FLOOD COMPENSATION WORKS AS PER DESIGNS SHOWN ON JBA DRAWINGS REF:

- PIB–JBA–XX–XX–DR–C–0001–General_Arrangement (Overall)
- PIB–JBA–XX–XX–DR–C–0002–General_Arrangement (Sheet 1 of 2)
- PIB–JBA–XX–XX–DR–C–0003–General_Arrangement (Sheet 2 of 2)
- PIB–JBA–XX–XX–DR–C–0004–Construction_Details
- PIB–JBA–XX–XX–DR–C–0006–Embankment_Sections_Sheet_1_of_3
- PIB–JBA–XX–XX–DR–C–0007–Embankment_Sections_Sheet_2_of_3
- PIB–JBA–XX–XX–DR–C–0008–Embankment_Sections_Sheet_3_of_3

ADOPTABLE FOUL PUMP STATION

- COMPOUND AND ACCESS TO STW SPECIFICATION.
- ALLOW FOR APPROX. 200m LENGTH OF RISING MAIN
- APPROX. 4.5m LIFT REQUIRED FROM FWPS TO OUTFALL MANHOLE

ALL ALLOWANCES ABOVE TO BE CONFIRMED BY SPECIALIST M&E PUMP STATION DESIGNER

S71–FLOW CONTROL

- MAX. DISCHARGE RATE 9.9 l/s
- DESIGN HEAD 1.1m
- 144mmø HYDROBRAKE FLOW CONTROL model SHE–0144–9900–1100–9900

DETENTION BASIN 2 – ONLINE

- 1,575m³ STORAGE VOLUME
- BED LEVEL 98.655m
- MAX TWL 99.755m
- BANK LEVEL 100.055m (min)
- 300mm FREEBOARD
- DESIGNED FOR 100yr+40%cc+10%UC
- POND SLOPES 1 IN 3

S42–FLOW CONTROL

- MAX. DISCHARGE RATE 8.9 l/s
- DESIGN HEAD 1.01m
- 138mmø HYDROBRAKE FLOW CONTROL model SHE–0138–8900–1010–8900

DETENTION BASIN 2 – ONLINE

- 1,280m³ STORAGE VOLUME
- BED LEVEL 98.43m
- MAX TWL 99.43m
- BANK LEVEL 99.72m (min)
- 300mm FREEBOARD
- DESIGNED FOR 100yr+40%cc+10%UC
- POND SLOPES 1 IN 3

NETWORK 1
SITE DESIGN TO CATER FOR THE FIRST 5mm OF RAINFALL

SITE IMP AREA = 23,100m²
EQUIVALENT VOLUME OF 115.5m³

DETENTION BASIN BED (exc FOREBAY)
BED AREA = 882m²
TREATMENT FACTOR x5 = 4,410m² OF DEVELOPMENT
EQUIVALENT VOLUME OF 22.1m³

REMAINING CATCHMENT TO BE ACCOMMODATED 18,690m²
EQUIVALENT VOLUME 18,690 x 0.005 = 93.45m³

DETENTION BASIN FOREBAYS
1. 173m2 x 0.35m DEEP = 60.5m³
2. 136m2 x 0.35m DEEP = 47.6m³

5mm RAINFALL SUMMARY

- SITE REQUIRES 115.5m³ TO BE CATERED FOR
- DETENTION BASIN CATERS FOR 22.1m³
- FOREBAY 1 CATERS FOR 60.5m³
- FOREBAY 2 CATERS FOR 47.6m³

TOTAL 130.2m³

NETWORK 2
SITE DESIGN TO CATER FOR THE FIRST 5mm OF RAINFALL

SITE IMP AREA = 20,700m²
EQUIVALENT VOLUME OF 103.5m³

DETENTION BASIN BED (exc FOREBAY)
BED AREA = 817m²
TREATMENT FACTOR x5 = 4,085m² OF DEVELOPMENT
EQUIVALENT VOLUME OF 20.4m³

REMAINING CATCHMENT TO BE ACCOMMODATED 16,615m²
EQUIVALENT VOLUME 16,390 x 0.005 = 83.1m³

DETENTION BASIN FOREBAYS
1. 84m2 x 0.35m DEEP = 29.4m³
2. 154m2 x 0.3m DEEP = 53.9m³

5mm RAINFALL SUMMARY

- SITE REQUIRES 103.5m³ TO BE CATERED FOR
- DETENTION BASIN CATERS FOR 20.4m³
- FOREBAY 1 CATERS FOR 29.4m³
- FOREBAY 2 CATERS FOR 53.9m³

TOTAL 130.7m³

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

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- PIB–JBA–XX–XX–DR–C–0008–Embankment_Sections_Sheet_3_of_3

PRELIMINARY ENGINEERING KEY:

- EXISTING STW FOUL SEWER TO BE DIVERTED
- SECTION 185 DIVERTED FOUL SEWER
- SECTION 104 STORM SEWER
- 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

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

REV	DESCRIPTION	DATE	INITIAL
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 2 OF 3

DRAWN	DATE	PURPOSE OF ISSUE
SC	29-06-26	■ PRELIMINARY
SCALE 1/500	SIZE A1	☐ APPROVAL ☐ CONSTRUCTION
DWG NO. E409-00-22		REV. A