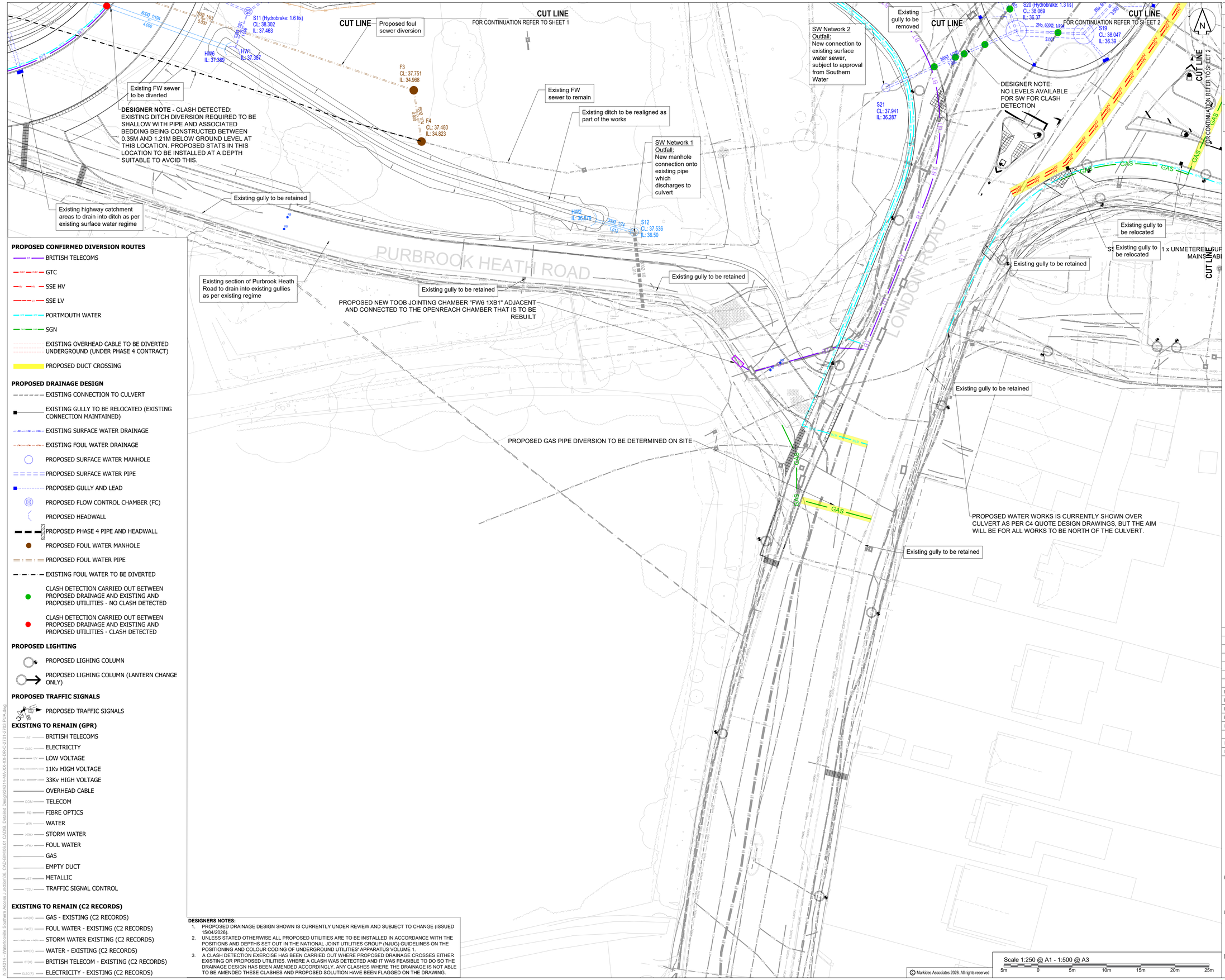

PROPOSED CONFIRMED DIVERSION ROUTES

- BRITISH TELECOMS
- GTC
- SSE HV
- SSE LV
- PORTMOUTH WATER
- SGN
- EXISTING OVERHEAD CABLE TO BE DIVERTED UNDERGROUND (UNDER PHASE 4 CONTRACT)
- PROPOSED DUCT CROSSING

PROPOSED DRAINAGE DESIGN

- EXISTING CONNECTION TO CULVERT
- EXISTING GULLY TO BE RELOCATED (EXISTING CONNECTION MAINTAINED)
- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED SURFACE WATER PIPE
- PROPOSED GULLY AND LEAD
- PROPOSED FLOW CONTROL CHAMBER (FC)
- PROPOSED HEADWALL
- PROPOSED PHASE 4 PIPE AND HEADWALL
- PROPOSED FOUL WATER MANHOLE
- PROPOSED FOUL WATER PIPE
- EXISTING FOUL WATER TO BE DIVERTED
- CLASH DETECTION CARRIED OUT BETWEEN PROPOSED DRAINAGE AND EXISTING AND PROPOSED UTILITIES - NO CLASH DETECTED
- CLASH DETECTION CARRIED OUT BETWEEN PROPOSED DRAINAGE AND EXISTING AND PROPOSED UTILITIES - CLASH DETECTED

PROPOSED LIGHTING

- PROPOSED LIGHING COLUMN
- PROPOSED LIGHING COLUMN (LANTERN CHANGE ONLY)

PROPOSED TRAFFIC SIGNALS

- PROPOSED TRAFFIC SIGNALS

EXISTING TO REMAIN (GPR)

- BT — BRITISH TELECOMS
- ELEC — ELECTRICITY
- LV — LOW VOLTAGE
- 11kV — 11Kv HIGH VOLTAGE
- 33kV — 33Kv HIGH VOLTAGE
- OVERHEAD CABLE
- COM — TELECOM
- FO — FIBRE OPTICS
- WTR — WATER
- >SW> — STORM WATER
- >FW> — FOUL WATER
- GAS
- EMPTY DUCT
- MET — METALLIC
- TCSU — TRAFFIC SIGNAL CONTROL

EXISTING TO REMAIN (C2 RECORDS)

- GAS(R) — GAS - EXISTING (C2 RECORDS)
- FW(R) — FOUL WATER - EXISTING (C2 RECORDS)
- STORM WATER EXISTING (C2 RECORDS)
- WTR(R) — WATER - EXISTING (C2 RECORDS)
- BT(R) — BRITISH TELECOM - EXISTING (C2 RECORDS)
- ELEC(R) — ELECTRICITY - EXISTING (C2 RECORDS)

DESIGNERS NOTES:

1. PROPOSED DRAINAGE DESIGN SHOWN IS CURRENTLY UNDER REVIEW AND SUBJECT TO CHANGE (ISSUED 15/04/2026).
2. UNLESS STATED OTHERWISE ALL PROPOSED UTILITIES ARE TO BE INSTALLED IN ACCORDANCE WITH THE POSITIONS AND DEPTHS SET OUT IN THE NATIONAL JOINT UTILITIES GROUP (NJUG) GUIDELINES ON THE POSITIONING AND COLOUR CODING OF UNDERGROUND UTILITIES' APPARATUS VOLUME 1.
3. A CLASH DETECTION EXERCISE HAS BEEN CARRIED OUT WHERE PROPOSED DRAINAGE CROSSES EITHER EXISTING OR PROPOSED UTILITIES. WHERE A CLASH WAS DETECTED AND IT WAS FEASIBLE TO DO SO THE DRAINAGE DESIGN HAS BEEN AMENDED ACCORDINGLY. ANY CLASHES WHERE THE DRAINAGE IS NOT ABLE TO BE AMENDED THESE CLASHES AND PROPOSED SOLUTION HAVE BEEN FLAGGED ON THE DRAWING.

DO NOT SCALE OFF THIS DRAWING

CDM - RESIDUAL HAZARDS

1	Existing Utilities
2	Risk of falls from heights
3	Overhead Cables
4	Unexploded Ordancne
5	Existing Culvert

NOTE: The above hazards do not include every hazard or assumption, but identify significant residual construction hazards that are not likely to be obvious to a competent contractor and those that could be difficult to manage effectively. Refer to the designer's risk documentation 24314-MA-XX-XX-RP-C-S278 DRA.

Notes:

1. This drawing is to be read in conjunction with the relevant specification, including risk assessments and all other related drawings issued by the engineer. (Project number 24314).
2. All dimensions in metres unless otherwise stated.
3. Do not scale off this drawing. All dimensions, levels and co-ordinates are to be checked on site and the engineer notified immediately of any discrepancies prior to the commencement of works.
4. No deviation from the details shown on this drawing is permitted without prior permission from the engineer.
5. **Topo Survey is 2500 S10 - Berewood (PS) file from Encompass Surveys Dated January 2025 received 2025-02-03.**
6. **Existing utilities are from ENC-250125-2500U22-Berewood file from Encompass Surveys Dated January 2025 received 2025-02-26.**
7. The contractor is to notify the contract administrator of any discrepancies between this drawing and site conditions before implementing the work.
8. Details on this drawing are to be checked on site by the contractor and any discrepancies reported to the engineer so that adjustment may be made to the scheme if necessary.
9. Where one way traffic is unavoidable, traffic shall be controlled by a proper system of vehicle actuated traffic signals or manual stop/ go signs.
10. HEALTH AND SAFETY: The works shall be carried out by specialist competent and experienced Contractors who are members of a recognised national organisation.Operatives shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.
11. Proposed BT diversion routes based on C4 plans from Appendix A page 1 of 4 dated October 2025 BT reference 942348.
12. Proposed GTC diversion routes based on C4 plan drawing numbers EN0013239-1_17Rev9-1 dated October 2025 and e4f7d785-1f38-48ec-8813-ea0e38740f3e.
13. Proposed SSE HV diversion routes based on C4 plans job reference FGJ813/1 dated September 2025 and Mayer Brown drawing GTWVILLE_P4/SK/17-P1.
14. Proposed SSE LV dbased on C4 plans job reference FGJ813/1 dated September 2025.
15. Proposed Portsmouth Water diversion routes based on C4 plans drawing number RCW6789 dated October 2025 and 1716-PH4-WA-PR-001 dated September 2025.
16. Proposed SGN diversion routes based on C4 plan drawing number D2780504 PD dated September 2025.
17. Proposed electrical cables will feed into the proposed lighting columns.
18. Proposed lighting columns which have not been fed by with electrical cables are in the process in having these being provided by SSE.
19. BT to share proposed ducting with City Fibre and TOOB.

Revision History

P04	FOR APPROVAL	LB	HJ	HJ	29.05.2026
P03	FOR APPROVAL	KS	DE	HJ	15.05.2026
P02	UPDATED TO CLIENT'S COMMENTS	KS	DE	HJ	08.05.2026
P01	DRAFT FOR COMMENT	DE	HJ	HJ	15.04.2026
Rev	Comment	By	Chkd	Appr	Date

Current Revision

P04	FOR APPROVAL	LB	HJ	HJ	29.05.2026
Rev	Comment	By	Chkd	Appr	Date

S4 - FOR APPROVAL

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Project

BEREWOOD, WATERLOOVILLE
SOUTHERN ACCESS JUNCTION

Drawing Title

SECTION 278
PROPOSED UTILITIES AND DRAINAGE
SHEET 3

Markides Associates reference: 24314 1:250 @A1

24314-MA-XX-XX-DR-C-2703-S4 - P04

Scale 1:250 @ A1 - 1:500 @ A3

5m 0 5m 10m 15m 20m 25m

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