

## BUILT AI LTD

Mechanical, Electrical and Public Health Installations



# PROGRAMME / WORK SCHEDULE

## B99 Malthouse Block Boiler House Replacement

Kettlewick College, Somerset

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Client               | Grimshaw & Bolt Ltd (Principal Contractor)             |
| On behalf of         | Kettlewick Estates                                     |
| Project Reference    | KW-2026-4471                                           |
| Sub-Contractor       | Built AI Ltd (MEP / PH / Controls, with CDP)           |
| Sub-Contract         | JCT Intermediate 2016 with Contractor's Design Portion |
| Programme Owner      | Built AI Ltd                                           |
| Programme Date       | 27 April 2026                                          |
| Programme Rev.       | Rev 1                                                  |
| Construction Window  | Mon 6 July 2026 — Fri 9 October 2026 (14 weeks)        |
| Practical Completion | Friday 9 October 2026                                  |
| Cross-Reference      | Priced BoQ Rev 1 — £481,954.33 baseline (excl. VAT)    |

### 14-WEEK CONSTRUCTION PROGRAMME

PC: 9 Oct 2026

#### Revision History

| Rev   | Date        | Change                                                                                  | By       |
|-------|-------------|-----------------------------------------------------------------------------------------|----------|
| Rev 1 | 27-Apr-2026 | Initial issue — programme baseline aligned to Priced BoQ Rev 1 (£481,954.33 excl. VAT). | Built AI |

#### Planning Assumptions

- Working hours: Mon–Fri 07:30–17:00, single shift.
- UK Bank Holidays excluded: 25 May (Spring), 31 Aug 2026 (Summer).
- Construction start date: Monday 6 July 2026 (Kettlewick College summer-term stand-down window).
- Practical Completion: Friday 9 October 2026.
- Long-lead procurement: orders placed Friday 29 May 2026 to lock pre-31-May IDEAL pricing.
- LARC asbestos removal completes Friday 17 July 2026 (Cert. of Reoccupation issued).
- Grimshaw & Bolt temporary boiler installed and commissioned during Weeks 0–1 (GB-led).
- BMS specialist appointed under PC Sum at Grimshaw & Bolt's instruction.
- OEM commissioning attendance — IDEAL: 4 weeks notice; others: 2 weeks notice.
- Witness commissioning — 10 Working Days notice.
- BMS summer commissioning revisit at PC + 16 weeks (~1 February 2027).
- No Kettlewick College blackout dates assumed within construction window — to confirm pre-mobilisation.

#### Workbook Tabs

- [Cover](#) This tab — project identification, planning assumptions, revision history.
- [Master Gantt](#) Phase-level rolled-up Gantt chart for client / stakeholder presentation.
- [Detailed Programme](#) 75-activity working-level Gantt with logic, dates, predecessors and resources.
- [Key Interfaces](#) Milestones, hold-points, critical interfaces with notice periods.
- [MS Project Import](#) Native MS Project field columns for direct import (File → Open in MS Project).

## 14-Week Construction Programme

Mon 6 Jul & Fri 9 Oct 2026 · 10 phases · Single shift



#### Major Milestones

|                                   |                                   |                                   |                                    |                                 |                               |                                 |
|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|---------------------------------|-------------------------------|---------------------------------|
| <b>11 May</b><br>Letter of intent | <b>29 May</b><br>IDEAL order book | <b>17 Jul</b><br>LARC reocc. cert | <b>17 Aug</b><br>Heavy lift begins | <b>22 Sep</b><br>Hydraulic test | <b>9 Oct</b><br>Witness comm. | <b>9 Oct</b><br>PRACTICAL COMP. |
|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|---------------------------------|-------------------------------|---------------------------------|

**B99 MALTHOUSE BLOCK BOILER HOUSE — MASTER GANTT (PHASE-LEVEL ROLL-UP)**

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| #  | Phase Description                                    | Dur(WD) | Start     | Finish    | P0<br>W-7 | P0<br>W-6 | P0<br>W-5 | P0<br>W-4 | P0<br>W-3 | P0<br>W-2 | P0<br>W-1 | Mob<br>W0 | W1<br>06-Jul | W2<br>13-Jul | W3<br>20-Jul | W4<br>27-Jul | W5<br>03-Aug | W6<br>10-Aug | W7<br>17-Aug | W8<br>24-Aug | W9<br>31-Aug | W10<br>07-Sep | W11<br>14-Sep | W12<br>21-Sep | W13<br>28-Sep | W14<br>05-Oct | Post<br>PC |  |  |  |
|----|------------------------------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|------------|--|--|--|
| 0  | Pre-Construction (procurement, GB temp boiler, LARC) | 49      | 11-May-26 | 17-Jul-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 1  | Mobilisation + Stage 4a Surveys                      | 10      | 29-Jun-26 | 10-Jul-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 2  | Strip-Out, Removal and Preparation                   | 15      | 20-Jul-26 | 7-Aug-26  |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 3  | Builders' Work in Connection                         | 15      | 27-Jul-26 | 14-Aug-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 4  | Heavy-Plant Lift-In                                  | 5       | 17-Aug-26 | 21-Aug-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5  | Mechanical and Public Health Installation            | 24      | 17-Aug-26 | 18-Sep-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6  | Electrical Services Installation                     | 17      | 24-Aug-26 | 16-Sep-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 7  | BMS / Controls (PC Sum specialist)                   | 13      | 14-Sep-26 | 30-Sep-26 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8  | Testing, Commissioning and Witnessing                | 12      | 21-Sep-26 | 6-Oct-26  |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 9  | Changeover, Handover and Practical Completion        | 5       | 5-Oct-26  | 9-Oct-26  |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 10 | Post-PC Defects Liability + Seasonal Commissioning   | 257     | 12-Oct-26 | 8-Oct-27  |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |

## MAJOR MILESTONES

[illegible]

## B99 MALTHOUSE BLOCK BOILER HOUSE — DETAILED PROGRAMME (R0)

• BUILT AI — BIDROOM IN A BOX™ — EXAMPLE OUTPUT — All client, site and project details are fictional and for illustration purposes only.

[illegible]

## B99 MALTHOUSE BLOCK BOILER HOUSE — DETAILED PROGRAMME (R0)

Construction window: Mon 6 Jul 2026 — Fri 9 Oct 2026 | 14 weeks on-site | PC = 9 Oct 2026 | Working Mon-Fri excl. UK Bank Hols

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| ID                              | WBS  | Phase                   | Activity Description                                                          | Dur(W<br>D) | Start     | Finish    | Predecessor             | Resource                         | MS | HP | CP | Notes                                                             | P0<br>W-7                                        | P0<br>W-6 | P0<br>W-5 | P0<br>W-4 | P0<br>W-3 | P0<br>W-2 | P0<br>W-1 | Mob<br>W0 | W1<br>06-Jul | W2<br>13-Jul | W3<br>20-Jul | W4<br>27-Jul | W5<br>03-Aug | W6<br>10-Aug | W7<br>17-Aug | W8<br>24-Aug | W9<br>31-Aug | W10<br>07-Sep | W11<br>14-Sep | W12<br>21-Sep | W13<br>28-Sep | W14<br>05-Oct | Post<br>PC |  |  |  |
|---------------------------------|------|-------------------------|-------------------------------------------------------------------------------|-------------|-----------|-----------|-------------------------|----------------------------------|----|----|----|-------------------------------------------------------------------|--------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|------------|--|--|--|
| 5.1                             | 5.1  | 5 Mech & PH             | Primary LTHW pipework — header to thermal store + boiler interconnect         | 15          | 17-Aug-26 | 4-Sep-26  | 4.1 SS                  | Built AI Mech (×4)               |    |    | ●  | BS EN 10255 black mild steel, flanged/socket-welded               |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.2                             | 5.2  | 5 Mech & PH             | DHW primary, secondary + recirculation pipework                               | 12          | 24-Aug-26 | 9-Sep-26  | 5.1 SS, 4.3 FS          | Built AI Mech (×3)               |    |    |    | To BS 6700 / BS EN 806                                            |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.3                             | 5.3  | 5 Mech & PH             | Gas pipework (BS EN 10255) + Gas Safety Panel installation                    | 9           | 24-Aug-26 | 4-Sep-26  | 5.1 SS                  | Built AI Gas Safe                |    |    | ●  | Includes SBS GSV065 solenoid + pressure-proving                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.4                             | 5.4  | 5 Mech & PH             | Twin-wall 4-hr FR flue installation + smoke test                              | 10          | 17-Aug-26 | 28-Aug-26 | 4.1 FS                  | Specialist flue contractor       |    |    | ●  | Through existing chimney void; pressure + smoke test              |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.5                             | 5.5  | 5 Mech & PH             | Pump installation — Grundfos MAGNA3 D / MAGNA1 / AP50                         | 5           | 7-Sep-26  | 11-Sep-26 | 5.1 FS                  | Built AI Mech (×2)               |    |    |    | Anti-vibration couplings, isolation, BMS interface                |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.6                             | 5.6  | 5 Mech & PH             | Pressurisation units + expansion vessels (425L × 2 + 110L × 3)                | 3           | 7-Sep-26  | 9-Sep-26  | 5.1 FS                  | Built AI Mech (×2)               |    |    |    | Flamco Flexfiller 225DS digital                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.7                             | 5.7  | 5 Mech & PH             | Cold-water booster (BTBS) tie-in + WRAS Cat 5 backflow prevention             | 2           | 10-Sep-26 | 11-Sep-26 | 5.2 FS                  | Built AI Mech                    |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.8                             | 5.8  | 5 Mech & PH             | Albion valve schedule install (butterflies, strainers, NRVs, comm sets)       | 12          | 24-Aug-26 | 9-Sep-26  | 5.1 SS                  | Built AI Mech (×2)               |    |    |    | Per Albion take-off DWG 06642P-SDS-XX-XX-SC-M-6000-01             |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.9                             | 5.9  | 5 Mech & PH             | Insulation (F7 series) — 40mm phenolic foam + valve jackets                   | 5           | 14-Sep-26 | 18-Sep-26 | FS, 5.2 FS, 5.3 FS, 5.8 | Built AI Insulation Sub          |    |    | ●  | BS 5422 minimum thicknesses                                       |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 5.10                            | 5.10 | 5 Mech & PH             | Condensate neutralisation + PH drainage to sump                               | 4           | 1-Sep-26  | 4-Sep-26  | 3.4 FS                  | Built AI Mech                    |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| PHASE 6 ELECTRICAL              |      |                         |                                                                               |             |           |           |                         |                                  |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.1                             | 6.1  | 6 Electrical            | Sub-main installation from Malthouse Block main LV panel                      | 3           | 24-Aug-26 | 26-Aug-26 | 4.1 FS                  | Built AI Elec (×2)               |    |    | ●  | LSZH-SWA <3% volt-drop; AP (Electrical) attendance                |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.2                             | 6.2  | 6 Electrical            | Schneider Acti 9 12-Way 125 A TP&N DB installation                            | 2           | 27-Aug-26 | 28-Aug-26 | 6.1 FS                  | Built AI Elec                    |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.3                             | 6.3  | 6 Electrical            | Containment (tray/basket/conduit) + cabling + terminations                    | 9           | 1-Sep-26  | 11-Sep-26 | 6.2 FS                  | Built AI Elec (×3)               |    |    |    | BS EN 50174-2 segregation                                         |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.4                             | 6.4  | 6 Electrical            | Final connections to plant (G4 series, 1 hr per item refined)                 | 3           | 14-Sep-26 | 16-Sep-26 | 5.5 FS, 5.6 FS, 6.3 FS  | Built AI Elec                    |    |    | ●  |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.5                             | 6.5  | 6 Electrical            | LED task + BS 5266 emergency lighting installation                            | 4           | 1-Sep-26  | 4-Sep-26  | 6.2 FS                  | Built AI Elec                    |    |    |    | ≥ 200 lux task lighting                                           |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.6                             | 6.6  | 6 Electrical            | Bonding + earthing per BS 7671 Section 544                                    | 2           | 14-Sep-26 | 15-Sep-26 | 6.3 FS                  | Built AI Elec                    |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.7                             | 6.7  | 6 Electrical            | Apollo addressable fire-alarm loop extension (sub-let to existing maintainer) | 3           | 7-Sep-26  | 9-Sep-26  | 6.3 SS                  | Existing FA maintainer (sub-let) |    |    | ●  | Cause-and-effect witness-tested for fleet compatibility           |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 6.8                             | 6.8  | 6 Electrical            | Latching E-stop + small power + spurs                                         | 2           | 7-Sep-26  | 8-Sep-26  | 6.3 SS                  | Built AI Elec                    |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| PHASE 7 BMS (PC SUM)            |      |                         |                                                                               |             |           |           |                         |                                  |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 7.1                             | 7.1  | 7 BMS (PC Sum)          | MCP enclosure installation                                                    | 2           | 14-Sep-26 | 15-Sep-26 | 6.4 FS                  | BMS Specialist (PC Sum)          |    |    |    | Specialist appointed by GB at PC Sum drawdown                     |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 7.2                             | 7.2  | 7 BMS (PC Sum)          | BMS outstation install (54-point I/O — 32 AI + 3 AO + 14 DI + 5 DO)           | 3           | 16-Sep-26 | 18-Sep-26 | 7.1 FS                  | BMS Specialist (PC Sum)          |    |    | ●  |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 7.3                             | 7.3  | 7 BMS (PC Sum)          | Field sensors (PT1000 pockets, DP, external) + control valve install          | 3           | 21-Sep-26 | 23-Sep-26 | 7.2 FS                  | BMS Specialist (PC Sum)          |    |    | ●  |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 7.4                             | 7.4  | 7 BMS (PC Sum)          | BMS programming + Satchwell head-end integration                              | 5           | 21-Sep-26 | 25-Sep-26 | 7.2 FS                  | BMS Specialist (PC Sum)          |    |    |    | Cascade logic, weather comp, alarms, interlocks                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 7.5                             | 7.5  | 7 BMS (PC Sum)          | BMS Site Acceptance Testing + cause-and-effect verification                   | 3           | 28-Sep-26 | 30-Sep-26 | 7.4 FS, 7.3 FS          | BMS Specialist (PC Sum)          |    |    | ●  | ●                                                                 |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| PHASE 8 TESTING & COMMISSIONING |      |                         |                                                                               |             |           |           |                         |                                  |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.1                             | 8.1  | 8 Testing & Commissioni | Hydraulic pressure test (1.5 × WP, 2 hr hold)                                 | 2           | 21-Sep-26 | 22-Sep-26 | 5.9 FS                  | Built AI Mech                    |    |    | ●  | ●                                                                 | Witness optional; certified pressure-test report |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.2                             | 8.2  | 8 Testing & Commissioni | BSRIA BG 29/2020 chemical clean, flush + dose (with UKAS lab samples)         | 6           | 23-Sep-26 | 30-Sep-26 | 8.1 FS                  | Built AI + UKAS Lab              |    |    | ●  | ●                                                                 | Pre-clean and post-clean water samples           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.3                             | 8.3  | 8 Testing & Commissioni | Gas tightness + purge per IGEM/UP/1                                           | 2           | 21-Sep-26 | 22-Sep-26 | 5.3 FS                  | Built AI Gas Safe                |    |    | ●  | Gas Safe-certified report                                         |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.4                             | 8.4  | 8 Testing & Commissioni | Electrical inspection + test per BS 7671 Part 6                               | 3           | 21-Sep-26 | 23-Sep-26 | 6.4 FS, 6.6 FS          | Built AI NICEIC                  |    |    | ●  | EIC and Schedule of Test Results issued                           |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.5                             | 8.5  | 8 Testing & Commissioni | OEM commissioning — IDEAL agent attendance (4 wk notice required)             | 2           | 28-Sep-26 | 29-Sep-26 | 8.2 FS                  | IDEAL OEM                        |    |    | ●  | ●                                                                 | Cascade lead/lag, modulation, interlock witness  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.6                             | 8.6  | 8 Testing & Commissioni | OEM commissioning — Stokvis agent attendance                                  | 2           | 29-Sep-26 | 30-Sep-26 | 8.2 FS                  | Stokvis OEM                      |    |    | ●  | DHW PHE duty/flow/temp verification                               |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.7                             | 8.7  | 8 Testing & Commissioni | OEM commissioning — Flamco + Arrow agents                                     | 1           | 1-Oct-26  | 1-Oct-26  | 8.5 FS                  | Flamco / Arrow OEM               |    |    |    | PressDS + BTBS commissioning                                      |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.8                             | 8.8  | 8 Testing & Commissioni | Hydraulic balancing via FODRVs + commissioning sets                           | 2           | 1-Oct-26  | 2-Oct-26  | 8.5 FS                  | Built AI Comm Mgr                |    |    |    | Per BSRIA BG 2/2010                                               |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 8.9                             | 8.9  | 8 Testing & Commissioni | Witness commissioning session (10 WD notice)                                  | 2           | 5-Oct-26  | 6-Oct-26  | 8.8 FS, 7.5 FS          | Employer + Built AI              | ◆  | ●  | ●  | Boiler cascade, DHW peak, gas safety, BMS, Legionella, electrical |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               | ◆          |  |  |  |
| PHASE 9 HANDOVER                |      |                         |                                                                               |             |           |           |                         |                                  |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 9.1                             | 9.1  | 9 Handover              | Cut-over from GB temp boiler to new permanent cascade                         | 1           | 5-Oct-26  | 5-Oct-26  | 8.9 SS                  | Built AI + GB                    | ◆  | ●  | ●  | Shutdown Permit-to-Work; AP (Heating) sign-off                    |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |
| 9.2                             | 9.2  | 9 Handover              | GB de-mobilises temporary boiler plant (GB-led)                               | 3           | 6-Oct-26  | 8-Oct-26  | 9.1 FS                  | Grimshaw & Bolt                  |    |    |    |                                                                   |                                                  |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |  |  |  |

| B99 MALTHOUSE BLOCK BOILER HOUSE — DETAILED PROGRAMME (R0)                                                                               |      |            |                                                           |             |           |          |                |                          |    |    |     |                                                    |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
|------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----------------------------------------------------------|-------------|-----------|----------|----------------|--------------------------|----|----|-----|----------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|------------|
| Construction window: Mon 6 Jul 2026 — Fri 9 Oct 2026   14 weeks on-site   PC = 9 Oct 2026   Working Mon-Fri excl. UK Bank Hols           |      |            |                                                           |             |           |          |                |                          |    |    |     |                                                    |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| ● BUILT AI — BIDROOM IN A BOX™ — EXAMPLE OUTPUT — All client, site and project details are fictional and for illustration purposes only. |      |            |                                                           |             |           |          |                |                          |    |    |     |                                                    |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| ID                                                                                                                                       | WBS  | Phase      | Activity Description                                      | Dur(W<br>D) | Start     | Finish   | Predecessor    | Resource                 | MS | HP | CP  | Notes                                              | P0<br>W-7 | P0<br>W-6 | P0<br>W-5 | P0<br>W-4 | P0<br>W-3 | P0<br>W-2 | P0<br>W-1 | Mob<br>W0 | W1<br>06-Jul | W2<br>13-Jul | W3<br>20-Jul | W4<br>27-Jul | W5<br>03-Aug | W6<br>10-Aug | W7<br>17-Aug | W8<br>24-Aug | W9<br>31-Aug | W10<br>07-Sep | W11<br>14-Sep | W12<br>21-Sep | W13<br>28-Sep | W14<br>05-Oct | Post<br>PC |
| 9.3                                                                                                                                      | 9.3  | 9 Handover | As-built documentation pack (CAD + PDF)                   | 4           | 5-Oct-26  | 8-Oct-26 | 8.9 SS         | Built AI PM              |    |    |     |                                                    |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| 9.4                                                                                                                                      | 9.4  | 9 Handover | BSRIA BG 1/2007 O&M manuals — final issue                 | 2           | 7-Oct-26  | 8-Oct-26 | 9.3 SS         | Built AI PM              |    |    |     | Bound + PDF issued                                 |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| 9.5                                                                                                                                      | 9.5  | 9 Handover | Kettlewick College Estates training (2 × 4-hour sessions) | 2           | 7-Oct-26  | 8-Oct-26 | 8.9 FS         | Built AI PM + Comm       |    |    | ●   | Video-recorded with consent                        |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| 9.6                                                                                                                                      | 9.6  | 9 Handover | Joint handover inspection + snagging                      | 1           | 9-Oct-26  | 9-Oct-26 | 9.4 FS, 9.5 FS | Employer + GB + Built AI |    |    | ● ● | Snagging list to be resolved within 2 wks          |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| 9.7                                                                                                                                      | 9.7  | 9 Handover | MILESTONE: PRACTICAL COMPLETION                           |             | 9-Oct-26  | 9-Oct-26 | 9.6 FS         | Employer / GB            | ◆  |    | ● ● | DLP commences; manufacturer warranties registered  |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               | ◆             |            |
| PHASE 10 POST-PC                                                                                                                         |      |            |                                                           |             |           |          |                |                          |    |    |     |                                                    |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| 10.1                                                                                                                                     | 10.1 | 10 Post-PC | Defects Liability Period (12 months from PC)              | 260         | 12-Oct-26 | 8-Oct-27 | 9.7 FS         | Built AI / Employer      |    |    |     | Routine 5 WD; urgent NWD; emergency 24 hr response |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               |               |            |
| 10.2                                                                                                                                     | 10.2 | 10 Post-PC | BMS summer / seasonal commissioning revisit               | 1           | 1-Feb-27  | 1-Feb-27 | 9.7 FS         | BMS Specialist (PC Sum)  | ◆  |    |     | PC + ~16 weeks; included in Section E              |           |           |           |           |           |           |           |           |              |              |              |              |              |              |              |              |              |               |               |               |               | ◆             |            |

| LEGEND               |                    |                        |                          |
|----------------------|--------------------|------------------------|--------------------------|
| ◆ Milestone          | ● Hold-Point       | ● Critical Path        | Phase 0 Pre-Construction |
| Phase 1 Mobilisation | Phase 2 Strip-Out  | Phase 3 Builders' Work | Phase 4 Lift-In          |
| Phase 5 Mech & PH    | Phase 6 Electrical | Phase 7 BMS (PC Sum)   | Phase 8 T&C              |
| Phase 9 Handover     | Phase 10 Post-PC   |                        |                          |

# B99 MALTHOUSE BLOCK BOILER HOUSE — KEY INTERFACES & HOLD-POINTS

Companion to Detailed Programme — single-page register of milestones, hold-points and critical interfaces with notice periods.

• BUILT AI — BIDROOM IN A BOX™ — EXAMPLE OUTPUT — All client, site and project details are fictional and for illustration purposes only.

## 1. MAJOR MILESTONES

| ID   | Description                          | Date      | Responsible Party          | Notice Period       | Deliverable                   |
|------|--------------------------------------|-----------|----------------------------|---------------------|-------------------------------|
| ◆ M1 | Letter of Intent / Contract Award    | 11-May-26 | Grimshaw & Bolt / Client   | —                   | Triggers procurement          |
| ◆ M2 | IDEAL Cascade Order Placement        | 29-May-26 | Built AI Procurement       | —                   | Locks pre-31-May IDEAL price  |
| ◆ M3 | Cert. of Reoccupation issued by LARC | 17-Jul-26 | LARC (by others)           | Confirm at week-of  | Pre-condition for strip-out   |
| ◆ M4 | Heavy-Plant Lift-In begins           | 17-Aug-26 | Built AI Mech + Crane      | 2 wks crane booking | Plant in position             |
| ◆ M5 | Hydraulic Pressure Test complete     | 22-Sep-26 | Built AI Mech              | —                   | Pressure-test certificate     |
| ◆ M6 | Witness Commissioning Session        | 5-Oct-26  | Employer + Built AI        | 10 WD               | Witness sign-off              |
| ◆ M7 | Cut-over to new permanent cascade    | 5-Oct-26  | Built AI + GB (AP Heating) | Permit-to-Work      | Heat continuity confirmed     |
| ◆ M8 | PRACTICAL COMPLETION                 | 9-Oct-26  | Employer / GB              | —                   | PC Certificate; DLP commences |
| ◆ M9 | Seasonal commissioning revisit       | 1-Feb-27  | BMS Specialist (PC Sum)    | —                   | Seasonal report to Employer   |

## 2. QUALITY HOLD-POINTS (Inspect-and-Approve)

| Ref   | Description                                           | Date / When | Responsible Party  | Notice Period   | Deliverable               |
|-------|-------------------------------------------------------|-------------|--------------------|-----------------|---------------------------|
| ● HP1 | Stage 4a confirmatory survey verification report      | 10-Jul-26   | Built AI PM + Eng  | —               | Verification report to CA |
| ● HP2 | Plinth concrete cure to lift-in strength              | 14-Aug-26   | Built AI BWIC      | 7-day cure test | Concrete-strength record  |
| ● HP3 | Skylight reinstate hose test                          | 21-Aug-26   | Built AI BWIC      | —               | Hose-test record          |
| ● HP4 | LV sub-main installation — AP (Electrical) attendance | 26-Aug-26   | Built AI Elec + AP | 1 wk            | AP sign-off               |

|   |      |                                                 |           |                            |         |                                |
|---|------|-------------------------------------------------|-----------|----------------------------|---------|--------------------------------|
| ● | HP5  | Gas pipework — Gas Safe certification           | 4-Sep-26  | Built AI Gas Safe          | —       | Gas Safe certificate           |
| ● | HP6  | Flue smoke test                                 | 28-Aug-26 | Specialist flue contractor | —       | Smoke-test report              |
| ● | HP7  | Apollo fire alarm cause-and-effect witness test | 9-Sep-26  | Existing FA maintainer     | 1 wk    | C&E witness sign-off           |
| ● | HP8  | BMS Site Acceptance Testing                     | 30-Sep-26 | BMS Specialist (PC Sum)    | —       | SAT records pack               |
| ● | HP9  | Hydraulic pressure test                         | 22-Sep-26 | Built AI Mech              | —       | Pressure-test certificate      |
| ● | HP10 | Chemical clean + UKAS lab samples               | 30-Sep-26 | Built AI + UKAS Lab        | —       | Pre/post sample analysis       |
| ● | HP11 | Gas tightness + purge per IGEM/UP/1             | 22-Sep-26 | Built AI Gas Safe          | —       | Gas Safe purge record          |
| ● | HP12 | Electrical inspection + test (BS 7671 Pt 6)     | 23-Sep-26 | Built AI NICEIC            | —       | EIC + Schedule of Test Results |
| ● | HP13 | OEM commissioning — IDEAL                       | 28-Sep-26 | IDEAL OEM                  | 4 weeks | Cascade commissioning record   |
| ● | HP14 | OEM commissioning — Stokvis                     | 29-Sep-26 | Stokvis OEM                | 2 weeks | PHE duty/flow/temp report      |
| ● | HP15 | Kettlewick College Estates training (2 × 4 hr)  | 7-Oct-26  | Built AI PM + Comm         | 1 wk    | Training records + video       |
| ● | HP16 | Joint handover inspection + snagging            | 9-Oct-26  | Employer + GB + Built AI   | 1 wk    | Snagging list                  |

| 3. CRITICAL INTERFACES WITH OTHER PARTIES |                                         |  |                     |                               |                                                                                    |                                       |
|-------------------------------------------|-----------------------------------------|--|---------------------|-------------------------------|------------------------------------------------------------------------------------|---------------------------------------|
| Ref                                       | Interface                               |  | Window              | Other Party                   | Built AI Action                                                                    | Risk if Slipped                       |
| ⇌ I1                                      | GB Construction Phase Plan + Site Rules |  | Pre-mobilisation    | Grimshaw & Bolt (PC)          | Issue Built AI RAMS / COSHH / CDP confirmation of Reoccupation                     | Cannot mobilise to site               |
| ⇌ I2                                      | GB-coordinated LARC asbestos works      |  | 7 Jun – 17 Jul 2026 | Grimshaw & Bolt / LARC        | Define hydraulic / electrical / BMS isolation permit application 5 WD pre-shutdown | Strip-out cannot start                |
| ⇌ I3                                      | GB-led temporary boiler installation    |  | 7 Jun – 10 Jul 2026 | Grimshaw & Bolt               |                                                                                    | No heat continuity to Malthouse Block |
| ⇌ I4                                      | AP (Heating) Shutdown Permit-to-Work    |  | Each cut-over       | Kettlewick College Estates AP |                                                                                    | Cannot disconnect existing            |
| ⇌ I5                                      | AP (Electrical) sub-main attendance     |  | 26-Aug-26           | Kettlewick College Estates AP | 1 wk notice; co-ordinate isolation                                                 | LV install delayed                    |

|   |     |                                         |              |                                  |                                        |                                 |
|---|-----|-----------------------------------------|--------------|----------------------------------|----------------------------------------|---------------------------------|
| ⇌ | I6  | BMS Specialist appointment (PC Sum)     | Pre-Week 10  | Grimshaw & Bolt / Specialist     | Provide interface points + design info | BMS slip pushes commissioning   |
| ⇌ | I7  | Existing FA maintainer (cause & effect) | 9-Sep-26     | Existing FA contractor           | Sub-let; coordinate witness test       | FA integration not certified    |
| ⇌ | I8  | OEM commissioning agents                | Weeks 12–13  | IDEAL / Stokvis / Flamco / Arrow | Book attendances 2–4 wks ahead         | Witness commissioning slips     |
| ⇌ | I9  | Witness commissioning — Employer        | 5–6 Oct 2026 | Employer / Contract Admin        | 10 WD notice                           | PC at risk                      |
| ⇌ | I10 | GB de-mobilisation of temp boiler       | 6–8 Oct 2026 | Grimshaw & Bolt                  | Coordinate cut-over sequencing         | Permanent plant cannot run live |

| 4. NOTICE PERIODS — QUICK REFERENCE |                 |                    |                                 |  |
|-------------------------------------|-----------------|--------------------|---------------------------------|--|
| Trigger                             | Notice Required | To Whom            | Source                          |  |
| VM commission                       | 4 weeks         | DEAL Commercial    | Tender Section 8.4 §10.3        |  |
| amco / Arrow                        | 2 weeks         | Respective OEM     | Tender Section 8.4 §10.3        |  |
| ss commissior                       | 10 Working Days | Employer / CA      | Tender Section 8.4 §10.4        |  |
| mit-to-Work                         | 5 Working Days  | Illege AP (Heatin  | Kettlewick College Safety Rules |  |
| / lifting attend                    | 2 weeks         | Crane contractor   | Industry standard               |  |
| FA maintainer                       | 1 week          | maintainer's offic | Sub-let agreement               |  |
| cialist appointi                    | Pre-Week 10     | Grimshaw & Bolt    | PC Sum drawdown                 |  |



| MS PROJECT IMPORT — DATA TABLE WITH NATIVE FIELD HEADERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                            |               |      |          |           |           |              |                          |           |                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|------|----------|-----------|-----------|--------------|--------------------------|-----------|-----------------------------------------------------------------------------------------|
| HOW TO IMPORT INTO MS PROJECT: (1) In MS Project, File → Open → browse to this workbook → File Type = 'Excel Workbook (*.xlsx)'. (2) Choose 'Import' and step through the Import Wizard. (3) Select 'New Map'. (4) Select 'Tasks' as the data type and tick 'Import includes headers'. (5) Select this sheet ('MS Project Import') as the source. (6) MS Project will auto-map Task Name, Duration, Start, Finish, Predecessors, Resource Names, Outline Level, WBS, Notes — verify and click Finish. ALTERNATIVE METHOD: Copy rows 5 onwards (excluding the header row 4) and paste-special into MS Project's Gantt Chart view, ensuring column order matches. NOTES: Phase rows are at Outline Level 1 (summary tasks); activity rows at Outline Level 2. Predecessor IDs reference the 'ID' column of THIS sheet (not the Activity ID). Milestones have Duration = '0 days'. |                                                                                            |               |      |          |           |           |              |                          |           |                                                                                         |
| • BUILT AI — BIDROOM IN A BOX™ — EXAMPLE OUTPUT — All client, site and project details are fictional and for illustration purposes only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                            |               |      |          |           |           |              |                          |           |                                                                                         |
| ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Task Name                                                                                  | Outline Level | WBS  | Duration | Start     | Finish    | Predecessors | Resource Names           | Milestone | Notes                                                                                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PHASE 0 Pre-Construction                                                                   | 1             | 1    |          | 5/11/2026 | 7/17/2026 |              |                          | No        |                                                                                         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Letter of Intent / contract award (precedence to Built AI)                                 | 2             | 1.1  | 1 days   | 5/11/2026 | 5/11/2026 |              | Grimshaw & Bolt;Client   | Yes       | Triggers all subsequent procurement and design freeze                                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pre-construction submittals — RAMS, COSHH, CDP design                                      | 2             | 1.2  | 9 days   | 5/12/2026 | 5/22/2026 | 2FS          | Built AI PM              | No        | Issued to Grimshaw & Bolt for inclusion in CPP                                          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IDEAL EVO Max 2 cascade order placement (pre 31-May to lock pricing)                       | 2             | 1.3  | 1 days   | 5/29/2026 | 5/29/2026 | 3FS          | Built AI Procurement     | Yes       | Locks in pre 3.5% rise; OEM lead time ~8-10 wks                                         |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Stokvis DHW (×2) + heating PHE order placement                                             | 2             | 1.4  | 1 days   | 5/29/2026 | 5/29/2026 | 3FS          | Built AI Procurement     | No        | Lead time ~6-8 wks                                                                      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Thermal store (×3) order placement                                                         | 2             | 1.5  | 1 days   | 5/29/2026 | 5/29/2026 | 3FS          | Built AI Procurement     | No        | Lead time ~6-8 wks; PD 5500 Cat 3 carbon steel                                          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Twin-wall flue 4-hr FR system order placement                                              | 2             | 1.6  | 1 days   | 5/29/2026 | 5/29/2026 | 3FS          | Built AI Procurement     | No        | Lead time ~4-6 wks                                                                      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Albion Valves take-off order via SBS Cambridge                                             | 2             | 1.7  | 1 days   | 5/29/2026 | 5/29/2026 | 3FS          | Built AI Procurement     | No        | Per SBS Quote 18-SQ0023969 Ver 1, DWG 06642P-SDS-XX-XX-SC-M-6000-01                     |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LARC asbestos removal works (GB-coordinated, precedence-only)                              | 2             | 1.8  | 15 days  | 6/29/2026 | 7/17/2026 |              | LARC (by others)         | No        | 3-week campaign per SOCOTEC 257744-1004563; Cert of Reoccupation = handover to Built AI |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GB temporary boiler installation + commissioning (GB-led)                                  | 2             | 1.9  | 10 days  | 6/29/2026 | 7/10/2026 |              | Grimshaw & Bolt          | No        | Required before existing plant strip-out                                                |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MILESTONE: Cert of Reoccupation issued by LARC                                             | 2             | 1.10 | 0 days   | 7/17/2026 | 7/17/2026 | 9FF          | LARC;GB                  | Yes       | Pre-condition for Phase 2 strip-out                                                     |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHASE 1 Mobilisation                                                                       | 1             | 2    |          | 6/29/2026 | 7/10/2026 |              |                          | No        |                                                                                         |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GB-administered site induction + RAMS submission                                           | 2             | 2.1  | 1 days   | 6/29/2026 | 6/29/2026 | 3FS          | Built AI site team       | No        | All Built AI operatives inducted under GB CPP                                           |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Site setup integration with GB PC establishment                                            | 2             | 2.2  | 2 days   | 6/30/2026 | 7/1/2026  | 13FS         | Built AI Site Supervisor | No        | Tool storage, RAMS posting, Kettlewick College parking                                  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stage 4a confirmatory surveys (dimensional, gas, LV, flue, B2 Risk-Tracker)                | 2             | 2.3  | 5 days   | 7/6/2026  | 7/10/2026 | 14FS         | Built AI PM + Eng        | No        | Verification report to Contract Administrator                                           |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHASE 2 Strip-Out                                                                          | 1             | 3    |          | 7/20/2026 | 8/7/2026  |              |                          | No        |                                                                                         |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Hydraulic isolation, drain-down + cap-off retained tie-ins                                 | 2             | 3.1  | 2 days   | 7/20/2026 | 7/21/2026 | 11FS,10FS    | Built AI Mech            | No        | After Cert of Reoccupation; GB temp boiler in service                                   |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remove 5 × Wessex atmospheric cast-iron boilers                                            | 2             | 3.2  | 5 days   | 7/22/2026 | 7/28/2026 | 17FS         | Built AI Mech (×3)       | No        | Lift-out via skylight position                                                          |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remove 2 × Hamworthy DR-LP 60 G + DR-LA 95 G DHW generators                                | 2             | 3.3  | 2 days   | 7/29/2026 | 7/30/2026 | 18FS         | Built AI Mech (×2)       | No        |                                                                                         |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remove 2 × Nalco buffer / dosing vessels                                                   | 2             | 3.4  | 1 days   | 7/31/2026 | 7/31/2026 | 19FS         | Built AI Mech (×2)       | No        |                                                                                         |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remove existing MCP and associated control wiring                                          | 2             | 3.5  | 1 days   | 8/3/2026  | 8/3/2026  | 20FS         | Built AI Elec            | No        |                                                                                         |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strip-out redundant pipework, valves, supports, insulation                                 | 2             | 3.6  | 4 days   | 8/4/2026  | 8/7/2026  | 21FS         | Built AI Mech (×3)       | No        |                                                                                         |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Disposal via GB waste route (run-time activity)                                            | 2             | 3.7  | 15 days  | 7/20/2026 | 8/7/2026  | 17SS         | GB;Built AI              | No        | Waste managed under GB site administration                                              |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHASE 3 Builders' Work                                                                     | 1             | 4    |          | 7/27/2026 | 8/14/2026 |              |                          | No        |                                                                                         |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Penetrations + EI 120 fire-stopping (BS 9999)                                              | 2             | 4.1  | 5 days   | 7/27/2026 | 7/31/2026 | 18SS         | Built AI BWIC            | No        | Parallel with strip-out for cleared areas                                               |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | New concrete plinth formation × 6 (cascade, 3-vessel TS, DHW PHEs, htg PHE, PressDS, BTBS) | 2             | 4.2  | 5 days   | 8/3/2026  | 8/7/2026  | 22SS         | Built AI BWIC            | No        | C32/40, A393 mesh top + bottom, ± 3 mm level                                            |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Skylight remove + store (preparation for lift-in)                                          | 2             | 4.3  | 1 days   | 8/10/2026 | 8/10/2026 | 26FS         | Built AI BWIC            | No        |                                                                                         |

|    |                                                                               |   |      |         |           |           |                     |                                  |     |                                                         |
|----|-------------------------------------------------------------------------------|---|------|---------|-----------|-----------|---------------------|----------------------------------|-----|---------------------------------------------------------|
| 28 | Sump pit formation (400 × 400 × 300 mm, ductile-iron grate)                   | 2 | 4.4  | 2 days  | 8/11/2026 | 8/12/2026 | 27FS                | Built AI BWIC                    | No  |                                                         |
| 29 | Chimney top repointing (lime mortar, scaffold-dependent)                      | 2 | 4.5  | 3 days  | 8/10/2026 | 8/12/2026 | 26FS                | Built AI BWIC                    | No  |                                                         |
| 30 | Services diversion below skylight zone                                        | 2 | 4.6  | 1 days  | 8/13/2026 | 8/13/2026 | 28FS                | Built AI Mech                    | No  |                                                         |
| 31 | Plinth concrete cure to lift-in strength                                      | 2 | 4.7  | 2 days  | 8/13/2026 | 8/14/2026 | 26FS                | -                                | No  | 7-day strength minimum before plant lift-in             |
| 32 | PHASE 4 Lift-In                                                               | 1 | 5    |         | 8/17/2026 | 8/21/2026 |                     |                                  | No  |                                                         |
| 33 | Lift-in IDEAL EVO Max 2 cascade (×3 boilers + cascade kit)                    | 2 | 5.1  | 1 days  | 8/17/2026 | 8/17/2026 | 27FS,31FS           | Crane + Built AI Mech            | Yes | Single-day operation; OEM-witnessed where possible      |
| 34 | Lift-in 3 × 2,000 L vertical thermal stores + steel support frame             | 2 | 5.2  | 1 days  | 8/18/2026 | 8/18/2026 | 33FS                | Crane + Built AI Mech            | No  |                                                         |
| 35 | Lift-in 2 × Stokvis Econoplate 700 kW DHW PHE skids                           | 2 | 5.3  | 1 days  | 8/19/2026 | 8/19/2026 | 34FS                | Crane + Built AI Mech            | No  |                                                         |
| 36 | Lift-in Stokvis 250 kW heating PHE skid + Flamco PressDS units (×2)           | 2 | 5.4  | 1 days  | 8/20/2026 | 8/20/2026 | 35FS                | Crane + Built AI Mech            | No  |                                                         |
| 37 | Lift-in Arrow Valves Boost-A-Break Tank Set                                   | 2 | 5.5  | 1 days  | 8/21/2026 | 8/21/2026 | 36FS                | Built AI Mech                    | No  |                                                         |
| 38 | Skylight reinstate + EPDM gasket + lead flashings + hose test                 | 2 | 5.6  | 1 days  | 8/21/2026 | 8/21/2026 | 37FS                | Built AI BWIC                    | No  | Hose test for weather-tightness                         |
| 39 | PHASE 5 Mech & PH                                                             | 1 | 6    |         | 8/17/2026 | 9/18/2026 |                     |                                  | No  |                                                         |
| 40 | Primary LTHW pipework — header to thermal store + boiler interconnect         | 2 | 6.1  | 15 days | 8/17/2026 | 9/4/2026  | 33SS                | Built AI Mech (×4)               | No  | BS EN 10255 black mild steel, flanged/socket-welded     |
| 41 | DHW primary, secondary + recirculation pipework                               | 2 | 6.2  | 12 days | 8/24/2026 | 9/9/2026  | 40SS,35FS           | Built AI Mech (×3)               | No  | To BS 6700 / BS EN 806                                  |
| 42 | Gas pipework (BS EN 10255) + Gas Safety Panel installation                    | 2 | 6.3  | 9 days  | 8/24/2026 | 9/4/2026  | 40SS                | Built AI Gas Safe                | No  | Includes SBS GSV065 solenoid + pressure-proving         |
| 43 | Twin-wall 4-hr FR flue installation + smoke test                              | 2 | 6.4  | 10 days | 8/17/2026 | 8/28/2026 | 33FS                | Specialist flue contractor       | No  | Through existing chimney void; pressure + smoke test    |
| 44 | Pump installation — Grundfos MAGNA3 D / MAGNA1 / AP50                         | 2 | 6.5  | 5 days  | 9/7/2026  | 9/11/2026 | 40FS                | Built AI Mech (×2)               | No  | Anti-vibration couplings, isolation, BMS interface      |
| 45 | Pressurisation units + expansion vessels (425L × 2 + 110L × 3)                | 2 | 6.6  | 3 days  | 9/7/2026  | 9/9/2026  | 40FS                | Built AI Mech (×2)               | No  | Flamco Flexfiller 225DS digital                         |
| 46 | Cold-water booster (BTBS) tie-in + WRAS Cat 5 backflow prevention             | 2 | 6.7  | 2 days  | 9/10/2026 | 9/11/2026 | 41FS                | Built AI Mech                    | No  |                                                         |
| 47 | Albion valve schedule install (butterflies, strainers, NRVs, comm sets)       | 2 | 6.8  | 12 days | 8/24/2026 | 9/9/2026  | 40SS                | Built AI Mech (×2)               | No  | Per Albion take-off DWG 06642P-SDS-XX-XX-SC-M-6000-01   |
| 48 | Insulation (F7 series) — 40mm phenolic foam + valve jackets                   | 2 | 6.9  | 5 days  | 9/14/2026 | 9/18/2026 | 40FS,41FS,42FS,47FS | Built AI Insulation Sub          | No  | BS 5422 minimum thicknesses                             |
| 49 | Condensate neutralisation + PH drainage to sump                               | 2 | 6.10 | 4 days  | 9/1/2026  | 9/4/2026  | 28FS                | Built AI Mech                    | No  |                                                         |
| 50 | PHASE 6 Electrical                                                            | 1 | 7    |         | 8/24/2026 | 9/16/2026 |                     |                                  | No  |                                                         |
| 51 | Sub-main installation from Malthouse Block main LV panel                      | 2 | 7.1  | 3 days  | 8/24/2026 | 8/26/2026 | 33FS                | Built AI Elec (×2)               | No  | LSZH-SWA <3% volt-drop; AP (Electrical) attendance      |
| 52 | Schneider Acti 9 12-Way 125 A TP&N DB installation                            | 2 | 7.2  | 2 days  | 8/27/2026 | 8/28/2026 | 51FS                | Built AI Elec                    | No  |                                                         |
| 53 | Containment (tray/basket/conduit) + cabling + terminations                    | 2 | 7.3  | 9 days  | 9/1/2026  | 9/11/2026 | 52FS                | Built AI Elec (×3)               | No  | BS EN 50174-2 segregation                               |
| 54 | Final connections to plant (G4 series, 1 hr per item refined)                 | 2 | 7.4  | 3 days  | 9/14/2026 | 9/16/2026 | 44FS,45FS,53FS      | Built AI Elec                    | No  |                                                         |
| 55 | LED task + BS 5266 emergency lighting installation                            | 2 | 7.5  | 4 days  | 9/1/2026  | 9/4/2026  | 52FS                | Built AI Elec                    | No  | ≥ 200 lux task lighting                                 |
| 56 | Bonding + earthing per BS 7671 Section 544                                    | 2 | 7.6  | 2 days  | 9/14/2026 | 9/15/2026 | 53FS                | Built AI Elec                    | No  |                                                         |
| 57 | Apollo addressable fire-alarm loop extension (sub-let to existing maintainer) | 2 | 7.7  | 3 days  | 9/7/2026  | 9/9/2026  | 53SS                | Existing FA maintainer (sub-let) | No  | Cause-and-effect witness-tested for fleet compatibility |
| 58 | Latching E-stop + small power + spurs                                         | 2 | 7.8  | 2 days  | 9/7/2026  | 9/8/2026  | 53SS                | Built AI Elec                    | No  |                                                         |
| 59 | PHASE 7 BMS (PC Sum)                                                          | 1 | 8    |         | 9/14/2026 | 9/30/2026 |                     |                                  | No  |                                                         |
| 60 | MCP enclosure installation                                                    | 2 | 8.1  | 2 days  | 9/14/2026 | 9/15/2026 | 54FS                | BMS Specialist (PC Sum)          | No  | Specialist appointed by GB at PC Sum drawdown           |
| 61 | BMS outstation install (54-point I/O — 32 AI + 3 AO + 14 DI + 5 DO)           | 2 | 8.2  | 3 days  | 9/16/2026 | 9/18/2026 | 60FS                | BMS Specialist (PC Sum)          | No  |                                                         |

|    |                                                                       |   |      |          |            |           |           |                          |     |                                                                   |
|----|-----------------------------------------------------------------------|---|------|----------|------------|-----------|-----------|--------------------------|-----|-------------------------------------------------------------------|
| 62 | Field sensors (PT1000 pockets, DP, external) + control valve install  | 2 | 8.3  | 3 days   | 9/21/2026  | 9/23/2026 | 61FS      | BMS Specialist (PC Sum)  | No  |                                                                   |
| 63 | BMS programming + Satchwell head-end integration                      | 2 | 8.4  | 5 days   | 9/21/2026  | 9/25/2026 | 61FS      | BMS Specialist (PC Sum)  | No  | Cascade logic, weather comp, alarms, interlocks                   |
| 64 | BMS Site Acceptance Testing + cause-and-effect verification           | 2 | 8.5  | 3 days   | 9/28/2026  | 9/30/2026 | 63FS,62FS | BMS Specialist (PC Sum)  | No  |                                                                   |
| 65 | PHASE 8 Testing & Commissioning                                       | 1 | 9    |          | 9/21/2026  | 10/6/2026 |           |                          | No  |                                                                   |
| 66 | Hydraulic pressure test (1.5 × WP, 2 hr hold)                         | 2 | 9.1  | 2 days   | 9/21/2026  | 9/22/2026 | 48FS      | Built AI Mech            | No  | Witness optional; certified pressure-test report                  |
| 67 | BSRIA BG 29/2020 chemical clean, flush + dose (with UKAS lab samples) | 2 | 9.2  | 6 days   | 9/23/2026  | 9/30/2026 | 66FS      | Built AI + UKAS Lab      | No  | Pre-clean and post-clean water samples                            |
| 68 | Gas tightness + purge per IGEM/UP/1                                   | 2 | 9.3  | 2 days   | 9/21/2026  | 9/22/2026 | 42FS      | Built AI Gas Safe        | No  | Gas Safe-certified report                                         |
| 69 | Electrical inspection + test per BS 7671 Part 6                       | 2 | 9.4  | 3 days   | 9/21/2026  | 9/23/2026 | 54FS,56FS | Built AI NICEIC          | No  | EIC and Schedule of Test Results issued                           |
| 70 | OEM commissioning — IDEAL agent attendance (4 wk notice required)     | 2 | 9.5  | 2 days   | 9/28/2026  | 9/29/2026 | 67FS      | IDEAL OEM                | No  | Cascade lead/lag, modulation, interlock witness                   |
| 71 | OEM commissioning — Stokvis agent attendance                          | 2 | 9.6  | 2 days   | 9/29/2026  | 9/30/2026 | 67FS      | Stokvis OEM              | No  | DHW PHE duty/flow/temp verification                               |
| 72 | OEM commissioning — Flamco + Arrow agents                             | 2 | 9.7  | 1 days   | 10/1/2026  | 10/1/2026 | 70FS      | Flamco;Arrow OEM         | No  | PressDS + BTBS commissioning                                      |
| 73 | Hydraulic balancing via FODRVs + commissioning sets                   | 2 | 9.8  | 2 days   | 10/1/2026  | 10/2/2026 | 70FS      | Built AI Comm Mgr        | No  | Per BSRIA BG 2/2010                                               |
| 74 | Witness commissioning session (10 WD notice)                          | 2 | 9.9  | 2 days   | 10/5/2026  | 10/6/2026 | 73FS,64FS | Employer + Built AI      | Yes | Boiler cascade, DHW peak, gas safety, BMS, Legionella, electrical |
| 75 | PHASE 9 Handover                                                      | 1 | 10   |          | 10/5/2026  | 10/9/2026 |           |                          | No  |                                                                   |
| 76 | Cut-over from GB temp boiler to new permanent cascade                 | 2 | 10.1 | 1 days   | 10/5/2026  | 10/5/2026 | 74SS      | Built AI + GB            | Yes | Shutdown Permit-to-Work; AP (Heating) sign-off                    |
| 77 | GB de-mobilises temporary boiler plant (GB-led)                       | 2 | 10.2 | 3 days   | 10/6/2026  | 10/8/2026 | 76FS      | Grimshaw & Bolt          | No  |                                                                   |
| 78 | As-built documentation pack (CAD + PDF)                               | 2 | 10.3 | 4 days   | 10/5/2026  | 10/8/2026 | 74SS      | Built AI PM              | No  |                                                                   |
| 79 | BSRIA BG 1/2007 O&M manuals — final issue                             | 2 | 10.4 | 2 days   | 10/7/2026  | 10/8/2026 | 78SS      | Built AI PM              | No  | Bound + PDF issued                                                |
| 80 | Kettlewick College Estates training (2 × 4-hour sessions)             | 2 | 10.5 | 2 days   | 10/7/2026  | 10/8/2026 | 74FS      | Built AI PM + Comm       | No  | Video-recorded with consent                                       |
| 81 | Joint handover inspection + snagging                                  | 2 | 10.6 | 1 days   | 10/9/2026  | 10/9/2026 | 79FS,80FS | Employer + GB + Built AI | No  | Snagging list to be resolved within 2 wks                         |
| 82 | MILESTONE: PRACTICAL COMPLETION                                       | 2 | 10.7 | 0 days   | 10/9/2026  | 10/9/2026 | 81FS      | Employer;GB              | Yes | DLP commences; manufacturer warranties registered                 |
| 83 | PHASE 10 Post-PC                                                      | 1 | 11   |          | 10/12/2026 | 10/8/2027 |           |                          | No  |                                                                   |
| 84 | Defects Liability Period (12 months from PC)                          | 2 | 11.1 | 260 days | 10/12/2026 | 10/8/2027 | 82FS      | Built AI;Employer        | No  | Routine 5 WD; urgent NWD; emergency 24 hr response                |
| 85 | BMS summer / seasonal commissioning revisit                           | 2 | 11.2 | 1 days   | 2/1/2027   | 2/1/2027  | 82FS      | BMS Specialist (PC Sum)  | Yes | PC + ~16 weeks; included in Section E                             |

Total rows: 85 (11 phase summaries + 74 activities). This sheet is the authoritative MS Project import source — keep in sync with 'Detailed Programme' tab.