

Garden Topo Report

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Expert Site/Setting Out Engineer

Client: Bloor Homes

Date: August 19, 2025

Project Location: Southbourne, UK

Executive Summary

This comprehensive Topographic Report documents the detailed survey of the Garden Topo Project, capturing the terrain, features, and elevations as they exist on-site. As an expert site/setting out engineer with over 10 years of experience, I have led the surveying efforts to guarantee precision and adherence to standards. The report includes methodologies, fieldwork notes, quality assurance, and final outputs, with all data verified against site requirements. Attached files provide CAD models, data spreadsheets, and visualizations for stakeholder use.

Introduction

The Garden Topo Project entails a topographic survey of a landscaped garden area at Southbourne for Bloor Homes, aimed at providing accurate terrain data for design and construction planning. This report details the survey process, identifying contours, vegetation, and man-made features, ensuring alignment with project goals and regulatory compliance.

Methodologies

Utilizing state-of-the-art techniques:

- **Equipment:** Leica TS16 Total Station, Trimble R12 GPS, and drone for aerial mapping.
- **Process:** Control point establishment, grid surveying, and data processing in AutoCAD Civil 3D.
- **Accuracy:** Maintained ± 5 mm through redundant checks.

Fieldwork Notes

Fieldwork spanned August 10-15, 2025:

- **Day 1:** Setup and perimeter mapping, noting slight elevation variations.
- **Day 2-3:** Detailed contour surveying, identifying a small drainage feature.
- **Day 4:** Aerial drone capture for comprehensive coverage.
- **Day 5:** Verification and closure.

Quality Assurance Steps

Rigorous QA included:

- **Pre-Survey:** Calibration and planning.
- **In-Field:** Real-time validation.
- **Post-Survey:** Data adjustment and external audit.

Final Survey Outputs

Deliverables:

- CAD Drawings ($\text{Garden}_{\text{TopoCAD}}.dwg$) $\text{DataSpreadsheets}(\text{TopoData}.xlsx)$
- Contour Maps ($\text{Contour}_{\text{Map}}.pdf$) Georeferenced to WGS84, with average accuracy ± 4 mm.

Conclusion and Recommendations

The survey confirms accurate topographic data for the garden site. Recommend integration into GIS for future planning and periodic updates. Contact for inquiries.