CASE STUDY
INTEGRATED DELIVERY MODEL



NEC4 PSSC OUTPUT-BASED DELIVERY

Specialists embedded within the client's QMS, measured against defined outputs rather than time.

OVERVIEW

Magnus has been working with a tier-1 contractor to provide integrated engineering consultancy on a sensitive project across the North East, North West and Midlands.

The delivery model was structured under a NEC4 Professional Services Short Contract (PSSC), providing specialists embedded within the client's Quality Management System (QMS), measured against defined outputs rather than time.

THE CHALLENGE

The client required:
• Specialist engineering expertise not available through traditional and existing supply chain routes

A Risk-averse client, we negotiated on contract back and forth to provide adequate shared risk profile.

• A commercially compliant route to access self-employed consultants wtih the knowledge to advise on design, procurement and programme

• Improved alignment between Engineering, PM and Commercial delivery under over-arching contract

• Clear, auditable outputs to support Applications for Payment

THE MAGNUS SOLUTION

Magnus implemented an integrated delivery model under NEC4 PSSC, designed around:
• Defined scope and output measurement Selection Control using years of expertise in sector
• Operation fully within the client's QMS
• Independent daily diaries and geo-located photographic evidence
• Structured substantiation of payment applications

Key delivery principles:
• Paid on output, not time
• Work either accepted or rejected at AFP stage
• Early collaboration to define repeatable delivery processes
• Alignment of all parties to shared project goals and outcomes

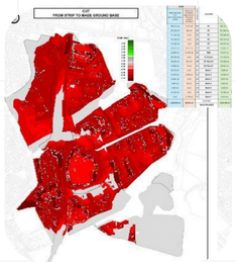
COMMERCIAL MODEL

Integrated Price Model:
• Consultants engaged on deliverable model
• Client contracted under service agreement
• Payment linked to defined outputs
If outputs not completed/to standard:
• Payment not certified
• Pay Less Notice issued
This created:
• Clear accountability
• Transparent value measurement
• Reduced commercial ambiguity

MAGNUS

DIGITAL ENGINEERING & VOLUME ASSURANCE





VALUE PROPOSITION

Magnus converts uncertain project data into clear, accurate, and commercially robust information—reducing risk and improving outcomes.

OVERVIEW

Magnus provides digital engineering services to deliver accurate quantities, reduce commercial risk, and improve project outcomes from tender through to delivery.

We transform design and survey data into clear, validated, and commercially reliable information.

CORE SERVICES

Volume Calculations & Quantification
- Bulk earthworks modelling (cut / fill)
- Topsoil strip and resoil volumes
- Hard material identification
- Material take-offs (Type 1, 6F2, etc.)
- Isopachyte drawings, zones & depth plans

Independent Data & Model Verification
- Design and survey model checks
- Validation of drawing vs model discrepancies
- Review of survey completeness
- Challenge of tender assumptions

Value Engineering
- Earthworks balance optimisation
- Reduction in off-site disposal costs
- Level adjustments and volume re-calculation
- Alternative construction depth modelling
- Scenario testing to reduce surplus or shortfall

DETAILED ANALYSIS & OUTPUTS

Detailed Project Analysis
- Made ground modelling
- Borrow pit calculations
- Stockpile analysis
- Cross-section modelling

Digital Collaboration & Visualisation
- 3D model visualisations
- Shareable 3D PDFs
- KMZ geospatial files

Construction-Ready Outputs
- XML models
- IFC files
- 3D solids
- Machine control files

CLIENT BENEFITS

- More accurate tender pricing
- Better control of quantities and assumptions
- Reduced risk of unforeseen costs
- Improved planning and coordination
- Greater confidence in project data

Delivery Approach
- Tailored to project stage and client requirements
- Flexible support from tender through delivery
- Integrated with commercial and project controls