



SMALL SCALE MAPPING

A Case Study



CHALLENGES:

- ▶ The project area was covered by forest which had lot of dirt roads with an undulating terrain which made us identifying the features hidden inside the thick forest more difficult.

INTRODUCTION:

The task involved compilation of DTM & Planimetric features with respect to photo scale of 1:20000.

KEY ASPECTS:

The key objective of this project was to digitize all Planimetric features and capture all DTM features with respect to photo scale of 1:20000. The data compiled would be used for city planning for future development.

The client's requirements from this project were:

- Digitization of all Planimetric features
- Compilation of DTM features
- 5 foot Contours

METHODOLOGY:

▶ Preprocessing

An assessment of the supplied inputs is done to ensure all images/aerotriangulation results are available to initiate the project. A project is Setup with the supplied exterior orientation parameters and the camera details and is validated against the Gcp's.

▶ Data Capture

Compilation of all DTM features like, Breaklines, Streams, Rivers for 5ft contour accuracy. Digitization of all planimetric like Roads, Unpaved Roads, Trails, Buildings, and tree outlines etc.

▶ Contours

The compiled DTM data is used to auto generate the contours at 5ft interval. The major contours were labeled accordingly. The depression contours were marked with the ticks.

▶ QC/QA

A QC checklist was prepared to assess the Editing quality. A random QA was performed to make sure the data was within the acceptance criteria.

TECHNOLOGY:

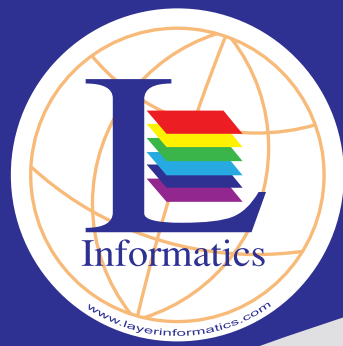
- ▶ Leica Photogrammetry Suite
- ▶ Microstation V8
- ▶ AutoCAD Map 2002
- ▶ Terra Model

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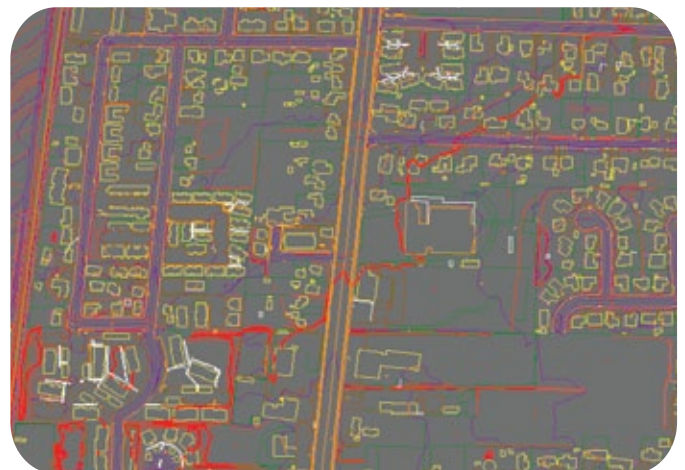
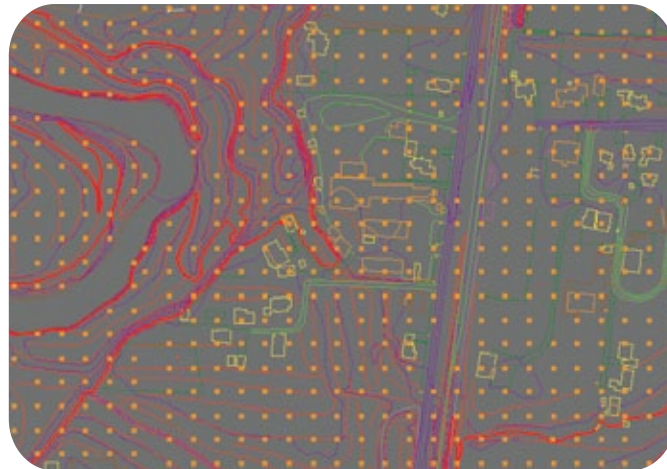
TESTIMONIALS:

We look forward to working with your firm again and the great work you have provided in the past.

APPLICATION:

- Disaster assessment
- Military Planning
- Geological Exploration
- Reclamation Projects
- Coastal Ecosystem Management

SCREEN SHOTS:



UK Office:

Edinburgh EH2 4AT,
Scotland, UK.

US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



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