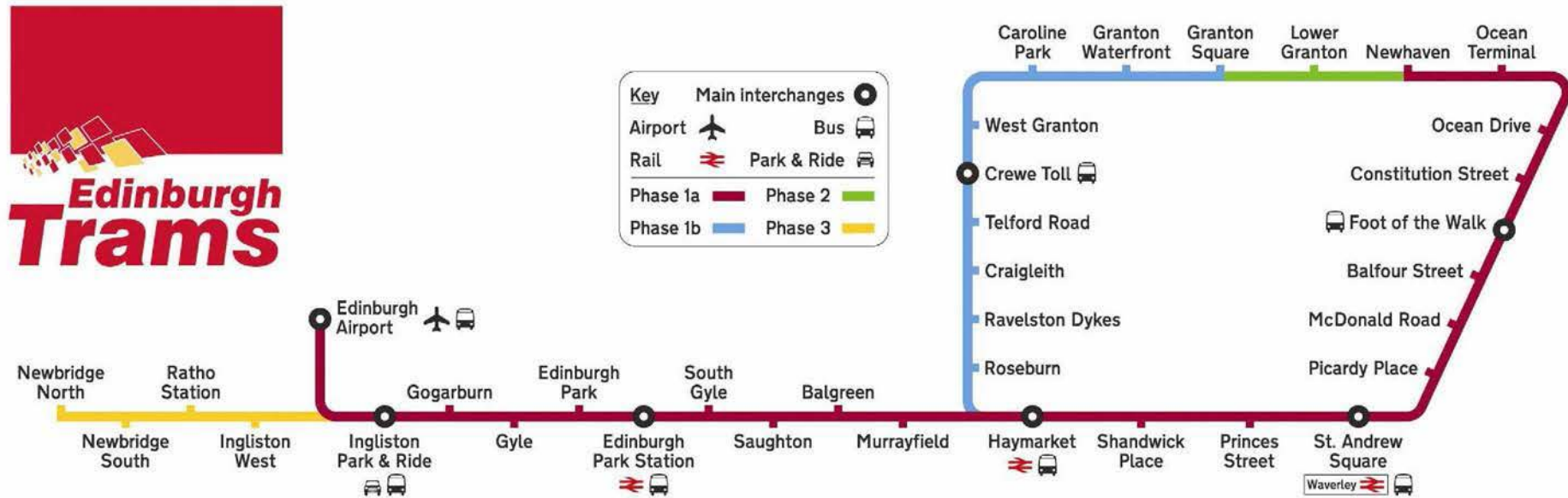




Edinburgh Tram Project
Programme and Update
24th April 2008

Edinburgh Trams - The route



- Total Length 24km
- 18.5km Phase 1a
- 5.5km Phase 1b
- Connects Edinburgh Airport to City Centre
- Links with development areas in north & west Edinburgh

Briefing

- **Update on**
 - **MUDFA – Progress**
 - **Contracts – Financial Close and Price**
 - **Construction Programme**
 - **Impact**
 - **Trackform**
 - **Business Support**
 - **Key Milestones**



MUDFA Update

- Diversion of all utilities
- Carillion takeover of AMIS
- Currently working in
 - Leith Walk
 - Constitution Street
 - St Andrew Square
 - Shandwick Place
 - Gyle
- Extend Working Week in key areas
- Budget on track
- Completion Dec 2008



The Contracts

- Complexity and scale
- Price £508m
- Impact of Euro
- Significant transfer of risk
- Fixed costs
- Within funding envelope of £545m
- Construction ends January 2011
- Full Revenue Service July 2011

The Contracts Who's Who

Construction Consortium (Infraco)

- **Bilfinger Berger Siemens**

Tram Manufacture (Tramco)

- **CAF (Novating to Infraco)**

Detailed Design

- **SDS (Novating to Infraco)**

Diversion of utilities (MUDFA)

- **Carillion (taken over AMIS)**

Tram Operator

- **Transdev Edinburgh Tram**

Programme

Integrated Construction Programme

MUDFA & INFRACO

Newhaven - Haymarket

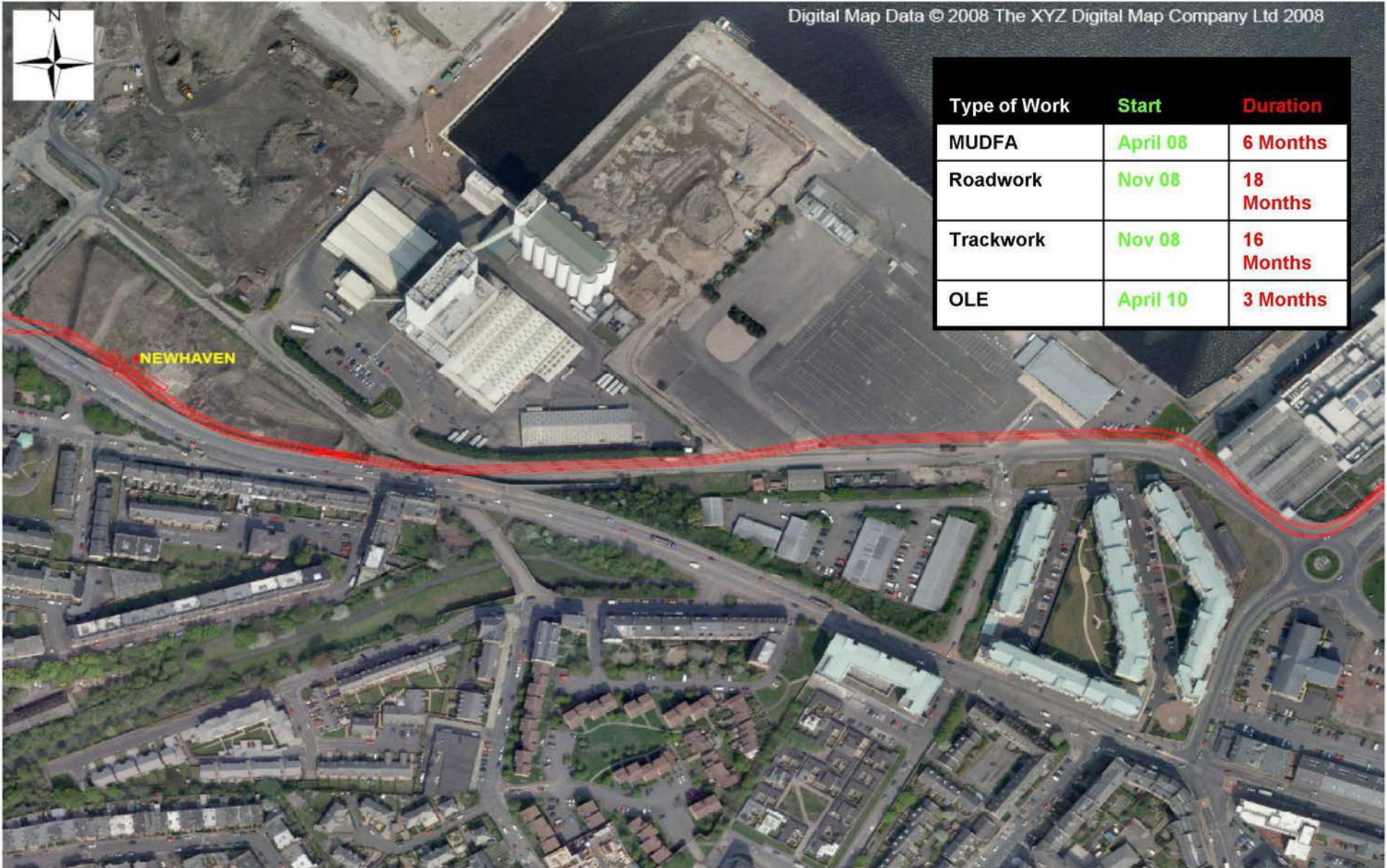
Edinburgh Trams - The route



Newhaven to Ocean Terminal



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Type of Work	Start	Duration
MUDFA	April 08	6 Months
Roadwork	Nov 08	18 Months
Trackwork	Nov 08	16 Months
OLE	April 10	3 Months

Ocean Terminal to Port of Leith



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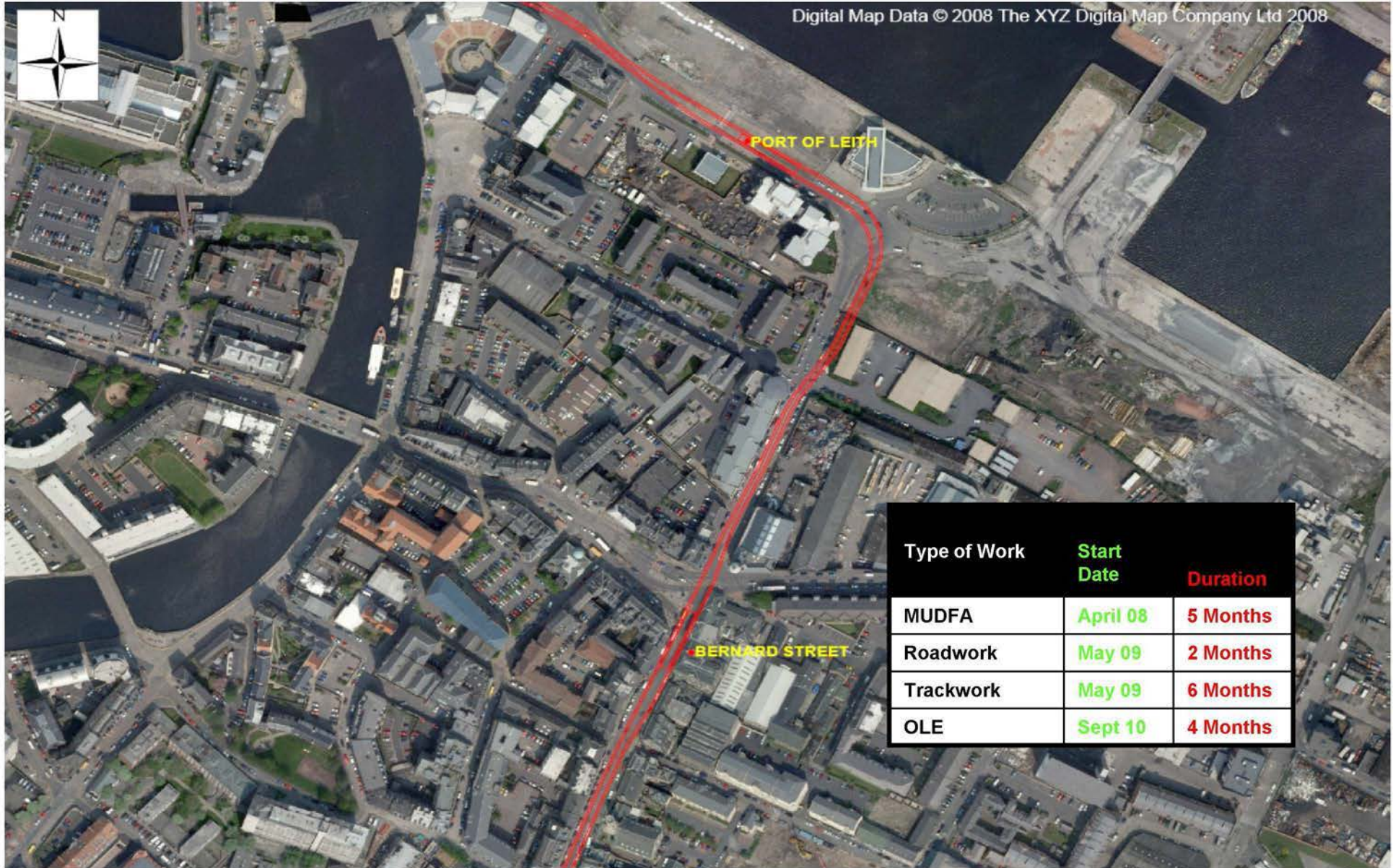


Type of Work	Start Date	Duration
MUDFA	April 07	17 Months
Roadwork	July 09	13 Months
Trackwork	July 09	13 Months
OLE	Sept 10	4 Months

Port of Leith to Bernard Street

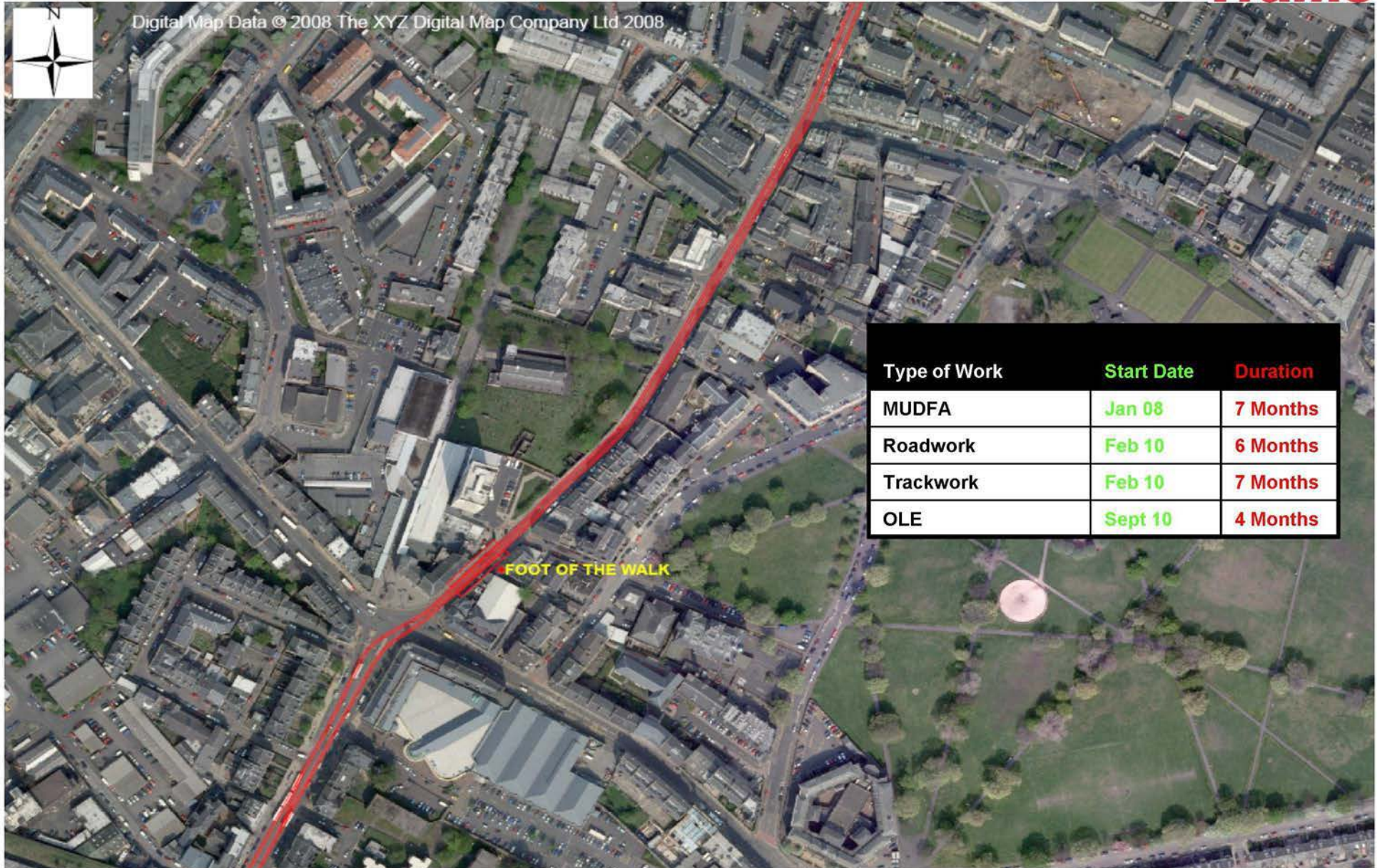


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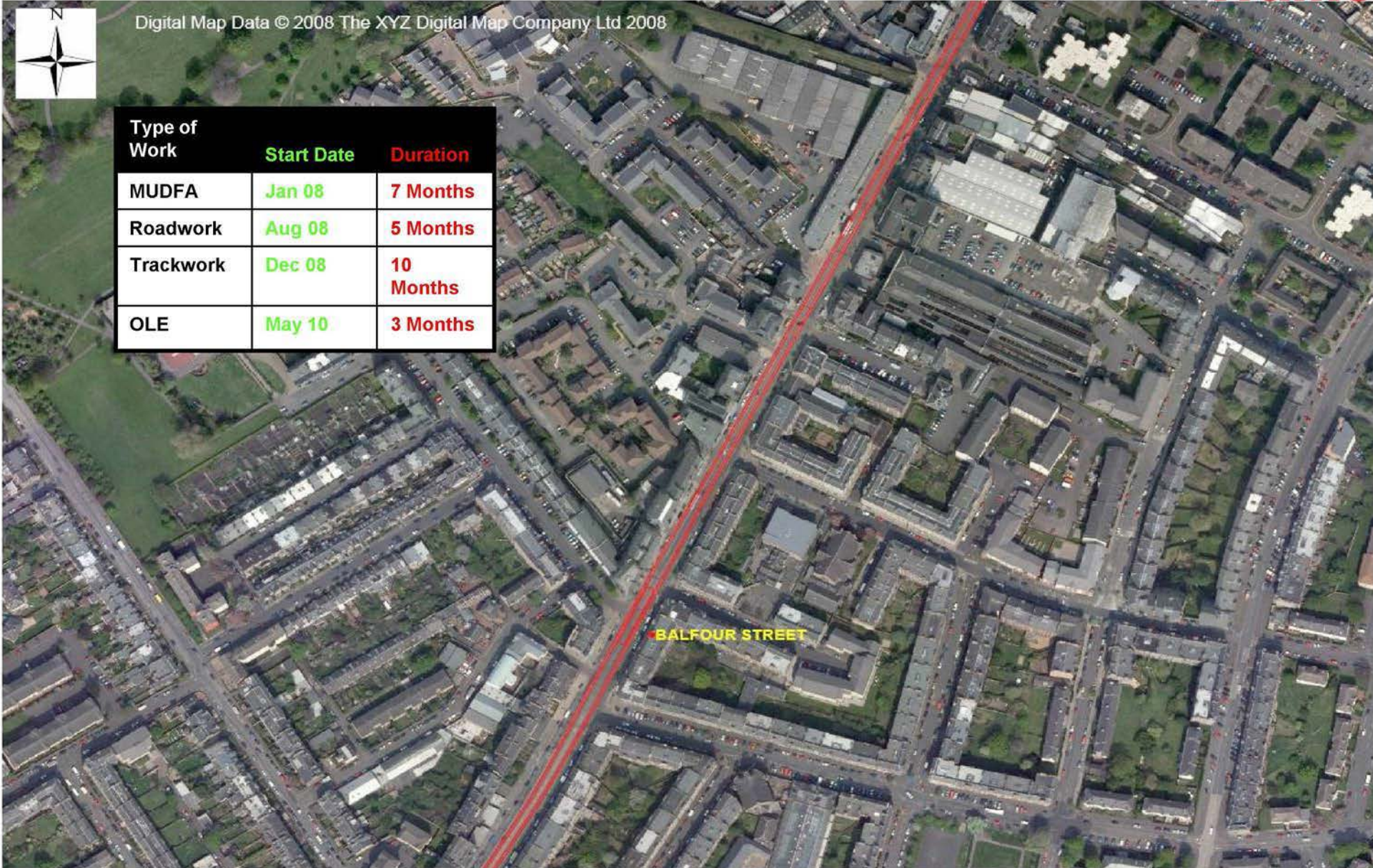


Type of Work	Start Date	Duration
MUDFA	April 08	5 Months
Roadwork	May 09	2 Months
Trackwork	May 09	6 Months
OLE	Sept 10	4 Months

Bernard Street to Foot of the Walk



Foot of the Walk to Balfour Street



Type of Work	Start Date	Duration
MUDFA	Jan 08	7 Months
Roadwork	Aug 08	5 Months
Trackwork	Dec 08	10 Months
OLE	May 10	3 Months

Balfour Street to McDonald Road



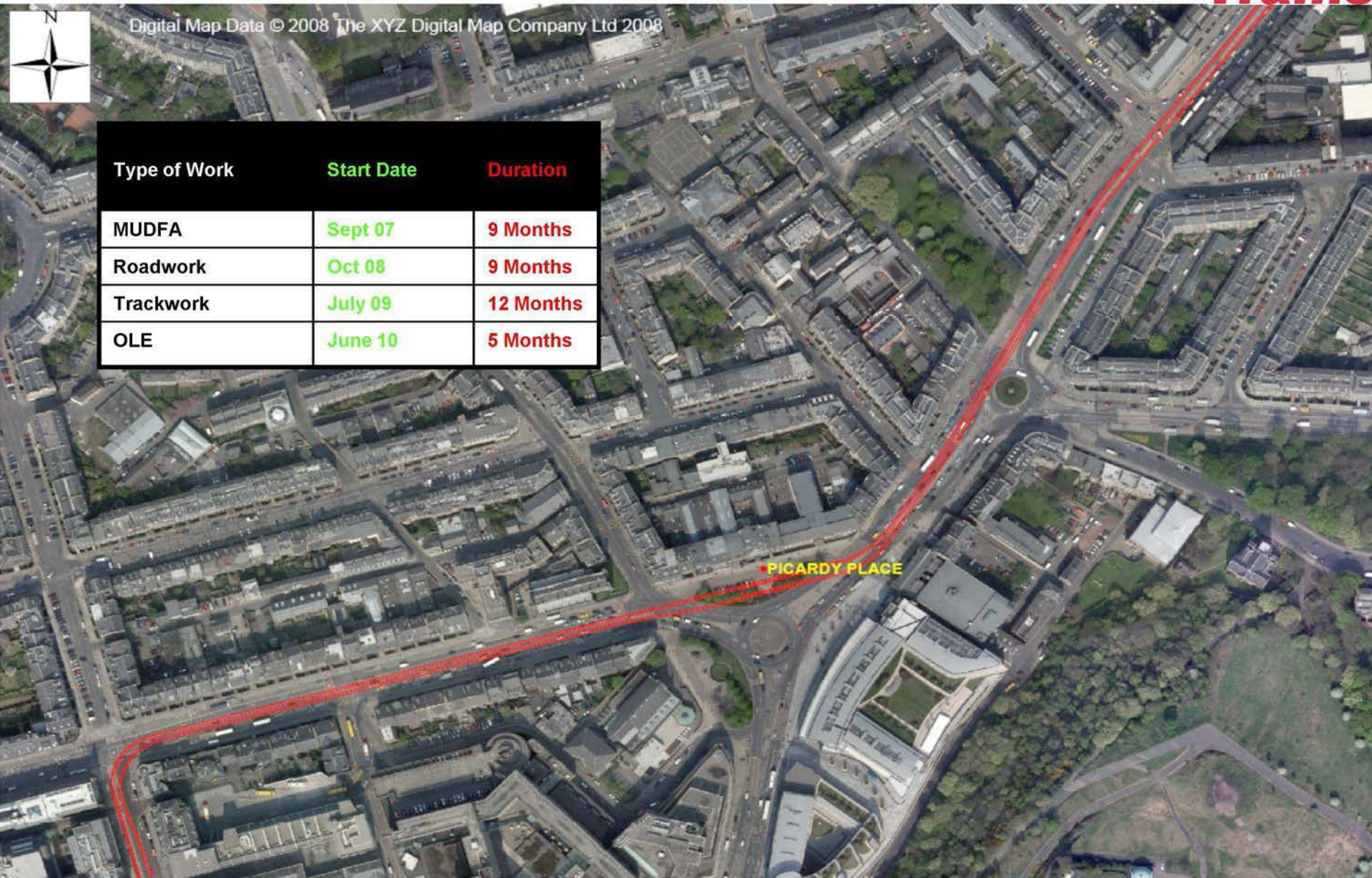
Type of Work	Start Date	Duration
MUDFA	Jan 08	6 Months
Roadwork	Dec 08	6 Months
Trackwork	Sept 09	11 Months
OLE	May 10	3 Months

McDonald Road to Picardy Place



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Type of Work	Start Date	Duration
MUDFA	Sept 07	9 Months
Roadwork	Oct 08	9 Months
Trackwork	July 09	12 Months
OLE	June 10	5 Months

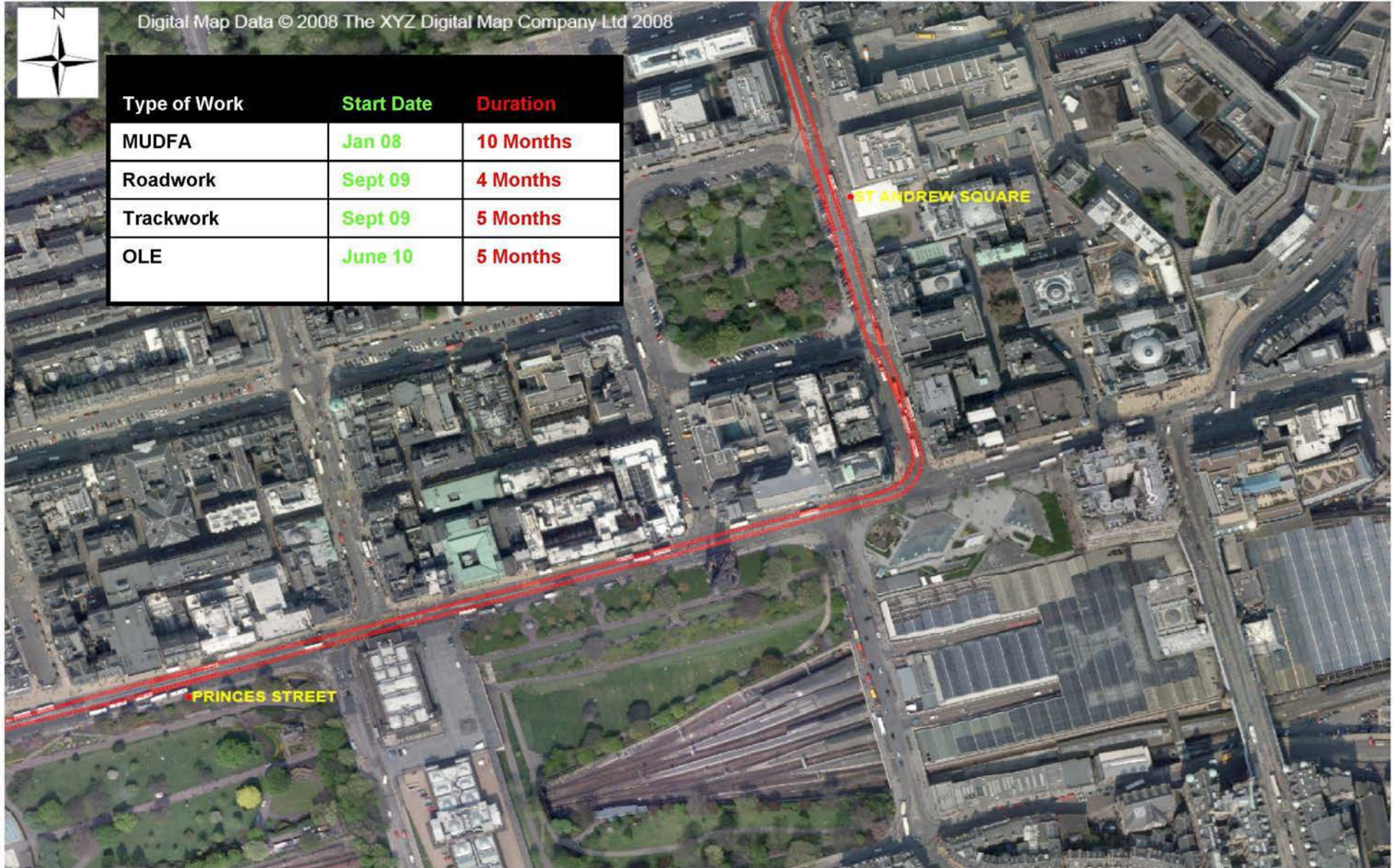


Picardy Place to St Andrew Square

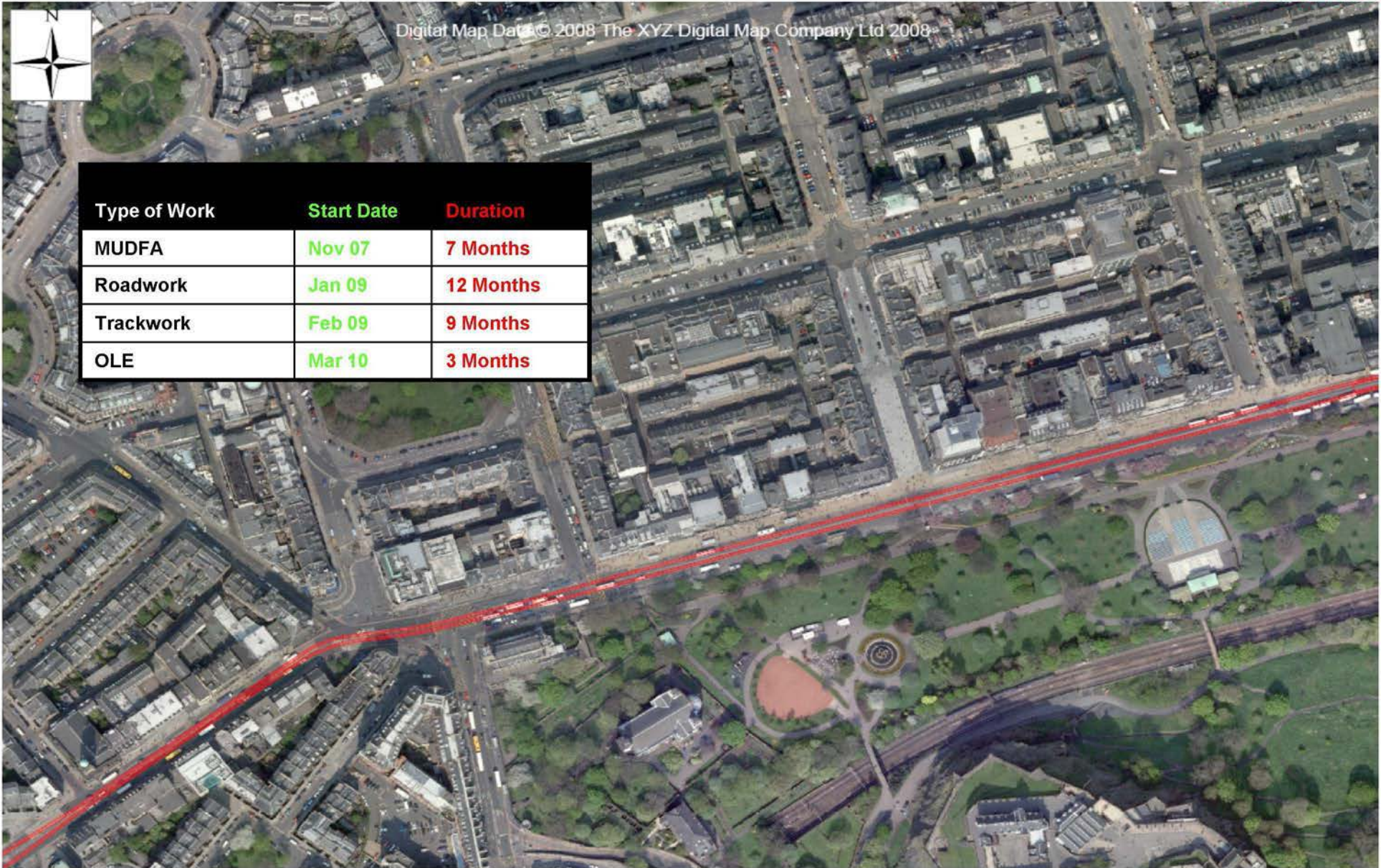


Type of Work	Start Date	Duration
MUDFA	June 08	4 Months
Roadwork	Jan 10	14 Months
Trackwork	Jan 10	9 Months
OLE	June 10	6 Months

St Andrew Square to Princes Street West



Princes Street West to Shandwick Place



Type of Work	Start Date	Duration
MUDFA	Nov 07	7 Months
Roadwork	Jan 09	12 Months
Trackwork	Feb 09	9 Months
OLE	Mar 10	3 Months

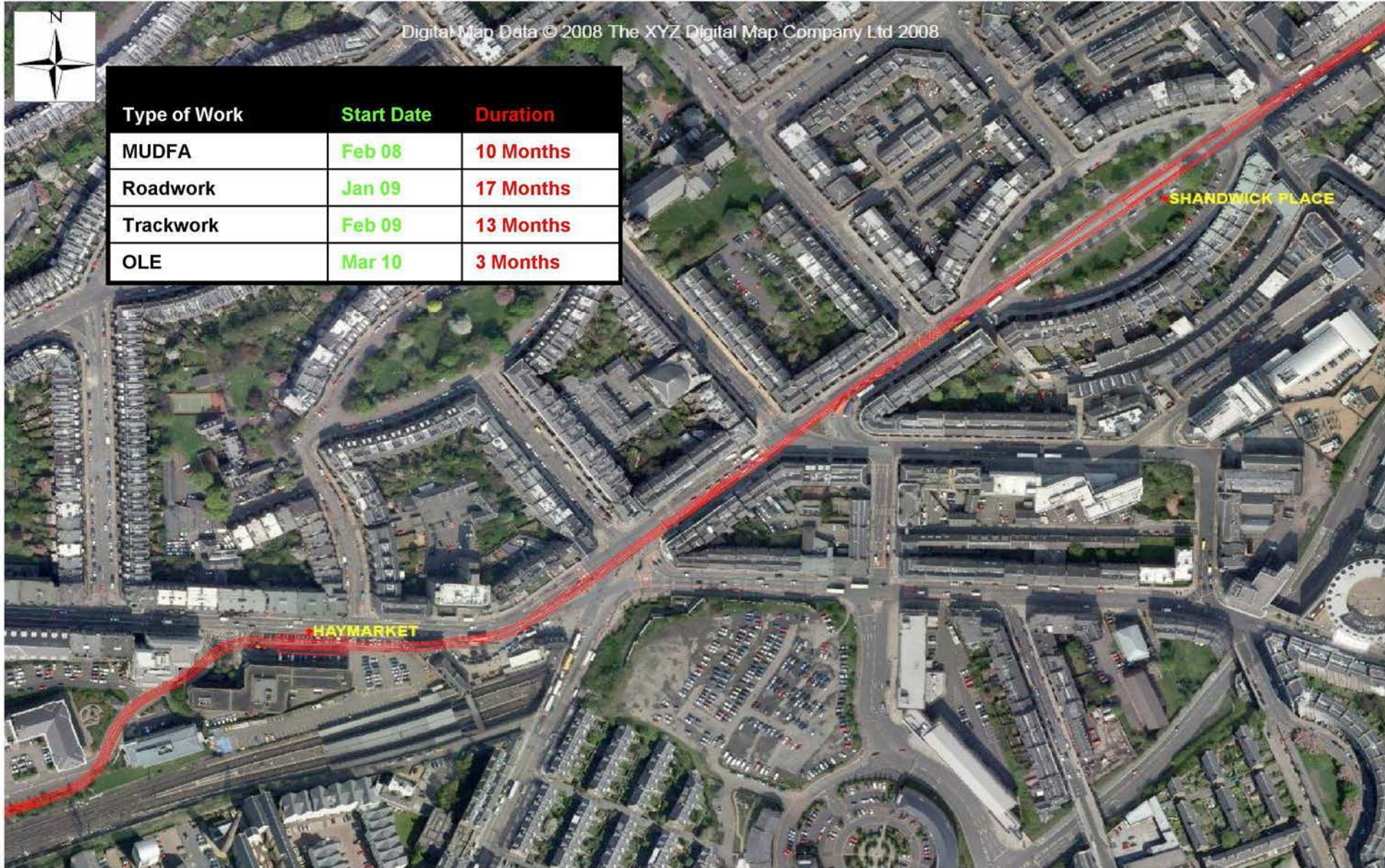
Shandwick Place to Haymarket



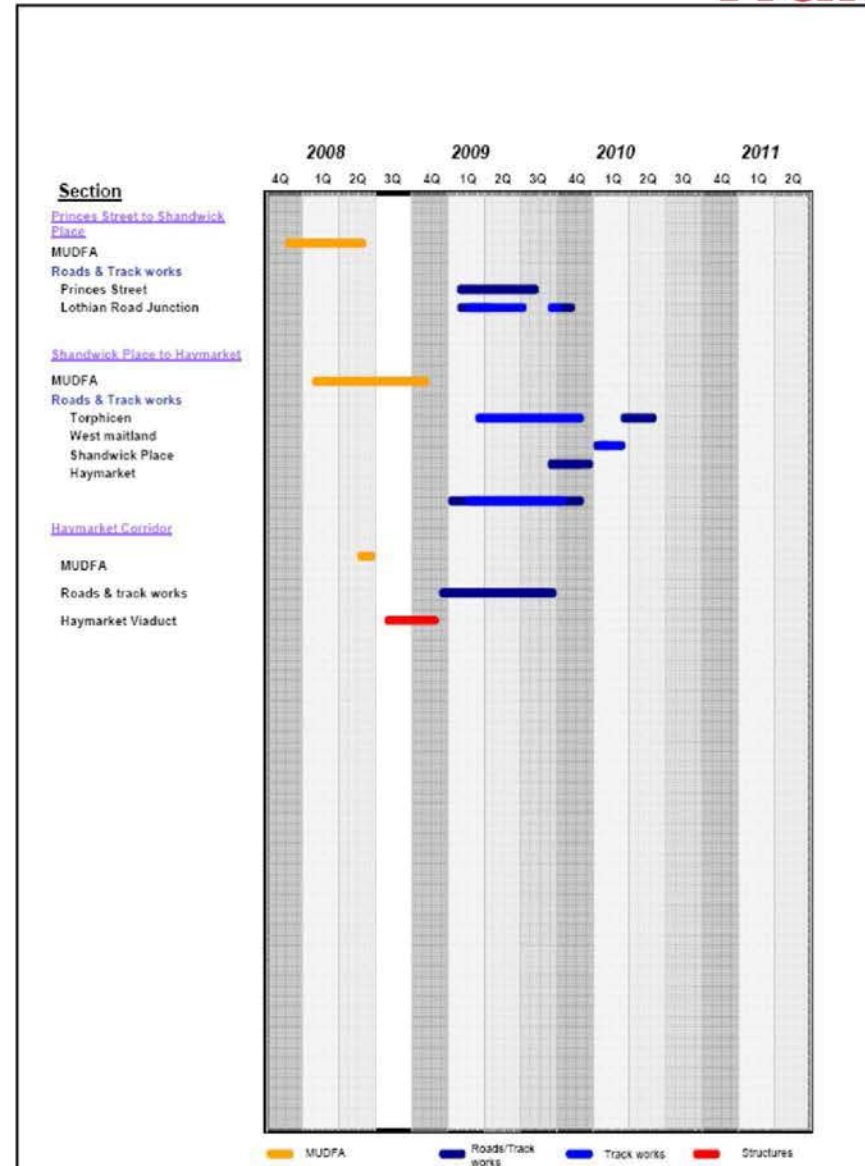
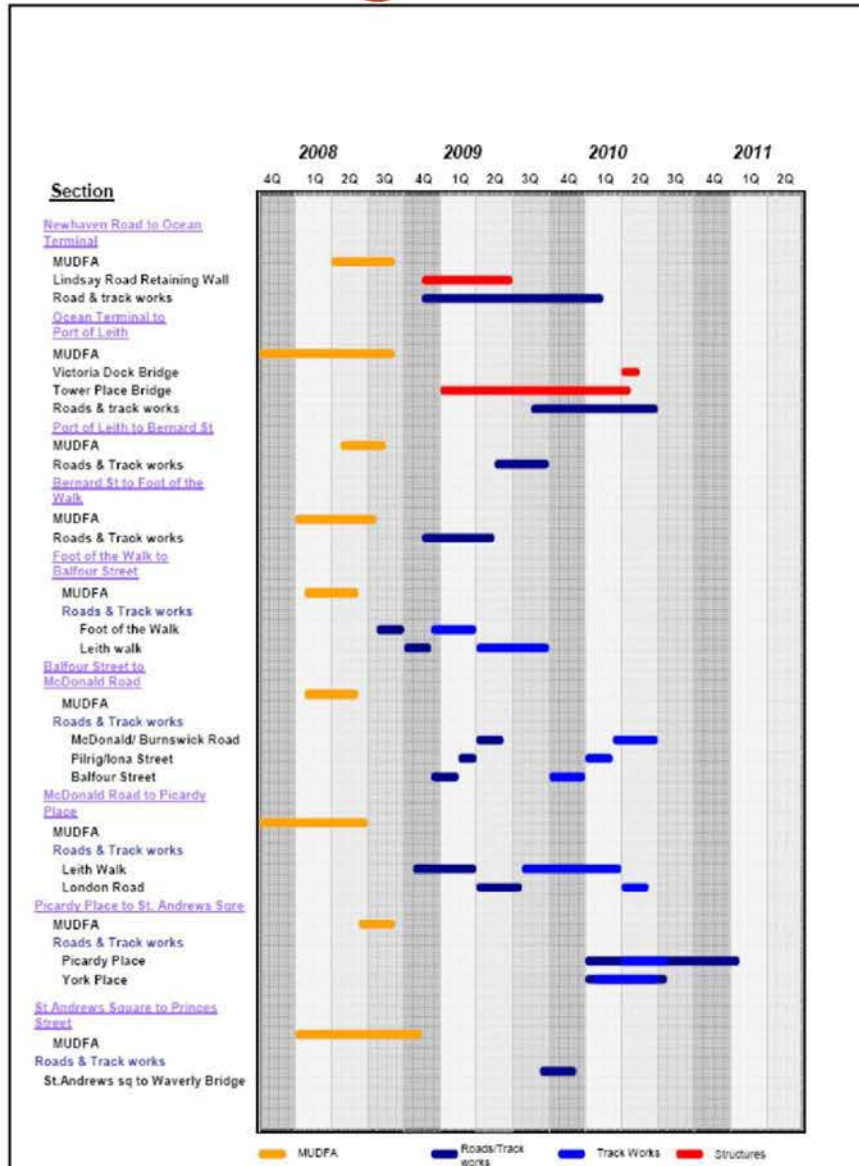
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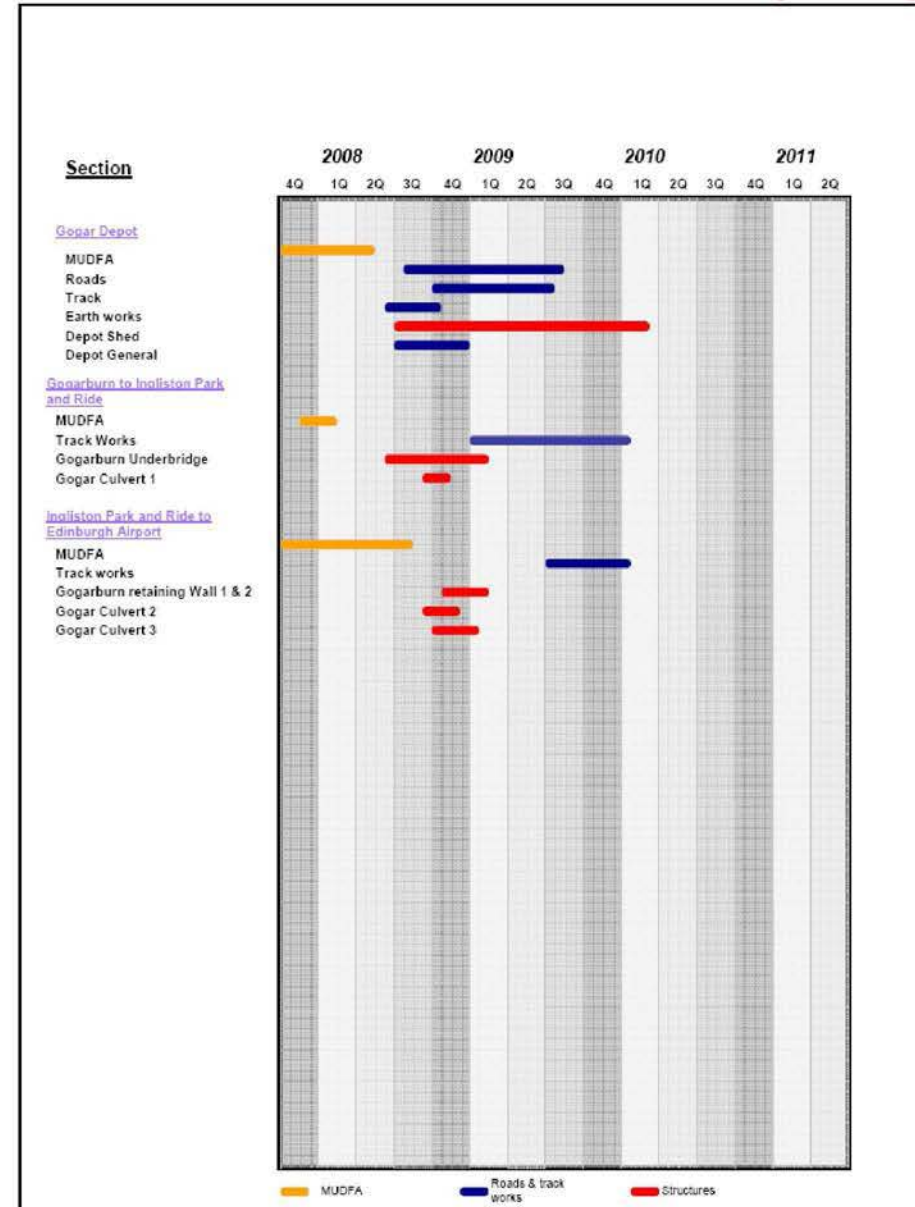
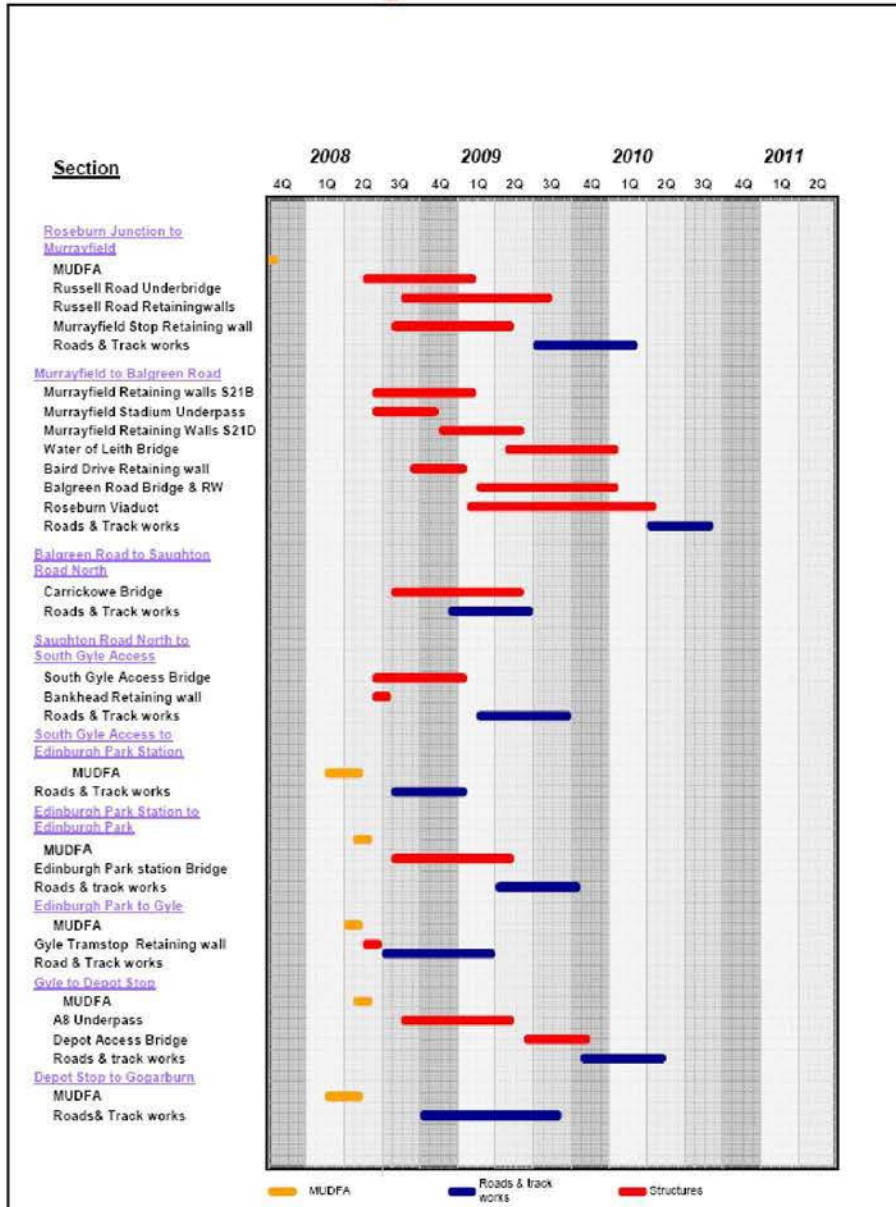
Type of Work	Start Date	Duration
MUDFA	Feb 08	10 Months
Roadwork	Jan 09	17 Months
Trackwork	Feb 09	13 Months
OLE	Mar 10	3 Months



The Programme 1



The Programme 2



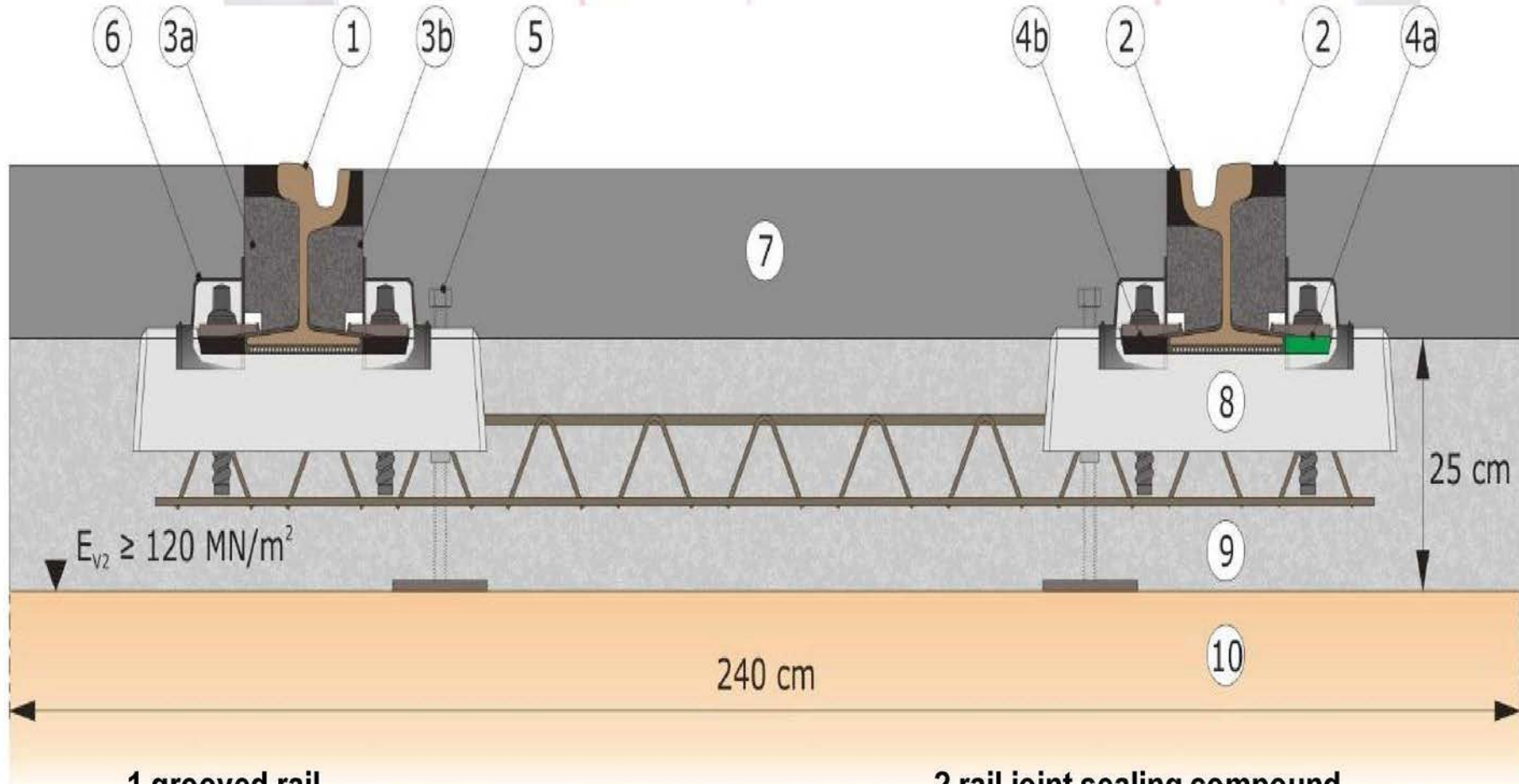
The Impact?

- **Leith Walk**
 - Middle of road different from MUDFA
- **Constitution Street**
- **Princes Street**
 - Open for pedestrians, emergency services and essential access
 - Closure to traffic only
 - Diversion of buses along George Street
- **Shandwick Place**
 - Closure to traffic only

The Impact?

- **Working Week – maximise hours**
 - **Safety**
 - **Resources**
 - **Criticality**
 - **Balancing needs of City, Project, Business and Community**
- **Festival and Xmas**
- **Traffic Management**

The Trackform



- 1 grooved rail
- 3 chamber elements a) outside b) inside
- 5 adjustment bolts
- 7 cover layer
- 9 concrete supporting layer

- 2 rail joint sealing compound
- 4 gauge and clamping profile,
- 6 caps (optional)
- 8 sleeper type
- 10 frost protection layer

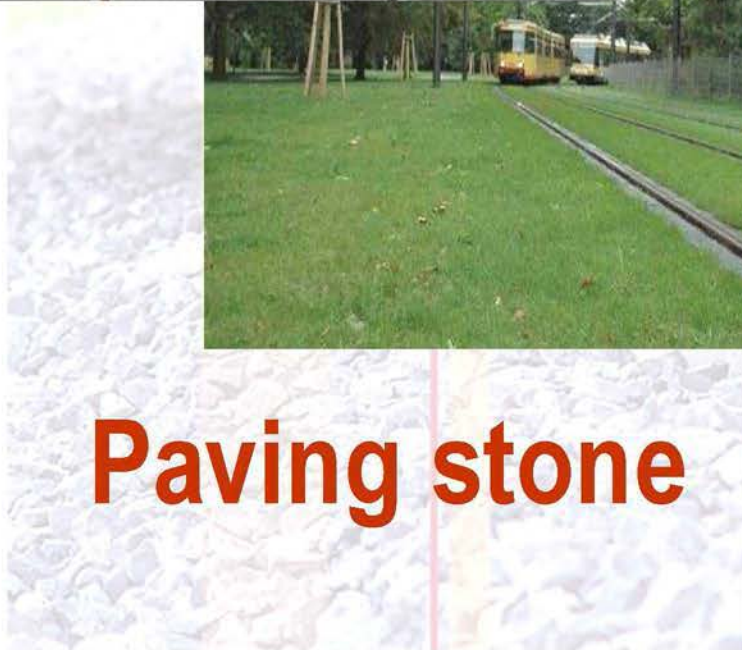
Trackform in situ in Europe



Asphalt



Grass



Paving stone



Trackform Construction in Europe



**Sleeper
positioning**



Rail installation

Track fixing

Concreting



Business Support

- Extension of Business Support Scheme
- Seven Tram Construction Advisers
 - From Constitution Street to Haymarket
- Construction Superintendent
- Tram Information Boards
 - 18 from Shandwick Place to Constitution Street
- Two Tram logistic Teams
 - Shandwick Place and Constitution Street
- “Open for Business”
 - IPSOS Mori Opinion Survey
 - Scotland Wide Roadshows and monthly e-newsletter
 - Appointed Burt Greener Communications
 - Branding support for West End, City Centre and Leith Walk

Key Milestones

- **2nd May - Contract Signing**
- **June - demolition of Caley Ale House**
- **July - conclusion of utilities Shandwick Place**
- **Summer - Infrastructure full mobilisation**
- **August - Festival moratorium**
- **December - Xmas moratorium**
- **December - conclude utilities work for line 1a**