

North London Railway Infrastructure Project

March 2009

Bill Free

MAKING TOMORROW A BETTER PLACE





Agenda

- Purpose of Project
- Programme and Timing
- Details of Project
- Access Strategy
- Constructability
- Key Risks
- Environmental Consideration
- Safety
- Questions

2008 / 1 / 3

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Purpose of Project

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CORF INFRASTRUCTURE WORKS

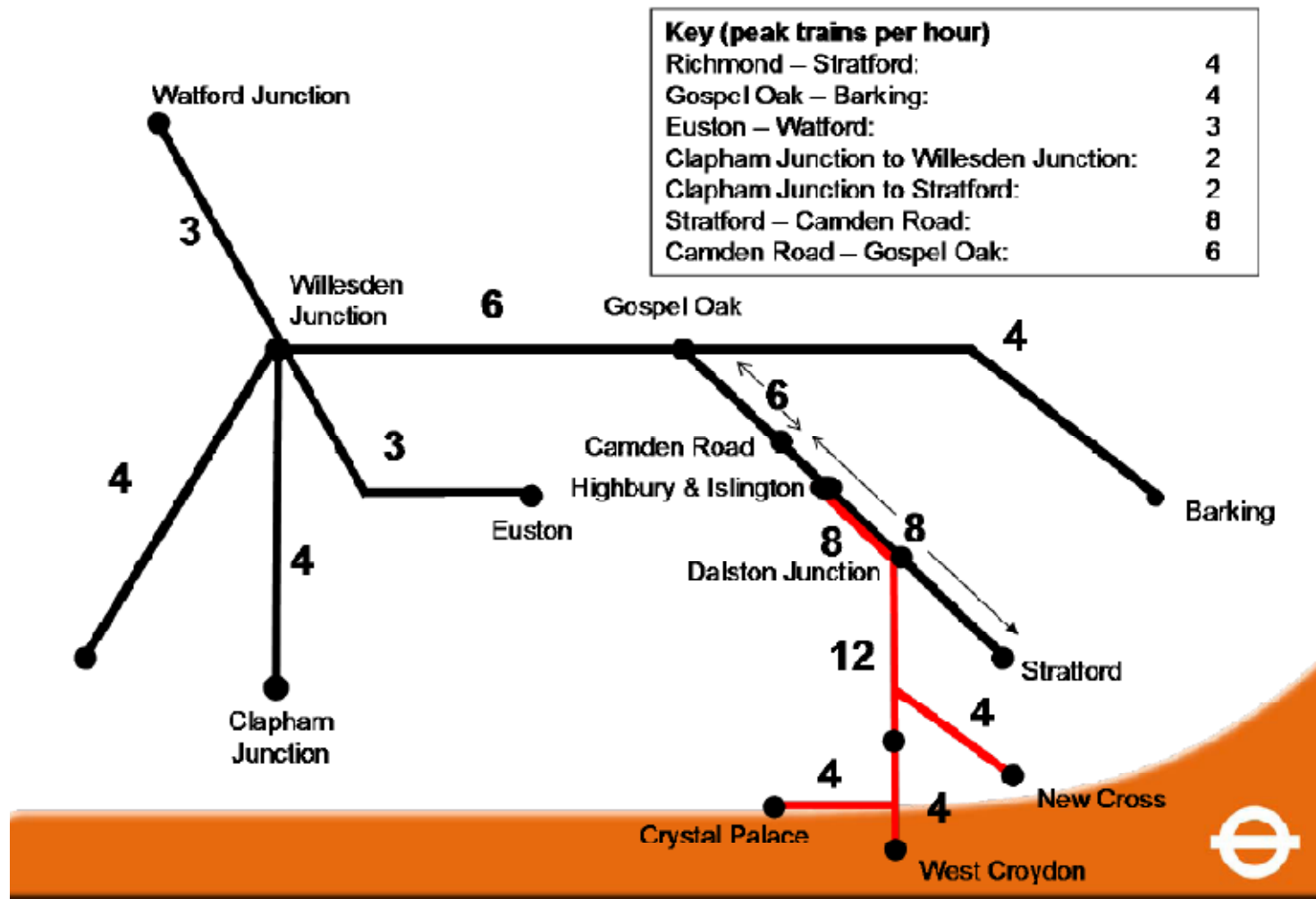


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Context – quote from TfL!

- **A strong investment programme will deliver a step change in travel experience for passengers by 2012, including:**
 - increased frequency, new trains, cleaner and refurbished station, improved reliability and punctuality
- **Necessary line closures to deliver the improvements - planned in agreement with the Rail Industry, as the network is also a main freight corridor**
- **TfL and NR together with the DfT and the ODA are funding the improvements**
- **When the extended East London line re-opens in 2010, it will be part of London Overground**

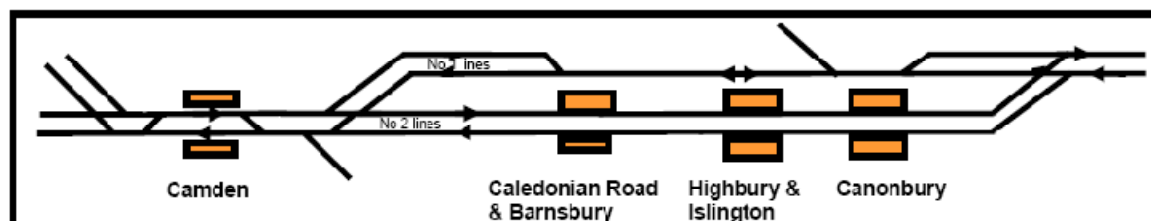
Benefits: planned peak passenger services, 2011



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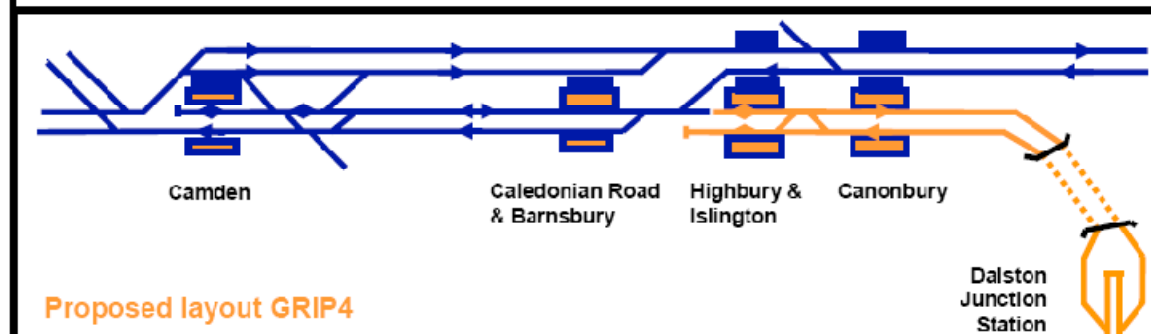
Core Area

Existing



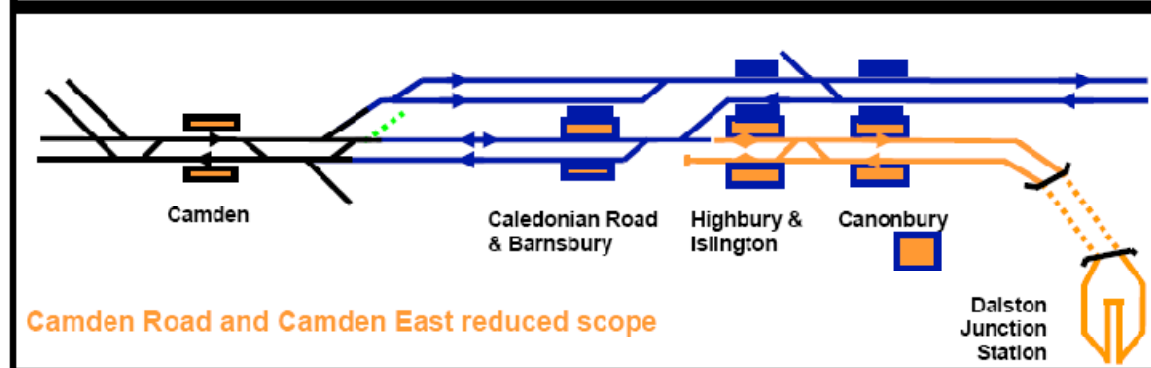
Existing Situation 2007

Initial proposals



Proposed layout GRIP4

Our contract



Camden Road and Camden East reduced scope

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Why the Camden 4 Tracking was dropped!



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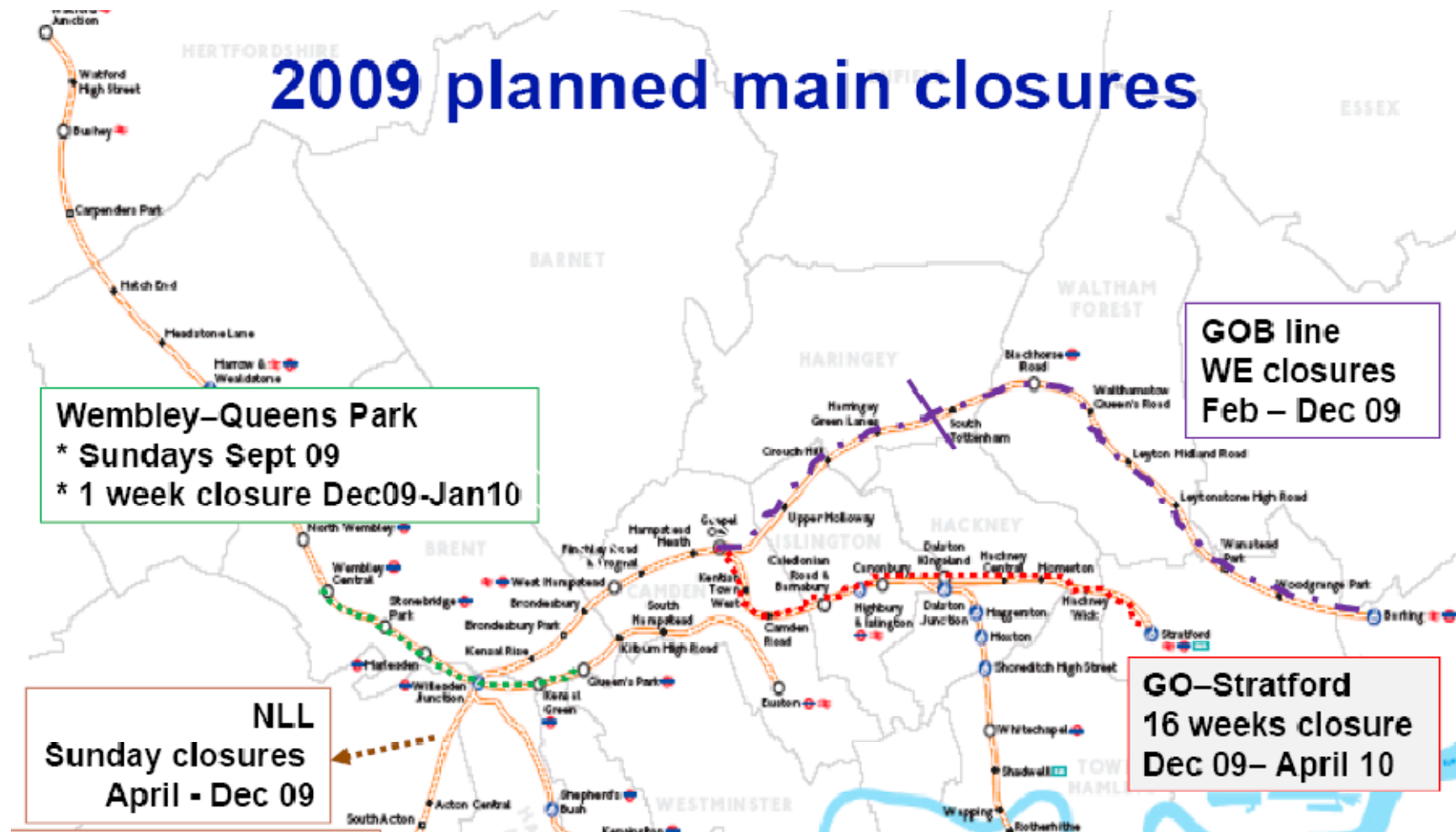
Programme & Timing

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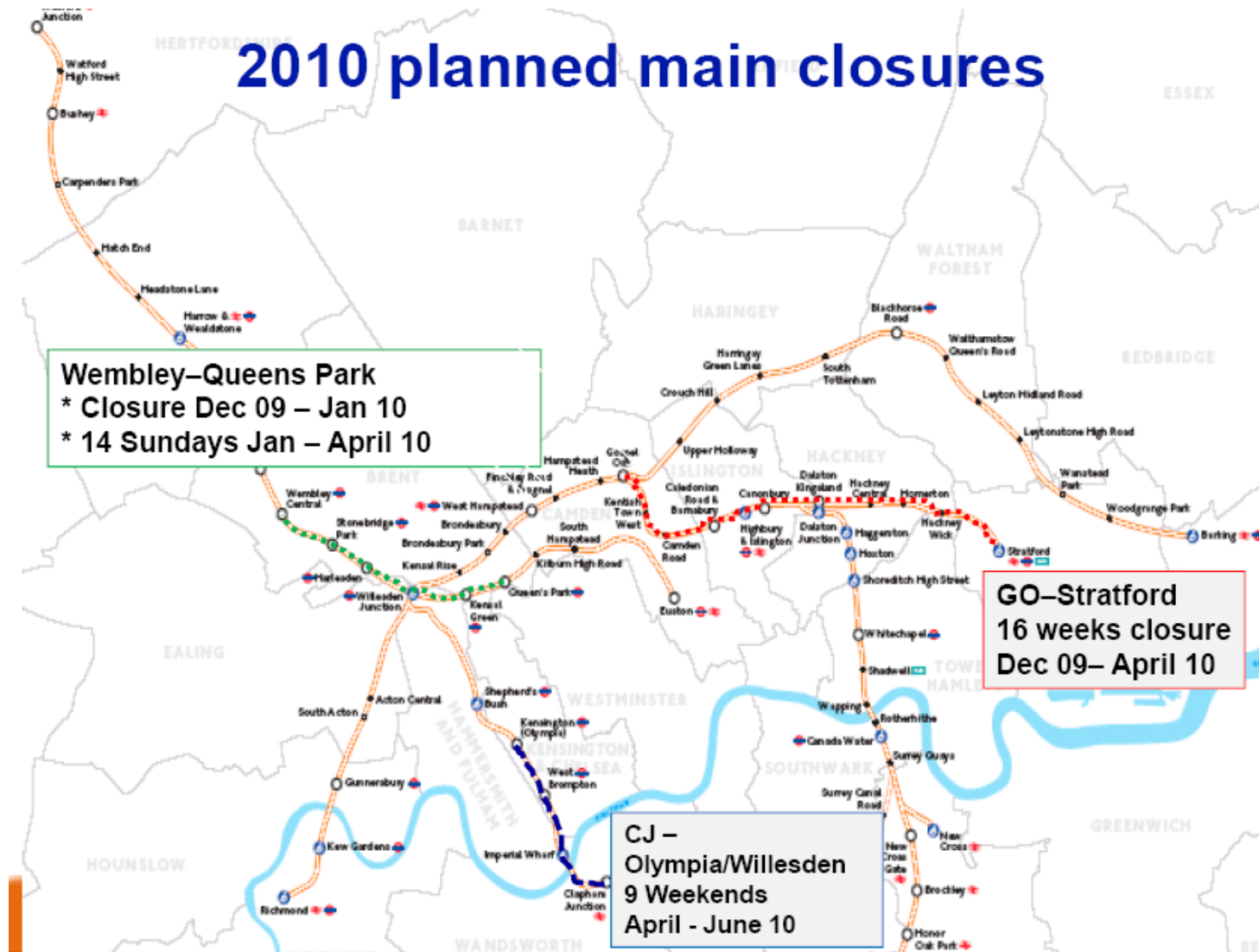
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2009 planned main closures



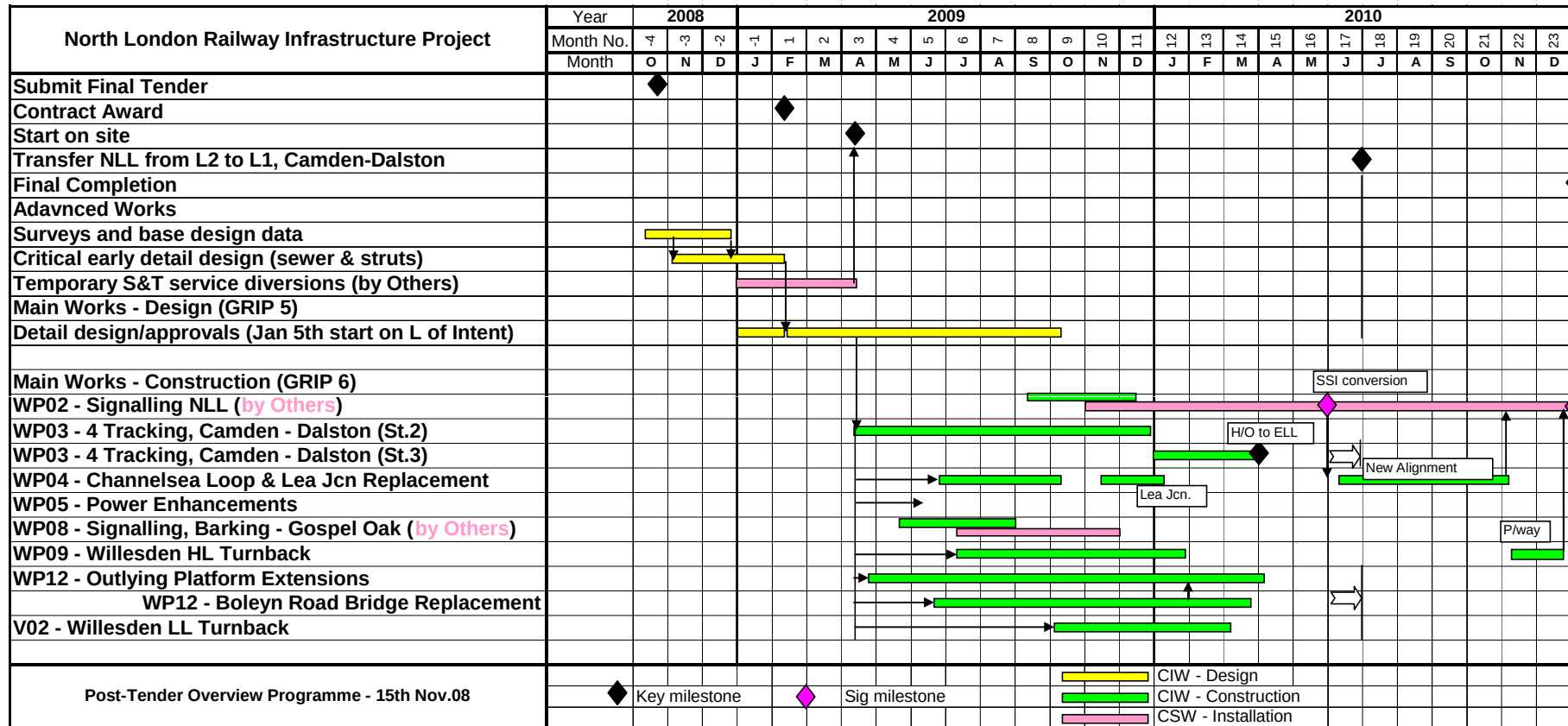
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2010 planned main closures



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Our Tender Programme



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Details of Project Scope

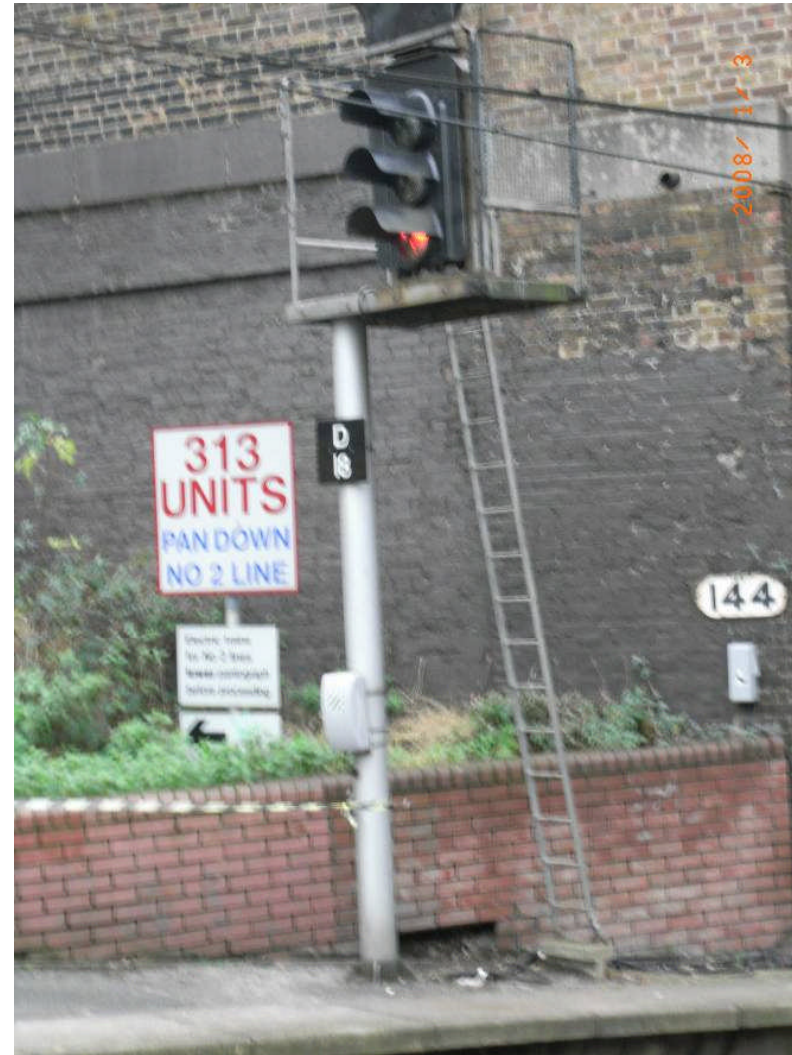
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Resignalling

- Signalling work by Atkins
- Carillion building bases, troughing etc
- Resignalling:
 - GOB
 - NLR



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Core Area

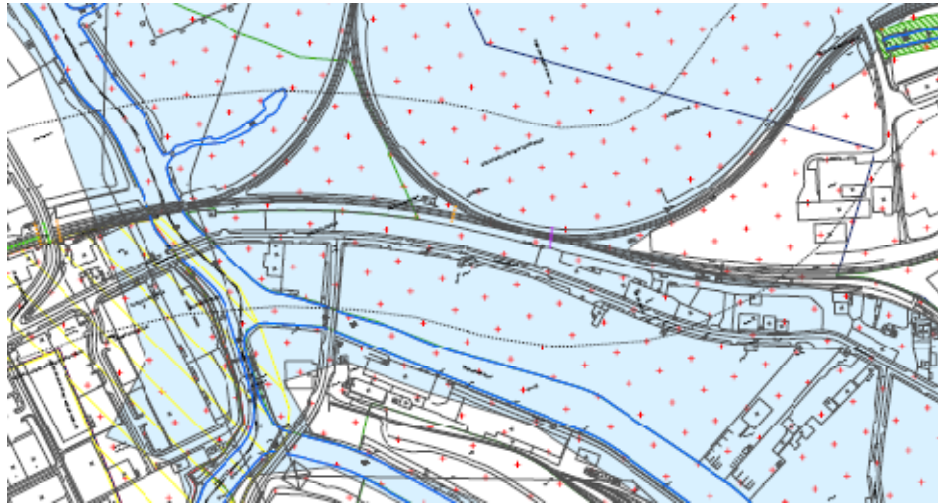
Four Tracking, Dalston Kingsland to Camden Road

- Stabilise retaining walls
- Replace leaking sewer
- Lower track at bridges for Electrification
- Parallel NLR and ELR alignment East of Highbury
- New turnouts, plain line, track drainage and OLE
- Station upgrade at 4 sites
- Renew bridge at Camley Street
- 2 possession regimes:
 - Nr 1s shut all week and all lines shut Sunday
 - Full closure
- 12 months duration



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Channelsea



Channelsea – New freight loop

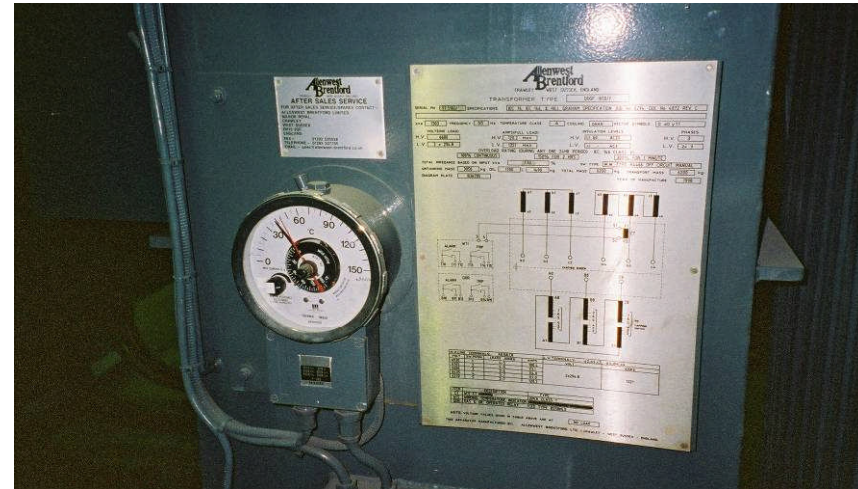
- The additional freight line is for timetable, regulation and train performance.
- Complex track arrangement c/w OLE
- Programme to suit resignalling – in 2010

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Power

Traction and Power Supply Mods

- Substation upgrades
- Neutral sections
- SCADA
- SMOS
- HV Cable upgrades
- Diverse sites
- Test and Commissioning



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Willesden High Level Turnback

- Turnback in wide-way:
 - Turnouts
 - Track
 - OLE
- Retaining Walls to cope with slope of ground
- Sunday possessions and Planned Closure over Christmas 2009 / 10
- Commission 2010



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Platform Lengthening

- South Acton to Homerton
- Complicated sites at
 - Dalston Kingsland (inc SME)
 - Kentish Town West
 - Willesden Jct HL
 - Gospel Oak
- 9 straightforward
- Maximise normal working hours



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Willesden Junction Low Level

- **Extend length of bay platform**
- **Building modifications**
- **Maintaining passenger & DDA access**
- **M&E work**
- **Track & ETE**
- **Rail locked site**



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Access Strategy

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Access for People

- **Restricted access throughout**
- **Use dedicated access points and stations in possession**
- **Create temporary access points**
- **Need to control parking**
- **Scaffold access at bridges**
- **Security at access points**
- **Range of welfare facilities**



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Access for Materials / Spoil

- Predominantly by train
- Dedicated train for specialist / low quantities
- Bulk materials from NDS
- Close control of trains on site
- Certain amount of shuffling materials on site with dump-trucks and fork lifts
- Limited delivery by road – high value, fuel, congested access points etc



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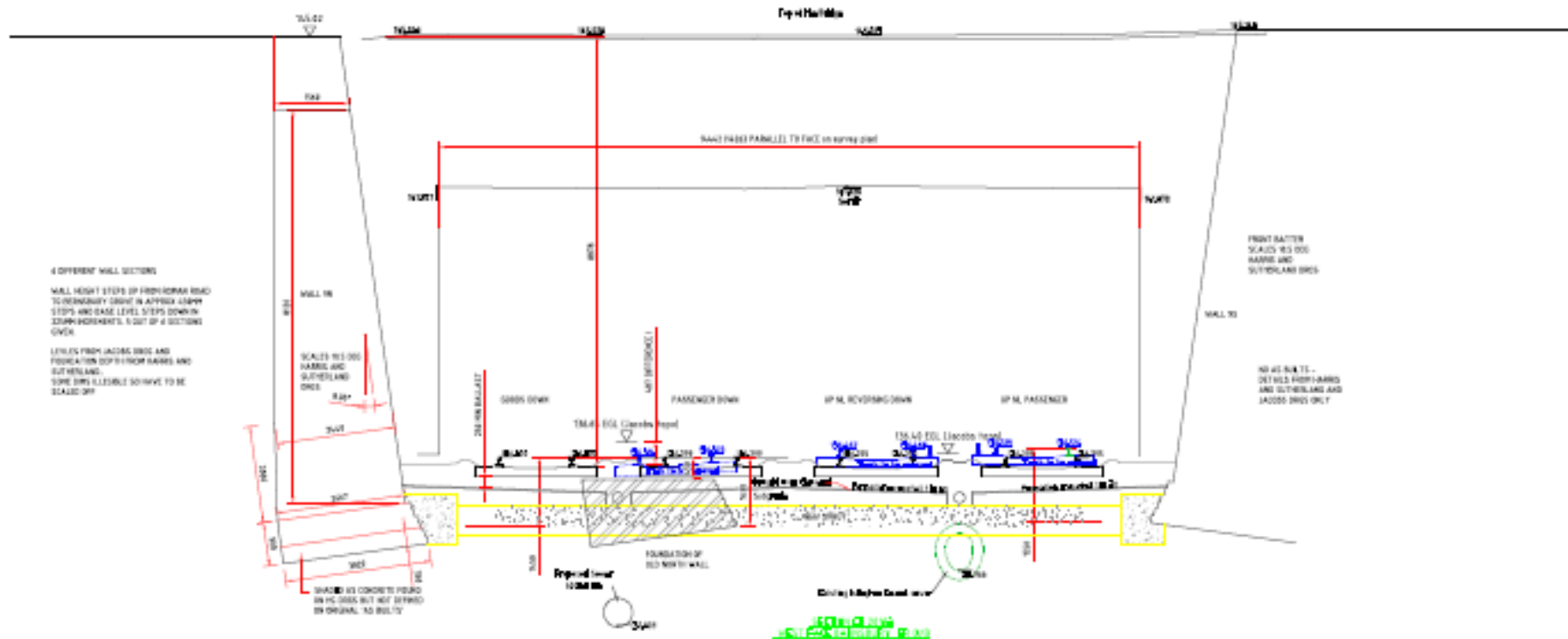
Key Risks

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The Canyon!

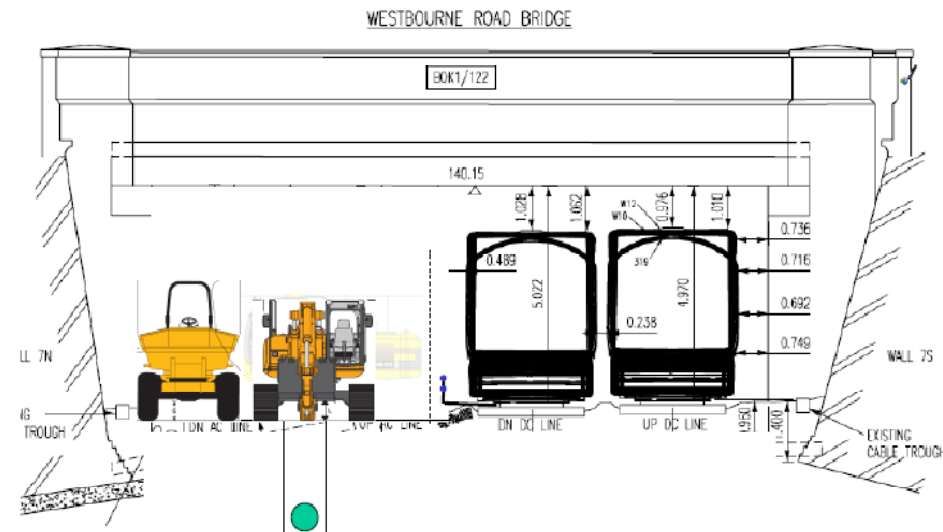


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Construction solutions

- Clearly defined Green Zones
- Full use of Blockades
- Trenchless Technology
- Strut installation
- Form B design to maximise green zone working



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Environmental Considerations

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Environmental Consideration

Noise and Air:

- Continuous monitoring during demolition and construction works.
- Best Practice: Trigger alert system used by Carillion in North London. Text messages are sent by the noise / air quality meter to specified recipients when the trigger level has been exceeded.

Stakeholder Management

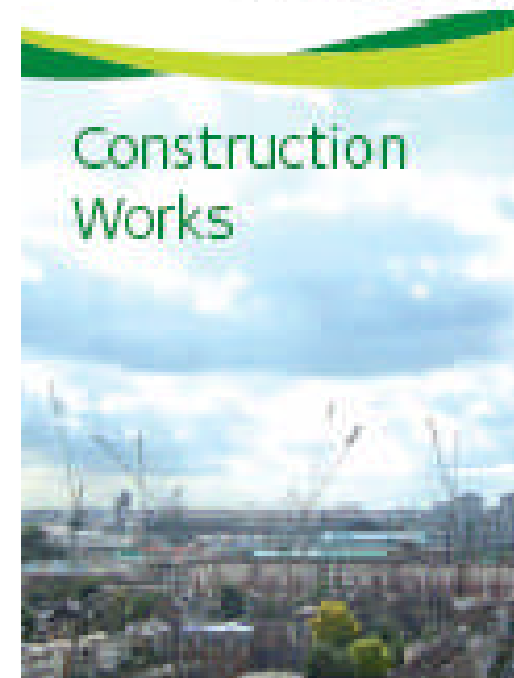
- Stakeholders:
 - Train Operators
 - Train Users
 - Local Authorities
 - Schools, Businesses etc
- Issues
 - Wide Engagement
 - No Surprises
 - Clear Communication
 - No-one left out
 - Balance Interests
 - Realistic Expectations
 - Fairness



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Local People

- Contact with “Construction Works” Islington and Camden Council
- Carillion “jobcentreplus” partnership
- Kings Cross Construction Training School
- Sky Blue – local employer
- Articulate! Disabled students meet Carillion: Camden EBP, 24th Oct 08.
- iCAM Supply: Local Procurement Initiatives
- “Hands On Construction” Taster days for Camden and Islington students: 19th & 26th Oct 08.



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Safety

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Questions?

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