

# Bakerloo Line Extension New Cross Gate Station

Sainsbury's/Mount Anvil Progress Meeting  
*Thursday 22<sup>nd</sup> March 2018*

# Agenda

- Introduction
- TfL Update:
  - Worksite Requirements
  - S/MA Proposal Review
- Sainsbury's and Mount Anvil Update

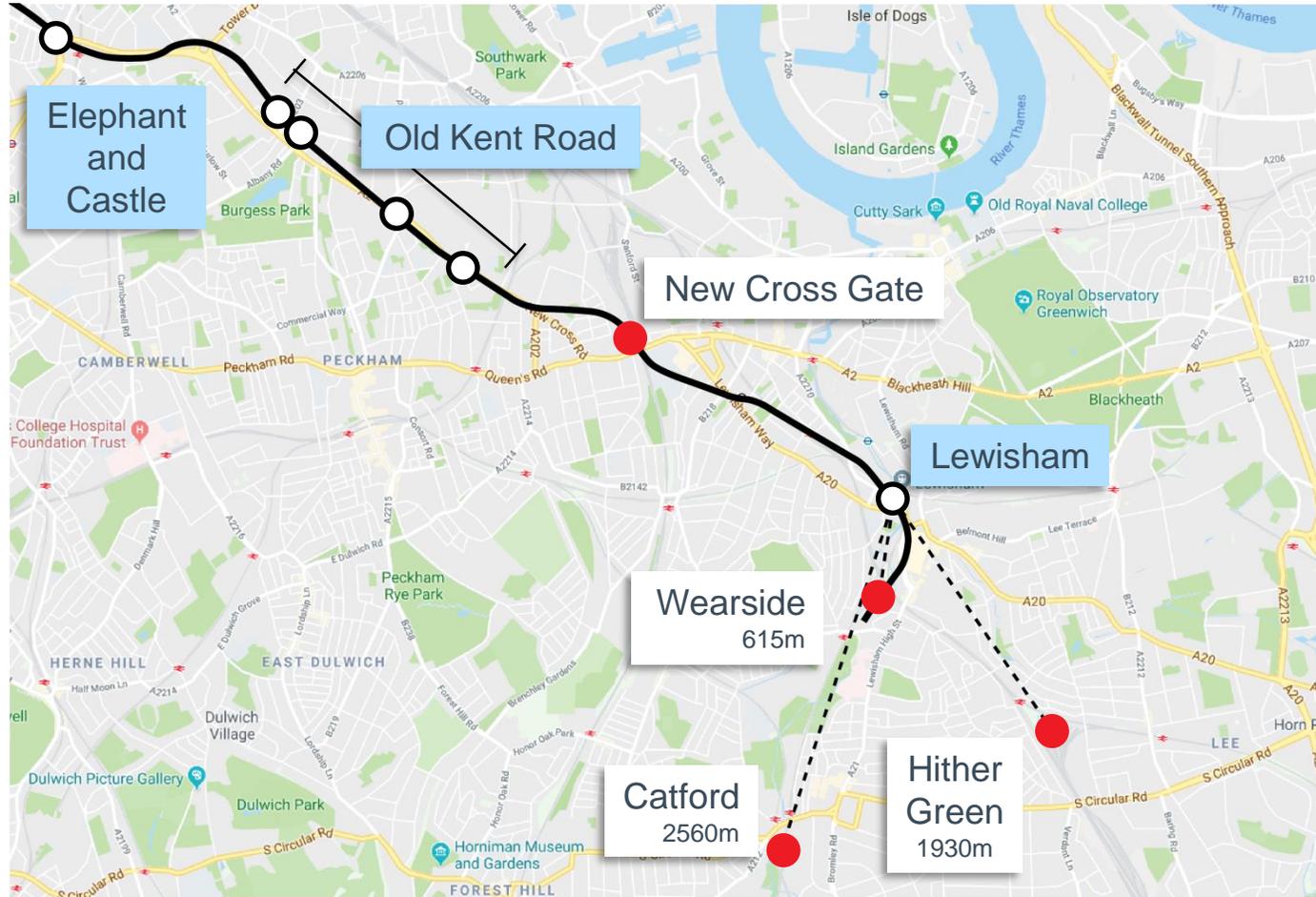
# Introduction

## *Current Workstreams:*

- Elephant and Castle tie-in
- Lewisham terminus, overruns / reversing / stabling
- Old Kent Road stations site options
- TBM launch and main construction worksites
- Integration with line-wide upgrade

# Worksite Requirements

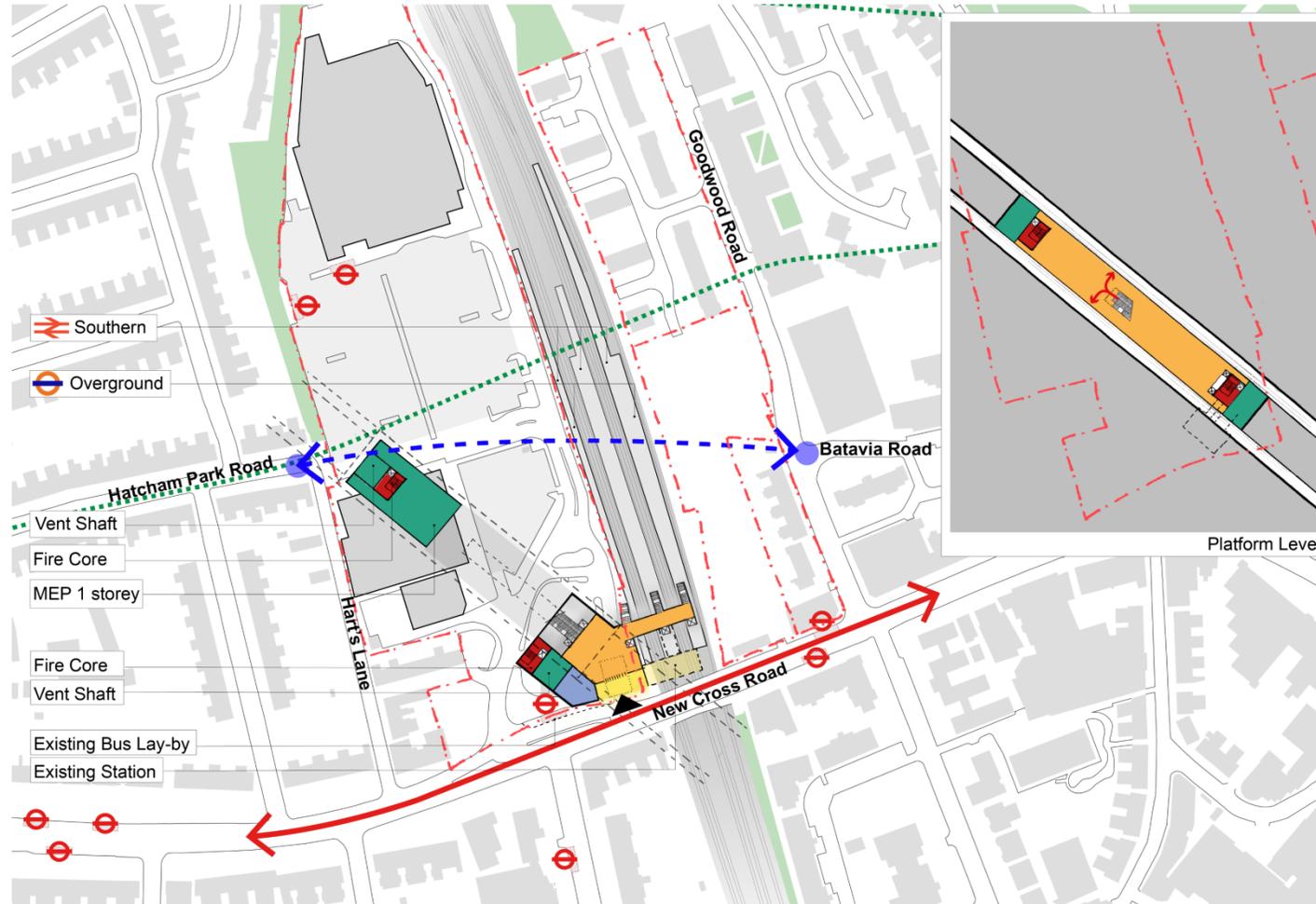
# Line-wide Alignment and Worksite Options



## Key

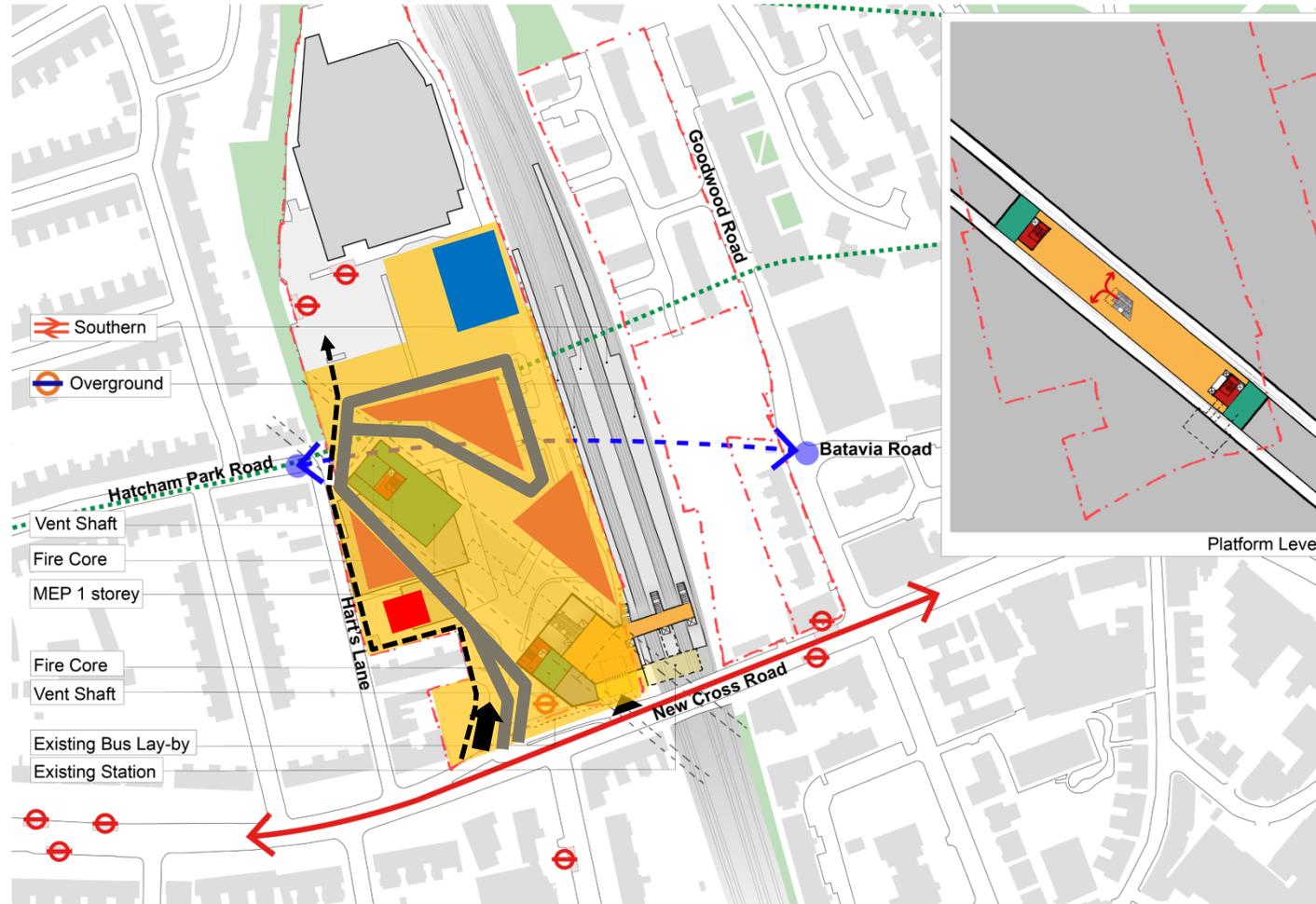
- Worksites
- Proposed Stations

# Option 1 – Baseline Consulted Scheme



- Key
- Unpaid concourse
  - Paid concourse
  - Station accommodation
  - MEP
  - Fire
  - Car Park
  - Sewers

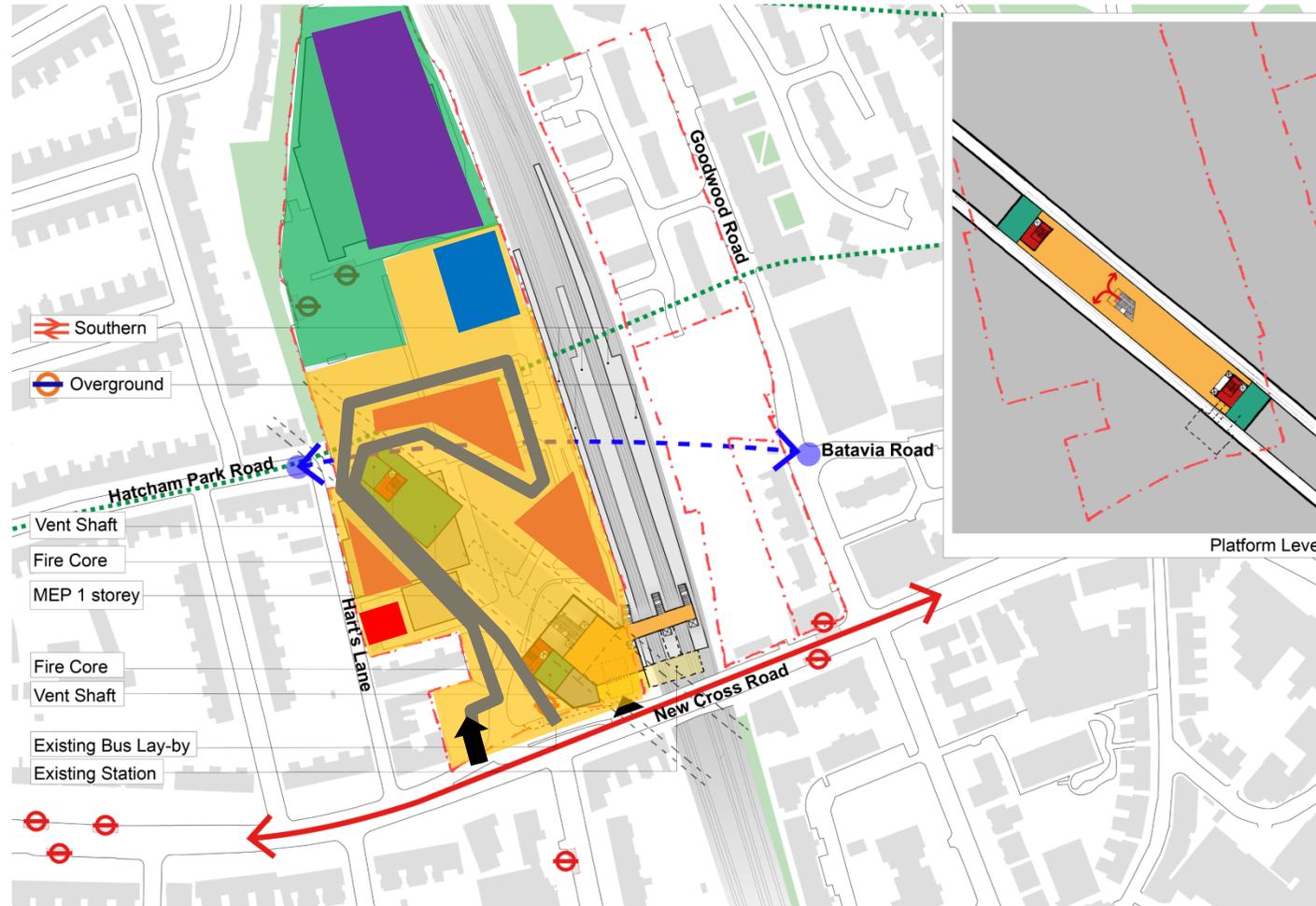
# Option 1 – Worksite Requirements



**Key**

- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point
- Sainsbury's access

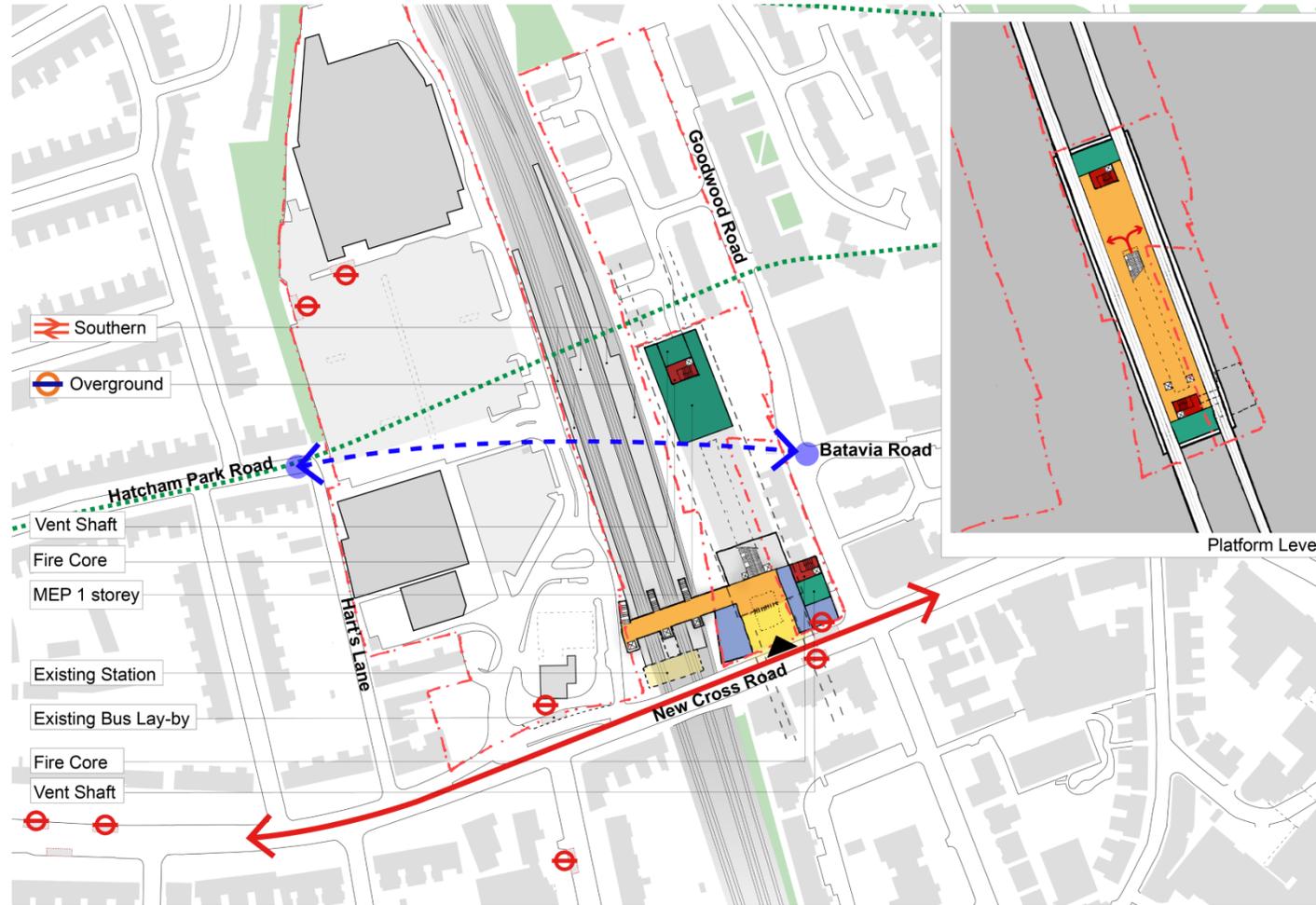
# Option 1 – Worksite Requirements (inc. satellite worksite)



**Key**

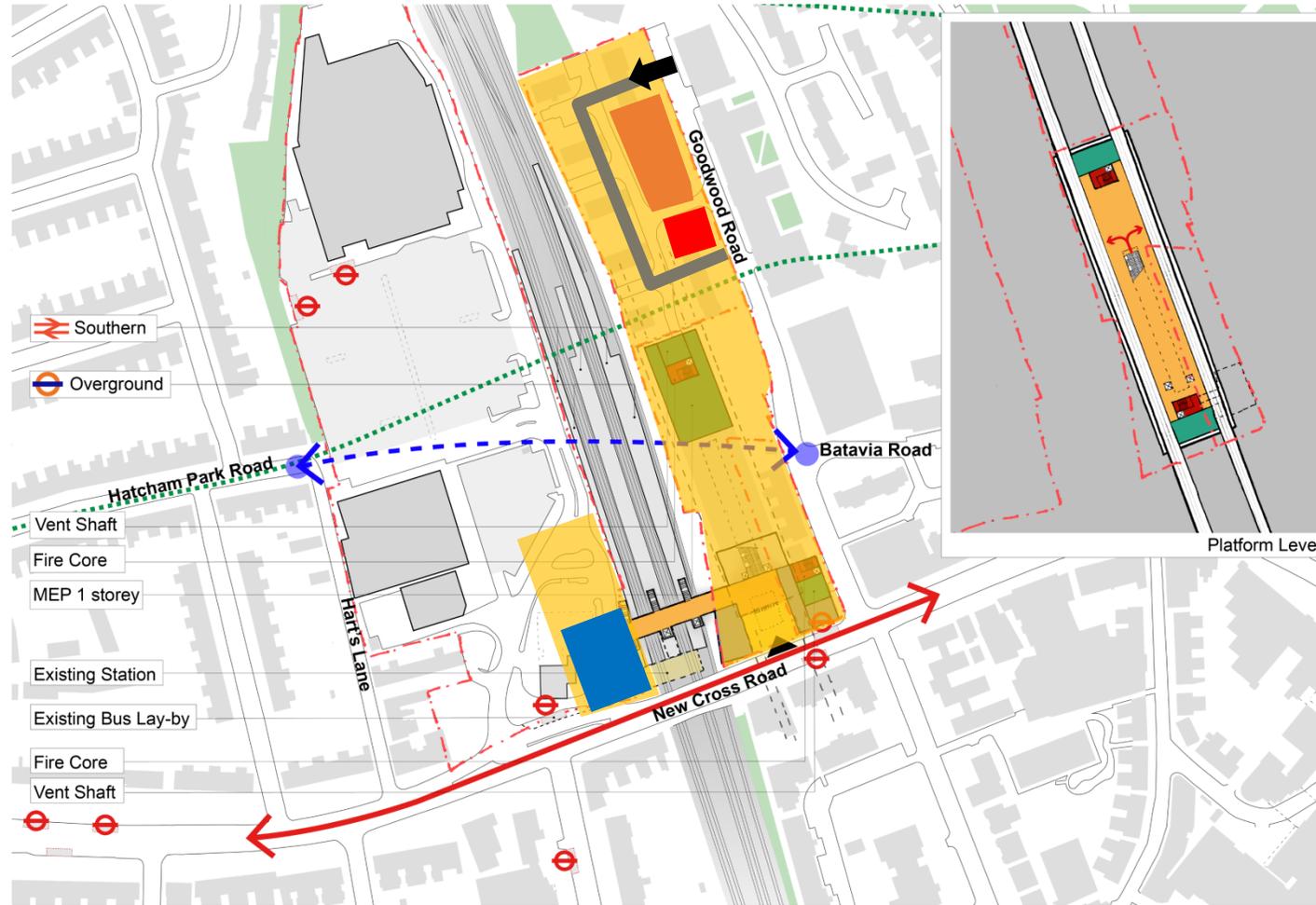
- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point

# Option 2 – Station Box on the East



- Key**
- Unpaid concourse
  - Paid concourse
  - Station accommodation
  - MEP
  - Fire
  - Car Park
  - Sewers

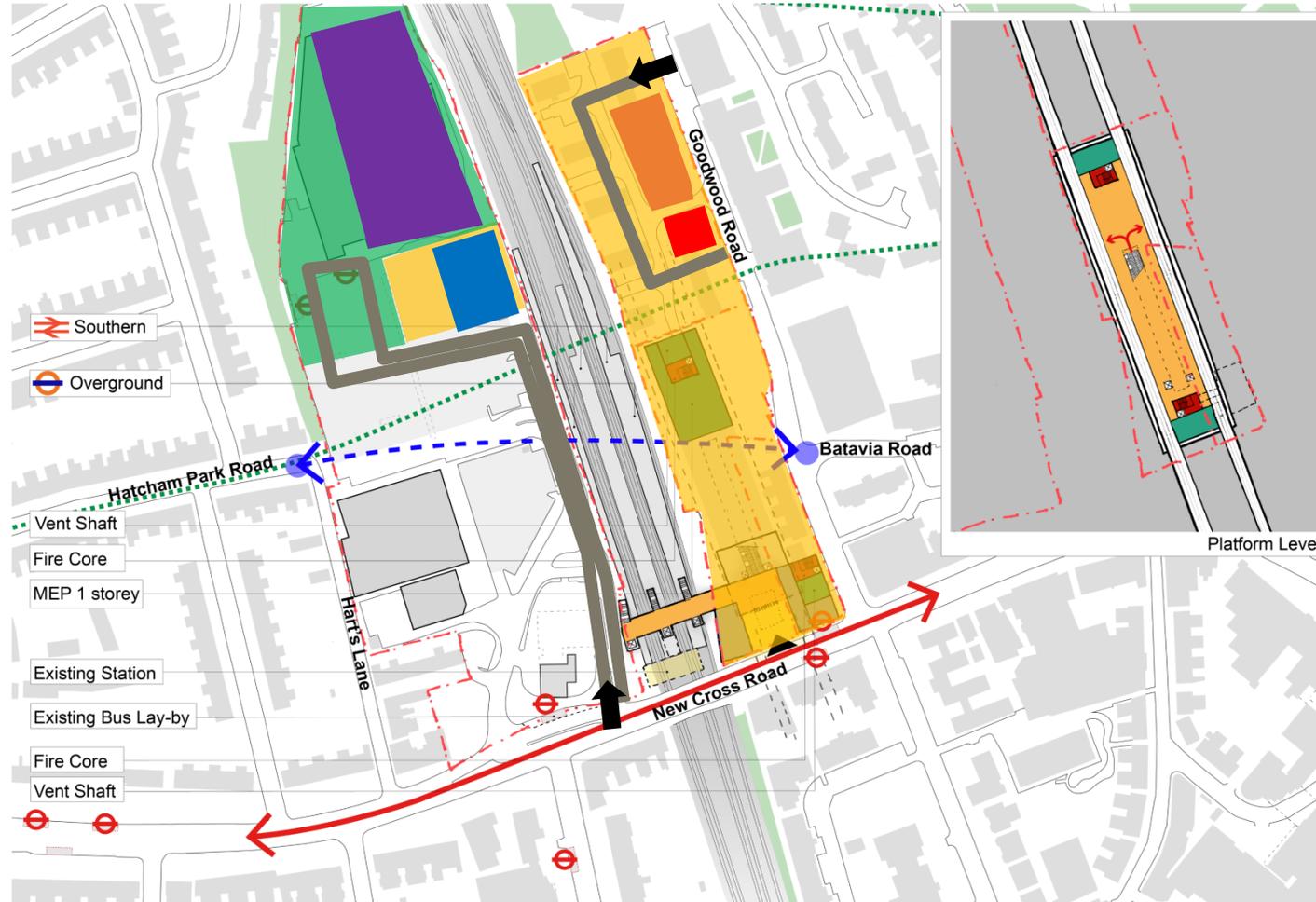
# Option 2 – Worksite requirements



**Key**

- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point

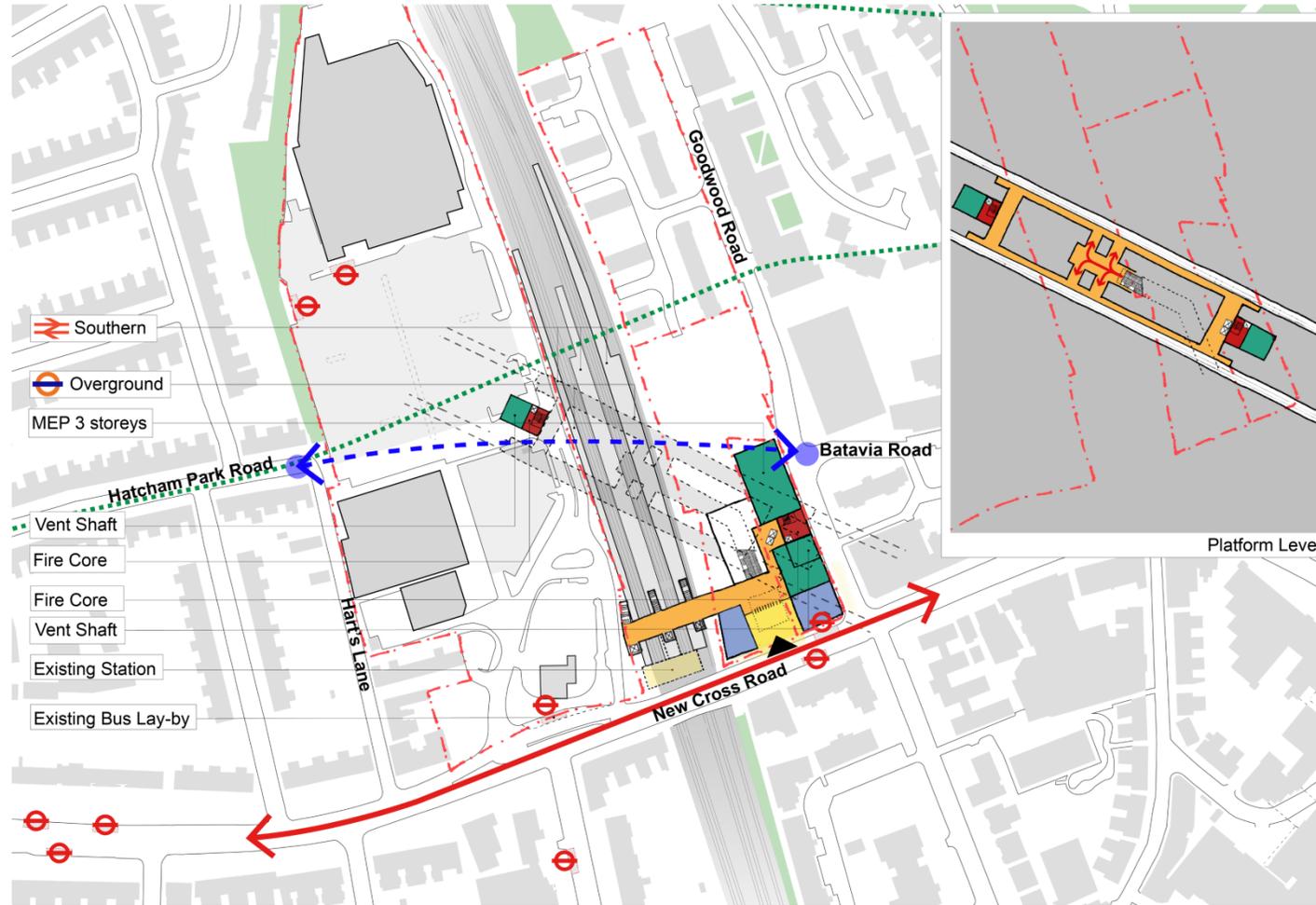
# Option 2 – Worksite requirements (inc. satellite worksite)



**Key**

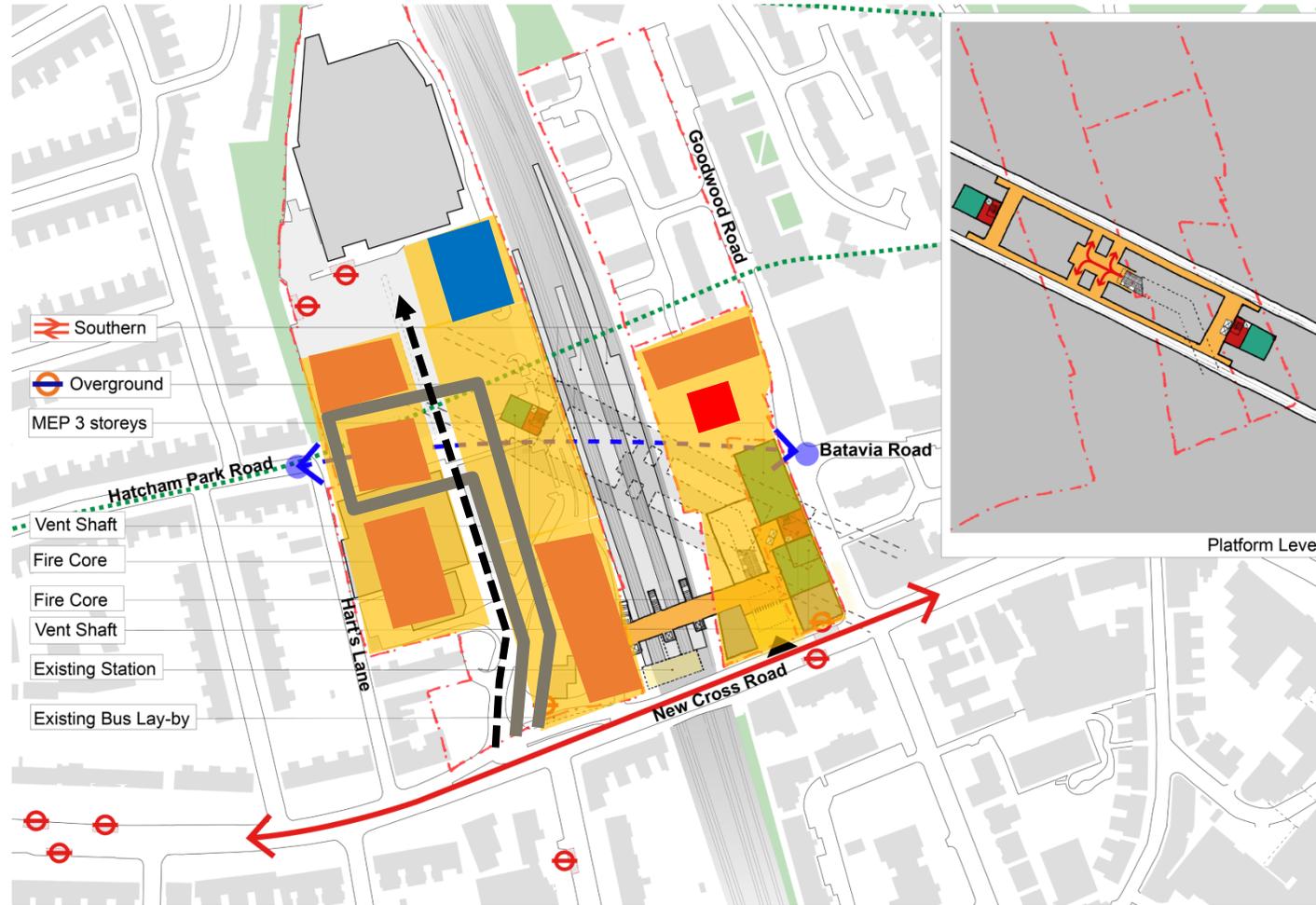
- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point

# Option 3 – Mined Platforms



- Key
- Unpaid concourse
  - Paid concourse
  - Station accommodation
  - MEP
  - Fire
  - Car Park
  - Sewers

# Option 3 – Worksite Requirements

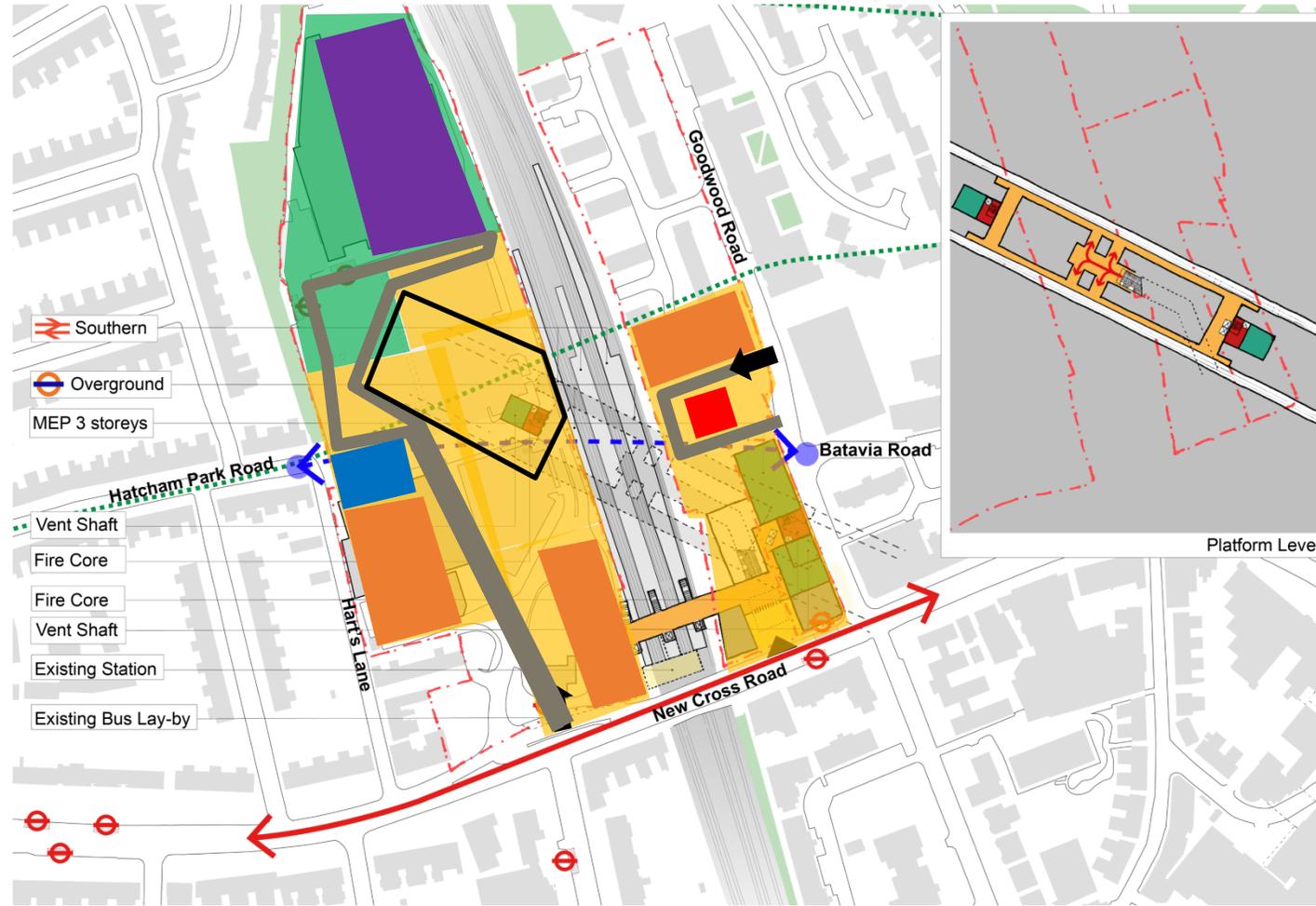


**Key**

- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point
- Sainsburys access

# Option 3 – Worksite Requirements (inc. satellite worksite)

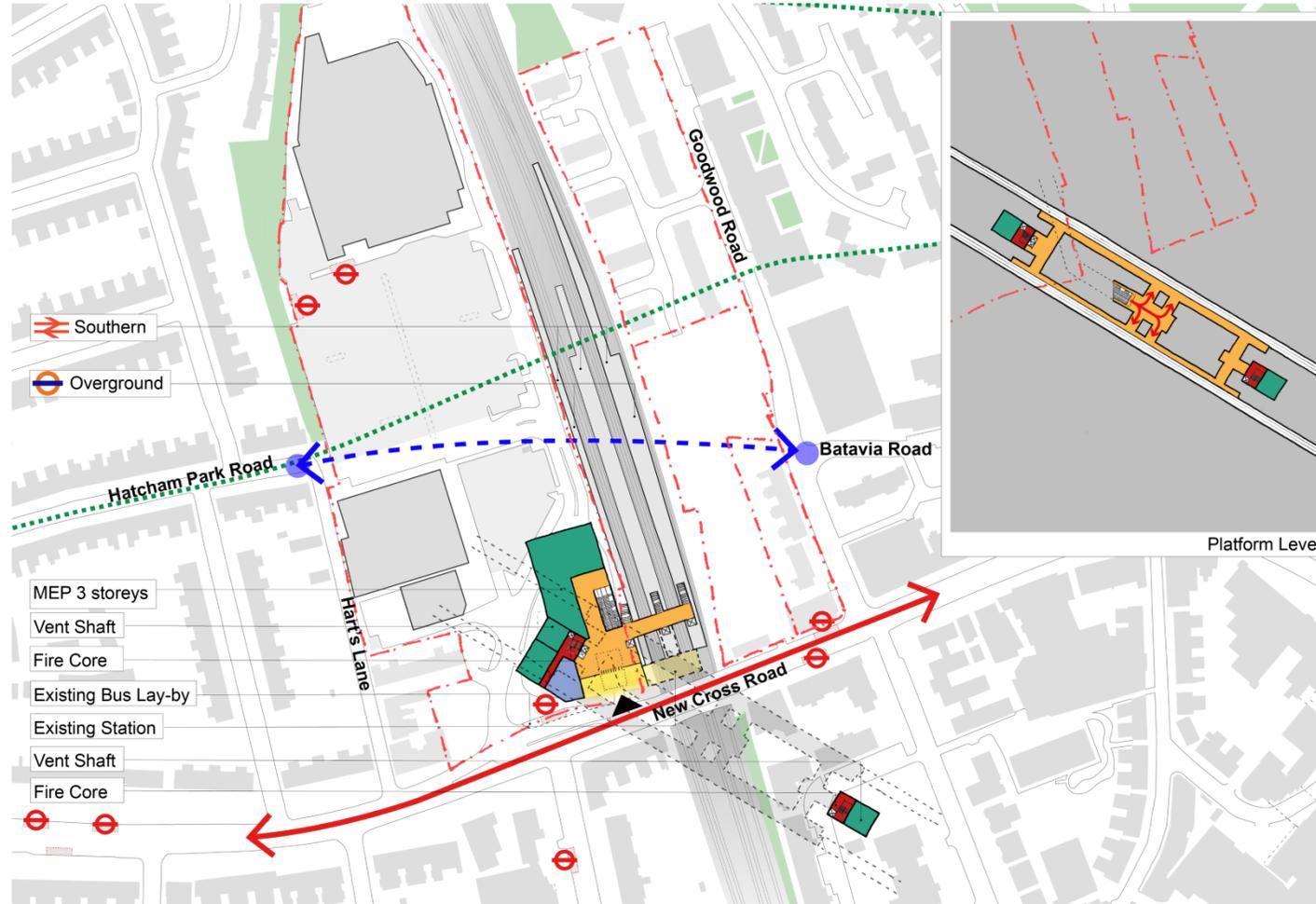
- Black outline signifies size of launch shaft required should TBMs be launched here



**Key**

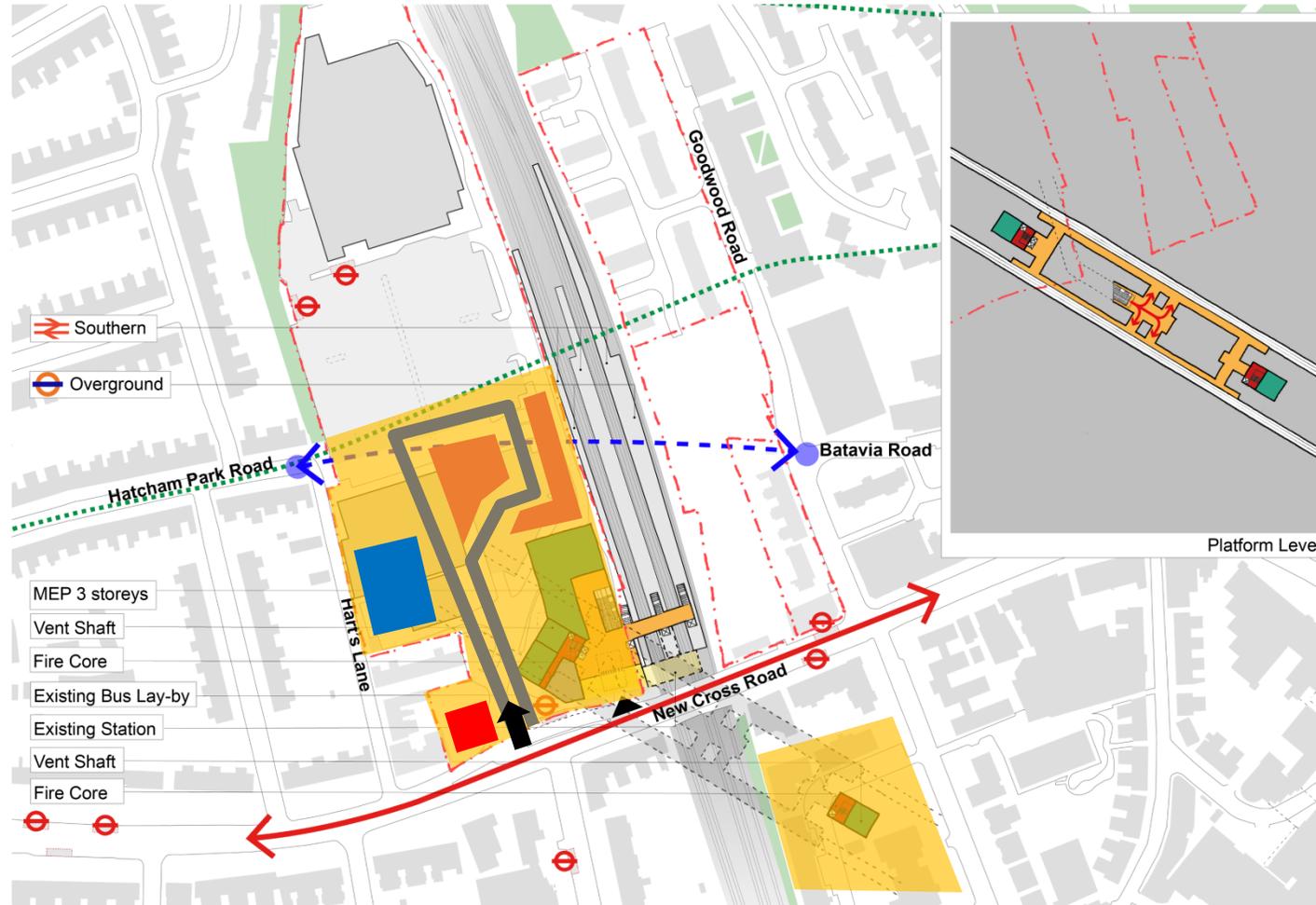
- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point

# Option 4 – Mined Platforms with Vent Shaft @ Goldsmiths



- Key
- Unpaid concourse
  - Paid concourse
  - Station accommodation
  - MEP
  - Fire
  - Car Park
  - Sewers

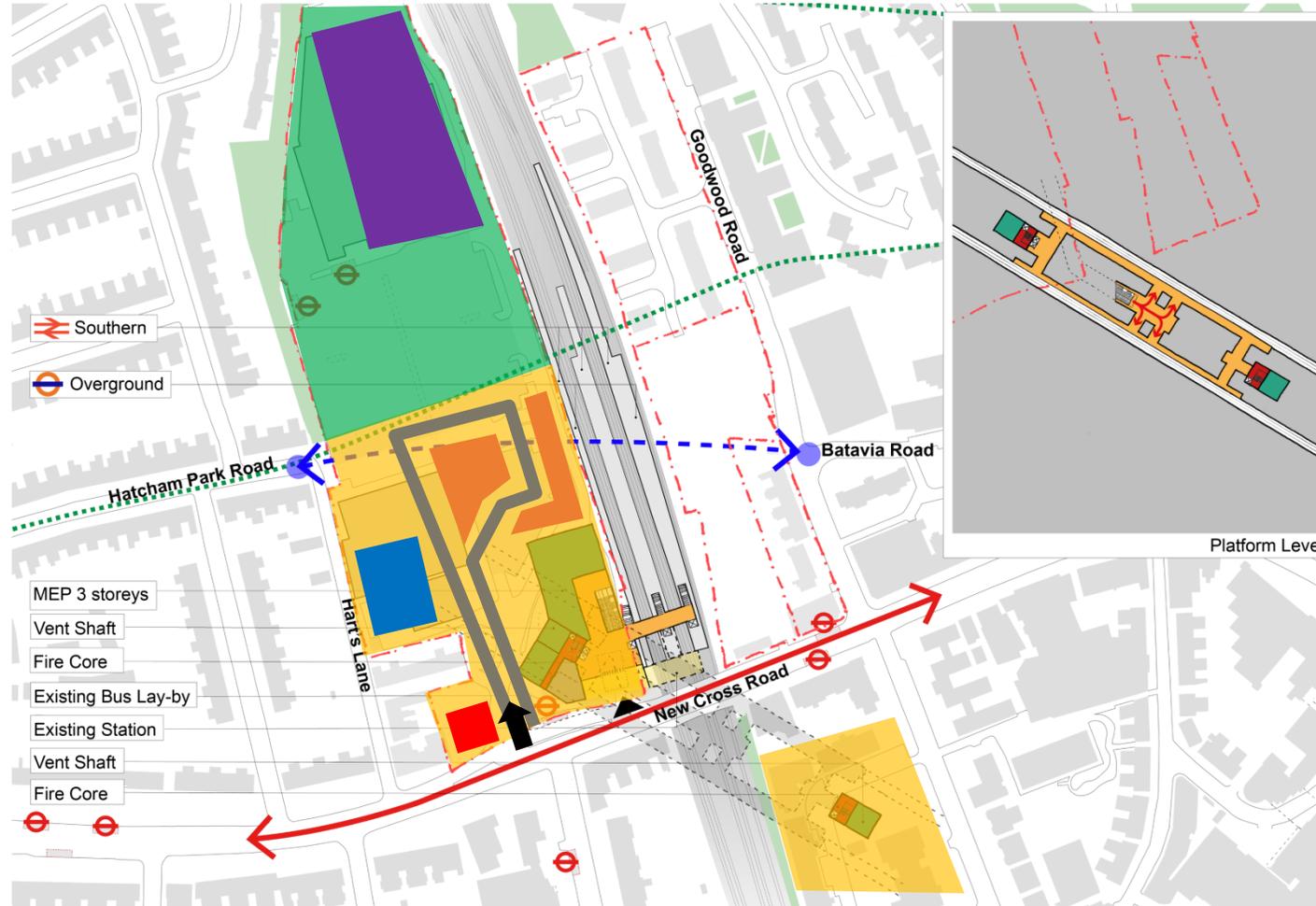
# Option 4 – Worksite Requirements



**Key**

- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point

# Option 4 – Worksite Requirements (inc. satellite worksite)



**Key**

- Construction worksite
- Satellite worksite
- Welfare
- Haul Road
- Crane
- Materials Storage
- Slurry Treatment Plant
- Access point

 Southern  
 Overground

MEP 3 storeys  
 Vent Shaft  
 Fire Core  
 Existing Bus Lay-by  
 Existing Station  
 Vent Shaft  
 Fire Core

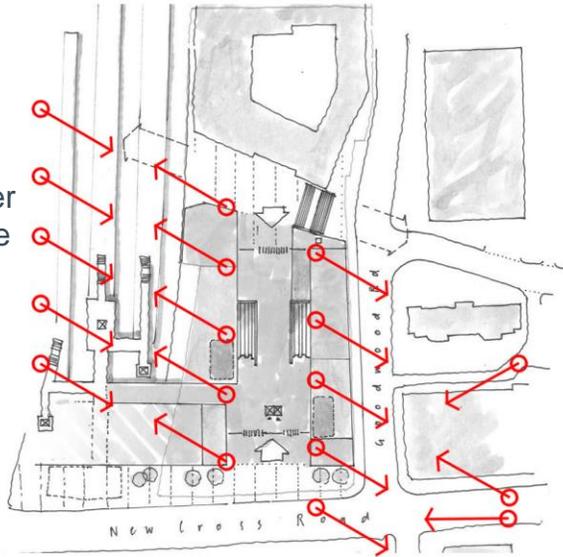
# S/MA Station Proposal

## Technical Considerations

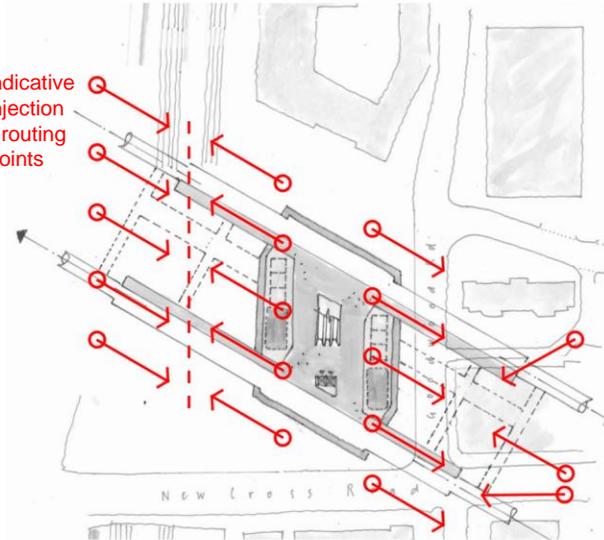
- Tunnelling and ground improvement
- Tunnel ventilation and fire egress adits
- Tunnel cooling equipment requirements

# S/MA Station Proposal – Ground Improvement

Ground improvement under railway carried out from the west site



Indicative Injection Grouting Points

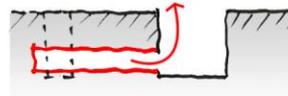


Ground improvement under adjacent properties from roads and private sites

Least complex



Box

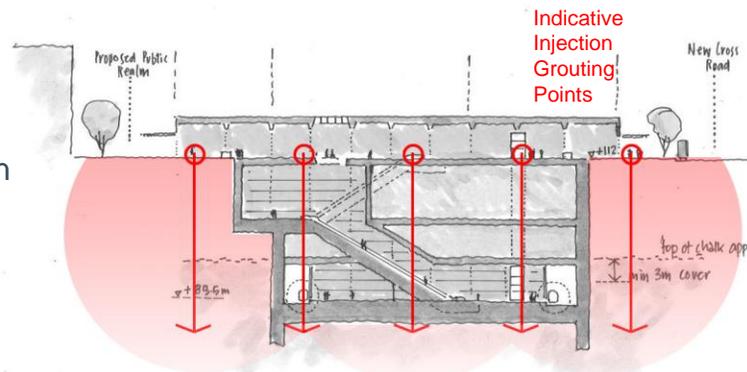


Single-direction mining

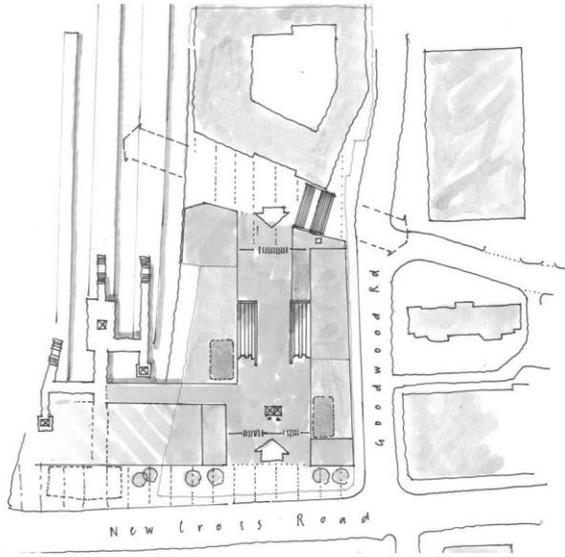
Most complex



Two-direction mining



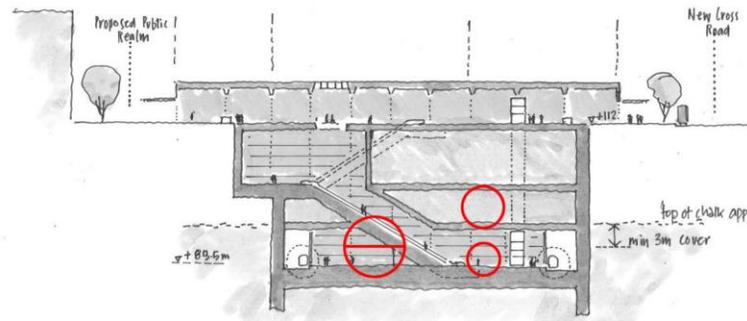
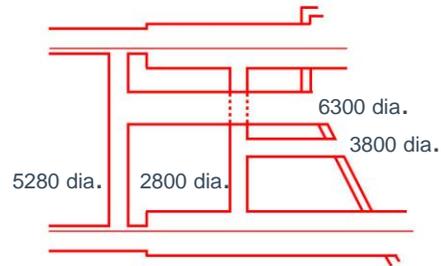
# S/MA Station Proposal – Tunnel Vent and Fire Egress



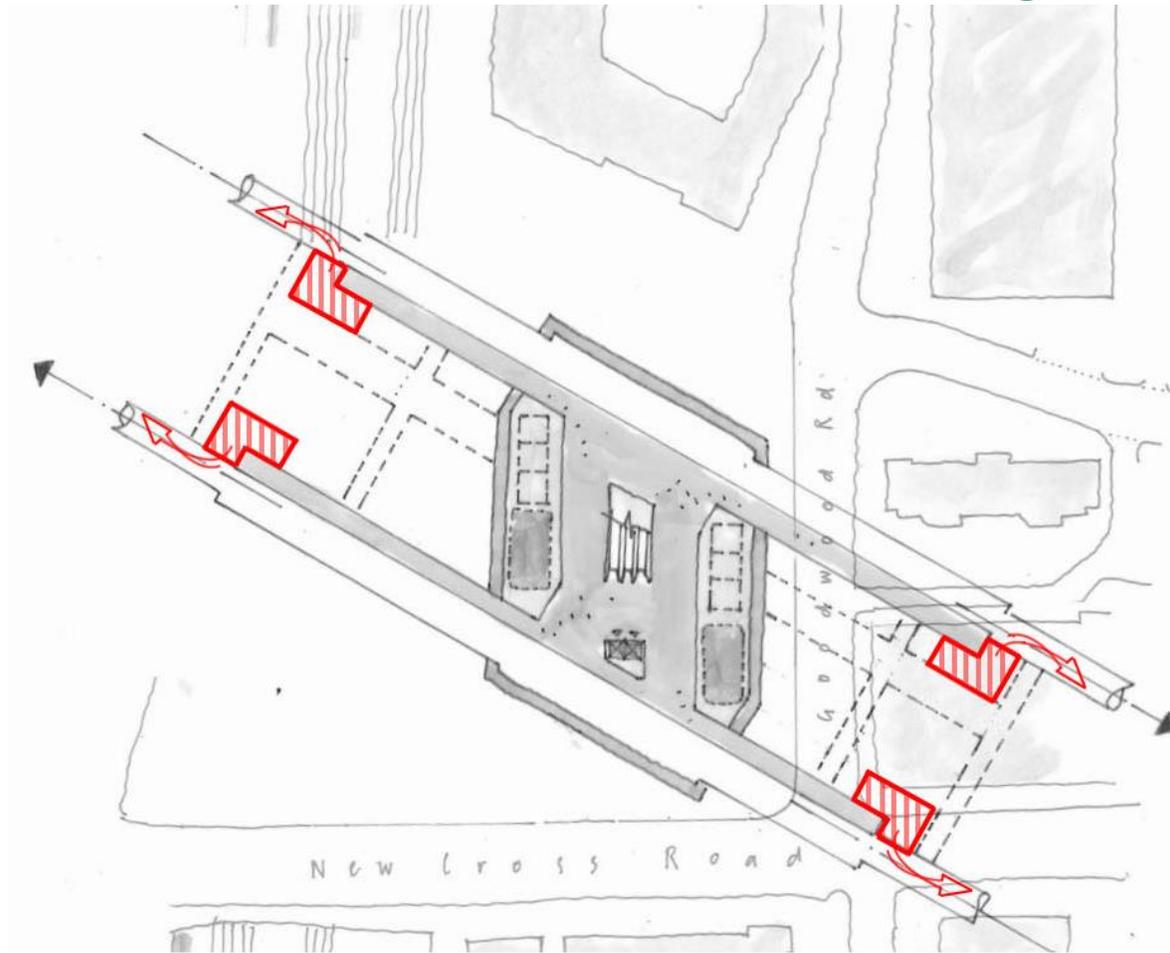
Optimised TVF to be at platform ends



Increased tunnel ventilation duct length leads to increased fan sizes



# S/MA Station Proposal – Tunnel Cooling



Tunnel cooling equipment  
at all four platform ends

# Construction Site Requirements

- Most similar to Option 2
- Would require social housing to the north
- Mined tunnels under NXG station



# Rail Construction Logistics

