

Bakerloo Line Extension New Cross Gate Station

Sainsbury's/Mount Anvil Progress Meeting
Thursday 22nd March 2018

Agenda

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

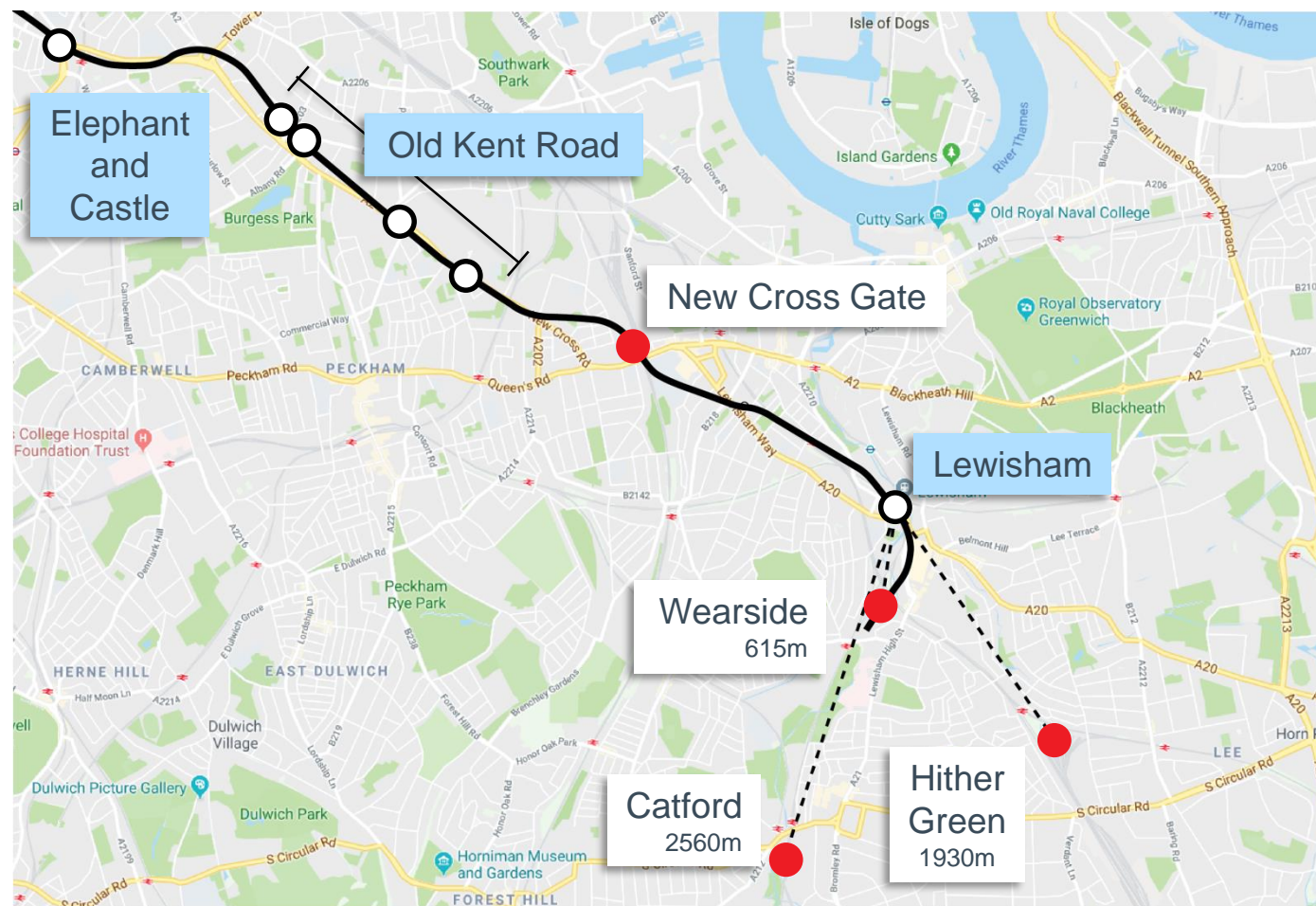
Introduction

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

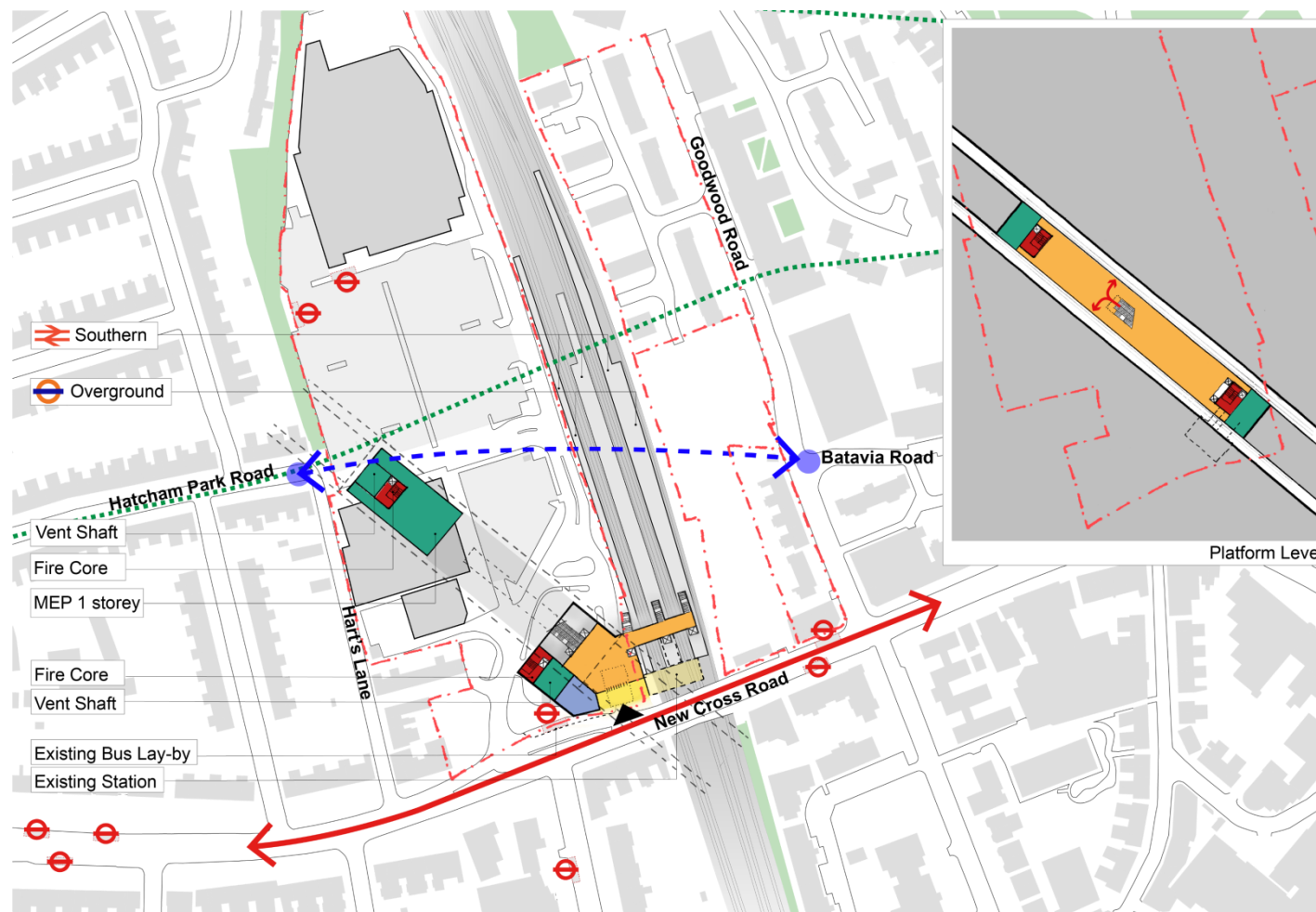
Line-wide Alignment and Worksite Options



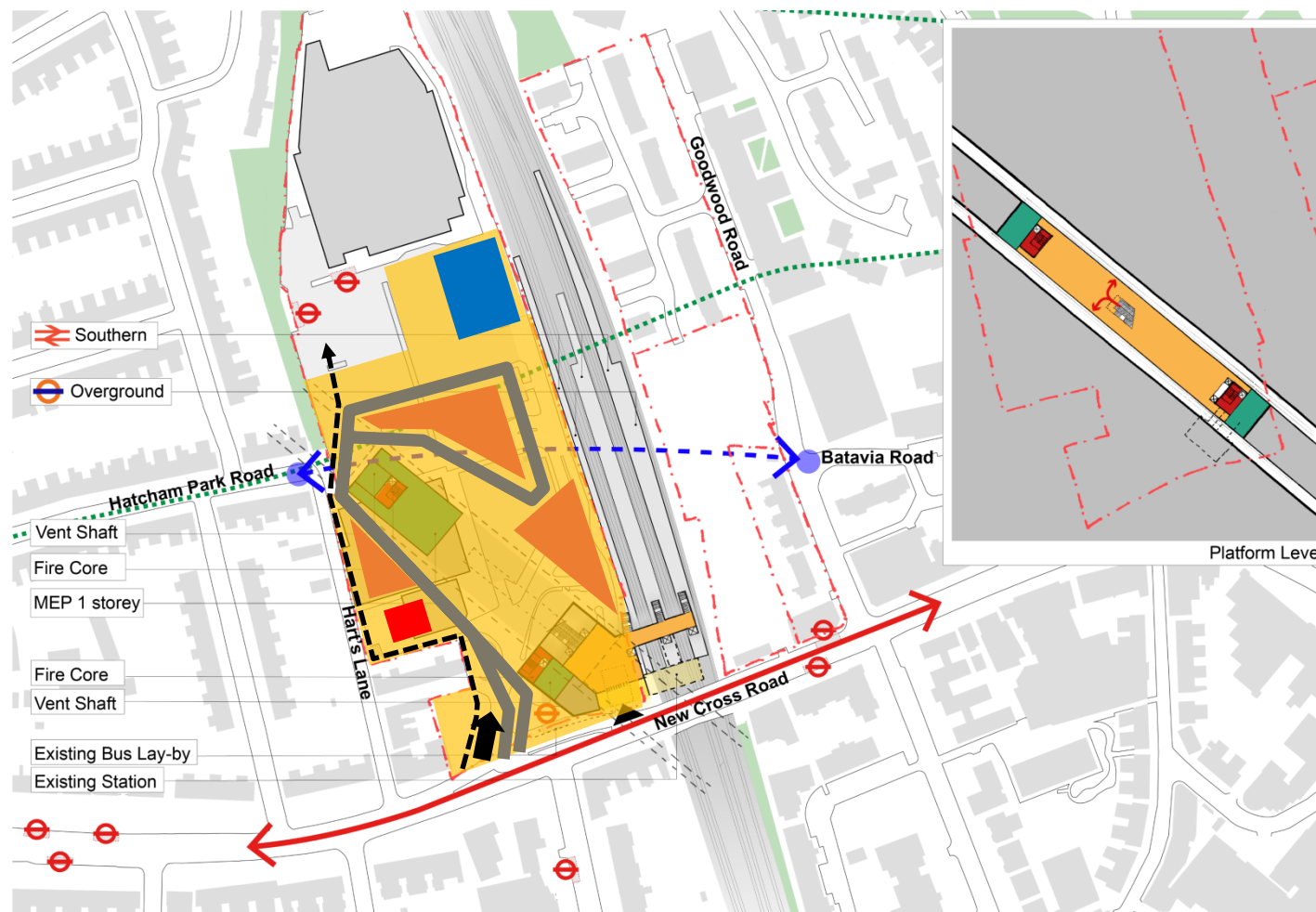
Key

- Worksites
- Proposed Stations

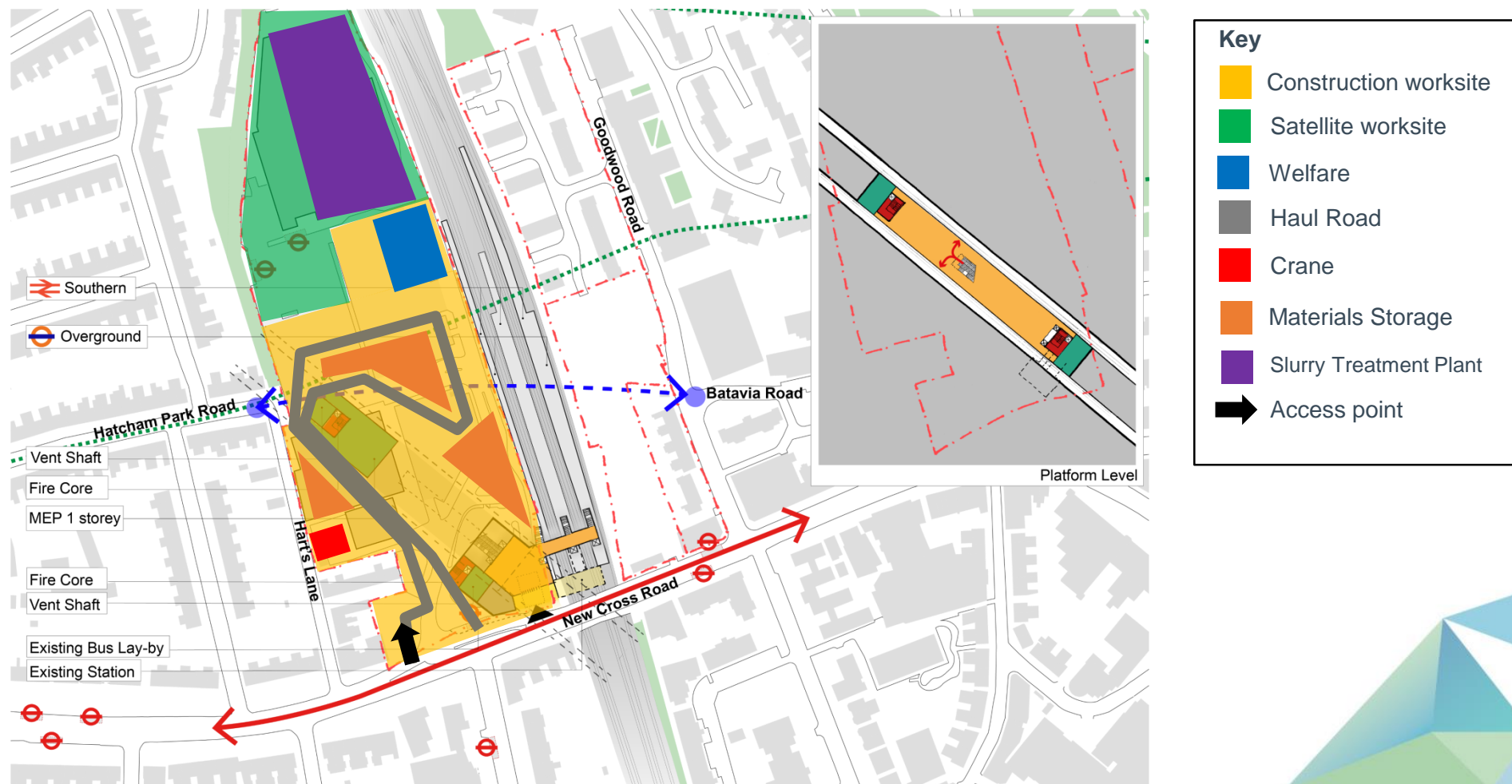
Option 1 – Baseline Consulted Scheme



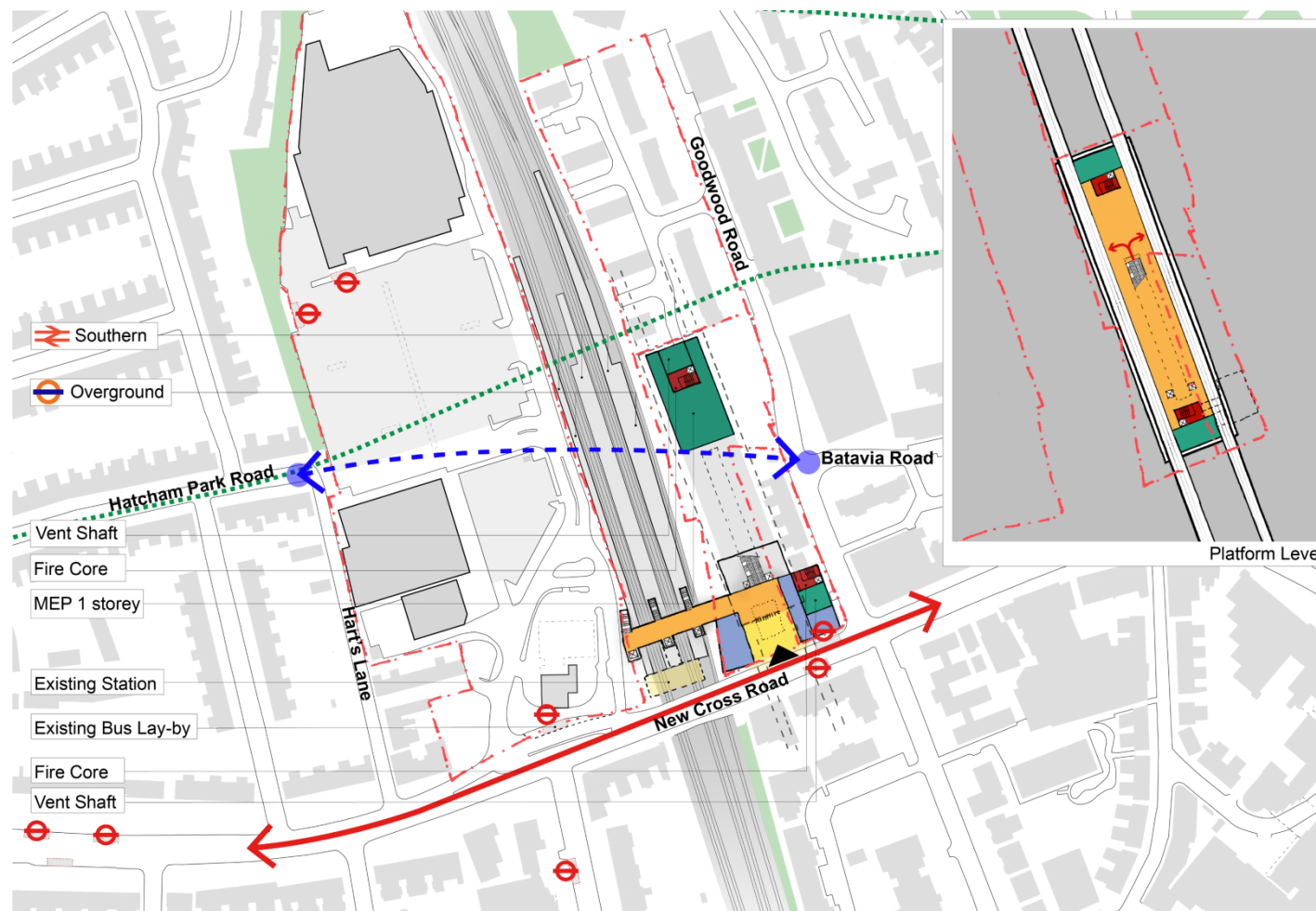
Option 1 – Worksite Requirements



Option 1 – Worksite Requirements (inc. satellite worksite)



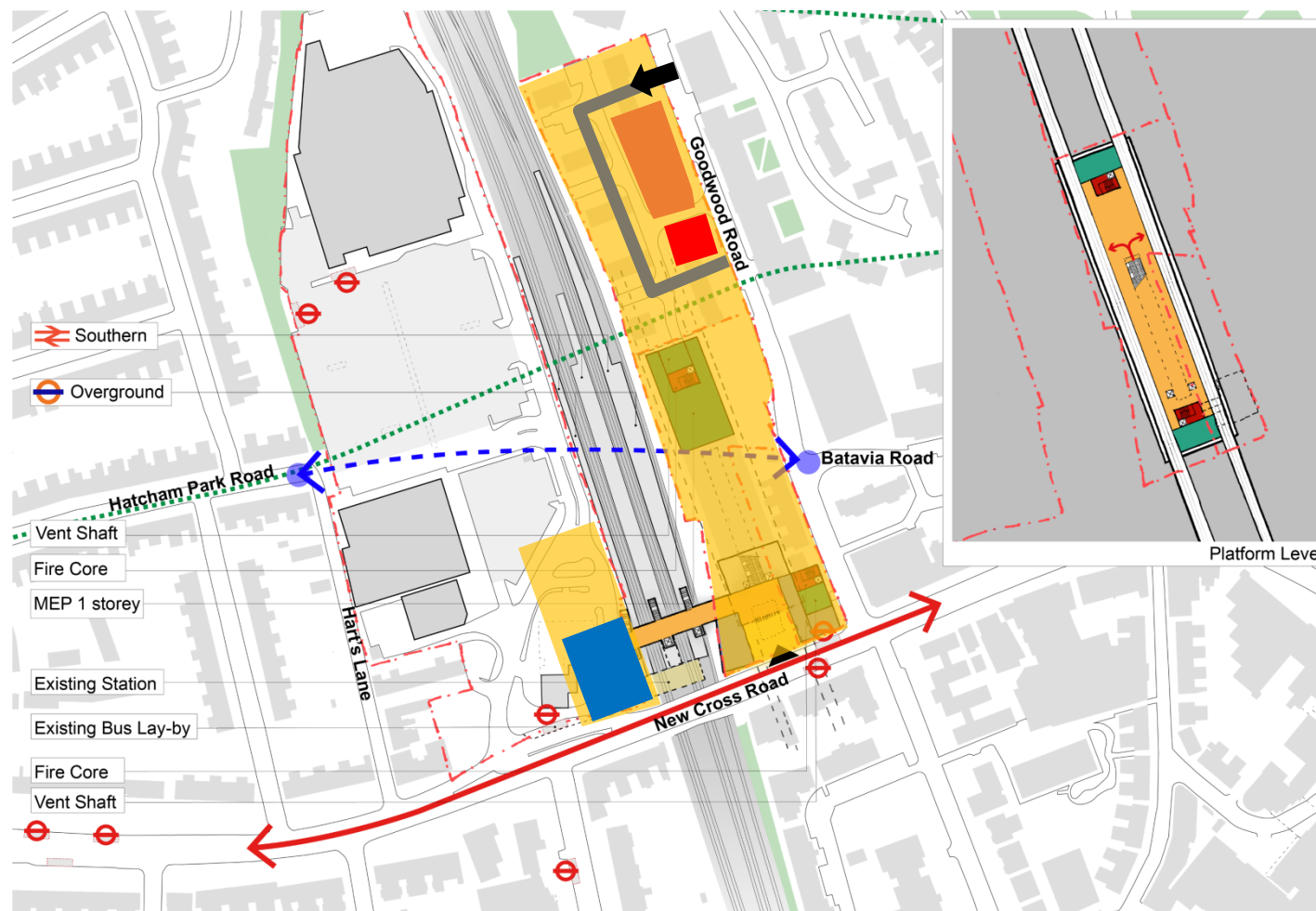
Option 2 – Station Box on the East



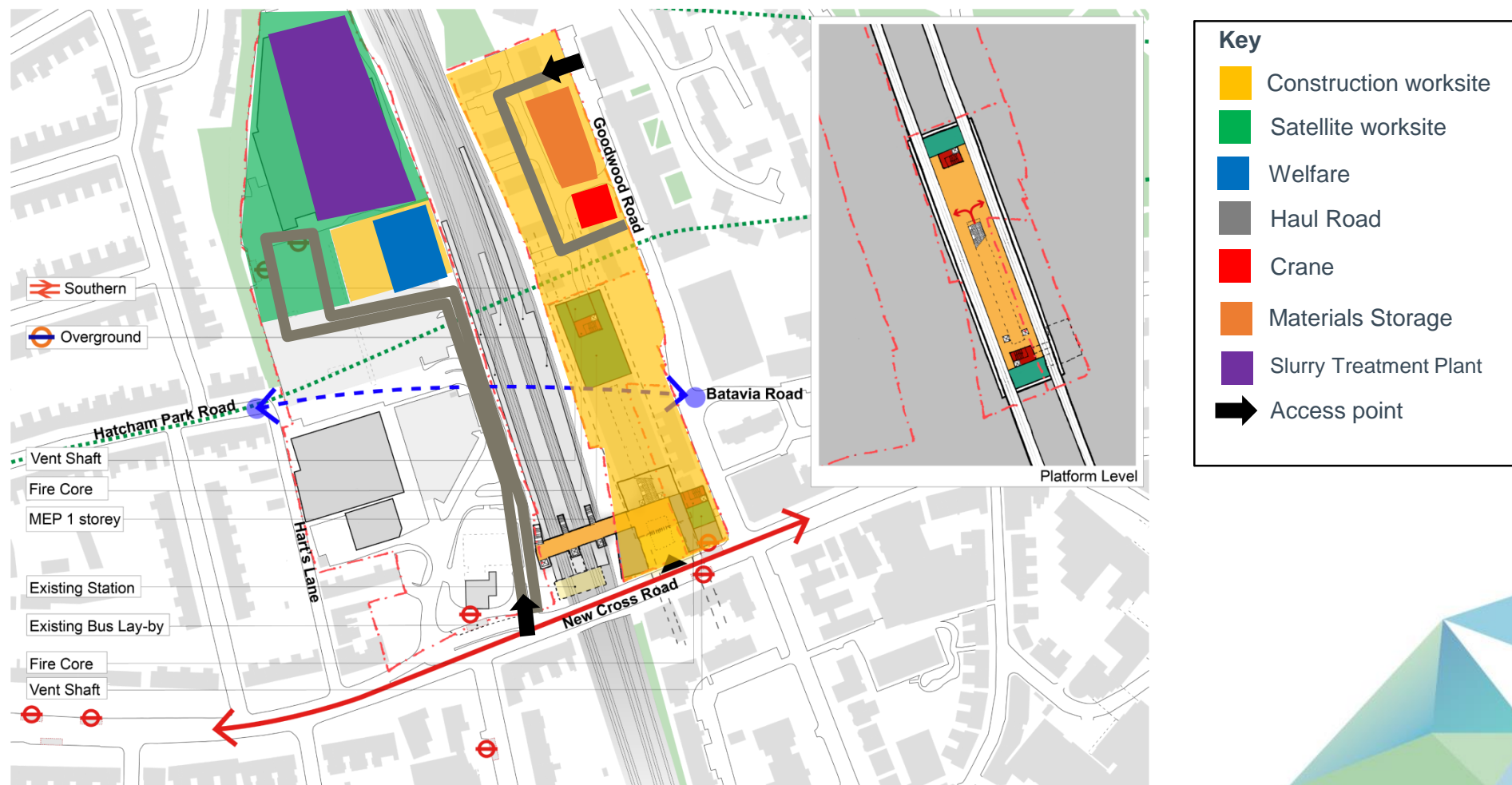
Key

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

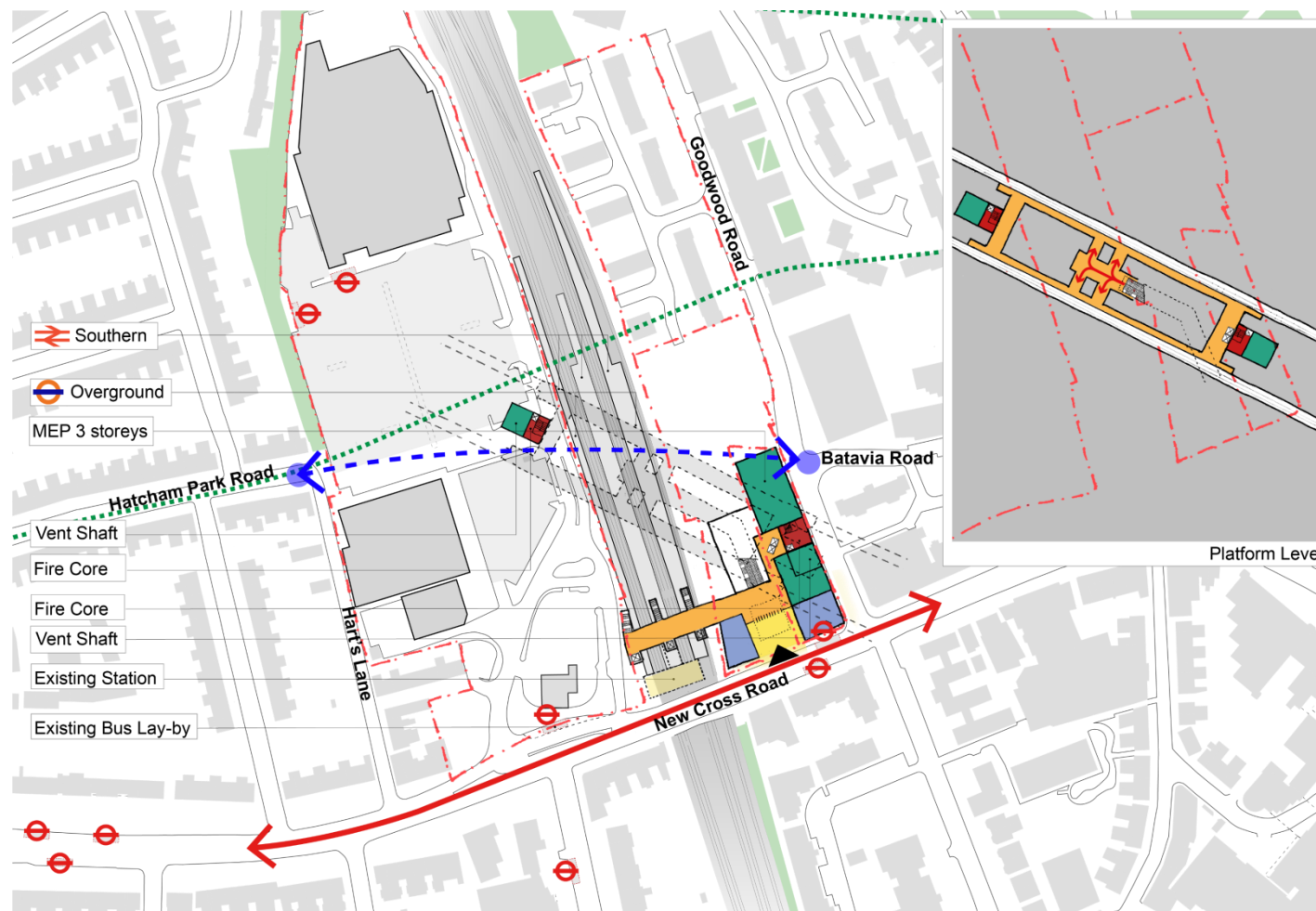
Option 2 – Worksite requirements



Option 2 – Worksite requirements (inc. satellite worksite)



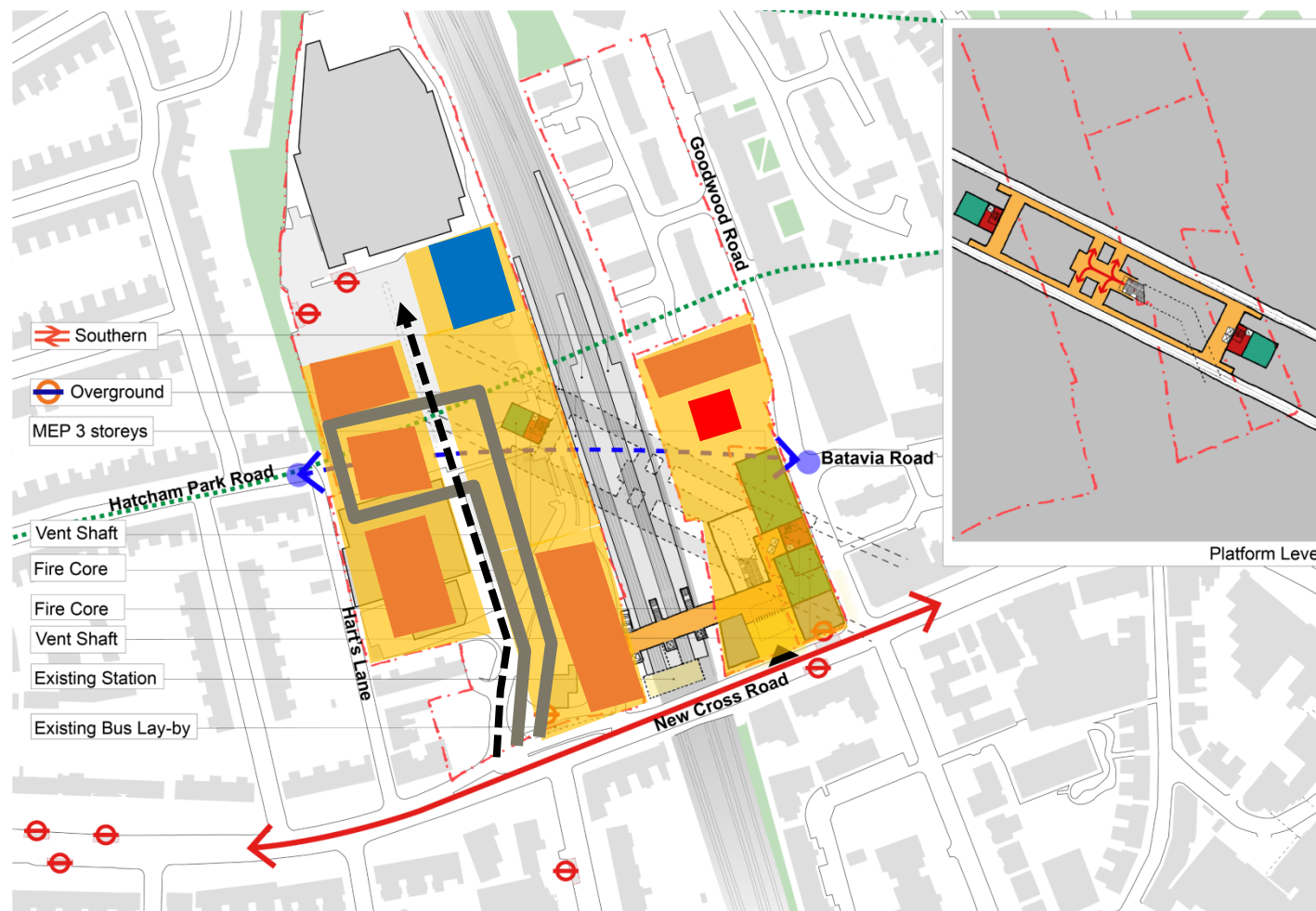
Option 3 – Mined Platforms



Key

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

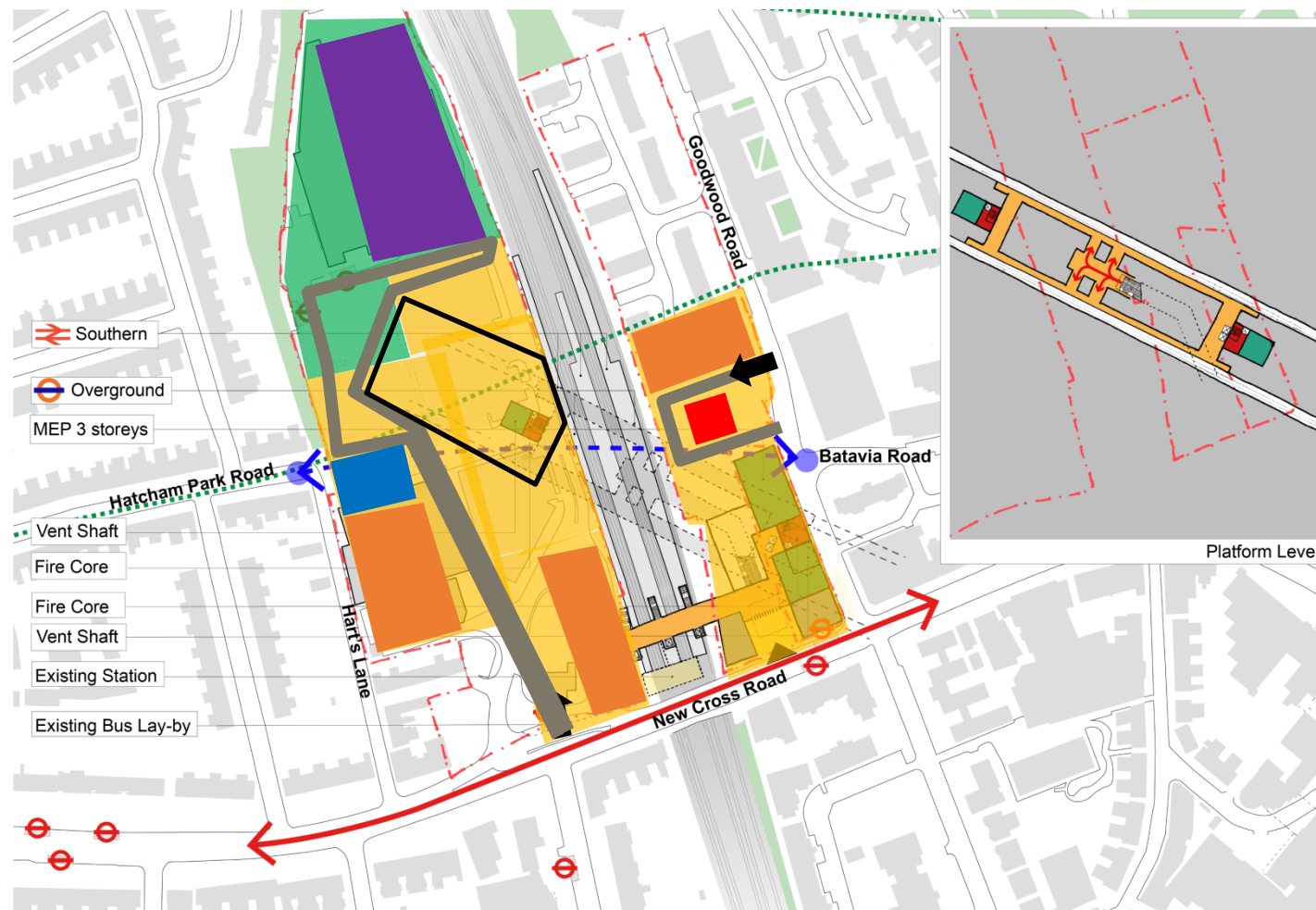
Option 3 – Worksite Requirements



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

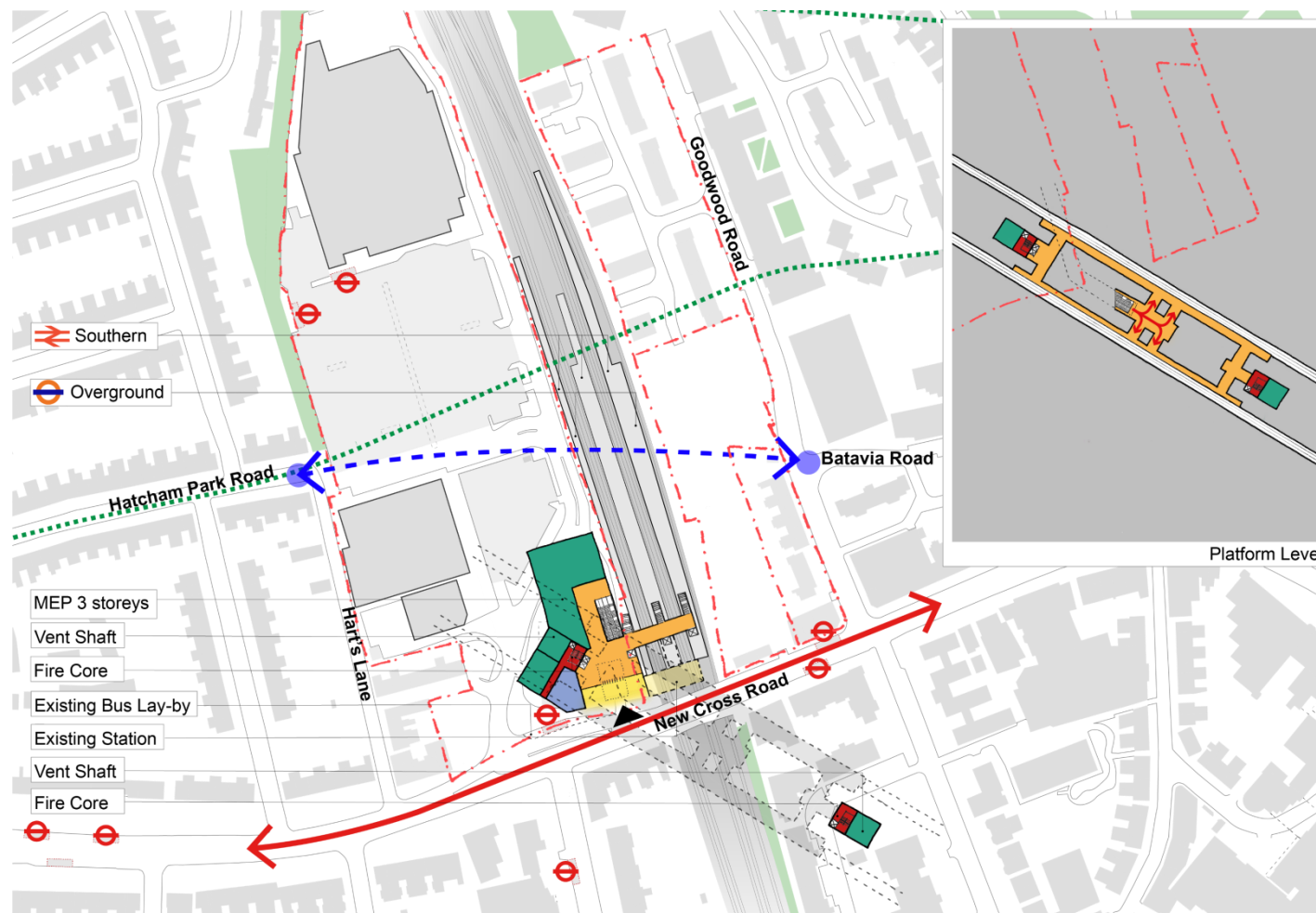
Option 3 – Worksite Requirements (inc. satellite worksite)

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

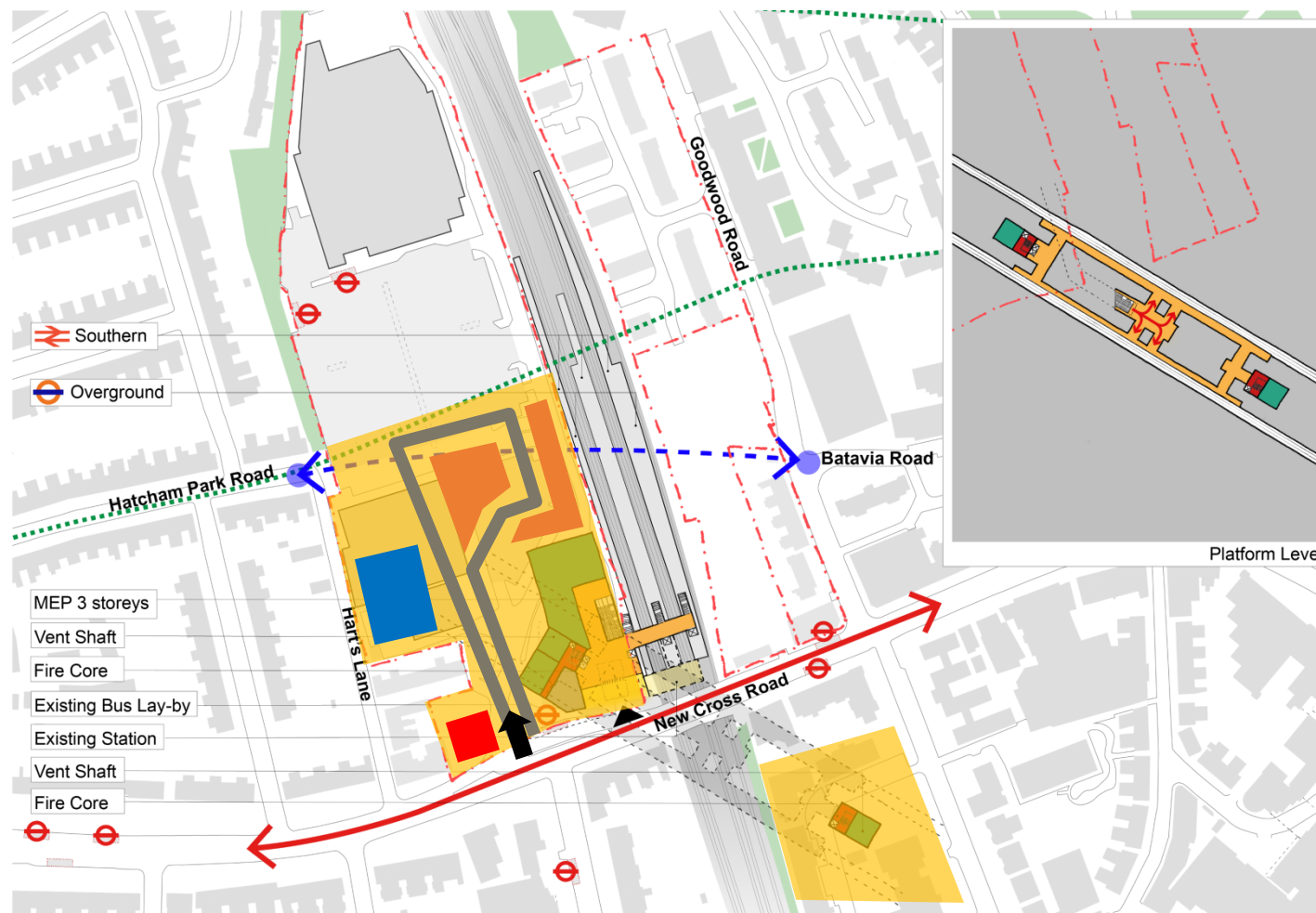


Key	
	Construction worksite
	Satellite worksite
	Welfare
	Haul Road
	Crane
	Materials Storage
	Slurry Treatment Plant
	Access point

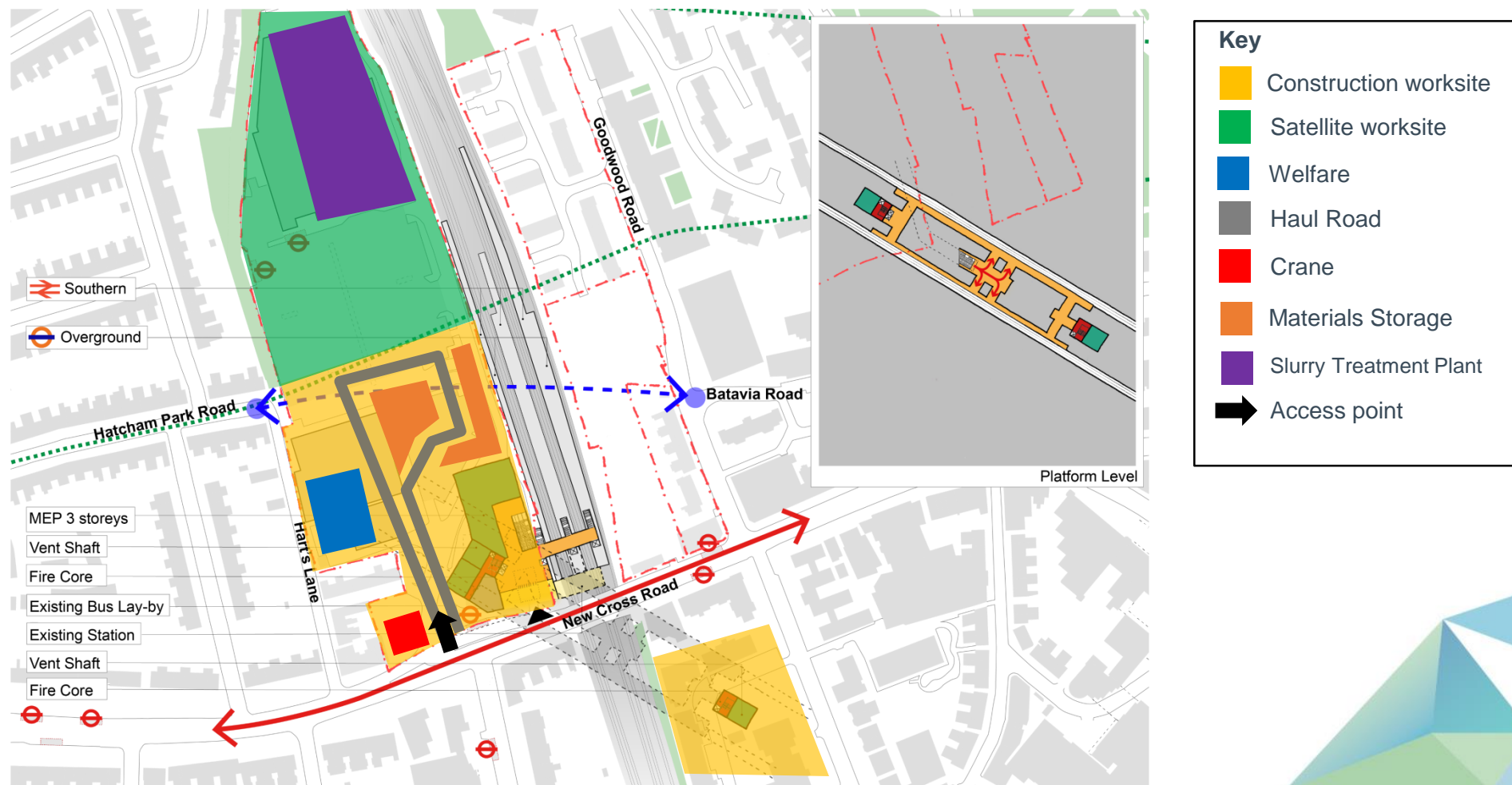
Option 4 – Mined Platforms with Vent Shaft @ Goldsmiths



Option 4 – Worksite Requirements



Option 4 – Worksite Requirements (inc. satellite worksite)



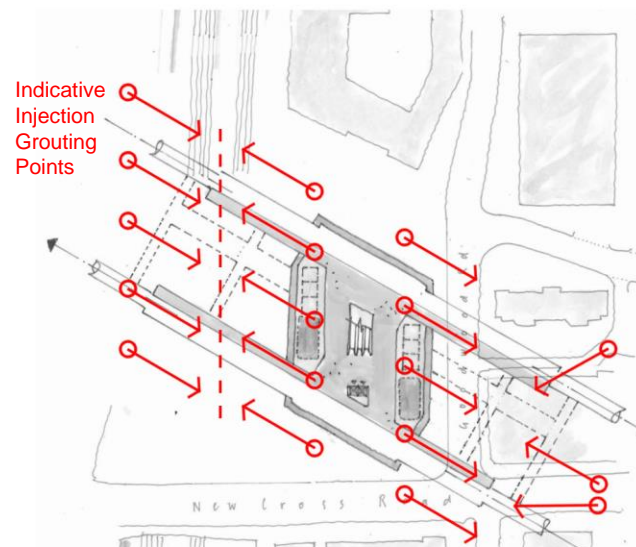
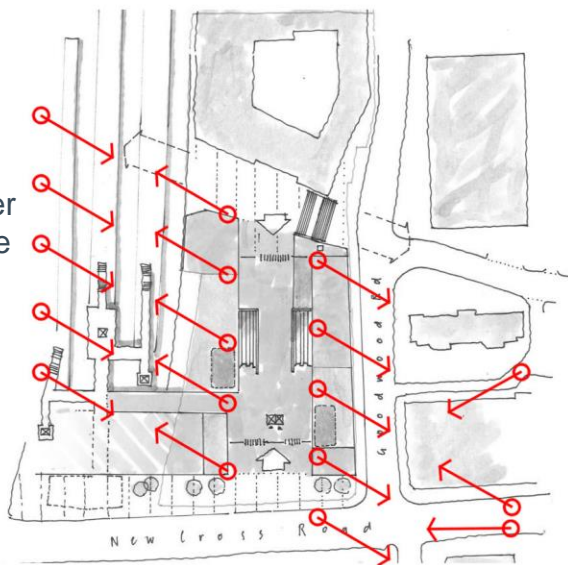
S/MA Station Proposal

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

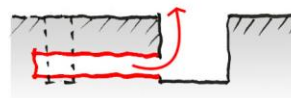


Ground improvement under adjacent properties from roads and private sites

Least complex



Box

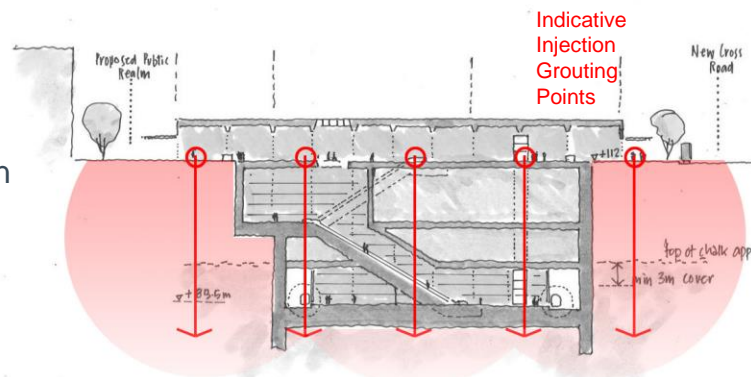


Single-direction mining

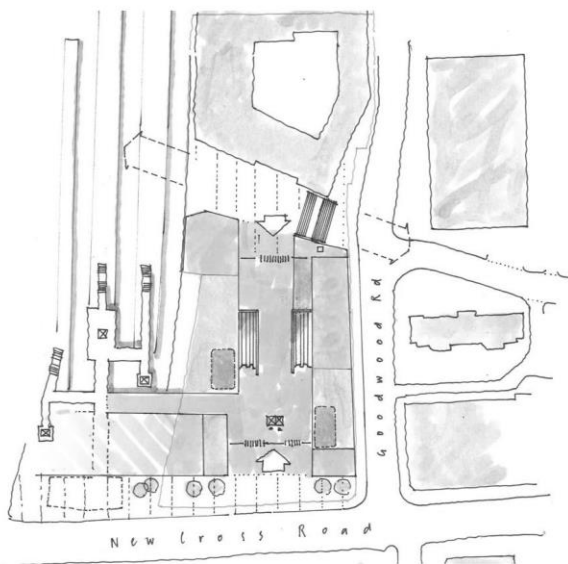
Most complex



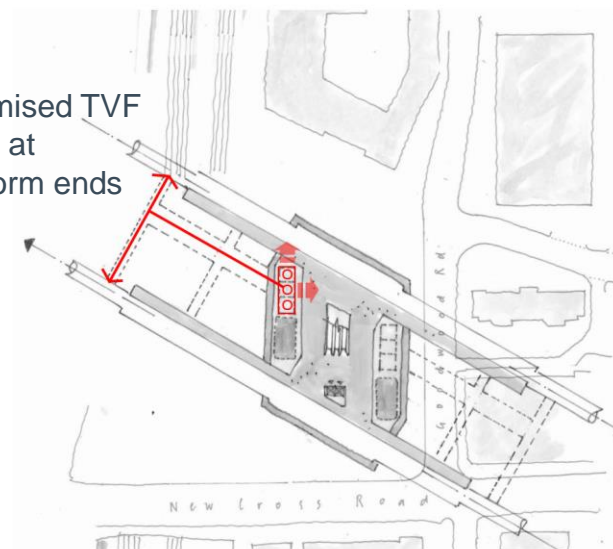
Two-direction mining



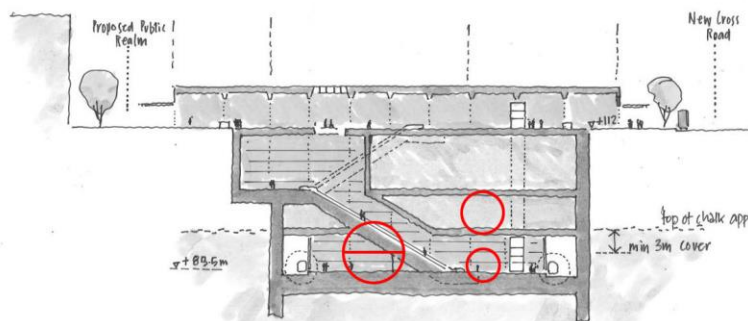
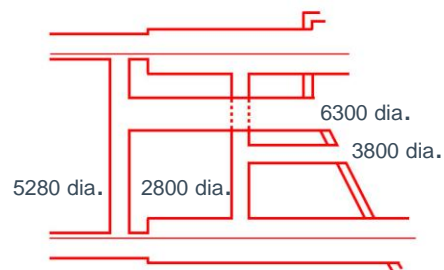
S/MA Station Proposal – Tunnel Vent and Fire Egress



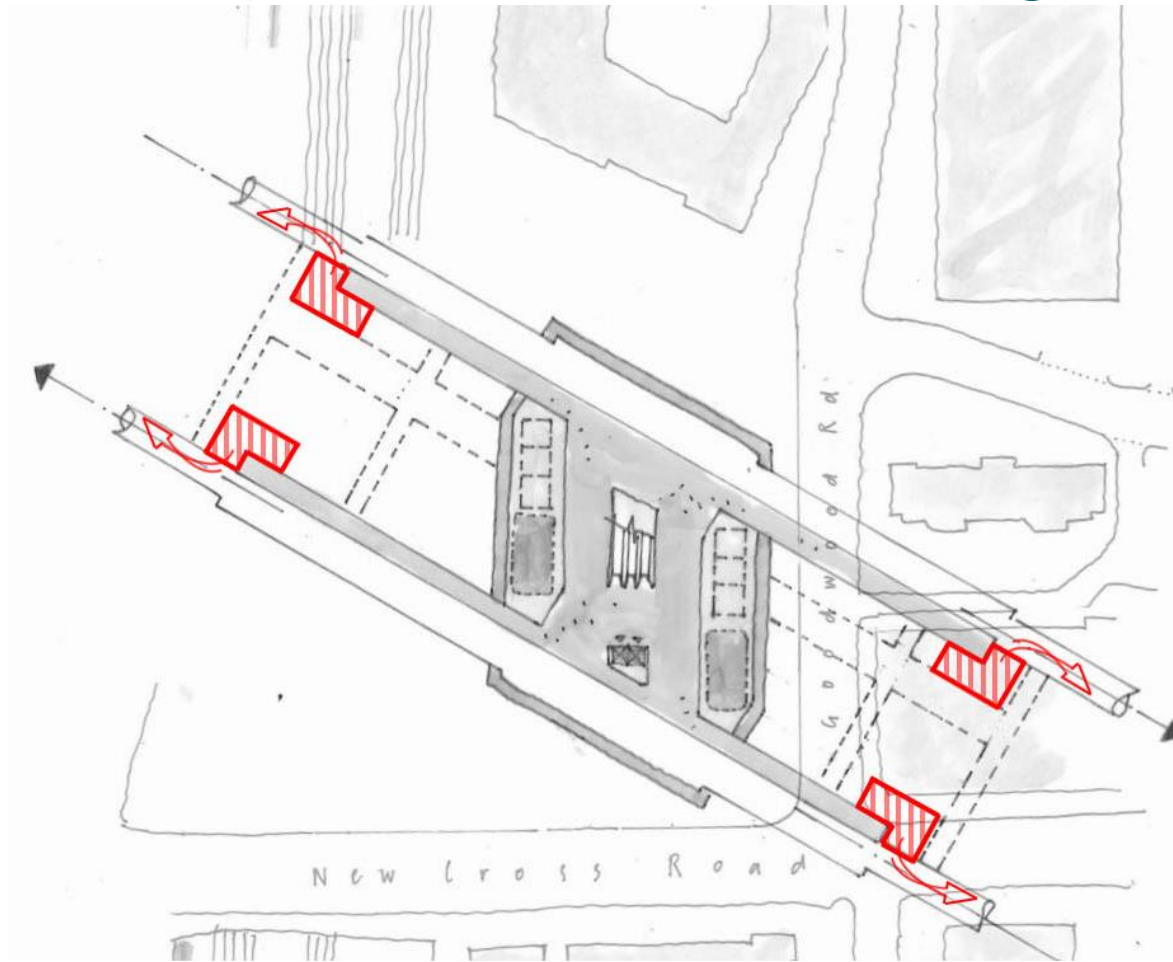
Optimised TVF
to be at
platform ends



Increased tunnel ventilation
duct length leads to
increased fan sizes



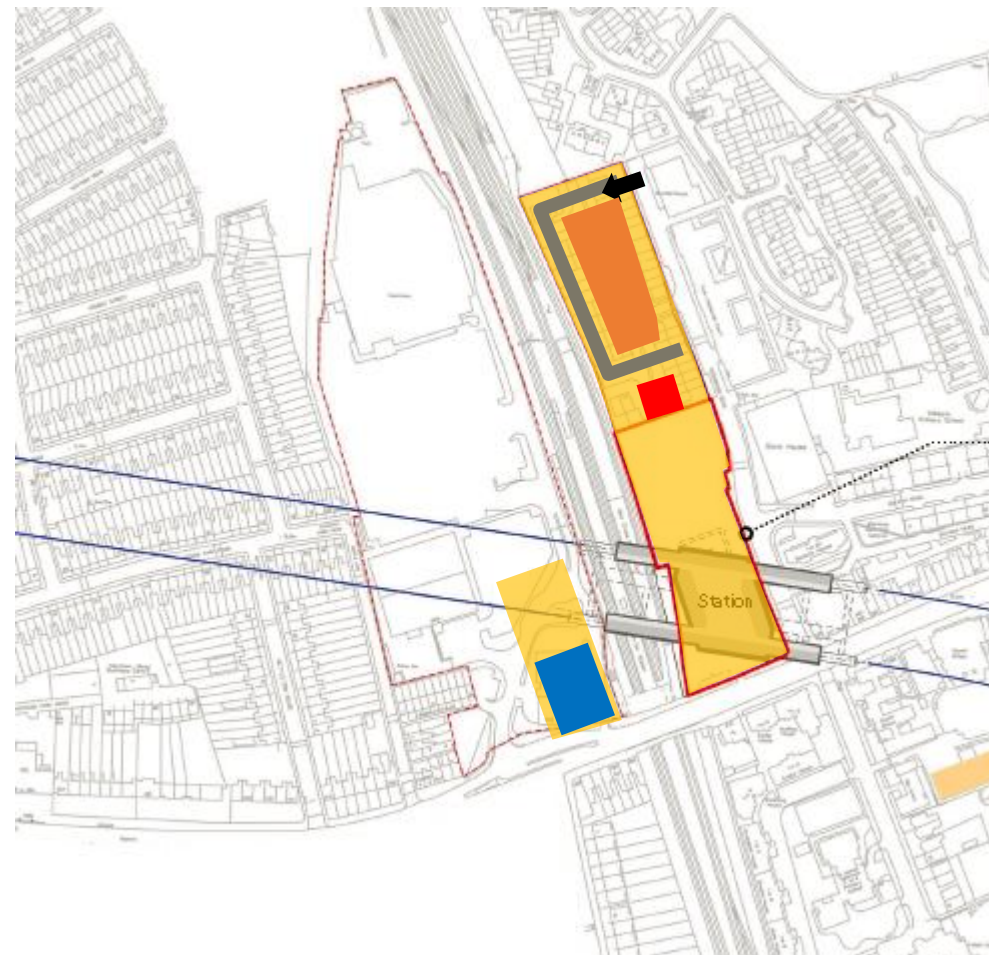
S/MA Station Proposal – Tunnel Cooling



Tunnel cooling equipment
at all four platform ends

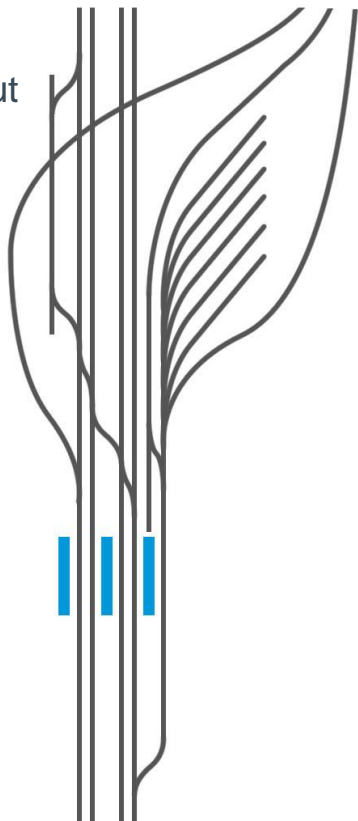
Construction Site Requirements

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

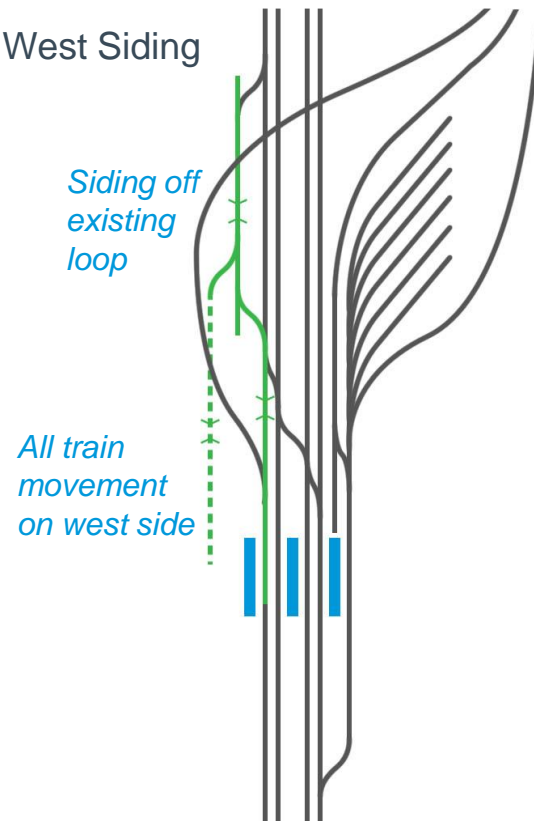


Rail Construction Logistics

Existing
Track Layout



West Siding



East Siding

