

# EXHIBIT LIST

Reference No: HOL/10018

Petitioner: EUSTON STANDARD PACK

Published to Collaboration Area: Thursday 08-Sep-2016

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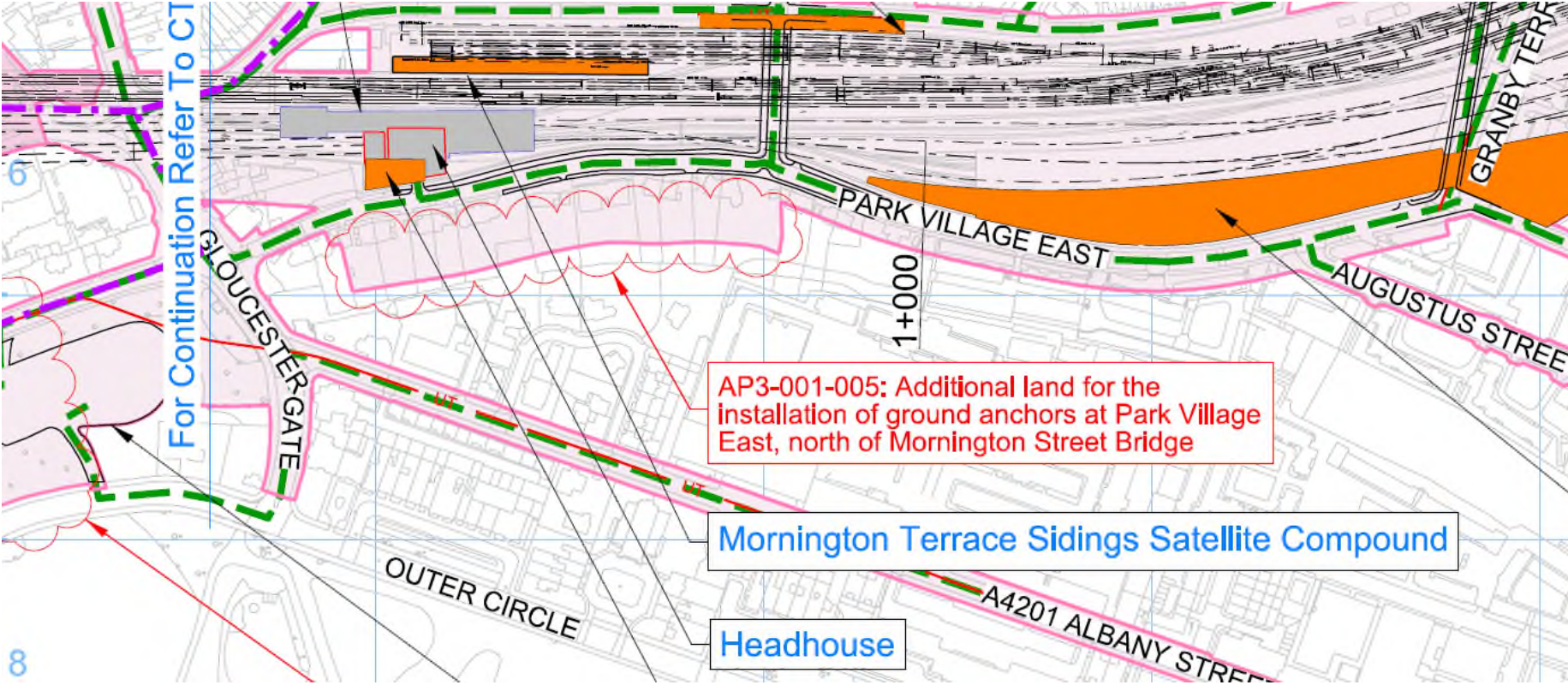




# Park Village East & Parkway

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# Park Village East & Parkway



# Introduction

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- It should be noted that exhibits are provided by topic (e.g. air quality, traffic and transport, construction compounds) under the relevant headings of the 'Promoter's Exhibits: Documents'.
- These slides provide some additional specific information for the Park Village East area.

# Key Activities for Park Village East

Timeline	Stage	Detail
Q3 2016 -Q4 2018	Utilities in Park Village East	Primarily initial diversion of 42" water main, sewer, gas main and communication cables
Q3 2017 -Q4 2017	Ramp into cutting constructed at Granby Terrace	First significant construction vehicles into Station Approach at track level
Q4 2017 – Q3 2018	Construct temporary utilities bridge at Mornington Street	To the south of Mornington Street Bridge and will include stair and ramp access for pedestrian and cycle (dismounted) movements.
End by Q3 2017 (Line E). End by Q4 2018 (Line X)	Network Rail enabling works	NR reconfigure OHLE gantries and other railway systems to facilitate removal of Lines E and X
Q3 2017 – Q2 2020	Install ground anchors	Ground anchors installed above track-level to strengthen retaining walls. Installation works are non-continuous and staged intermittently over this period of works.

# Key Activities for Park Village East

Timeline	Stage	Detail
Q3-Q4 2018	Demolish Mornington Street Bridge	Removal of existing bridge. Listed assets will be stored until they can be reinstated as per the Heritage Agreement, which will be made with LBC
Q4 2018 – Q3 2023	Construct portal structure	Will include the removal of the existing central retaining wall followed by the construction of a contiguous piled wall. A proportion of this work will be undertaken during possessions.
Q2 2019 – Q1 2020	Barrette construction at street level in Park Village East	A street-level work site will be established on PVE. This will extend approximately 150m restricting vehicular access to properties and move southwards from the north. Emergency and pedestrian access will be maintained. Capping of the barrettes may extend beyond this date.
Dec 2018- Dec 2021	Line X out of use	HS2 remove Line X, strengthen Bridge 7, construct Line X support, reinstate and realign Line X including new drainage
Q2 2022	TBM arrival	Preparation for first Tunnel Boring Machine (TBM) arrival
Q4 2023	Rail Systems	Rail Systems can commence installation in selected areas
Q3 2023	Head house construction	Complete civils for the portal headhouse to enable fit out



# Park Village East – Barrette Wall Construction



1- Guide wall trench



2- Rebar & shutters



3- Guide walls concreted



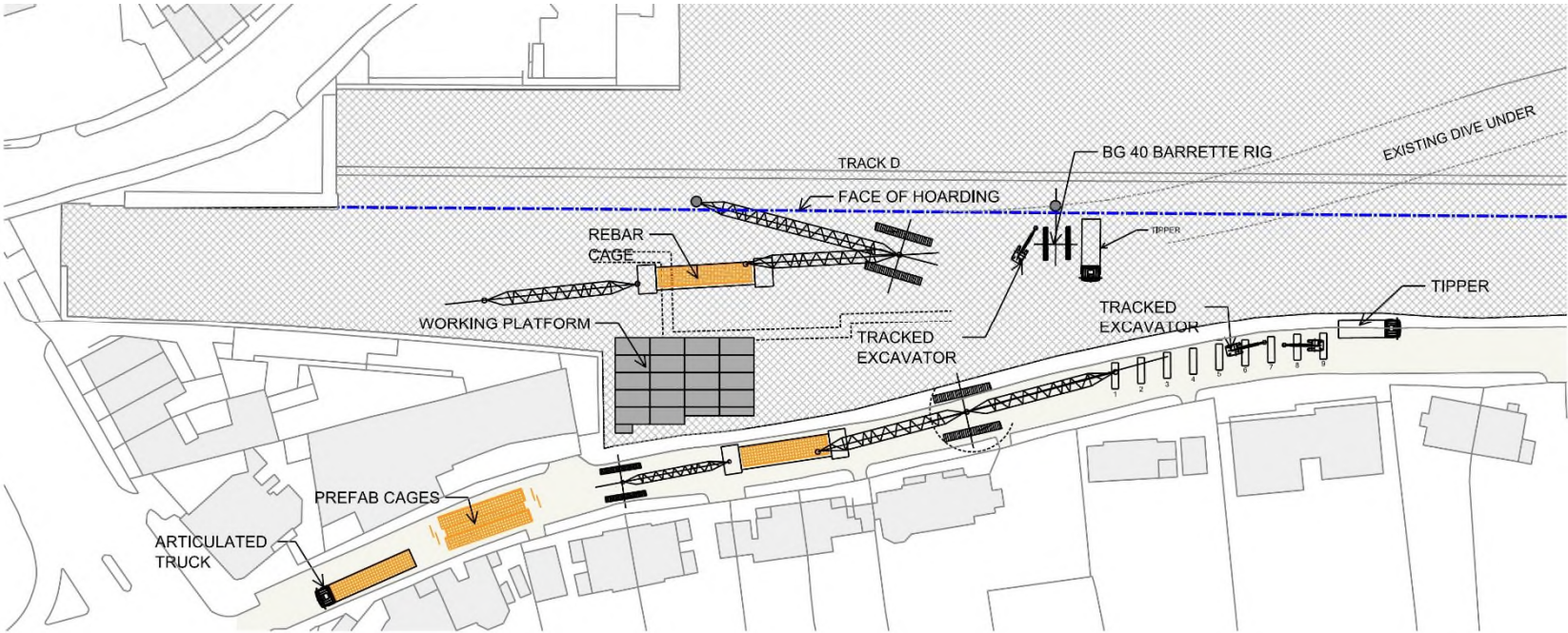
4- Back filled ready

# Park Village East – Barrette Wall Construction

- PVE works at street level extend approximately 150 m for a period of 6 months
- Works will also be taking place at track level

LEGEND

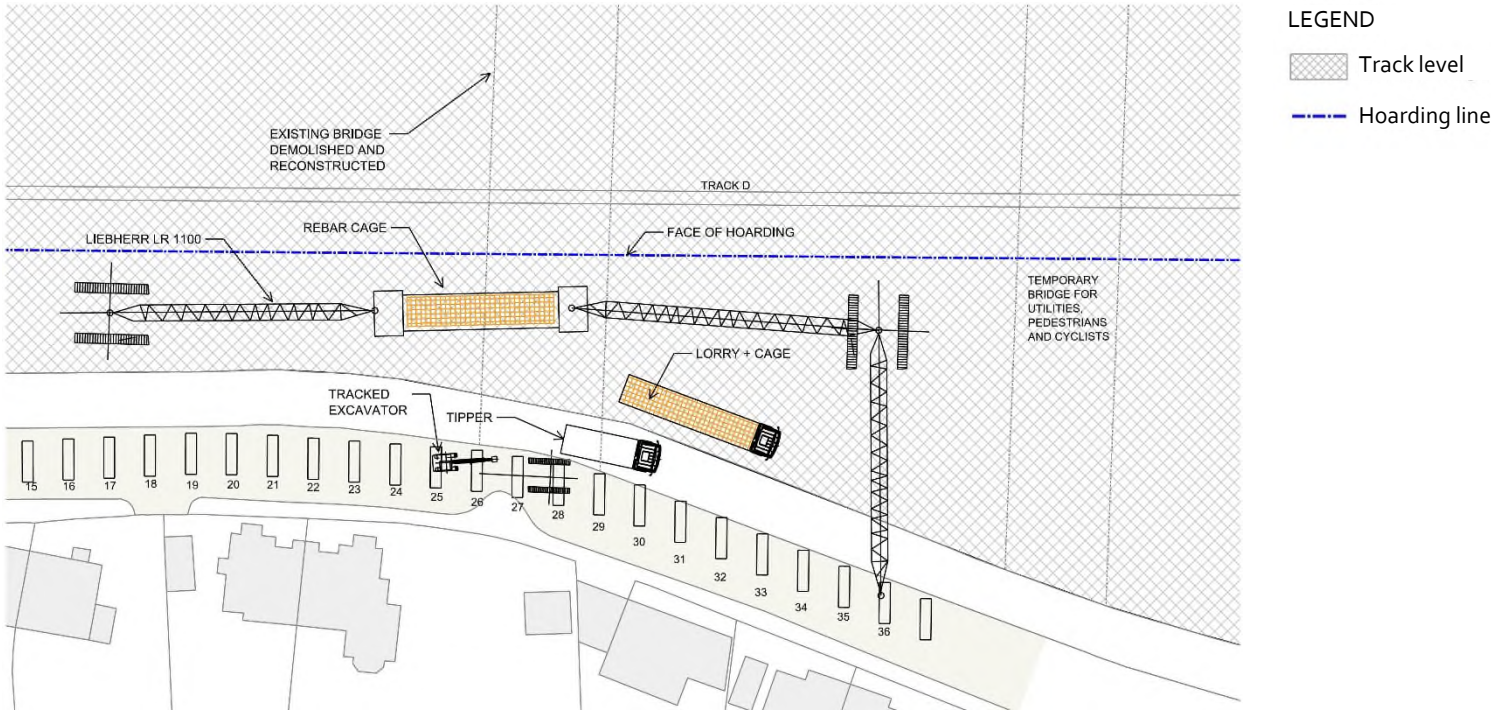
- ▨ Track level
- Hoarding line





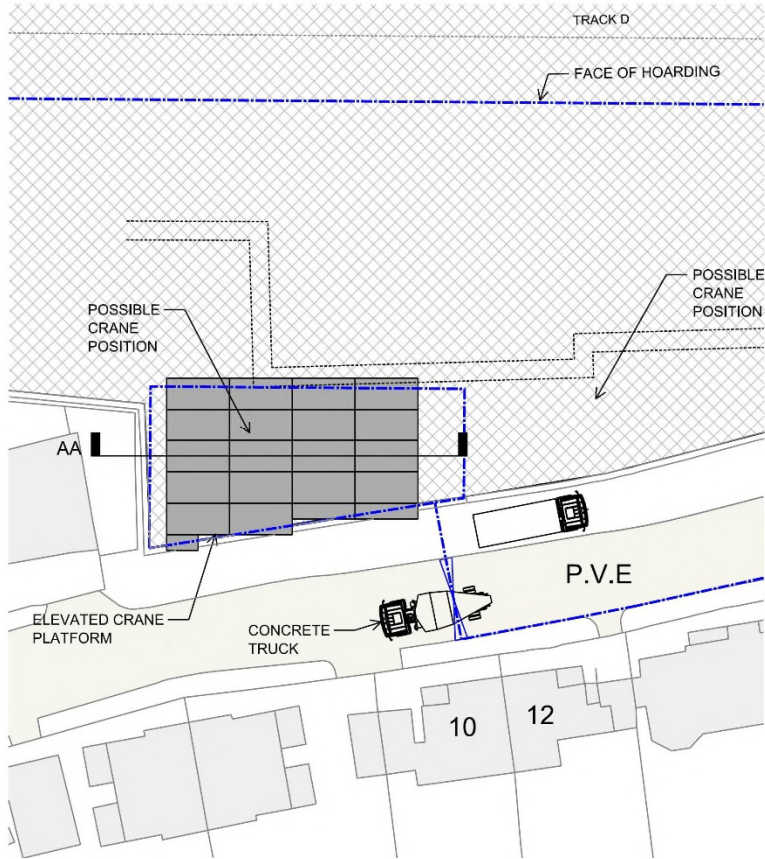
# Park Village East – Barrette Wall Construction

- Southern sector of site will have rolling work sites at street level of approximately 50 metres undertaken along Park Village East for a period of 9 months.
- Works will also be undertaken at track level.





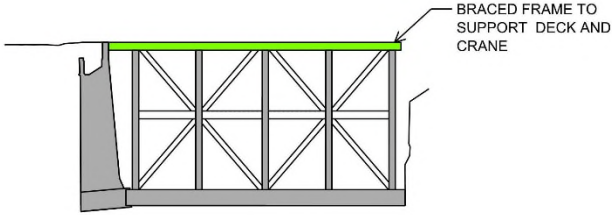
# Park Village East – Barrette Wall Construction

Park Village East satellite compound / logistics platform



LEGEND

-  Track level
-  Hoarding line



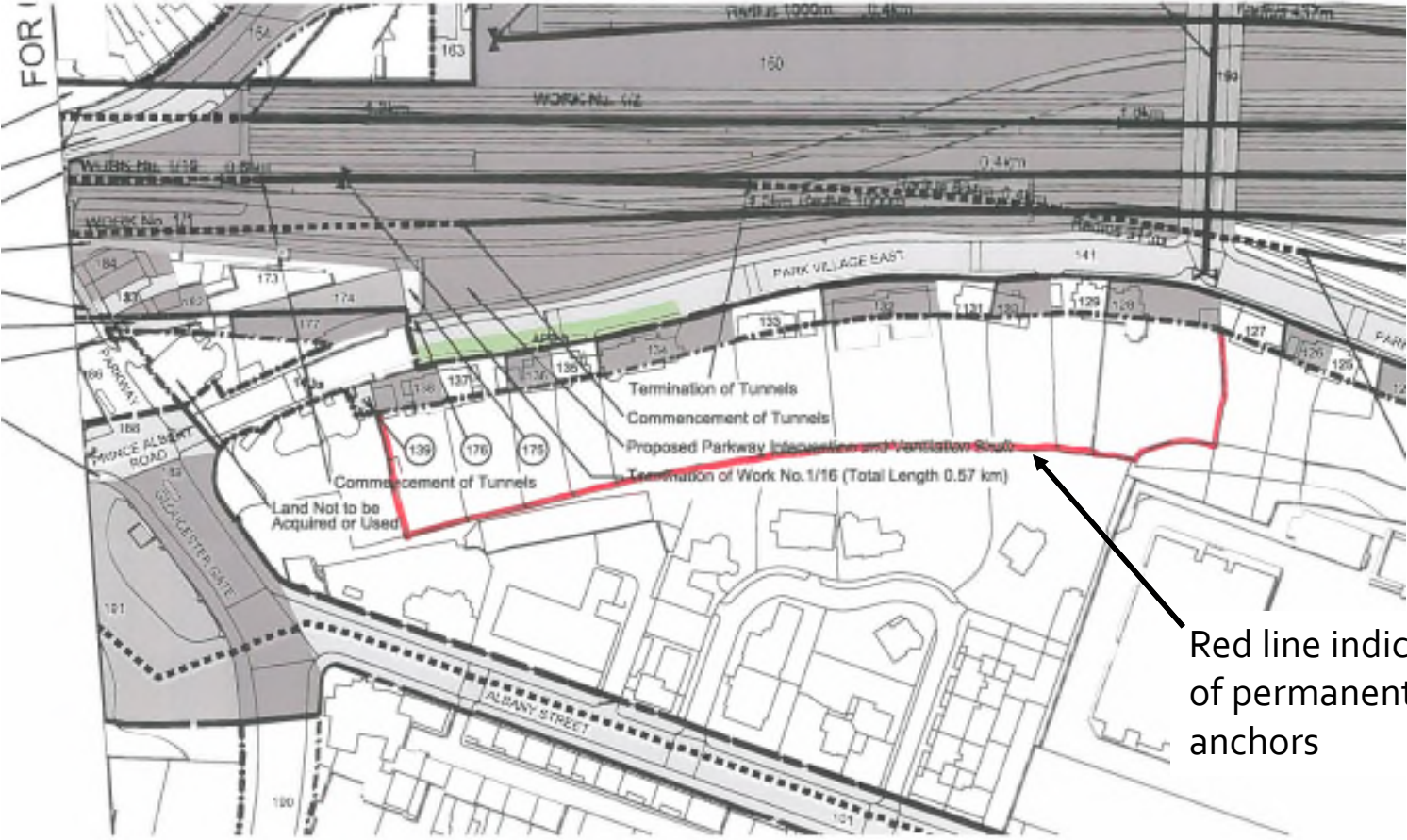
SECTION AA

# Ground Anchors

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- Settlement associated with anchors
  - Minor settlement can be expected when installed (up to 10mm). Similar has been observed when excavating compensation grouting tubes on Crossrail beneath buildings.
  - Following installation, the ground anchors minimise displacements to the properties thereafter from installing the retaining wall along Park Village East and the subsequent excavation to form the HS2 dive-under.

# Permanent Ground Anchors



Red line indicates extent of permanent ground anchors

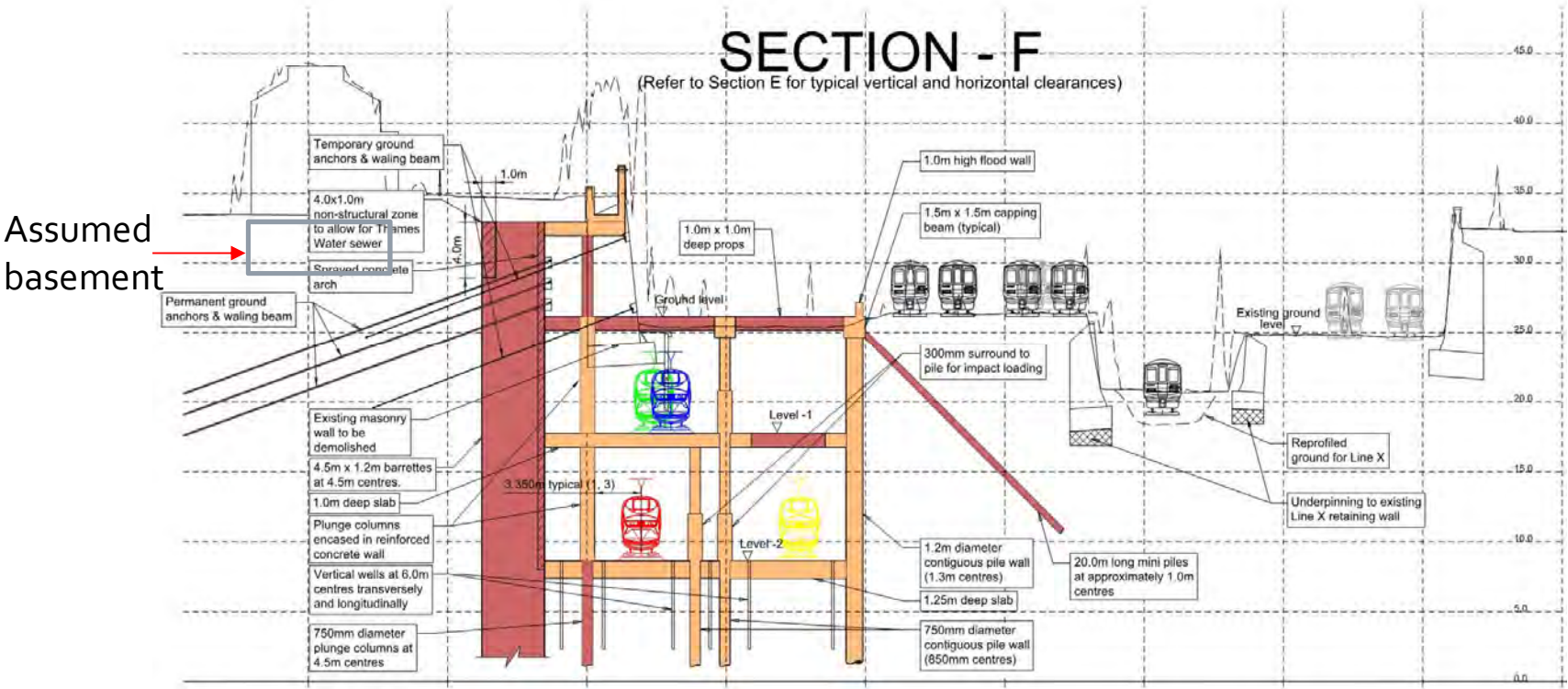


# Ground anchors



- Temporary ground anchors required during barrette construction are 20m long
- Permanent ground anchors may extend to property rear boundary
- Ground anchors will be installed from within the station approach/cutting

# Typical Basement/anchors



# Mornington Street Bridge Reconstruction

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Why is it needed?

- Western pier of current bridge sits over the location of proposed HS dive under;
- Current western bridge abutment to be removed and reconstructed as part of Park Village East retaining wall works to give clearance to high speed tracks;
- The age of the bridge and the length of construction means that temporary works to retain the bridge whilst allowing high speed dive under construction are not viable.

# Mornington Street Bridge Reconstruction

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## Proposed Scheme:

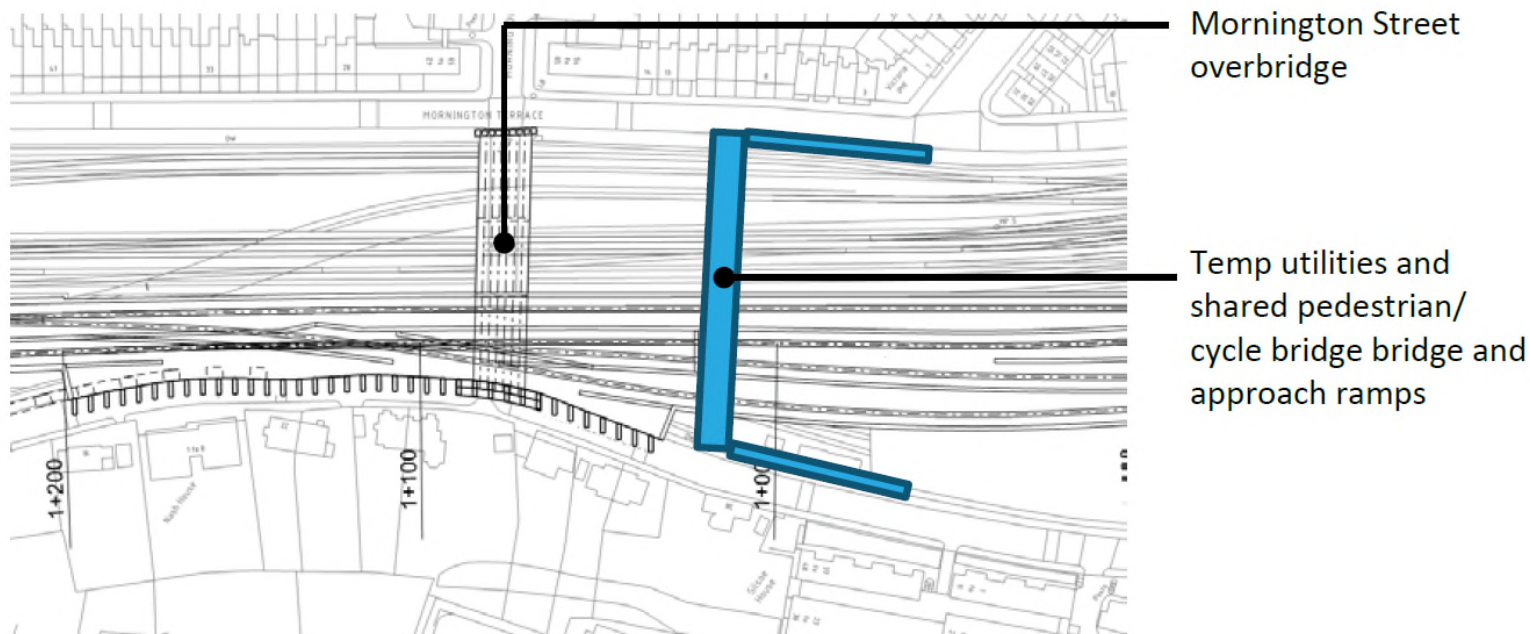
- Existing bridge is an early steel / wood composite structure;
- Proposed replacement: precast concrete beams with concrete deck, low maintenance required;
- Replacement piers are concrete leaf piers to comply with current standards;
- Grade II listed lamp standards will be reinstated;
- Brick clad to resemble the original parapets.



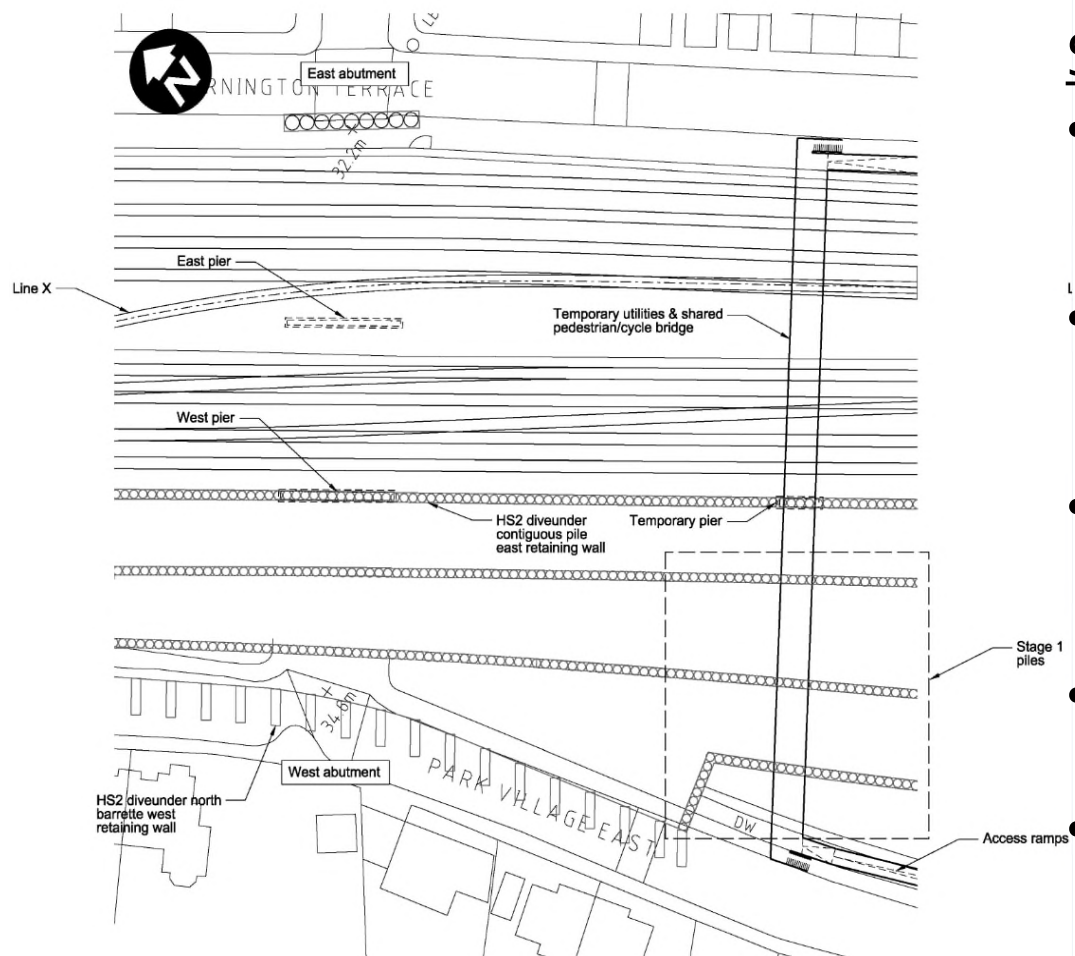
# Mornington Street Bridge Reconstruction

## Stage 1 (2017-2018)

- Temporary bridge will be open and usable, providing ramps and stairs for pedestrian and cycle access, before Mornington Street Bridge is closed.
- Construct temporary bridge foundations in rail possessions.



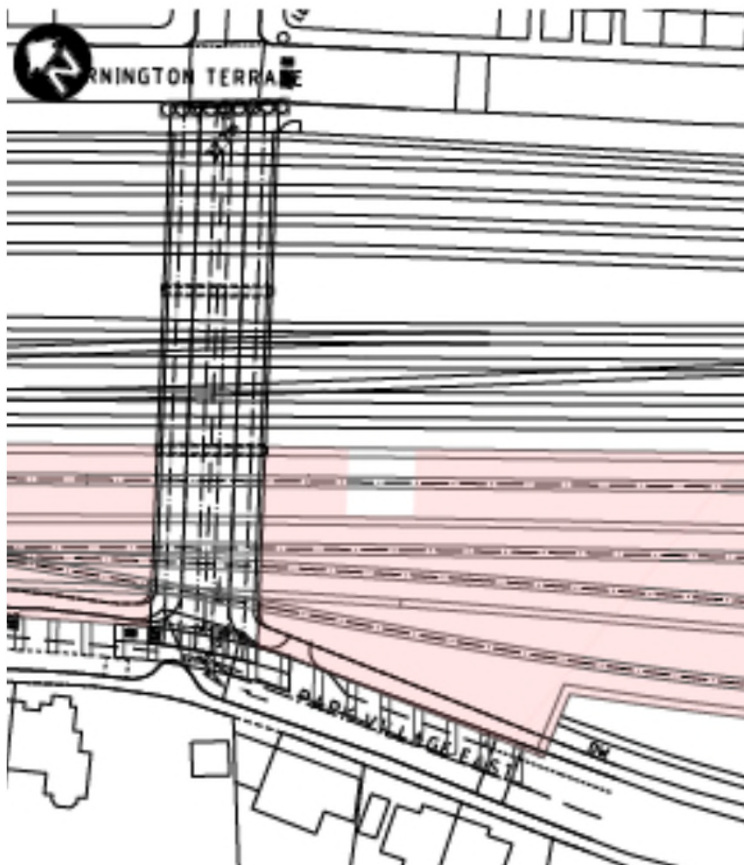
# Mornington Street Bridge Reconstruction



## Stage 2 (2018-2021)

- Crane in temporary bridge piers & deck
- Divert utilities, pedestrians / cycles to temporary bridge
- Demolish existing bridge in rail possessions
- Build HS dive under
- Build piers for replacement bridge

# Mornington Street Bridge Reconstruction



## Stage 3 (2021-2022)

- Crane in new deck beams
- Complete in-situ concrete deck and parapets
- Replace lamp standards
- Replace utilities
- Reopen bridge
- Remove temporary bridge following reopening of Mornington Street bridge

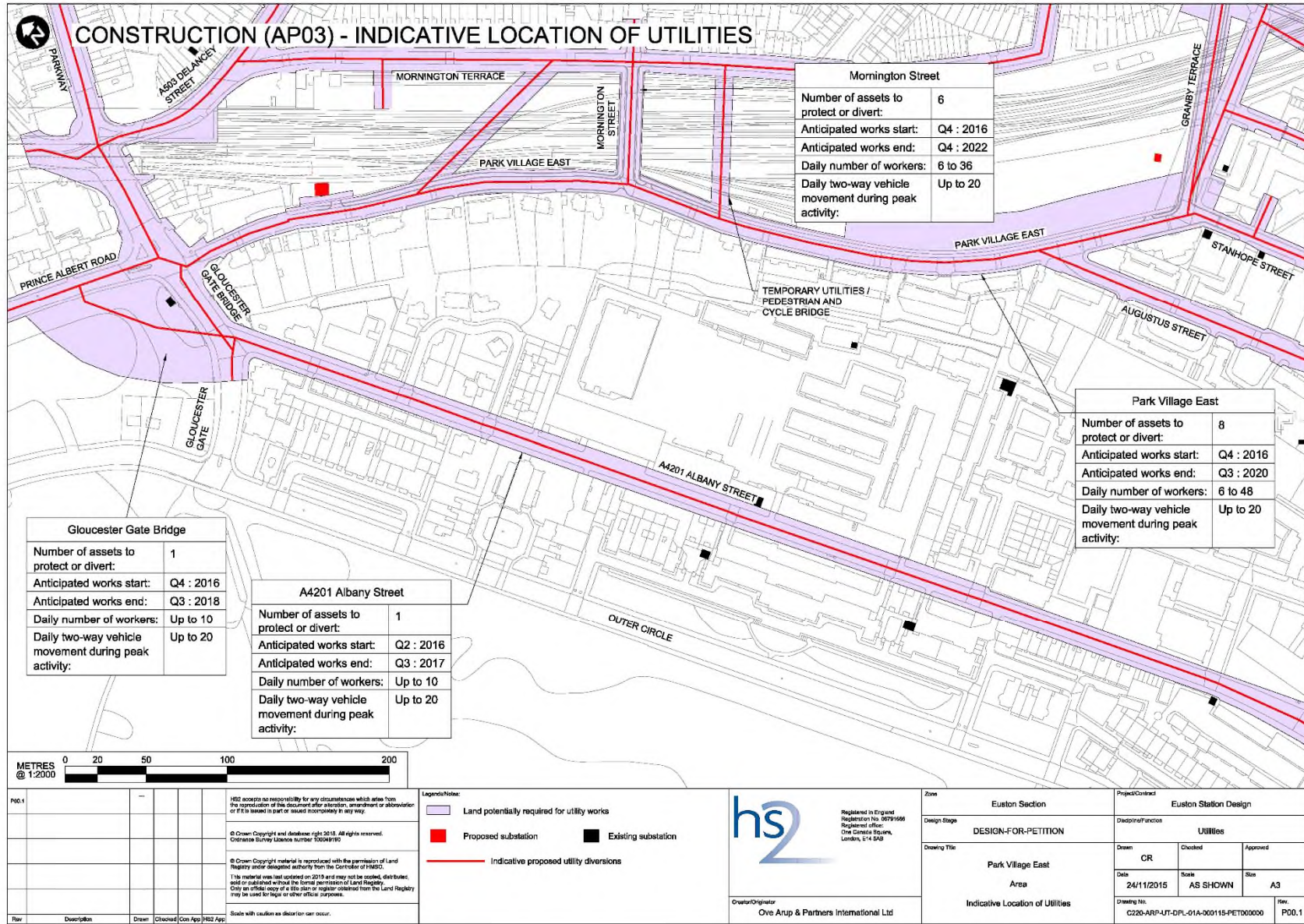
# Utility Works at Park Village East

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- There are significant utility works within Park Village East (PVE) immediately prior to the Line X works, barrette wall construction and portal works commencing.
- These works will proceed on a moving front along PVE from Q4 2016 to Q3 2018 and will be immediately followed by barrette wall construction (including temporary anchor works).
- Proposed utility works – Permanent and temporary diversions of various services, comprising sewer, gas and water mains (including a major 42 inch water main), electrical cables and numerous telecommunications cables.
- Building services connections will also need to be altered to maintain building supplies.

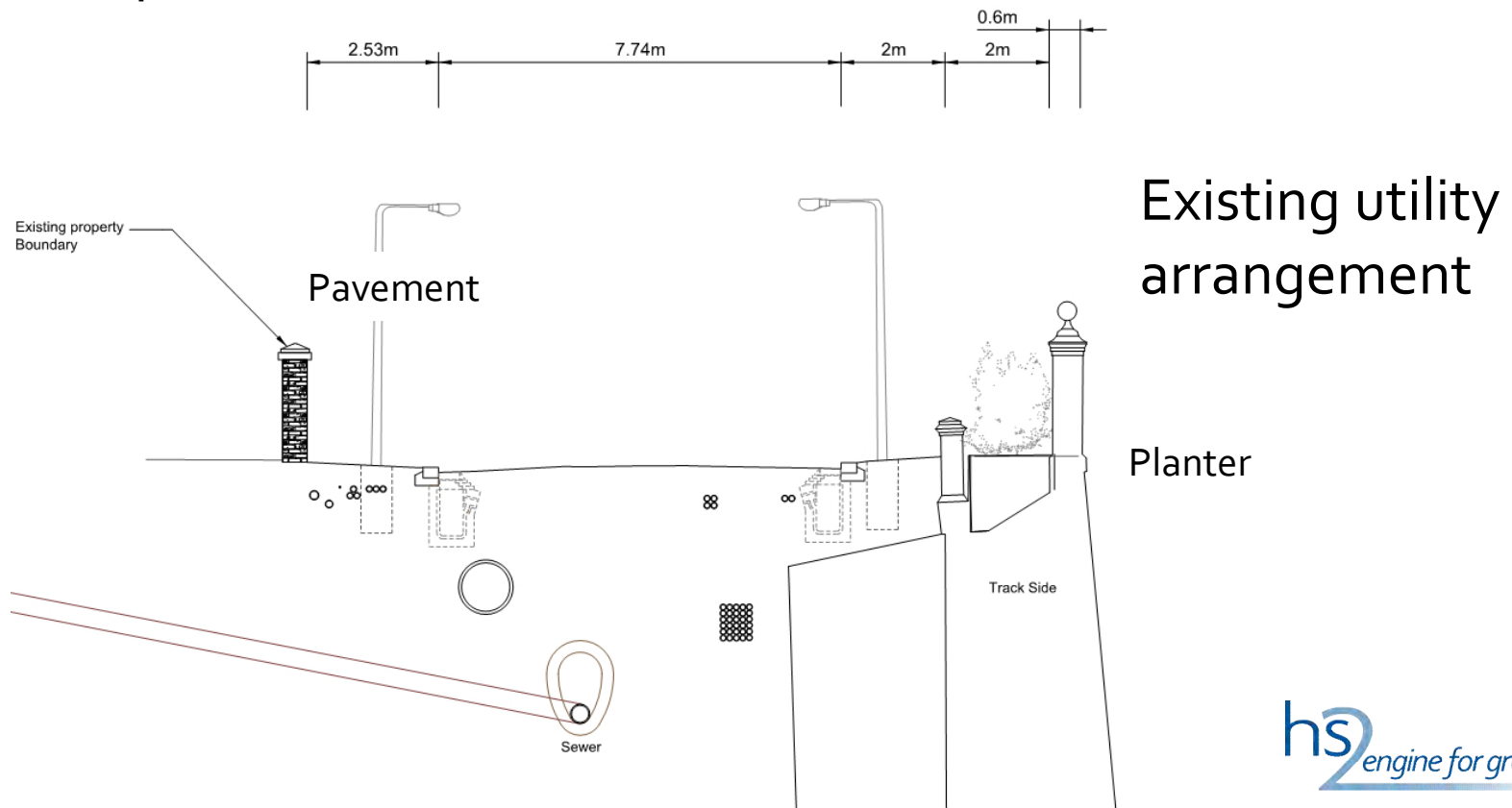


# Utility Works at Park Village East



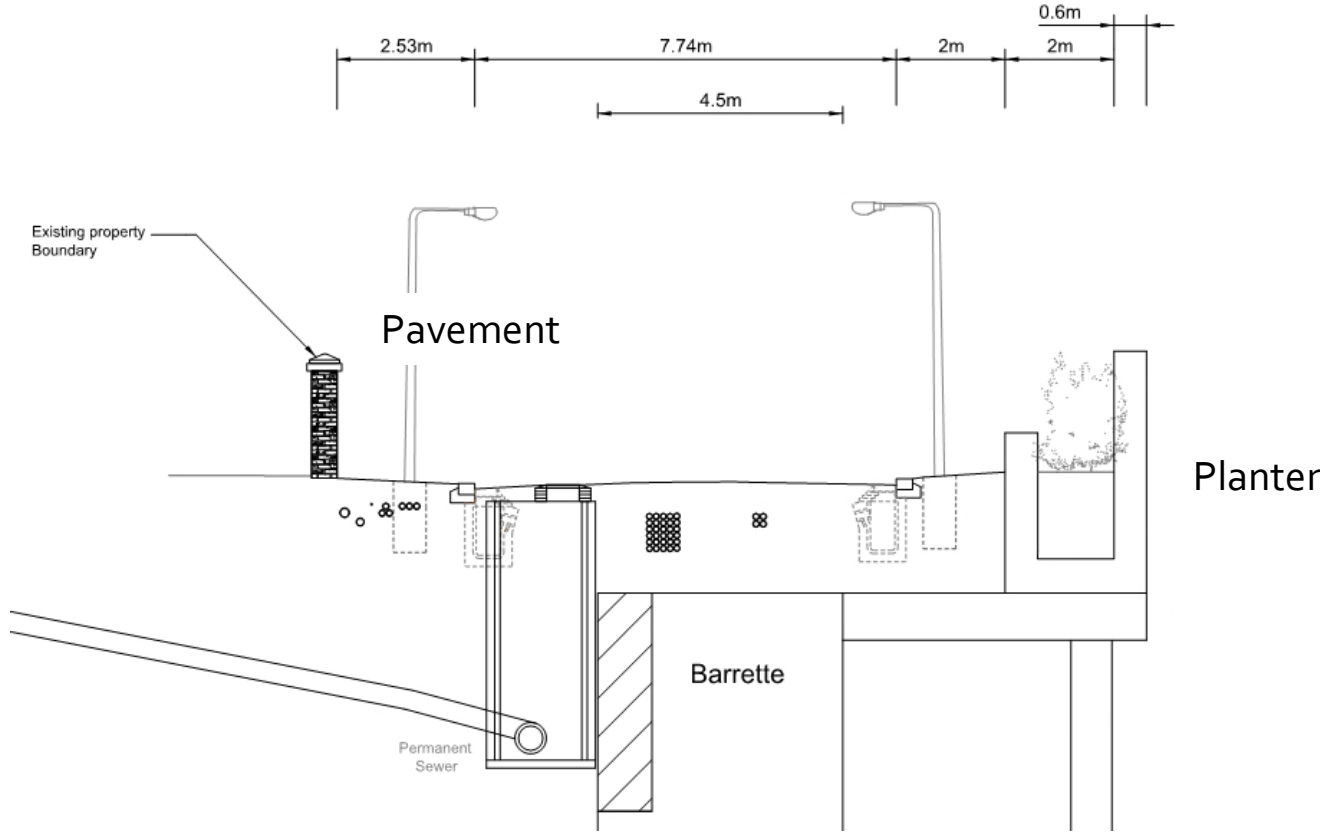
# Utility Works at Park Village East

- Utilities currently distributed in road way.
- In order to construct barrettes, utilities must be relocated to the pavement.



# Utility Works at Park Village East

- Following relocation and barrette wall construction services will be located towards pavement side of PVE with some additional utilities in new roadway.



# Park Village East – Access Arrangements

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- During the construction of the barrette retaining wall and utility works (before and after the barrette works), vehicle access to properties will be restricted by a work site at street-level.
- The worksite for the barrette works will initially be positioned at the northern end of PVE and progress down the street. Worksites for the utility works will also be phased and restrict access temporarily.
- Properties along PVE will have vehicular access to their properties interrupted intermittently between Q3 2016 and Q3 2023.



# Working Hours

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## *Core Hours*

- Core working hours will be from 08:00 to 18:00 on weekdays (excluding bank holidays) and from 08:00 to 13:00 on Saturdays.
- Guidance on the site specific variations to core hours and/or additional hours likely to be required will be included within the Local Environmental Management Plan (LEMP) following consultation with the relevant local authority.

## *Start Up and Close Down*

- The nominated undertaker's contractors will require a period of up to one hour before and up to one hour after normal working hours for start-up and close down of activities.

# Working Hours

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## *Works Outside of Core Hours*

- At Euston, part of the construction will take place on or immediately adjacent to the existing operational railway where safety considerations for the workforce and operation of trains mean that work has to be completed during possessions or blockades of the railway.
- Possessions and blockades close or limit the use of the railway for trains, so normally take place at night, weekends or over bank holidays, so that there is less disruption to services and passenger access/movements.

# Works Outside Core Hours - Compounds

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## *Compounds*

### A400 Hampstead Road overbridge (north)

- May occasionally operate outside of core working hours for rail possession when construction on or adjacent to the conventional railway.

### Mornington Street overbridge

- May operate out of core working hours for occasional short periods during railway possessions and utilities works.

# Works Outside Core Hours - Compounds

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## Mornington Terrace Sidings

- Majority of work outside of core working hours in railway possessions.

## Carriage Shed and Park Village East (directly south of area)

- On occasion, compound will operate 24 hours per day for independent work on railway possession. Barrette construction may extend work beyond core working hours.

# Works Outside Core Hours - Compounds

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## Park Village East (north) satellite compound

- The construction compound will operate predominantly during core working hours but will, on occasion, operate 24 hours per day for works dependent on railway possessions. During installation of barrettes in Park Village East, each barrette has to be concreted in a single operation. If this operation is interrupted or prolonged for any reason these works may extend beyond core working hours as set out in the draft CoCP.



# Working Hours

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The following slide has been produced from the SES2 and AP3 ES programme to summarise the key activities that will take place and identify where it is likely that a proportion of the works will occur outside of core working hours.

- Frequency of works outside core hours:
  - Green = Low
  - Amber/Orange = Medium
  - Red = High
- Relative intensity of construction activity:
  - Green = Low
  - Amber/Orange = Medium
  - Red = High

Park Village East	R=High ; A=medium; G=low		When: start to finish	Works outside core hours: Not in Compounds (Stage A) Colours represent Intensity grading												Notes																					
	Frequency	Intensity		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026																							
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4									
Occasional utility and highway works	Green	Green	Q3 2016- Q3 2022			Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue																	When short term traffic management measures required
Railway systems clearance	Green	Green	Q4 2016- Q1 2019			Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue																							When proximity of works interferes with railway operations	
Delivery of large items (plant, materials)	Green	Green	Q1 2017- Q3 2024			Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue												When short term traffic management measures required	
Demolition (Buildings/Structures)	Green	Red	Q1 2017- Q3 2017			Blue	Blue																												When proximity of works interferes with railway operations		
Bridge construction	Green	Yellow	Q4 2017- Q3 2022			Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue											Mornington St, Granby Terrace & nearby utility bridges	
Bridge demolition	Green	Red	Q2 2018- Q4 2018					Blue	Blue																											Mornington St & Granby Terrace bridges only	
Piling, Barrettes	Yellow	Red	Q3 2018 - Q4 2021					Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue																					When proximity of works interferes with railway operations	
Occasional large concrete pours	Green	Green	Q1 2020- Q3 2024							Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue							Where large concrete pours occur at some locations	
Railway systems installation	Green	Green	Q4 2023- Q4 2026																										Blue	Blue	Blue	Blue	Blue	Blue	Blue	When proximity of works interferes with railway operations	

## Loss of Parking

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During construction Stage A, 38 on-street residential permit holder parking bays will be temporarily lost with the loss of an additional 12 on-street pay and display bays.

Approximately 31 off-street private parking spaces will also be temporarily lost during Stage A.

Through development of the local Traffic Management Plan, HS2 will seek to minimise loss of parking. HS2 will work with the Council to reduce the impact of any losses including opportunities for alternative provision.

HS2 anticipates that the Council will identify its priorities in the use of available parking. This could involve the reallocation of parking spaces to priority uses such as, for example, disabled parking bays. HS2 will work with the Council to address those priorities.

# Temporary On-Street Parking Loss at Construction (Stage A)

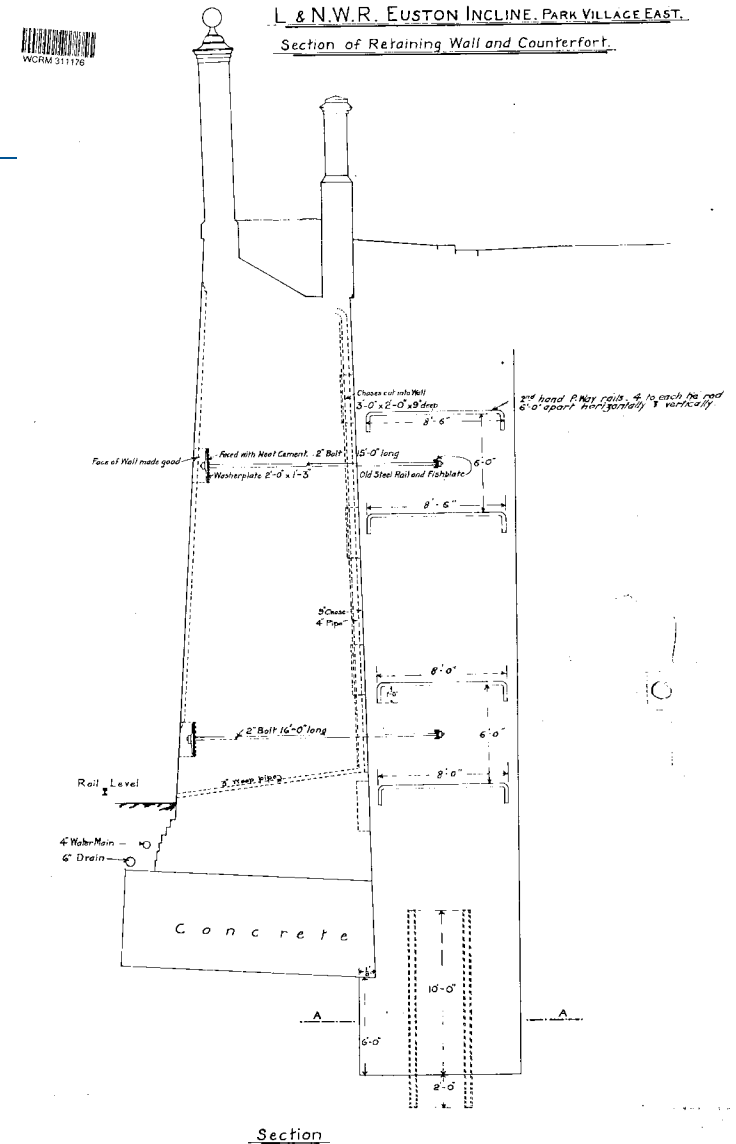


- Legends/Notes:
- Pay & Display
  - Residential
  - Loading
  - Taxi
  - Coach
  - Motorcycle
  - Car Club
  - Controlled Parking Zones



# Park Village East Planters

- The existing retained height of the retaining wall varies between approx. 9.6m and 10.9m
- The original gravity brick wall thickness varies from approx. 2.8m at PVE level to 4.0m at the wall toe level
- The retaining wall was strengthened in various stages with mass concrete counterforts and sheet piles at the wall toe
- The existing planters dwarf wall is approx. 0.4m thick and extends to approx. 0.8m above footway level.
- The existing planters parapet wall is approx. 0.6m thick and extends to approx. 2.2m above footway level.





# Park Village East Planters

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- The new planter dimensions of 1.7m width x 1.3m depth of soil will be adequate for the new mature tree root balls, soils, associated drainage layers and guying fittings.
- Vegetation shown is what could be achieved by 2026 if semi-mature planting is used. The design of planters, parapets and planting will be developed through detailed design in conjunction with stakeholders and approved by LBC.



# Design of intervention and ventilation shafts

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- Structures such as the headhouse, Mornington Street ventilation building and Granby Terrace intervention building are designed with an assumed 8m high envelope in relation to the adjacent street level.



# Design of intervention and ventilation shafts

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- Information Paper D1: Design Policy, sets out that:  
  
“all visible elements of the built and landscaped environment are sympathetic to their context, environment and social setting”
- The Environmental Memorandum sets out the approach to landscape and visual mitigation which takes account of the historic environment, including listed buildings. The draft Heritage Memorandum describes how heritage assets and their setting will be addressed, providing a framework for the Nominated Undertaker, Historic England, LBC and other stakeholders to work together.
- The detailed design of new structures in the throat will be approved by LBC through the planning regime established under Schedule 17 to the Bill.

# Noise Insulation Scheme Engagement

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- HS2 Ltd have undertaken specific engagement with Park Village East residents on the noise insulation scheme.
- In addition to the area wide engagement initiatives, HS2 Ltd have undertaken:
  - A visit to Park Village East on 4 July 2016 to provide specific detail on the noise insulation scheme for the residents in the Nash properties. The two hour visit was for a small group of key residents (who the residents selected themselves).
  - An event in Silsoe House for 16 residents on 10 August 2016 to address questions about the noise insulation scheme in their properties.

# Noise Insulation Scheme Engagement

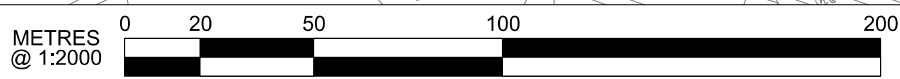
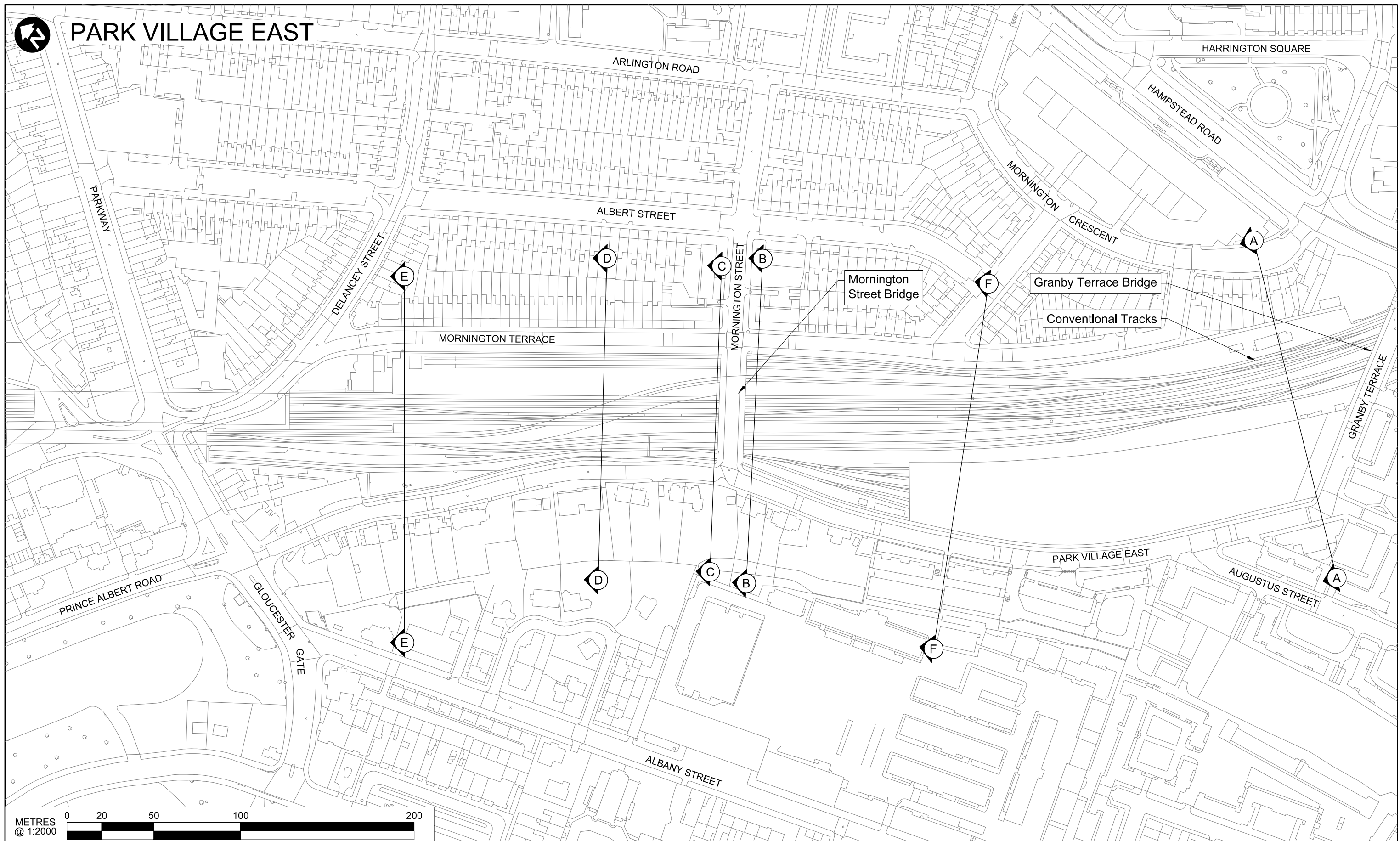
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- Following both targeted events, there remains ongoing engagement with local residents in Park Village East over noise insulation.
- HS2 Ltd has been addressing additional comments and questions raised by residents in the Nash properties following the visit and remain in correspondence on the matter.
- A number of local residents in Silsoe House have returned their noise insulation application forms following their targeted event and have been engaging with HS2 Ltd over additional queries.





# PARK VILLAGE EAST



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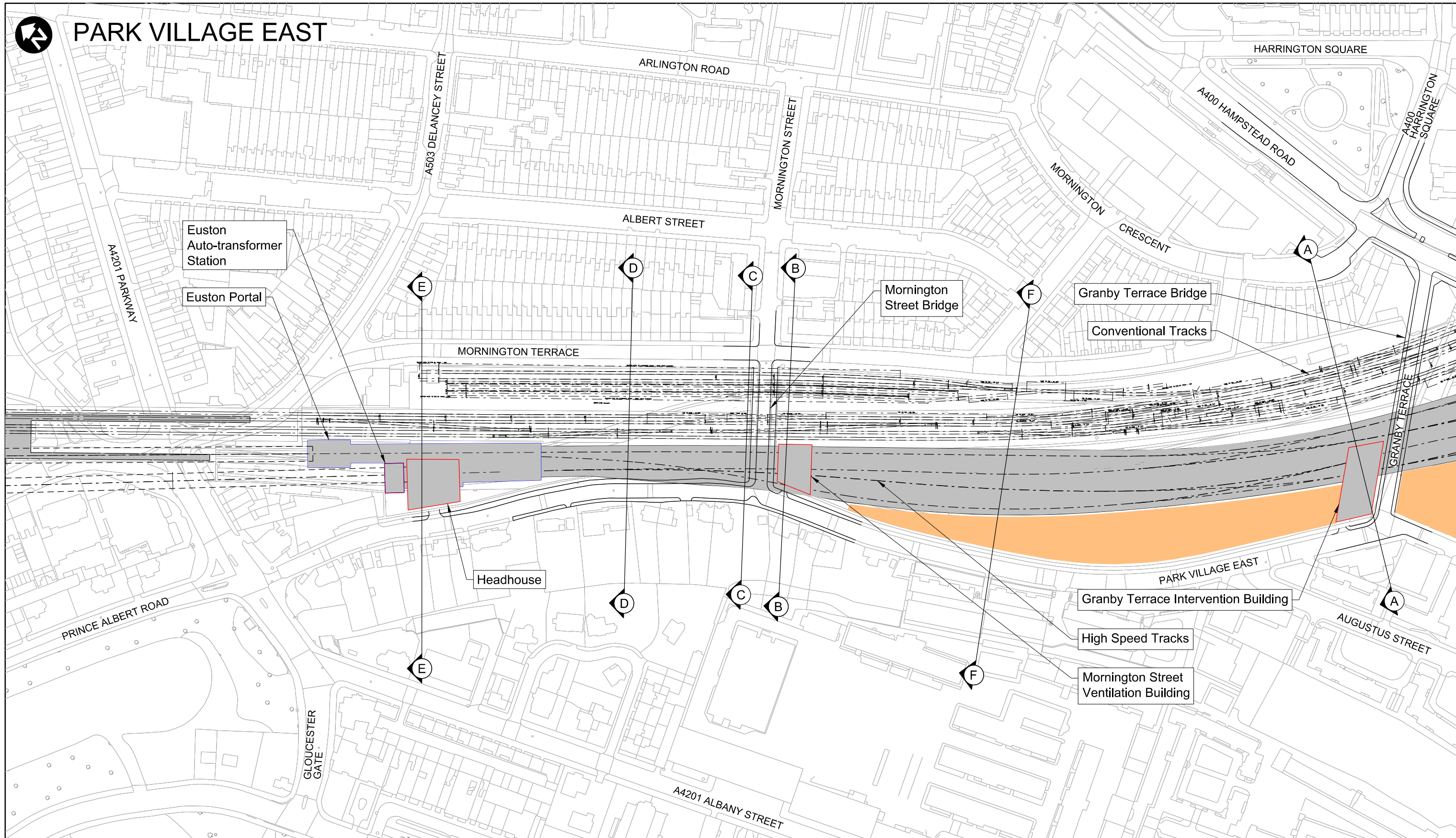
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Design Stage	DESIGN-FOR-PETITION
Drawing Title	Park Village East Existing Plan

Project/Contract	Euston Station Design		
Discipline/Function	Construction and Logistics		
Drawn	MA	Checked	Approved
Date	13/11/2015	Scale	AS SHOWN
		Size	A3
Drawing No.	C220-ARP-CL-DPL-01A-100710-PET000000	Rev.	P00.1





# PARK VILLAGE EAST



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**Legends/Notes:**

- Depot, station, headhouse or portal building
- Tunnel portal
- Electricity substation
- Returned to suitable development use
- Tunnels external extent
- Rail Alignment

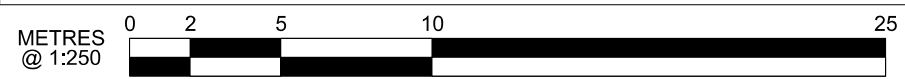
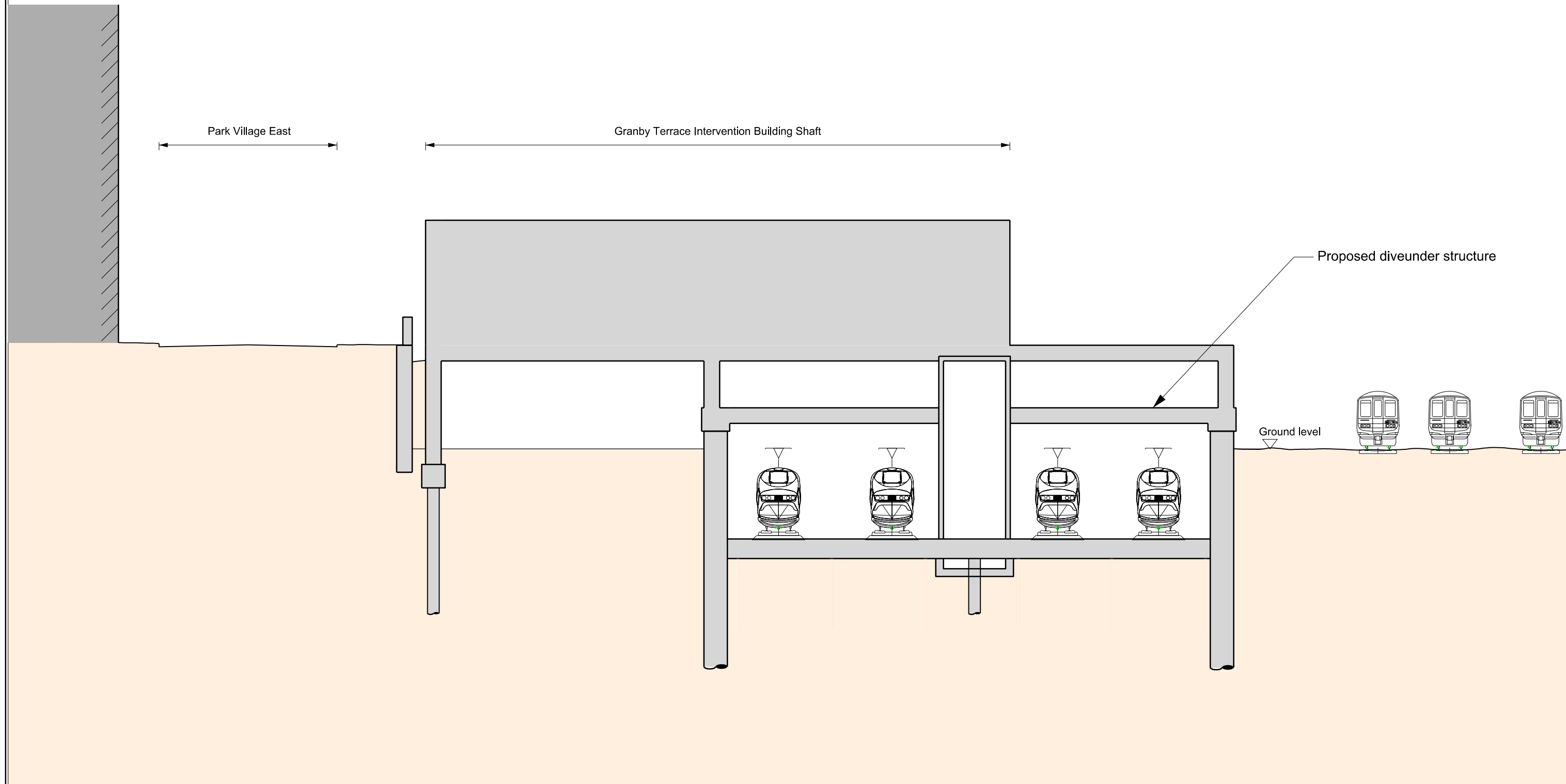
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Zone	Euston Section		
Design Stage	DESIGN-FOR-PETITION		
Drawing Title	Park Village East Operation Plan		

Project/Contract	Euston Station Design		
Discipline/Function	Construction and Logistics		
Drawn	MA	Checked	Approved
Date	13/11/2015	Scale	AS SHOWN
Size	A3		
Drawing No.	C220-ARP-CL-DPL-01A-100708-PET000000		Rev. P00.1

# OPERATION SECTION A-A NORTH OF GRANBY STREET OVERBRIDGE

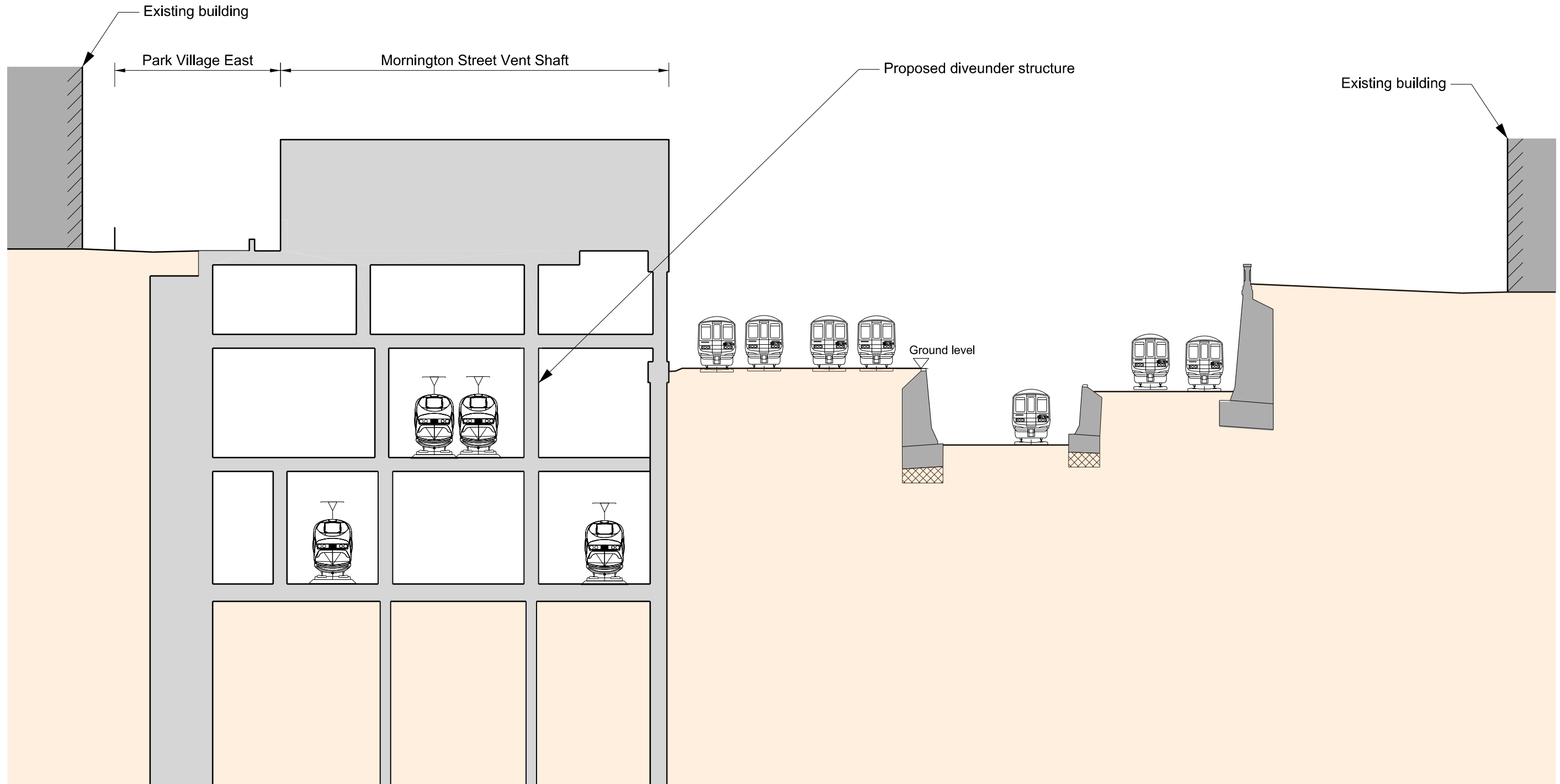


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	Design Stage	DESIGN-FOR-PETITION		Discipline/Function				Construction and Logistics						
	Drawing Title	Section North of Granby Terrace Overbridge		Drawn				Checked	Approved					
		Operation Section A-A		RP										
	Park Village East		Date	23/11/2015	Scale	AS SHOWN	Size	A3	Rev.	P00.1				
Description		Drawn	Checked	Con App	HS2 App	Drawing No.		C220-ARP-CL-DSE-01A-100711-PET000000						

P2216 (3)

HOL/10018/0042

# OPERATION SECTION B-B SOUTH OF MORNINGTON STREET OVERBRIDGE



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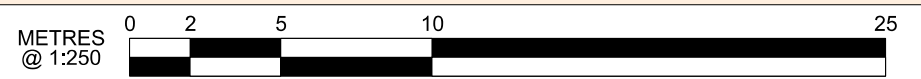
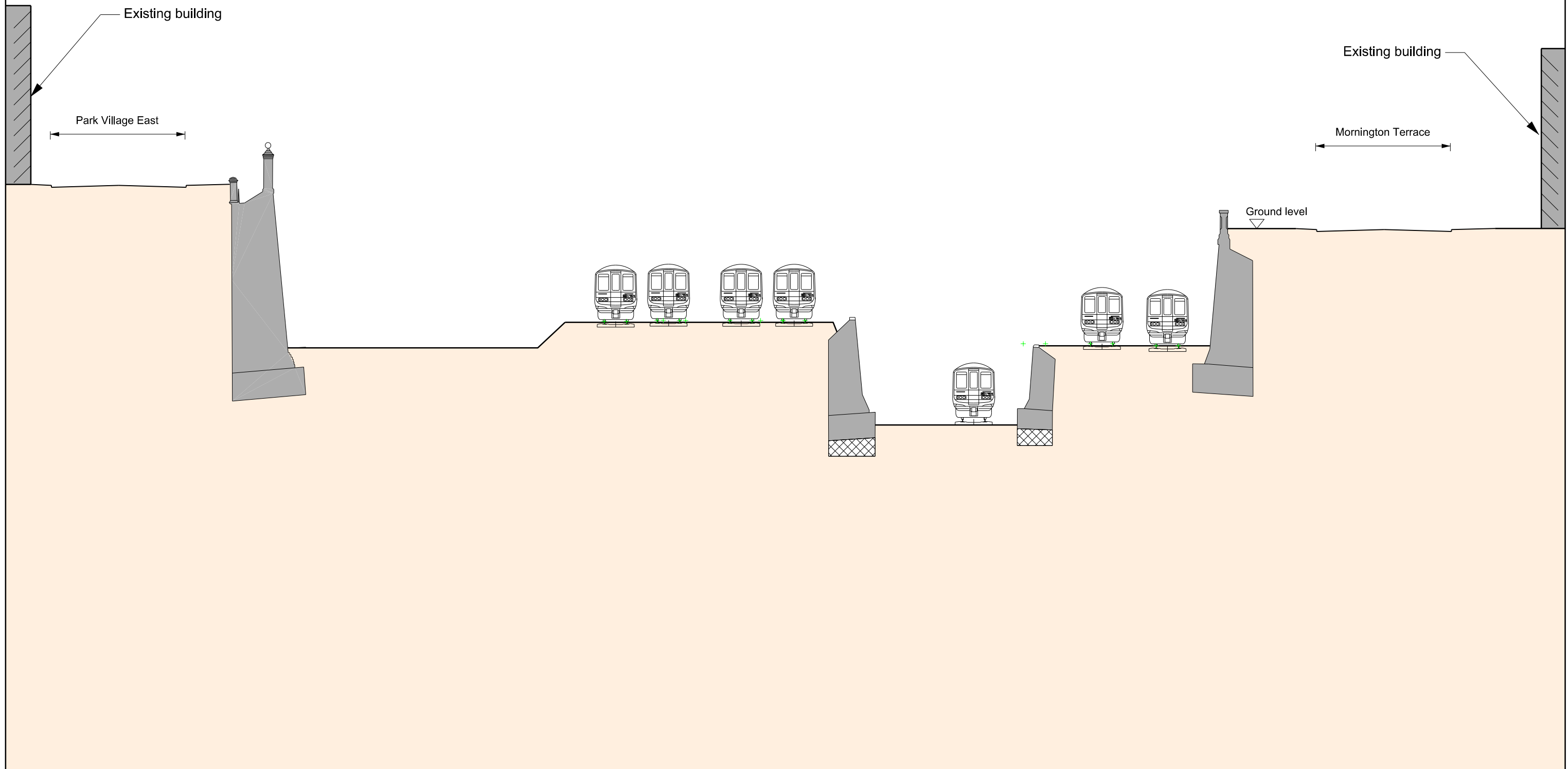
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Zone	Euston Section	
Design Stage	DESIGN-FOR-PETITION	
Drawing Title	Section South of Mornington Street Overbridge	
	Operation Section B-B	
	Park Village East	

Project/Contract			Euston Station Design		
Discipline/Function			Construction and Logistics		
Drawn	Checked	Approved			
MA					
Date	Scale	Size			
13/11/2015	NTS	A3			
Drawing No.		Rev.			
C220-ARP-CL-DSE-01A-100712-PET000000		P00.1			

# EXISTING SECTION C-C NORTH OF MORNINGTON STREET OVERBRIDGE



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Description	Drawn	Checked	Con App	HS2 App		

Legends/Notes:

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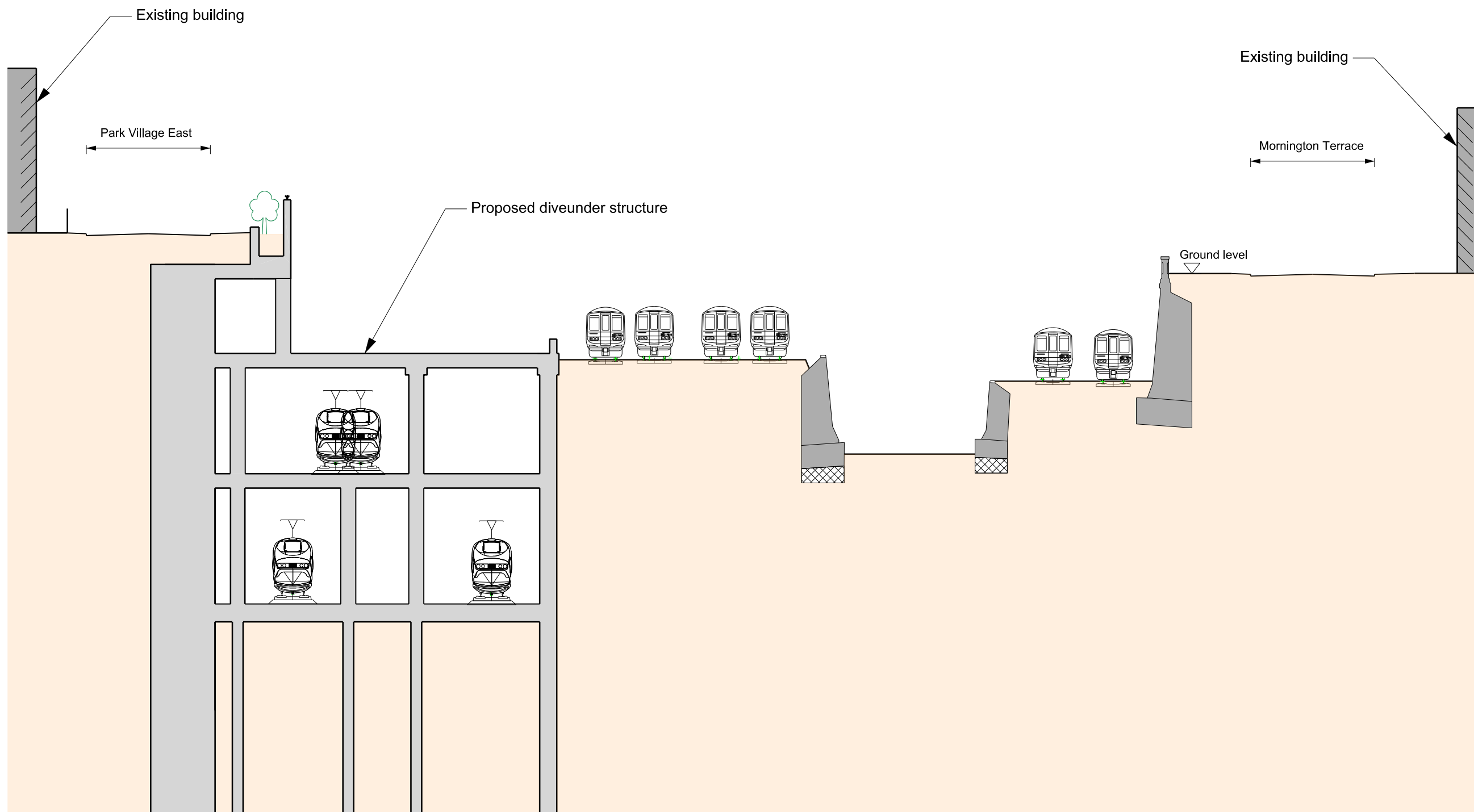
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Zone	Euston Section
Design Stage	DESIGN-FOR-PETITION
Drawing Title	Section North of Mornington Street Overbridge Existing Section C-C Park Village East

Project/Contract			Euston Station Design		
Discipline/Function			Construction and Logistics		
Drawn	Checked	Approved			
MA					
Date	Scale	Size			
13/11/2015	AS SHOWN	A1			
Drawing No.		Rev.			
C220-ARP-CL-DSE-01A-100769-PET000000		P00.1			



# OPERATION SECTION C-C NORTH OF MORNINGTON STREET OVERBRIDGE



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	Description	Drawn	Checked	Con App	HS2 App	

Legends/Notes:

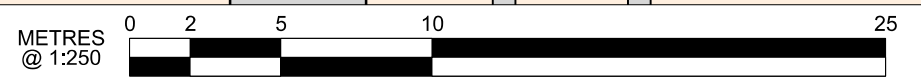
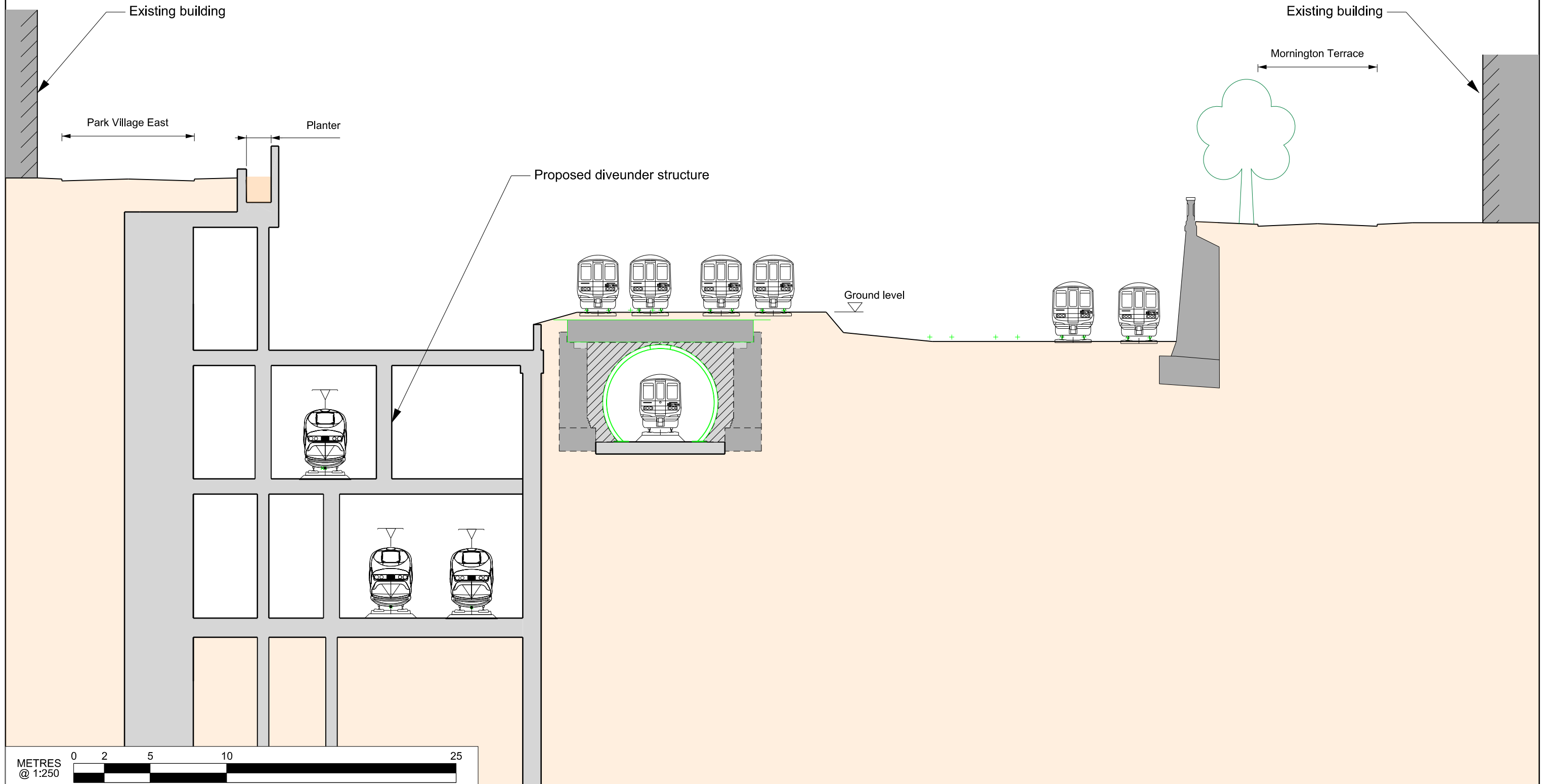


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Creator/Originator  
Ove Arup & Partners International Ltd

Zone	Euston Section		Project/Contract	Euston Station Design	
Design Stage	DESIGN-FOR-PETITION		Discipline/Function	Construction and Logistics	
Drawing Title	Section North of Mornington Street Overbridge		Drawn	Checked	Approved
	Operation Section C-C		MA		
	Park Village East		Date	Scale	Size
			13/11/2015	AS SHOWN	A1
			Drawing No.	Rev.	
			C220-ARP-CL-DSE-01A-100713-PETHOL00000	P00.1	

# OPERATION SECTION D-D NORTH OF MORNINGTON STREET OVERBRIDGE



P00.1		-			

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Legends/Notes:



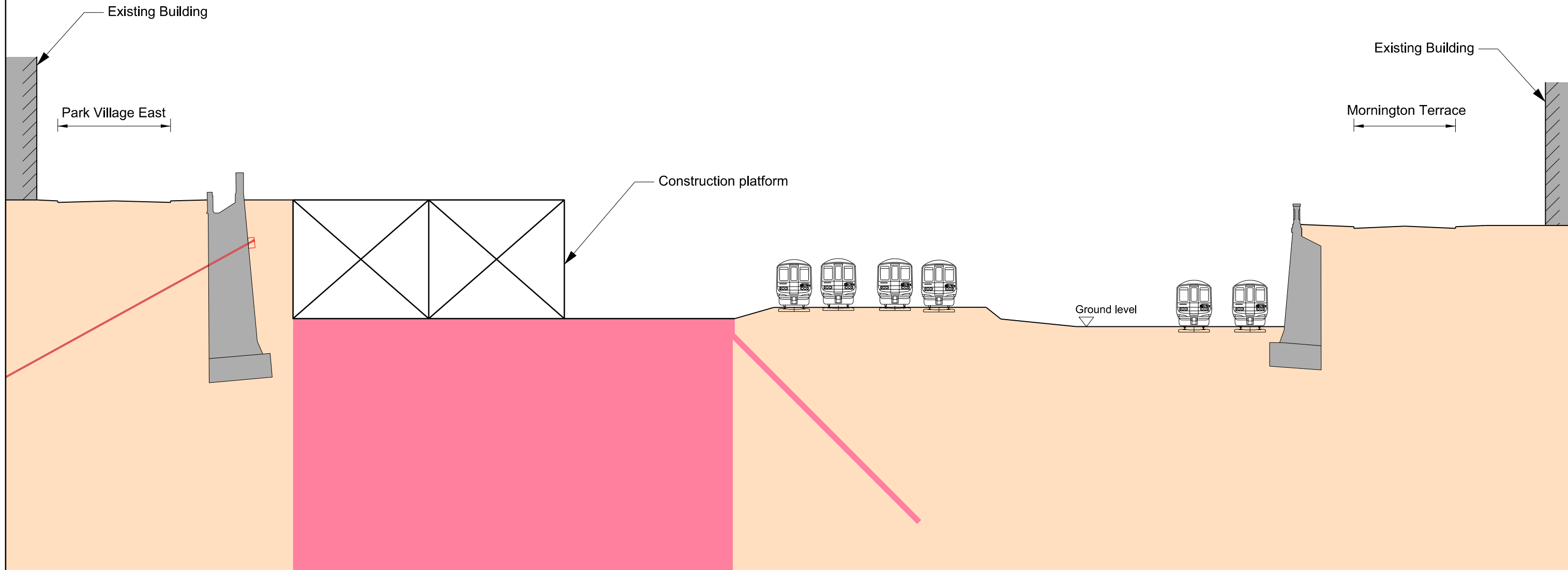
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Zone	Euston Section		
Design Stage	DESIGN-FOR-PETITION		
Drawing Title	Section North of Mornington Street Overbridge Operation Section D-D Park Village East		

Project/Contract			Euston Station Design		
Discipline/Function			Construction and Logistics		
Drawn	Checked	Approved			
MA					
Date	Scale	Size			
13/11/2015	AS SHOWN	A3			
Drawing No.		Rev.			
C220-ARP-CL-DSE-01A-100714-PET000000		P00.1			

# CONSTRUCTION SECTION E-E THROUGH HEADHOUSE



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Description	Drawn	Checked	Con App	HS2 App		

Legends/Notes:



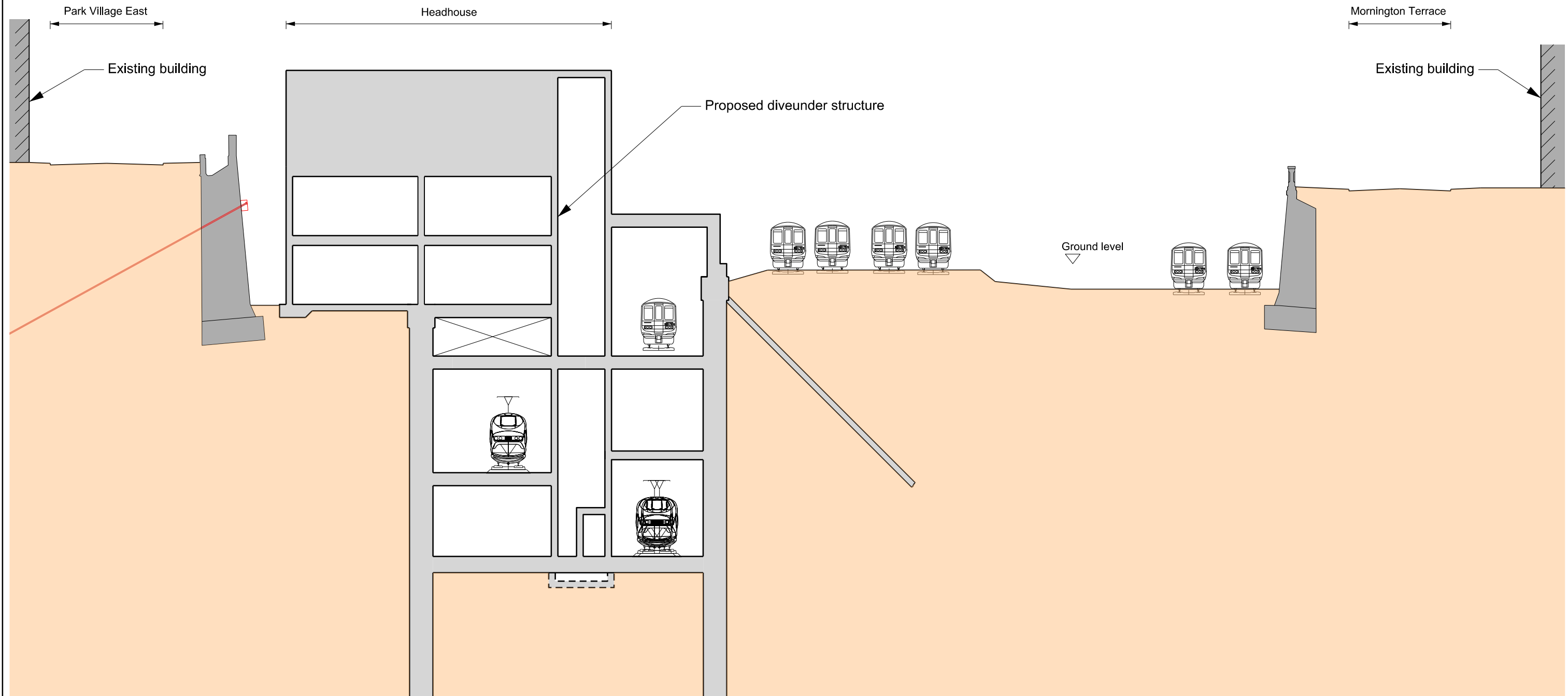
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Ove Arup & Partners International Ltd

Zone	Euston Section	
Design Stage	DESIGN-FOR-PETITION	
Drawing Title	Section Through Headhouse Construction Section E-E Park Village East	

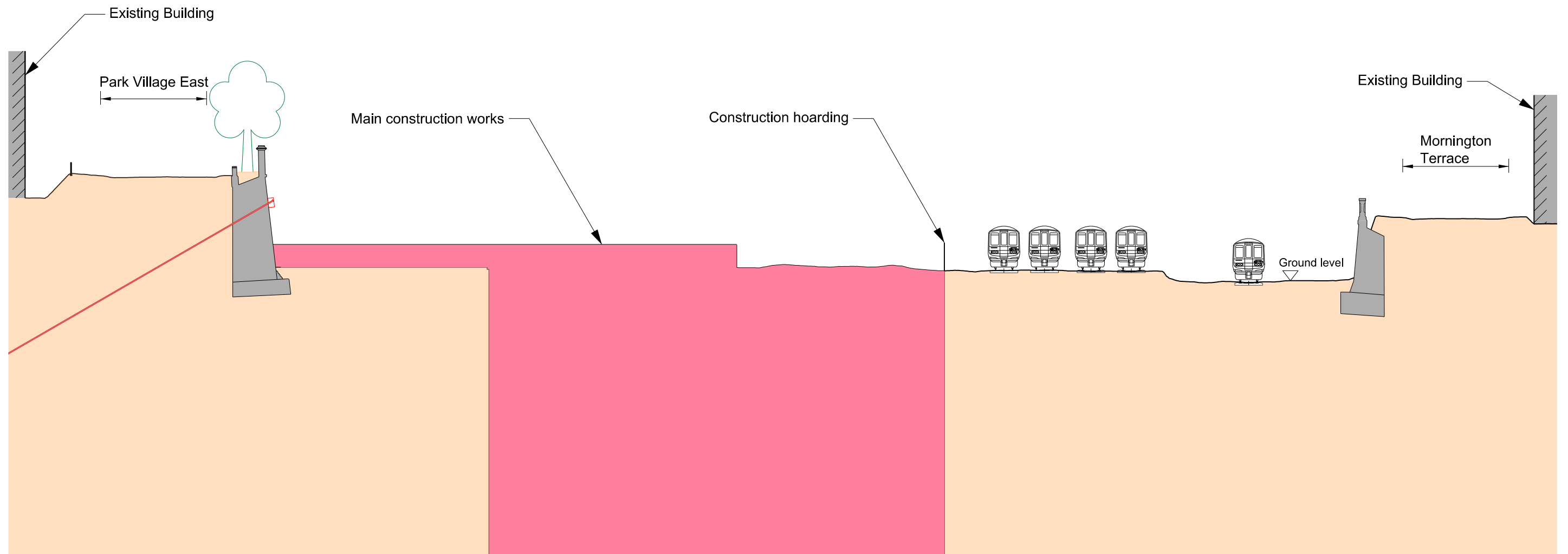
Project/Contract	Euston Station Design	
Discipline/Function	Construction and Logistics	
Drawn	MA	Checked
Date	13/11/2015	Scale
		AS SHOWN
		Size
		A3
Drawing No.	C220-ARP-CL-DSE-01A-100773-PET000000	Rev.
		P00.1


# OPERATION SECTION E-E THROUGH HEADHOUSE



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					© Crown Copyright and database right 2014. All rights reserved. Ordnance Survey Licence number 100049190			Design Stage DESIGN-FOR-PETITION		Discipline/Function Construction and Logistics		
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					Scale with caution as distortion can occur.			Date 13/11/2015	Scale NTS	Size A3		
								Drawing No. C220-ARP-CL-DSE-01A-100772-PET000000		Rev. P00.1		

# CONSTRUCTION SECTION F-F THROUGH SILSOE HOUSE



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						Design Stage			DESIGN-FOR-PETITION	Discipline/Function	Construction and Logistics			
						Drawing Title			Section Through Silsoe House Construction Section F-F Park Village East	Drawn	MA	Checked	Approved	
						Date				13/11/2015	Scale	NTS	Size	A3
						Drawing No.				C220-ARP-CL-DSE-01A-100774-PET000000			Rev.	P00.1
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