Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 12.6: Construction vehicle trip generation assumptions

November 2024

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Approval for issue	
Jonathan Alsop	15 November 2024

Prepared by:

RPS
20 Western Avenue,
Milton Park, Abingdon,
Oxfordshire, OX14 4SH
United Kingdom

Prepared for:

Photovolt Development Partners GmbH, on behalf of SolarFive Ltd.

Contents

Appendices

Glossary

Term	Meaning
Environmental Statement	The document presenting the results of the Environmental Impact Assessment process.
Maximum design scenario	The realistic worst case scenario, selected on a topic-specific and impact specific basis, from a range of potential parameters for the Project.
Outline Construction Traffic Management Plan (OCTMP)	A plan managing all construction traffic, including protocols for delivery of Abnormal Indivisible Loads to site, personnel travel, measures for road cleaning and sustainable site travel measures.
Study Area	This is an area which is defined for each environmental topic which includes the Order Limits as well as potential spatial and temporal considerations of the impacts on relevant receptors. The study area for each topic is intended to cover the area within which an impact can be reasonably expected.
The Applicant	SolarFive Ltd
The Project	The Botley West Solar Farm
The Site or Order Limits	The area of land encompassing the Project development and shown on the Site Location and Order Limits Overview (Volume 2, Figure 1.1 of the ES **[EN010147/APP/6.4]**).

Abbreviations

Abbreviation	Meaning
ES	Environmental Statement
HGV	Heavy Goods Vehicles
HV	Heavy Vehicle
LGV	Light Goods Vehicle
NGET	National Grid Electricity Transmission
OCTMP	Outline Construction Traffic Management Plan
PVDP	Photovolt Development Partners GmbH

1 Construction vehicle trip generation assumptions

1.1 Introduction

Overview

1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive). This Appendix supports Volume 1, Chapter 12: Traffic and transport of the ES.

1.1.2 This Appendix presents the construction vehicle assumptions that have been used to estimate vehicle movements for the construction of the Project.

1.1.3 These construction vehicle movements have been used to assess the traffic and transport impact of the Project presented in Volume 1, Chapter 12: Traffic and transport of the ES.

1.1.4 **Appendix A1** presents the access routes to each of the four main temporary construction compounds, the access routes associated with the delivery of the PCS units and the access routes to each existing gated field access.

1.2 Construction metrics and trip generation

1.2.1 The construction metrics and construction trip generations that were used to assess the traffic and transport impact of the Project, as set out in **Section 12.7** of Volume 1, Chapter 12: Traffic and transport of the ES, are presented at **Appendix A2.**

1.2.2 The construction vehicle trip assumptions set out at **Appendix A2** are in line with the traffic and transport maximum design scenario set out in **Section 12.7** of Volume 1, Chapter 12: Traffic and transport of the ES.

1.3 Origin of construction staff movements

1.3.1 The origin of construction staff movements is set out in **Section 12.7** of Volume 1, Chapter 12: Traffic and transport of the ES.

1.3.2 For assessment purposes, to maximise the number of construction staff vehicle movements within the traffic and transport study area, it is assumed that up to 100% of all construction staff minibuses could arrive from (and then depart to) both the A34 northeast of Peartree Roundabout (highway link 12) and the A34 southeast of Botley Interchange (highway link 24).

1.3.3 It is also assumed that 50% of construction staff minibus vehicles will enter the traffic and transport study area via the A4095 Main Road and 50% via Lower Road, to allow for any staff travelling via rail at Hanborough Railway Station and picked up by minibus who would not enter the study area via the A34.

1.3.4 The aggregation of the above equates to 300%, however, to ensure the assessment remains reasonable, the proportion of construction HGVs on any one highway link is capped at 100%.

1.4 Origin of construction HGV movements

1.4.1 The origin of construction HGV movements is set out in **Section 12.7** of Volume 1, Chapter 12: Traffic and transport of the ES.

1.4.2 The Outline Construction Traffic Management Plan (OCTMP) **[EN010147/APP/7.6.1]** will control all HGVs to arrive from and depart to the A34. It is assumed that up to 100% of all construction HGVs could arrive from (and then depart to) both the A34 northeast of Peartree Roundabout (highway link 12) and the A34 southeast of Botley Interchange (highway link 24).

1.4.3 When these construction HGVs leave the A34 and enter onto the LRN, their origin (A34 northeast of Peartree Roundabout or A34 southeast of Botley Interchange) does not affect the number of construction HGVs that are on the LRN.

1.4.4 The aggregation of the above equates to 200%, however, to ensure the assessment remains reasonable, the proportion of construction HGVs on any one highway link is capped at 100%, however, the proportion on each would change on a day-by-day basis and the above assumptions therefore allow for this.

1.5 Assignment of construction staff minibus movements

1.5.1 The assignment of construction staff minibus movements onto the highway network to the four main temporary construction compounds is presented at **Appendix A3**.

1.5.2 Access routes follow the most direct suitable route for staff minibus movements (considering road layout and geometries).

1.5.3 Staff will be spread across the four main temporary construction compounds, therefore 25% of the total staff minibus movements have been assigned to each of the four main temporary construction compounds.

1.6 Assignment of construction staff management movements

1.6.1 The assignment of construction staff management vehicle movements on the highway network is presented at **Appendix A3**. Staff management movements have been assigned to the four main temporary construction compounds and then onwards to each existing gated field access.

1.6.2 Access routes follow the most direct suitable route for staff management movements (considering road layout and geometries).

1.6.3 The total staff management movements are assigned to each of the four main temporary construction compounds. Staff management movements are then assigned between the main temporary construction compound and their respective existing gated field accesses. For robustness at least 10 two-way staff management movements have been assigned to each existing gated field access to account for such daily movements between the compounds and the other fields.

1.7 Assignment of construction staff NGET substation movements

1.7.1 The assignment of construction staff vehicle movements associated with the National Grid Electricity Transmission (NGET) substation on the highway network is presented at **Appendix A3**. Staff movements associated with the NGET substation have been assigned from the A34 to the NGET substation via the A420, B4044 Eynsham Road and the B4017 Cumnor Road.

1.7.2 Access routes follow the most direct suitable route for staff movements (considering road layout and geometries).

1.8 Assignment of construction HGVs to four main temporary construction compounds

1.8.1 The assignment of construction HGV movements on the highway network to the four main temporary construction compounds is presented at **Appendix A3**.

1.8.2 Access routes follow the most direct suitable route for HGV movements (considering road layout, geometries and any regulatory restrictions) using a road hierarchy of using A classification roads, then B classification roads and then local roads to reach the four main temporary construction compound accesses. The access routes therefore maximise the use of higher classification roads and minimise the use of local roads.

1.9 Assignment of construction movements to the HDD compounds

1.9.1 The assignment of construction vehicle movements (Staff and HGVs) on the highway network to the HDD compounds is presented at **Appendix A3**.

1.9.2 Access routes follow the most direct suitable route for construction movements (considering road layout, geometries and any regulatory restrictions) using a road hierarchy of using A classification roads, then B classification roads and then local roads to reach the HDD compound accesses. The access routes therefore maximise the use of higher classification roads and minimise the use of local roads.

1.9.3 Staff and HGV movements associated with the HDD compounds have been assigned directly to each HDD compound.

1.9.4 The HGV movements to the HDD compounds located on Cassington Road / Burleigh Road have been assigned via the A44 and the A4095 as they are unable to route under the low bridge on Lower Road.

1.9.5 Construction movements associated with the HDD compounds will occur for the approximate duration as presented at **Appendix A3.**

1.10 Assignment of construction movements to the existing gated field accesses

1.10.1 The assignment of construction movements (HGVs associated with the delivery of PCS units, and tractor and trailers) on the highway network to the relevant existing gated field accesses is presented at **Appendix A3**.

1.10.2 Access routes follow the most direct suitable route for construction movements (considering road layout, geometries and any regulatory restrictions) using a road hierarchy of using A classification roads, then B classification roads and then local roads to reach the required existing gated field accesses. The access routes therefore maximise the use of higher classification roads and minimise the use of local roads.

1.10.3 Tractor and trailer movements have been assigned from one of the four main temporary construction compounds to the relevant existing gated field access.

1.10.4 HGV movements delivering the PCS units have been assigned directly to the relevant existing gated field access. They will not route to one of the four main temporary construction compounds first.

1.10.5 Due to a low bridge on the northern section of Lower Road, construction HGVs delivering PCS units:

- Must arrive at accesses along Cassington Road / Burleigh Road / Yarnton Road via the A44 and the A4095 as they are unable to route under the low bridge.
- Must depart accesses along Cassington Road / Burleigh Road / Yarnton Road via Lower Road as they are able to route under the low bridge.

1.10.6 Therefore, 50% of HGV movements associated with the delivery of the PCS units to Cassington Road / Burleigh Road have been assigned via the A44 and the A4095 as they are unable to route under the low bridge on Lower Road. However, once they have unloaded the PCS units, they are able to route under the low bridge on Lower Road.

1.11 Peak daily construction traffic flows

1.11.1 The HGVs, staff and tractor and trailer movements have been totalled to identify the peak daily vehicle movements on each link as attached at **Appendix A3.** From this the peak daily construction vehicle movements for each link is identified.

1.12 Construction vehicle movements during the peak hour

1.12.1 For the assessment of driver delay set out in **Section 12.9** of Volume 1, Chapter 12: Traffic and transport of the ES, construction vehicle movements during the highway network peak hours were considered.

1.12.2 Based on the construction hours of 07:00-19:00, staff will arrive before the AM peak hour (typically 08:00 to 09:00) and would depart after the PM peak hour (typically 17:00 to 18:00). Therefore, the construction vehicles travelling along

the highway during the AM and PM peak hours will be Heavy Vehicles (HVs) and construction staff management vehicle movements.

1.12.3 These would travel to/from the traffic and transport study area throughout the construction working day. Notwithstanding, the movements during the AM and PM peak hours have been calculated from the traffic flows on the basis of only 10 hours; this allows for any hourly variations (albeit any such variations would even themselves out over the whole construction duration) and a reasonable assessment.

1.12.4 The AM and PM peak hour vehicle movements along each link for each month of the construction duration has been calculated. The construction vehicle movements during the peak hours are attached at **Appendix A4.**

A1: Construction access routes

Legend

Order Limits	
General Inset Plan	

Project				Status		
Botley West Solar Farm				Final		
Id.	Changes	Date	Name		Date	Name
				Edit	01.11.2024	K. Lueken
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0420	
A	Created	01.11.2024	KL			

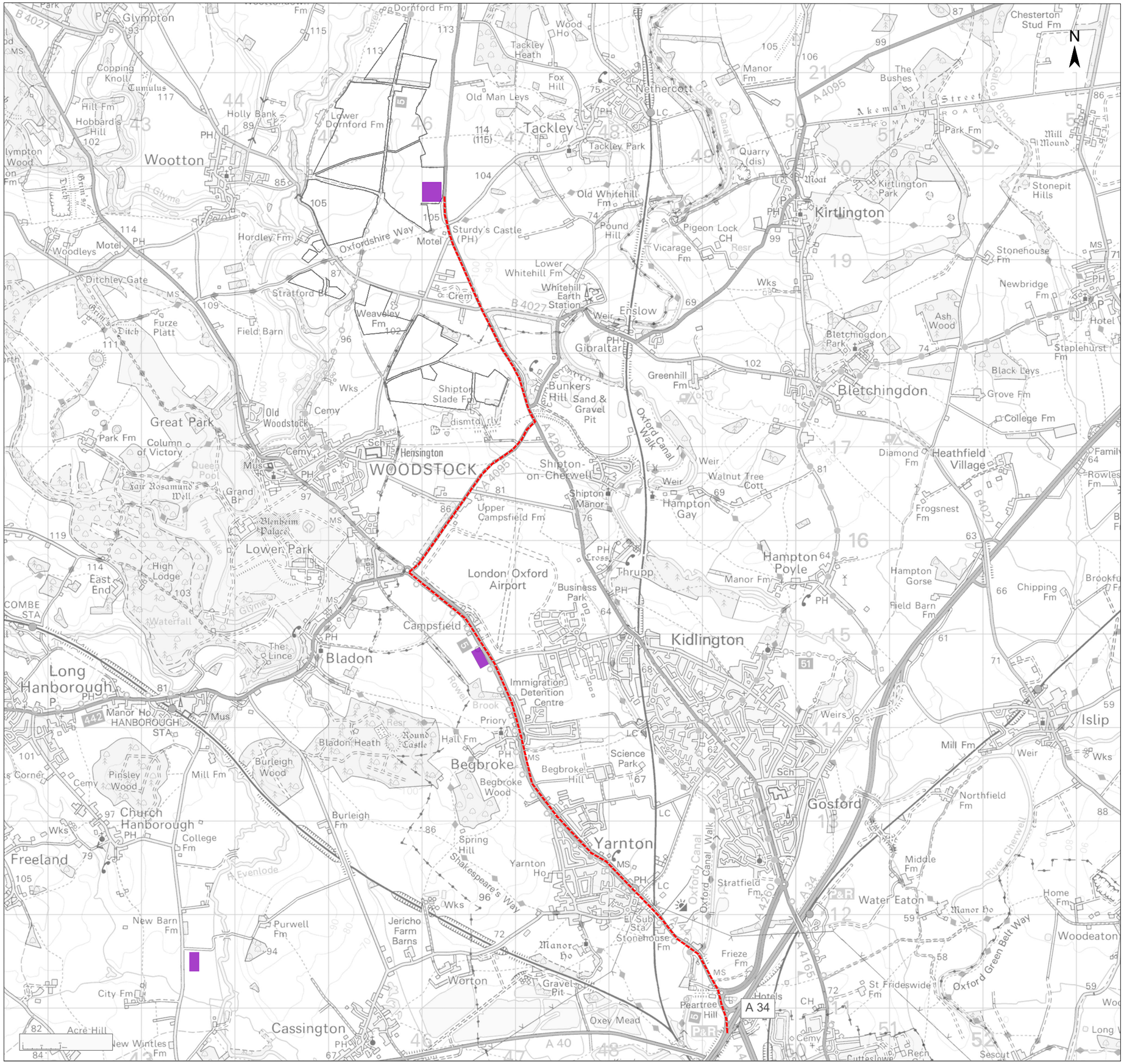
Scale: 1:65000 at A3

Title

Traffic routes to Construction Compounds Overview

PhotoVolt Development Partners

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

- Fence
- Construction Compound
- Transport route

Project				Status		
Botley West Solar Farm				Final		
Id.	**Changes**	**Date**	**Name**		**Date**	**Name**
				Edit	01.11.2024	K. Lueken
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0421	
A	Created	01.11.2024	KL			

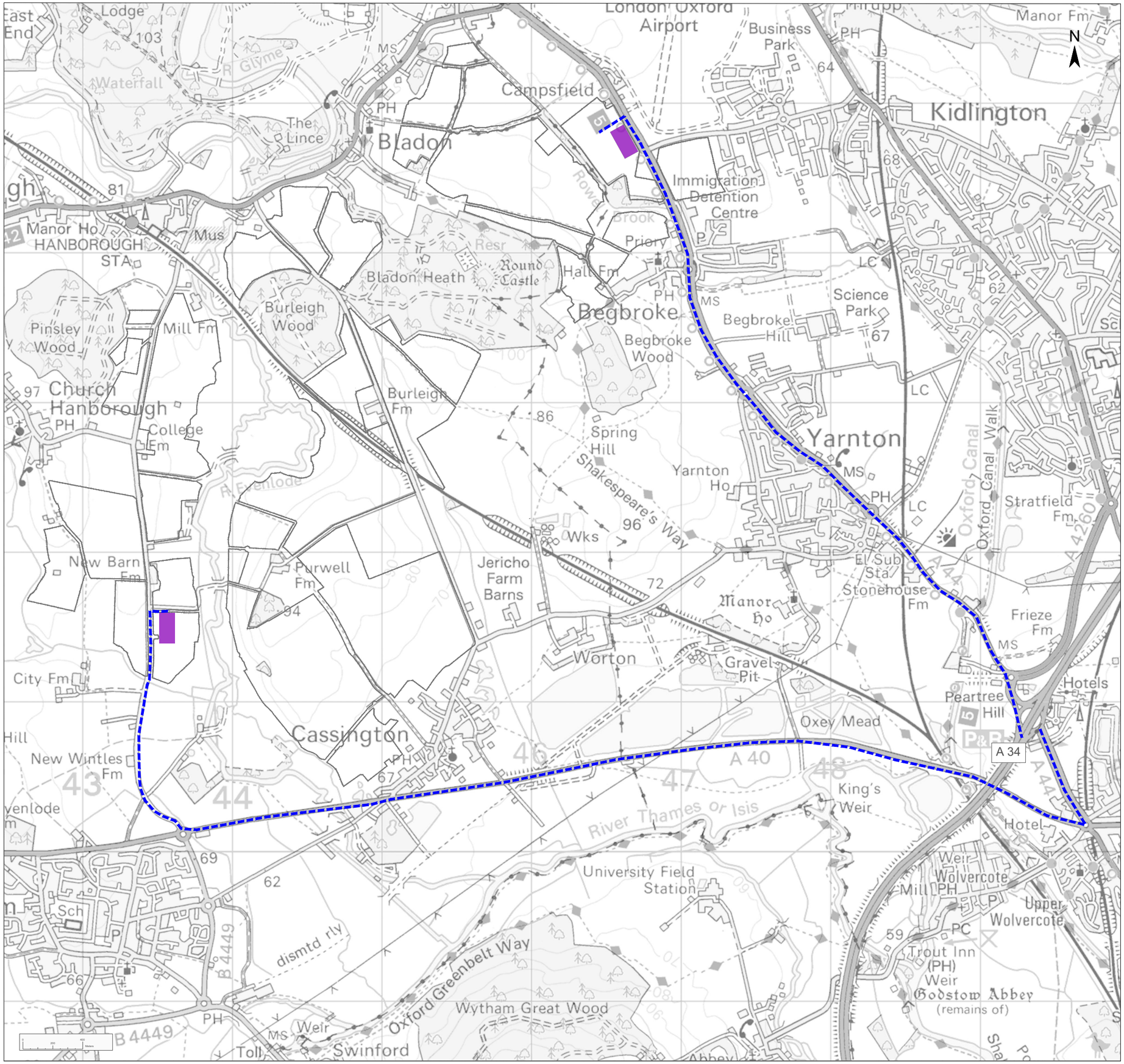
Scale: 1:40000 at A3

Title

Traffic routes to Construction Compounds
Northern Site Area

PHOTOVOLT DEVELOPMENT PARTNERS

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

- Fence
- Construction Compound
- Transport route

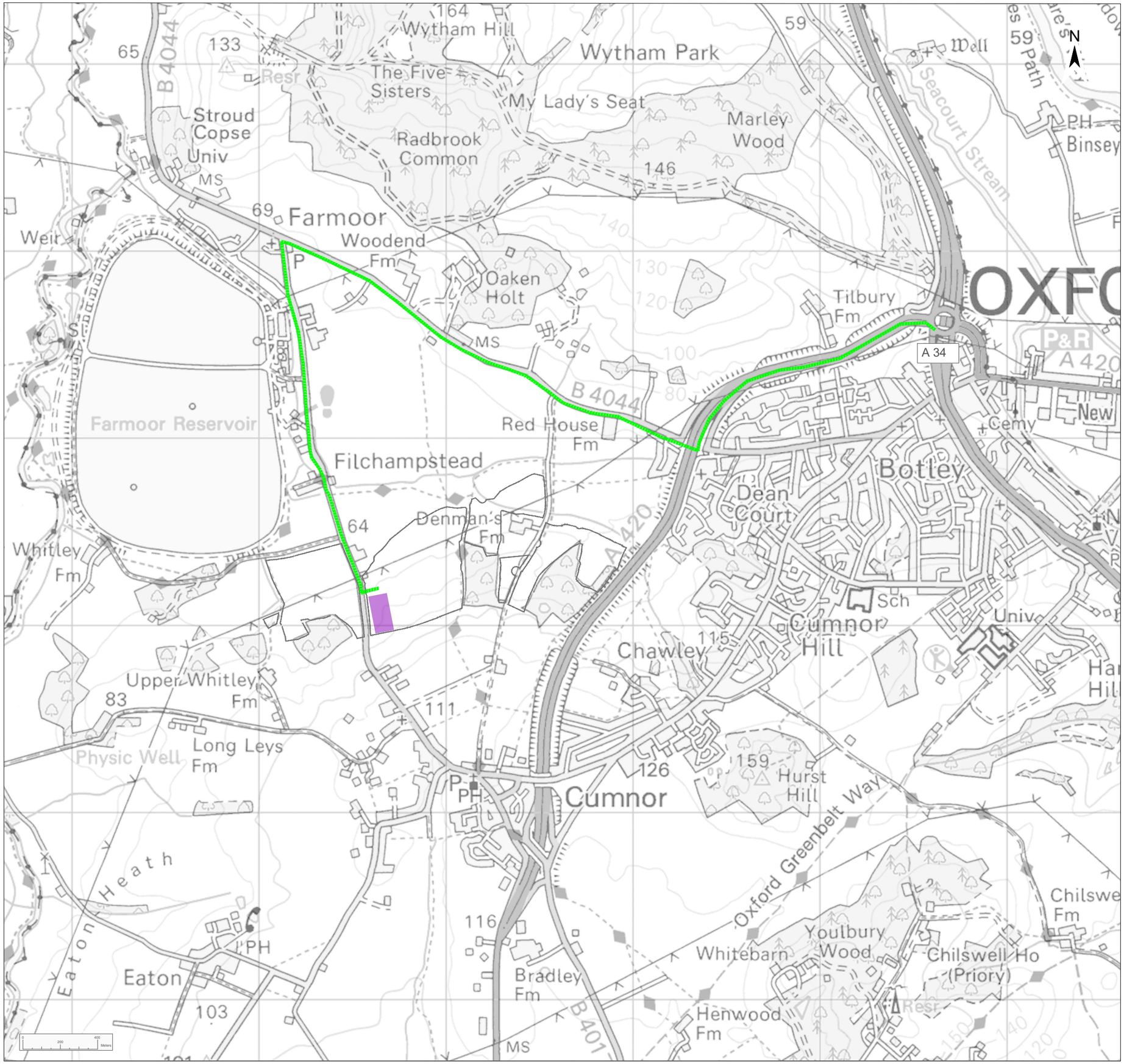
Project				Status		
Botley West Solar Farm				Final		
Id.	Changes	Date	Name		Date	Name
				Edit	01.11.2024	K. Lueken
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0422	
A	Created	01.11.2024	KL			

Scale: 1:25000 at A3

Title

Traffic routes to Construction Compounds
Central Site Area

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

- Fence
- Construction Compound
- Transport route

Project				Status		
Botley West Solar Farm				Final		
Id.	Changes	Date	Name		Date	Name
				Edit	01.11.2024	K. Lueken
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0423	
A	Created	01.11.2024	KL			

Scale: 1:20000 at A3

Title

Traffic routes to Construction Compounds
Southern Site Area

PhotoVolt Development Partners

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany

Legend

Order Limits

General Inset Plan

Project				Status		
Botley West Solar Farm				Final		
Id.	Changes	Date	Name		Date	Name
				Edit	01.11.2024	K. Lueken
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0410	
A	Created	01.11.2024	KL			

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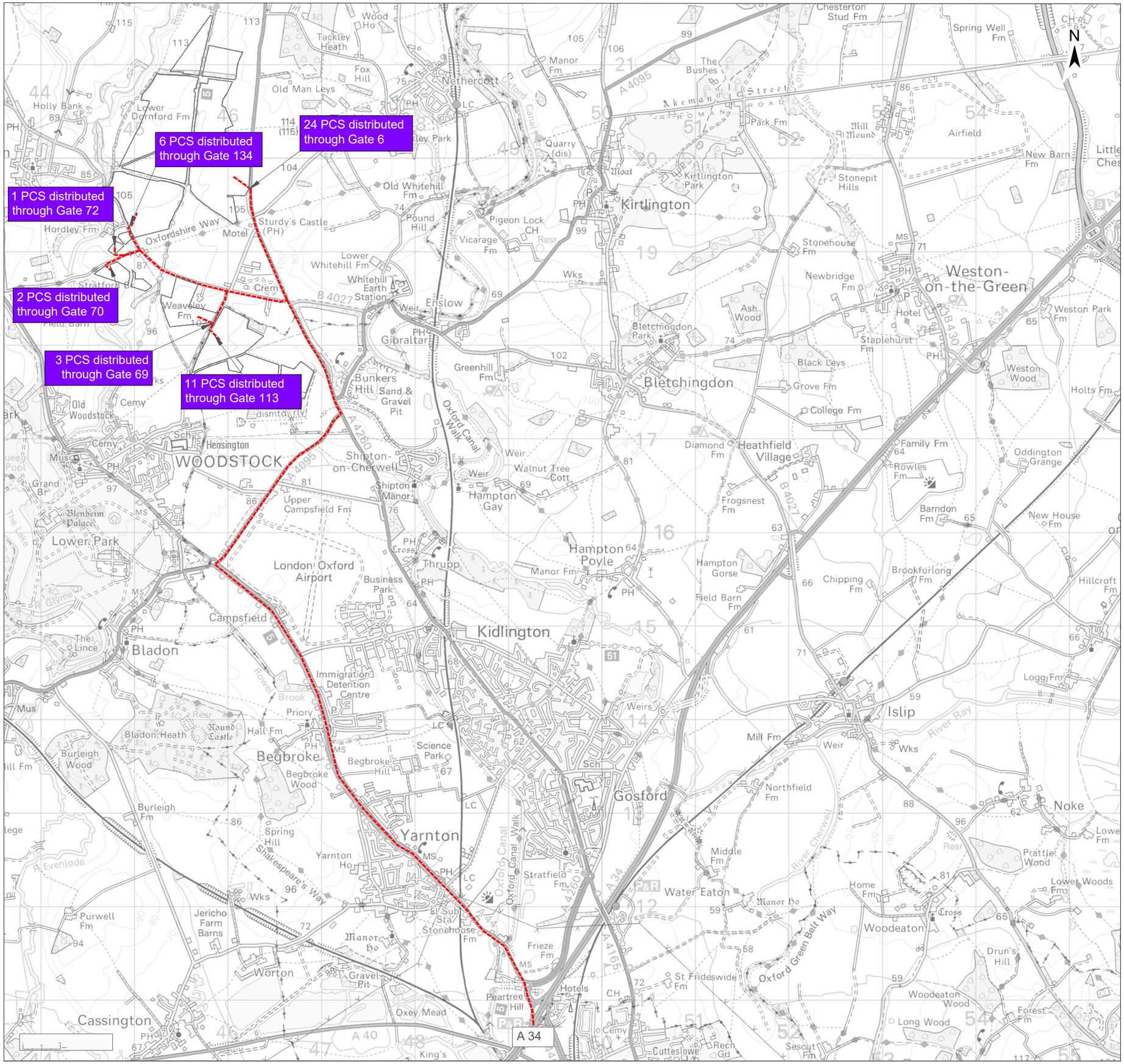
Title

PCS Transport Traffic Overview

PhotoVolt Development Partners

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

- Fence
- PCS
- Transport route

Project				Status		
Botley West Solar Farm				Final		
Id.	Changes	Date	Name		Date	Name
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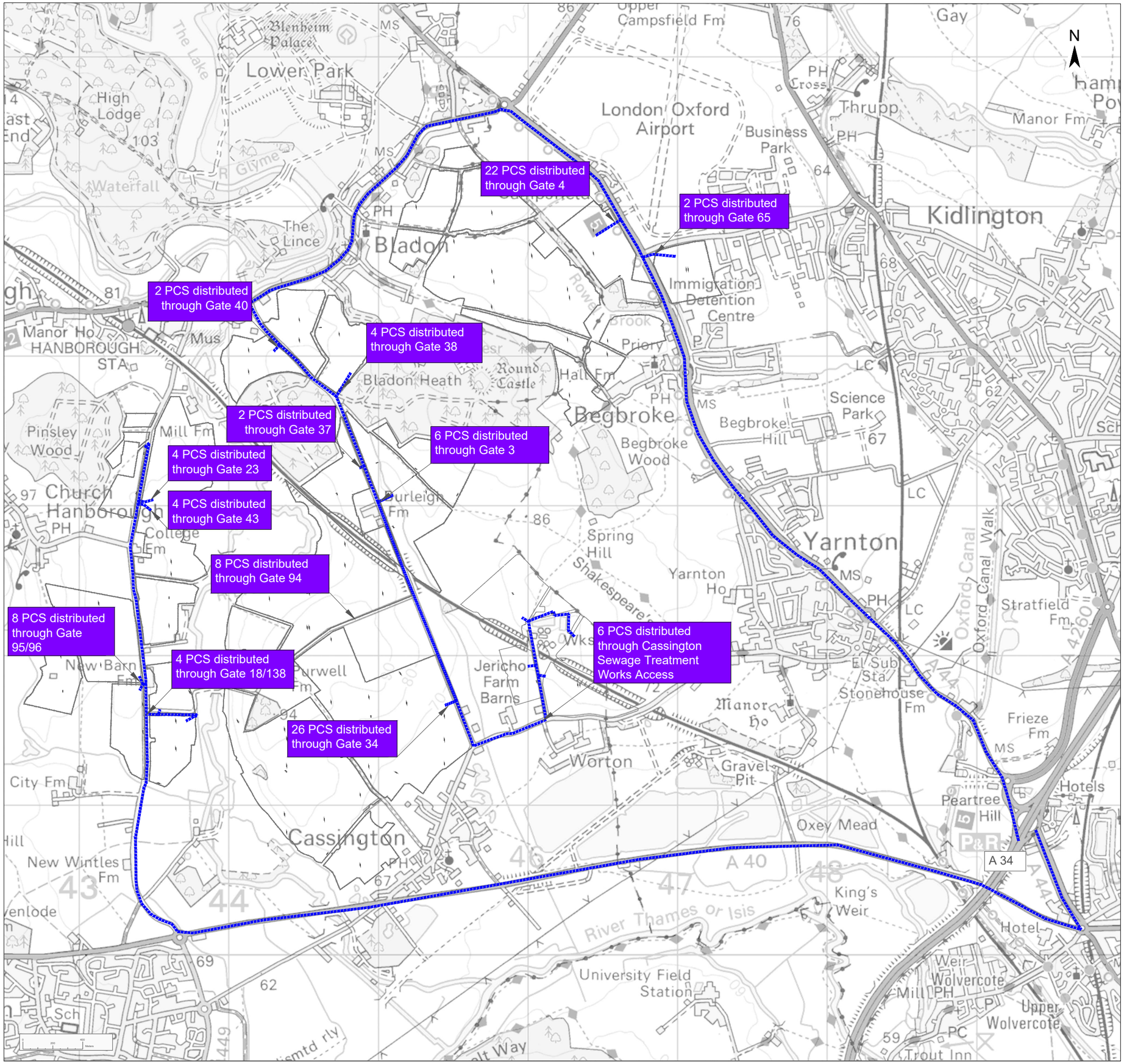
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0411	
A	Created	01.11.2024	KL			

Scale: 1:40000 at A3

Title

PCS Transport Traffic
Northern Site Area

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

- Fence
- PCS
- Transport route

Project				Status		
Botley West Solar Farm				Final		
Id.	**Changes**	**Date**	**Name**		**Date**	**Name**
				Edit	01.11.2024	K. Lueken
				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0412	
A	Created	01.11.2024	KL			

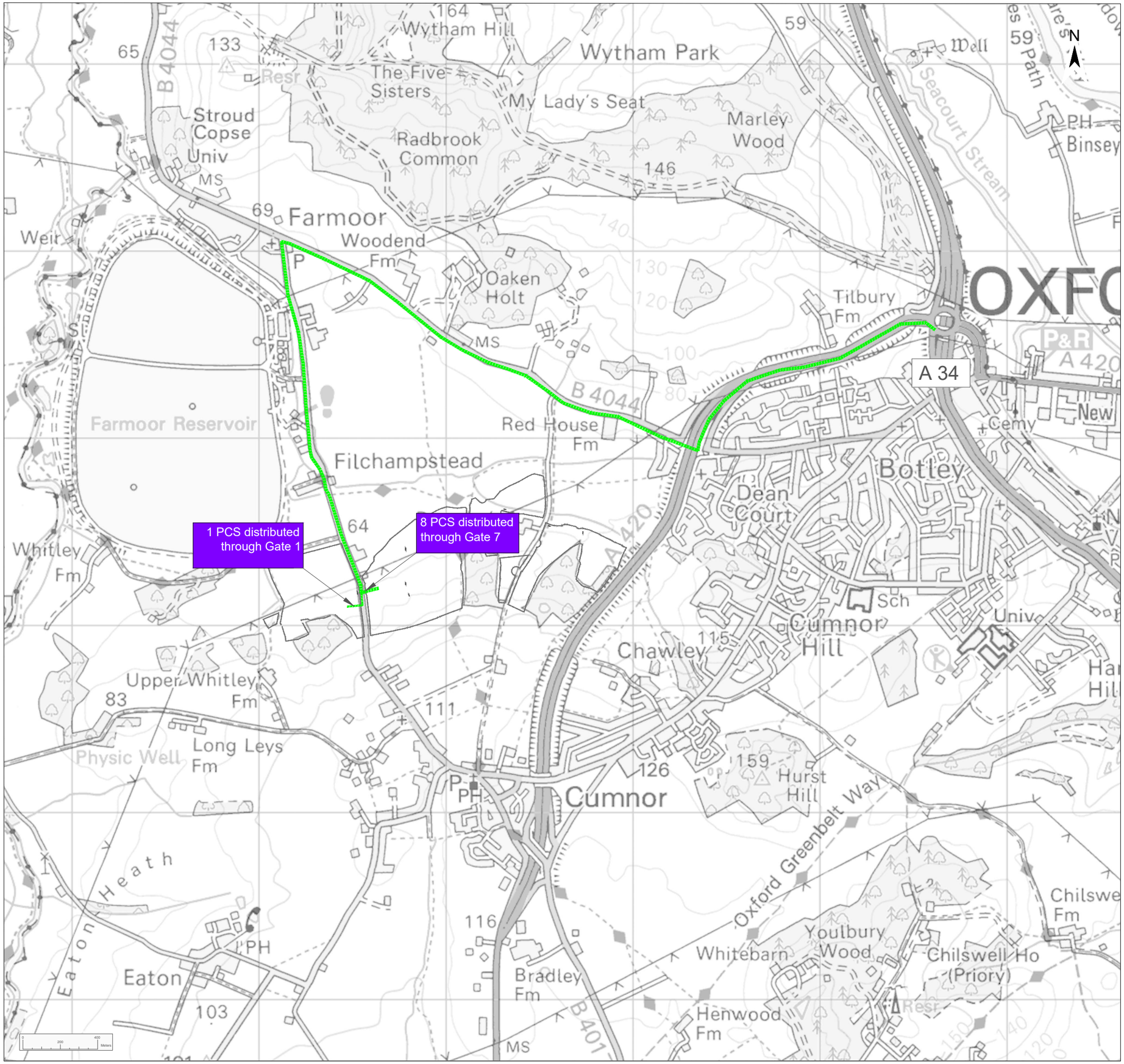
Scale: 1:25000 at A3

Title

PCS Transport Traffic
Central Site Area

PHOTOVOLT DEVELOPMENT PARTNERS

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

- Fence
- PCS
- Transport route

Project				Status		
Botley West Solar Farm				Final		
Id.	Changes	Date	Name		Date	Name
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				Check	01.11.2024	H. Trabelsi
				Approval	01.11.2024	D. Archibald
				Drawing No	prj-01-0413	
A	Created	01.11.2024	KL			

Scale: 1:20000 at A3

Title

PCS Transport Traffic
Southern Site Area

PhotoVolt Development Partners

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany

Legend

Order Limits

General Inset Plan

Project				Status		
Botley West Solar Farm						
Id.	Changes	Date	Name		Date	Name
				Edit	16.07.2024	K. Lueken
				Check	16.07.2024	H. Trabelsi
				Approval		
				Project-No		
B	Edited	16.07.2024	KL	Drawing No		
A	Created	24.04.2024	MT	prj-01-0400		

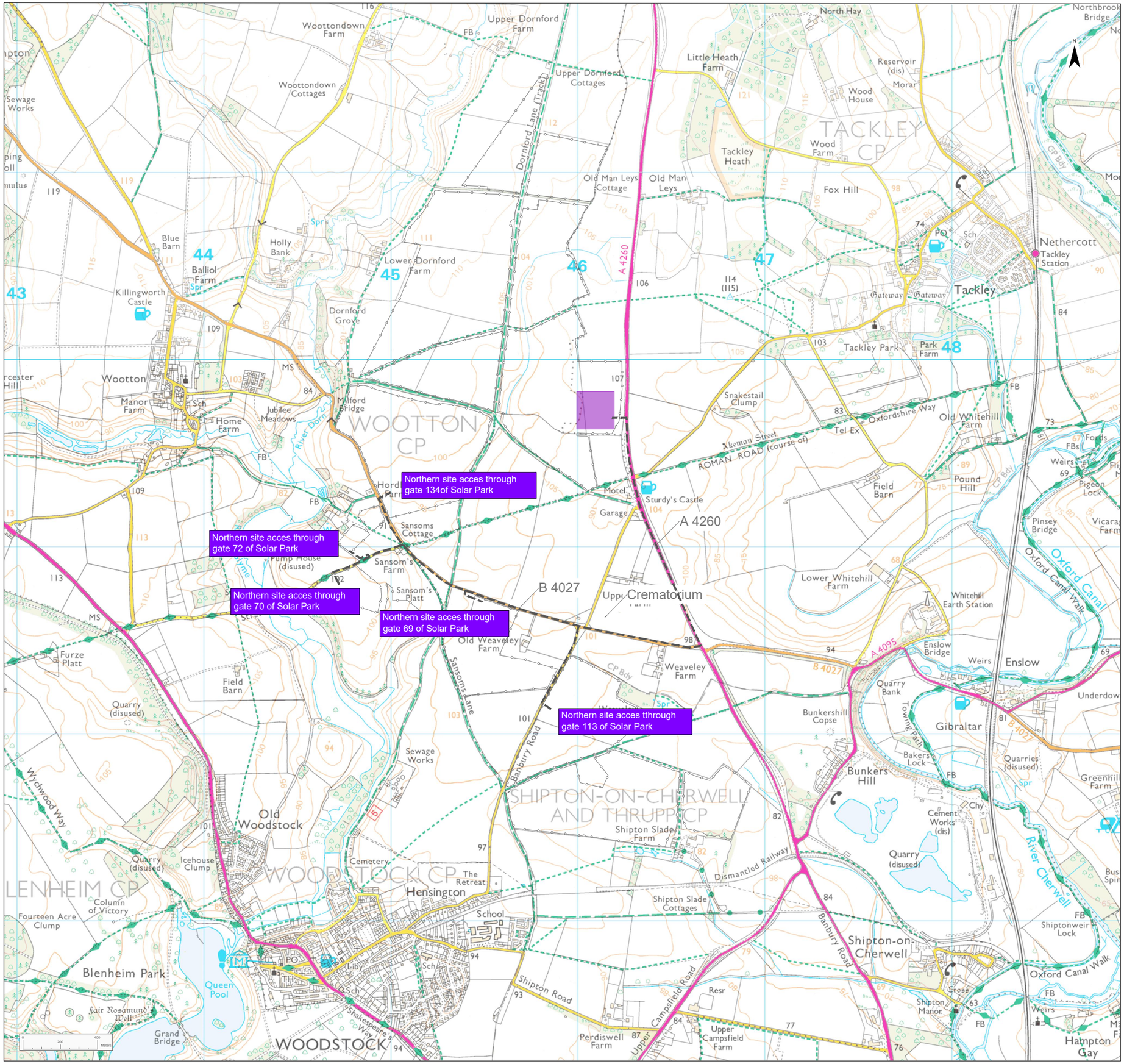
CAD-data name: 240716 Botley West Construction compound traffic drawing.dwg

Scale: 1:65000 at A3 DIM: m

Plan

Construction compound traffic drawing
Figure 6.0
Overview

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany



Legend

Proposed Infrastructure and Land Use Elements

- Fence
- Construction compound
- Access route north

Project				Status		
Botley West Solar Farm				Illustrative		
Id.	**Changes**	**Date**	**Name**		**Date**	**Name**
				Edit	16.07.2024	K. Lueken
				Check	16.07.2024	H. Trabelsi
				Approval		
				Project-No		
B	Edited	16.07.2024	KL	Drawing No		
A	Created	24.04.2024	MT	prj-01-0401		

CAD-data name: 240716 Botley West Construction compound traffic drawing.dwg

Scale: 1:20000 at A3 DIM: m

Plan

Construction compound traffic drawing
Figure 6.1
Northern Site Area

PHOTOVOLT DEVELOPMENT PARTNERS

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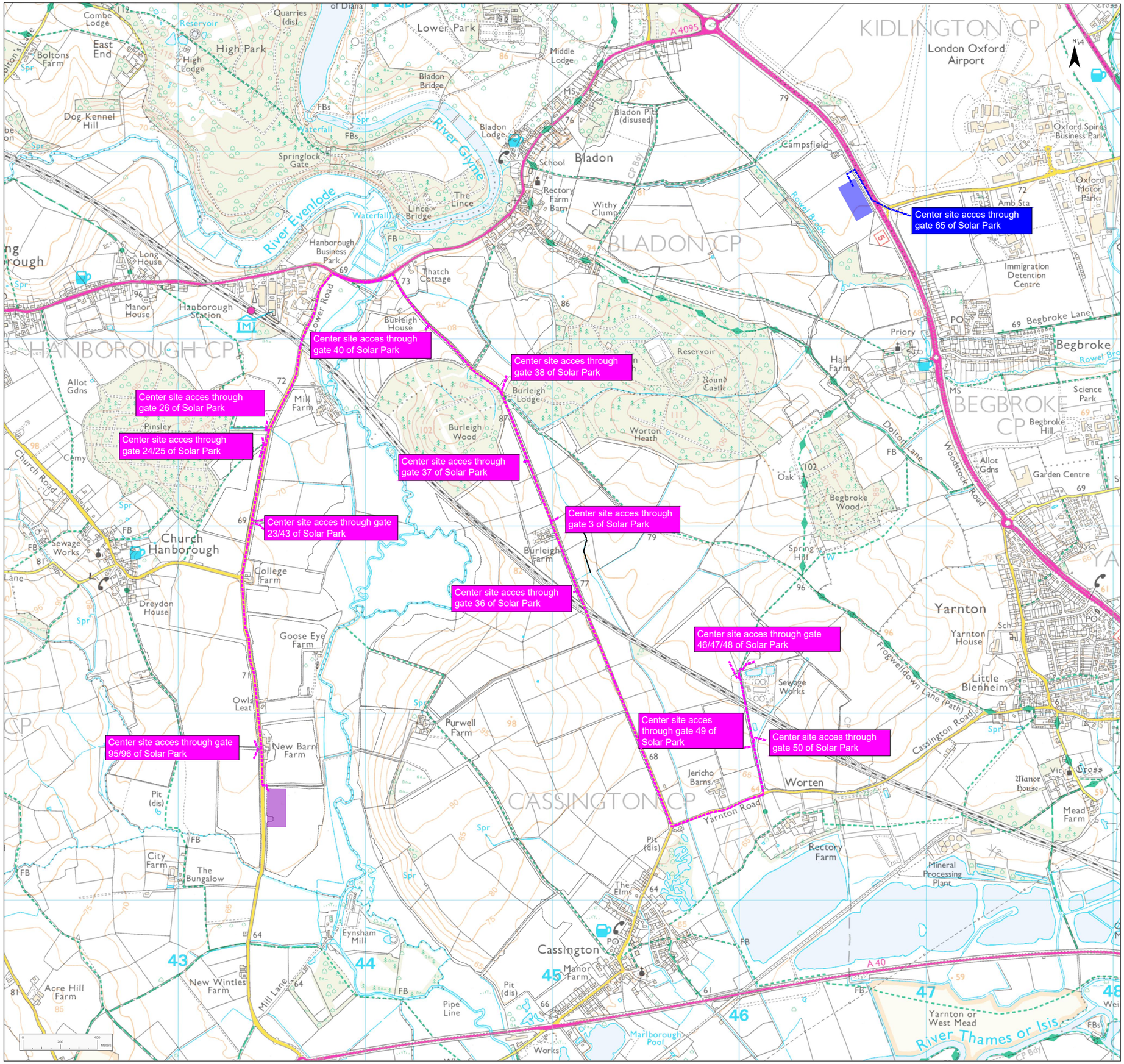
10707 Berlin, Germany



Legend

Proposed Infrastructure and Land Use Elements

- Fence
- Construction compound
- Access route center 1
- Access route center 2

Project				Status		
Botley West Solar Farm				Illustrative		
Id.	Changes	Date	Name		Date	Name
				Edit	16.07.2024	K. Lueken
				Check	16.07.2024	H. Trabelsi
				Approval		
				Project-No		
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A	Created	24.04.2024	MT			

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Scale: 1:20000 at A3 DIM: m

Plan

Construction compound traffic drawing
Figure 6.2
Center Site Area

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany

Southern site acces through gate 1 of Solar Park

Legend

Proposed Infrastructure and Land Use Elements

- Fence
- Construction compound
- Access route south

Project				Status		
Botley West Solar Farm				Illustrative		
Id.	Changes	Date	Name		Date	Name
				Edit	16.07.2024	K. Lueken
				Check	16.07.2024	H. Trabelsi
				Approval		
				Project-No		
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A	Created	24.04.2024	MT			

CAD-data name: 240716 Botley West Construction compound traffic drawing.dwg

Scale: 1:20000 at A3 DIM: m

Plan

Construction compound traffic drawing
Figure 6.3
Southern Site Area

Photovolt Development Partners GmbH
Kurfürstendamm 52
10707 Berlin, Germany

A2: Construction metrics

		2024	2026	2026				2026																Hidden months		2028	2028	2028	2028				2028
	1st Nov DCO Submitted		28th Feb DCO Granted	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November	December		January	February	March	April	May	June	July	August	September	October
Month count				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	22	23	24	25	26	27	28	29	30	31	32
Build Construction Compounds (detailed DCO)								1	2	3	4																							
Discharge Requirements				1	2	3	4																											
24 months for Construction								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	19	20	21	22	23	24				
Removal of Construction sites																																1	2		
Build remaining installation area over the Construction sites																																		1	2
NGET commissioning 2 months																																		1	2
PVDP testing 6 months																														1	2	3	4	5	6
Removing the remaining construction equipment																																1	2	3	4
Period for Traffic Movements				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	22	23	24	25	26	27	28	29	30	31	32
Weight of Materials	Tonnes							15000	15000	15000	15000																					30000	30000		
Traffic Movements	Lorry capacity		20					750	750	750	750																					1,500	1,500	0	0
Daily HGV Movements - Compounds	Day		25					60	60	60	60																					120	120	0	0
Daily HGV Movements - Construction	Day									81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81		81	81	81	81	81	81			30	30
NGET HGV movements	Day								7	5	3	92	35	91	91	62	8	9	10	10	13	17	15	5	1		1	1	1	1	2	3				
Internal Movements from Compounds	Day									11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		11	11	11	11	11	11			11	11
Movements of Matting	Day									4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4			4	4
Peak HGV (incl matting; excl internal movements; incl NGET)								60	67	150	148	177	120	176	176	147	93	94	95	95	98	102	100	90	86		86	86	86	86	87	88	120	120	34	34
Peak HGV (incl matting; excl internal movements; excl NGET)								60	60	145	145	85	85	85	85	85	85	85	85	85	85	85	85	85	85		85	85	85	85	85	85	120	120	34	34
Bus movements	Day							16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		16	16	16	16	16	16	8	8	8	8
Management movements	Day							40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		40	40	40	40	40	40	20	20	20	20
NGET Staff + LGV Movements									22	24	21	29	15	29	29	30	33	37	41	46	49	56	43	20	6		11	11	11	14	11	14				
	DAY TOTAL (Incl NGET)							116	144	230	224	262	191	261	261	233	182	187	192	197	203	214	198	166	147		153	153	153	156	154	158	148	148	62	62
	DAY TOTAL (Excl NGET)							116	116	201	201	141	141	141	141	141	141	141	141	141	141	141	141	141	141		141	141	141	141	141	141	148	148	62	62
	MONTH							2,900	3,600	5,737	5,599	6,536	4,762	6,524	6,524	5,812	4,537	4,674	4,793	4,912	5,080	5,355	4,949	4,137	3,674		3,824	3,824	3,831	3,893	3,837	3,949	3,700	3,700	1,550	1,550
Peak HGV and tractor and trailers (incl matting, internal movements and NGET)								60	67	161	159	188	131	187	187	158	104	105	106	106	109	113	111	101	97		97	97	97	97	98	99	120	120	45	45
Peak HGV and tractor and trailers (incl matting, internal movements; excl NGET)								60	60	156	156	96	96	96	96	96	96	96	96	96	96	96	96	96	96		96	96	96	96	96	96	120	120	45	45

Main parameters				
Truck: payload with stone & sand	**20 t**			
Truck: payload with concrete	**26 t**			
Truck: payload with other	**12 t**			
Specific Weight	Cable DC			
	6mm² Cu, single-pole	0.082	kg/m	
	150mm², CU, Single conductor	1.55	kg/m	
	Cable AC			
	240 mm², 33 kV, Cu, Single core,	3.53	kg/m	78,283
	275 kV, Cross-section dependent on our selection, Cu, single conductor, XLPE	17	kg/m	
	Strip steel groun Stainless steel V4	0.85	kg/m	

Truck needed for Modules/Cables	Value	Unit	Weight in kg	Weight in t	Weight copper	Weight insulation	No. of trucks
Total number of strings	78,283	pcs.					
Average string length in meters (back and forth)	200	m					
Length of DC cable 6mm²	15,656,600	m	1283841.2	1,284 t	847 t	415 t	**214**
Number of modules per string	26	pcs.					
Number of strings per PCS	502						
Number of combiner boxes	1,871						**94**
Number of DC cables 150 mm²	1,871						
Average length of collective cable 150 mm² (back and forth)	800						
Length of DC cable 150mm²	1,497,045	m	2320420.398	2,320 t	2,000 t	304 t	**388**
Length of strip steel grounding	3,742,614	m	3181221.514	3,181 t	Stainless steel V4A		**532**
Total length of 33 kV cable	76,616	m					
3-phase system	229,848	m	811363.44	811 t	433 t	359 t	**115**
Total length of 275 kV cable	40,372						
3-phase system	121,116		2058972	2,059 t	1,010 t	997 t	**122**
Number of tables	78,283						
Number of modules	2,035,358	pcs.					
DC power	1,363,690	kWp					
Number of 40" container	4,241						**4241**

Truck needed for Fences/Gates			Value	Unit	Total value		No. of trucks
Length of Solar insulation fences (ordinary fences)			105578	m			
Weight of ordinary fence Double-rod, 2m high, 2.5m wide			36	kg/2,5m	1,520,323 kg	1,520 t	**127**
Length of Security fence (around substation)			1500	m			
Weight of Security fences 2m high 3m wide	source		14.28	kg/3m	7,140 kg	7.14 t	**1**
Number of ordinary gates			160	pcs.			
Number of Security gates (6 in Sec-Sub - 1 in Main-Sub)			7	pcs.			
Weight of ordinary gate			200	kg	32,000 kg	32 t	3
Weight of security gate			400	kg	2,800 kg	2.80 t	1

Power Converter Stations			Value	Unit	Number of trucks needed
PCS stations			156	pcs.	**468**
Weight a single PCS station			26	t	
Total weight of PCS			4056	t	

Mounting structures			Value	Unit	Total value	No. of trucks
Pile or screw foundation + Mounting structure			28	t/MWp	38,183 t	**3182**

Soil, Material, Construction facilities		Value	Unit	Total value	No. of trucks
Soil excavation				61,981 t	
Recycled Composite (RC) material (soil replacement and cycling path ***)				175,347 matts	
Concrete for substation				1,500 t	**58**
Concrete for PCS				281.60 t	**11**
Type 1 for temporary construction compound				60,000 t	
Access entrace type 1 material				375 t	**76**
Metal access roads				17,177 t	
Construction site facilities		4			
Temporary pipes, conduits					
Temporary power supply (local connection or via emergency power supply to be determined)		5			**40**
Fence, gates		5			**40**
Lighting		15			**120**
Container, accommodation		2			**16**
Container, office		50			**400**
Container, workshop		10			**80**
Container, break room		10			**80**
Waste containers, waste compactors		10			**80**
Fuel station equipment		3			**24**
Transporting excavators, construction machinery, cranes		200			**1600**
Sand for cable trenches (0,1 m x 0,5m *1m)		2,000 kg/m³	28,782 m³	57,563 t	**2879**
Protective tubes					**200**
Steel structures					**100**
Rebar for foundations					**50**
Construction site lighting					**50**
Switchgear					**50**
HDD System		13			**130**
Water, wastewater, waste, fuels, tools, consumables, equipment		4			**3666.666667**
Auxiliary structures, fasteners, screws, nuts, cable ties					**200**
Landscaping					**500**

Summary			
Trucks total			**19938.66667**
Construction time at the power plant without preparation and commissioning			
Months	22		
Working weeks per year	50		
Working days per week	6		
Total working days	550	**37**	**Trucks/day**

Personnel transport (minibuses)	4	**4400**
Minibus arrivals per day		**8**

Supervisor, Controlling etc. (4x4, Pickup, Jeep etc)	4	**11000**
4x4 arrivals per day		**20**

No. of truck arrivals per day =	**37**
No. of total truck movements per day =	**74**
Miscelanious traffic movelments =	**7**
	81
No. of minibus arrivals per day =	**8**
No. of total minibus movements per day =	**16**
No. of 4x4 arrivals per day =	**20**
No. of total 4x4 movements per day =	**40**

Summary

Movements to 4 Construction Compounds

Item	Nr Trucks Neded
Modules/Cables	
Length of DC cable 6mm²	214
Number of combiner boxes	94
Length of DC cable 150mm²	388
Length of strip steel grounding	532
3-phase system	115
3-phase system	122
Number of 40" container	4241
Truck needed for Fences/Gates	
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence panel	127
Number of gates	5
Power Converter Stations	
PCS stations	468
Mounting structures	
Pile or screw foundation + Mounting structure	3182
Soil, Material, Construction facilities	
Soil excavation	-
Rubber matting	**1,464**
Concrete	**58**
Construction site facilities	**11**
Access entrace type 1 material	**76**
Metal access roads	**860**
Temporary power supply (local connection or via emergency power suppl	40
Fence, gates	40
Lighting	120
Container, accommodation	16
Container, office	400
Container, workshop	80
Container, break room	80
Waste containers, waste compactors	80
Fuel station equipment	24
Transporting excavators, construction machinery, cranes	1600
Sand for cable trenches	2879
Protective tubes	200
Steel structures	100
Rebar for foundations	50
Construction site lighting	50
Switchgear	50
HDD System	130
Water, wastewater, waste, fuels, tools, consumables, equipment	3666.666667
Auxiliary structures, fasteners, screws, nuts, cable ties	200
Landscaping	500
TOTAL LOADS	**22262.66667**

Construction time at the power plant without preparation and commissio	24		Months
	50		Working weeks per year
	6		Working days per week
	600		**Total working days**

No. of truck arrivals per day =	**37**	Per Day
No. of total truck movements per day =	**74**	Per Day
Miscelanious traffic movelments =	**7**	Per Day
	81	Per Day

Movements from Construction Compound t to Access Points		Gate / Access Name	Additional Movements		
Number	1	Gate_1	66.05	1.32	Per Day
Number	2	Gate_2	0.00	0.00	Per Day
Number	3	Gate_3 / HDD Access 4.1 / HDD Access 3.2	403.32	4.03	Per Day
Number	4	Gate_4	0.00	0.00	Per Day
Number	5	Gate_5 / 66	738.10	4.92	Per Day
Number	6	Gate_6 / HDD_Access 1.1	20.00	0.08	Per Day
Number	7	Gate_7	0.00	0.00	Per Day
Number	8	Gate_8	0.00	0.00	Per Day
Number	9	To Gate_18/ Gate 138/ Access 5.2	0.00	0.00	Per Day
Number	10	Gate_23	101.87	1.36	Per Day
Number	11	Gate_24 / Gate_25	87.79	1.76	Per Day
Number	12	Gate 26	17.50	0.70	Per Day
Number	13	Gate 29	159.68	2.13	Per Day
Number	14	Gate_34	1504.70	6.02	Per Day
Number	15	Gate_35	0.00	0.00	Per Day
Number	16	Gate_36	25.59	0.51	Per Day
Number	17	Gate_37	135.28	2.71	Per Day
Number	18	Gate_38 / HDD Access 3.1	308.55	3.09	Per Day
Number	19	Gate_40	128.53	2.57	Per Day
Number	20	Gate_43	319.13	3.19	Per Day
Number	21	To Gate_47-52	543.04	4.34	Per Day
Number	22	Gate_65	150.63	3.01	Per Day
Number	23	Gate_69	192.54	2.57	Per Day
Number	24	Gate_70	78.48	1.57	Per Day
Number	25	Gate_72	24.55	1.96	Per Day
Number	26	Gate_95 / Gate_96	602.79	4.02	Per Day
Number	27	Gate 113	0.00	0.00	Per Day
Number	28	Gate_134	420.07	3.36	Per Day
Number	29	HDD Access 1.2	20.00	0.80	Per Day
Number	30	HDD Access 2.1	20.00	0.80	Per Day
Number	31	HDD Access 2.2	20.00	0.80	Per Day
Number	32	To Gate_94, Gate_97/ HDD Access 4.2 / Access 5.1	587.61	3.92	Per Day
Number	33	HDD Access 6.1 A	20.00	0.80	Per Day
Number	34	To HDD Access 6.2 A/ 6.2 B	20.00	0.80	Per Day
Number	35	HDD Access 6.1 B	20.00	0.80	Per Day
	TOTAL		**6735.80**	**11**	**Per Day**

Personnel transport (buses)	4		**4800**	**16**	**Per Day**

#REF!	4		**12000**	**40**	**Pickup truck trips per day**

Number:	1
Access to:	PCS Distribution
Area:	5.3566 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	1.49
Number of combiner boxes	0.11	1.090909091	0.65
Length of DC cable 150mm²	0.46	1.090909091	2.70
Length of strip steel grounding	0.63	1.090909091	3.70
3-phase system	0.14	1.090909091	0.80
3-phase system	0.15	1.090909091	0.85
Number of 40" container	5.05	1.090909091	29.52
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence panel	0.15	1.090909091	0.88
Number of gates	0.01	1.090909091	0.03
Power Converter Stations			
PCS stations	0.56	1.090909091	3.26
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	22.15
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**66.05**

Construction time at the power plant without preparation and commissio	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**1.321015135**	**Trucks/day**
			1.255855451	TT Loads/day
			0.065159684	PCS Loads/day

2.5117109 Two-way TT Movements

0.1303194 Two-way HGV Movements

Number:	2
Access to:	Secondary Substation 2
Area:	0 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	3	
Access to:	PCS Distribution, HDD Compound	
Area:	31.0864	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	8.65
Number of combiner boxes	0.11	1.090909091	3.80
Length of DC cable 150mm²	0.46	1.090909091	15.68
Length of strip steel grounding	0.63	1.090909091	21.49
3-phase system	0.14	1.090909091	4.65
3-phase system	0.15	1.090909091	4.93
Number of 40" container	5.05	1.090909091	171.34
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	5.13
Number of gates	0.01	1.090909091	0.20
Power Converter Stations			
PCS stations	0.56	1.090909091	18.91
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	128.55
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**403.32**

Construction time at the power plant without preparation and commiss	4	Months		
	50	Working weeks per year		
	6	Working days per week		
	100	Total working days	**4.033178219**	**Trucks/day**
			3.644104926	TT Loads/day
			0.189073293	PCS Loads/day
			0.200000000	HDD Loads/day

7.2882099	Two-way TT Movements
0.3781466	Two-way HGV Movements
0.400000	Two-way HGV Movements
20	Two-way Staff Movements

Number:	4
Access to:	Secondary Substation 4, Construction Compound, PCS Distribution
Area:	0 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	9	Months		
	50	Working weeks per year		
	6	Working days per week		
	225	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	5	
Access to:	PCS Distribution	
Area:	59.8589	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	16.65
Number of combiner boxes	0.11	1.090909091	7.31
Length of DC cable 150mm²	0.46	1.090909091	30.18
Length of strip steel grounding	0.63	1.090909091	41.39
3-phase system	0.14	1.090909091	8.95
3-phase system	0.15	1.090909091	9.49
Number of 40" container	5.05	1.090909091	329.92
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	9.88
Number of gates	0.01	1.090909091	0.39
Power Converter Stations			
PCS stations	0.56	1.090909091	36.41
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	247.54
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**738.10**

Construction time at the power plant without preparation and commiss	6	Months		
	50	Working weeks per year		
	6	Working days per week		
	150	Total working days	**4.920690542**	**Trucks/day**
			4.677975199	TT Loads/day
			0.242715343	PCS Loads/day

9.3559504	Two-way TT Movements
0.4854307	Two-way HGV Movements

Number:	6	
Access to:	Secondary Substation 6, Construction Compound, PCS Distribution, HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	10	Months		
	50	Working weeks per year		
	6	Working days per week		
	250	Total working days	**0.08**	**Trucks/day**

0.08 HDD Loads/day

0.16 Two-way HGV Movements

20 Two-way Staff Movements

Number:	7	
Access to:	Construction Compound, PCS Distribution	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	10	Months		
	50	Working weeks per year		
	6	Working days per week		
	250	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	8
Access to:	PVDP Main Substation, Secondary Substaion 1
Area:	0 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	10	Months		
	50	Working weeks per year		
	6	Working days per week		
	250	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	9
Access to:	Construction Compound, PCS Distribution
Area:	0 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	4	Months		
	50	Working weeks per year		
	6	Working days per week		
	100	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	10
Access to:	PCS Distribution
Area:	8.2614 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	2.30
Number of combiner boxes	0.11	1.090909091	1.01
Length of DC cable 150mm²	0.46	1.090909091	4.17
Length of strip steel grounding	0.63	1.090909091	5.71
3-phase system	0.14	1.090909091	1.23
3-phase system	0.15	1.090909091	1.31
Number of 40" container	5.05	1.090909091	45.53
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	1.36
Number of gates	0.01	1.090909091	0.05
Power Converter Stations			
PCS stations	0.56	1.090909091	5.02
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	34.16
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**101.87**

Construction time at the power plant without preparation and commiss	3	Months		
	50	Working weeks per year		
	6	Working days per week		
	75	Total working days	**1.358253922**	**Trucks/day**
			1.291257417	TT Loads/day
			0.066996505	PCS Loads/day

2.5825148 Two-way TT Movements

0.133993 Two-way HGV Movements

Number:	11	
Access to:	PCS Distribution	
Area:	7.12	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	1.98
Number of combiner boxes	0.11	1.090909091	0.87
Length of DC cable 150mm²	0.46	1.090909091	3.59
Length of strip steel grounding	0.63	1.090909091	4.92
3-phase system	0.14	1.090909091	1.06
3-phase system	0.15	1.090909091	1.13
Number of 40" container	5.05	1.090909091	39.24
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	1.18
Number of gates	0.01	1.090909091	0.05
Power Converter Stations			
PCS stations	0.56	1.090909091	4.33
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	29.44
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**87.79**

Construction time at the power plant without preparation and commiss	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**1.755895113**	**Trucks/day**
			1.669284772	TT Loads/day
			0.086610341	PCS Loads/day

3.3385695 Two-way TT Movements

0.1732207 Two-way HGV Movements

Number:	12	
Access to:	Solar field	
Area:	1.4196	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.39
Number of combiner boxes	0.11	1.090909091	0.17
Length of DC cable 150mm²	0.46	1.090909091	0.72
Length of strip steel grounding	0.63	1.090909091	0.98
3-phase system	0.14	1.090909091	0.21
3-phase system	0.15	1.090909091	0.23
Number of 40" container	5.05	1.090909091	7.82
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.23
Number of gates	0.01	1.090909091	0.01
Power Converter Stations			
PCS stations	0.56	1.090909091	0.86
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	5.87
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**17.50**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.700187838**	**Trucks/day**
			0.665650748	TT Loads/day
			0.03453709	PCS Loads/day

1.3313015	Two-way TT Movements
0.0690742	Two-way HGV Movements

Number:	13
Access to:	PCS Distribution
Area:	12.9497 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	3.60
Number of combiner boxes	0.11	1.090909091	1.58
Length of DC cable 150mm²	0.46	1.090909091	6.53
Length of strip steel grounding	0.63	1.090909091	8.95
3-phase system	0.14	1.090909091	1.94
3-phase system	0.15	1.090909091	2.05
Number of 40" container	5.05	1.090909091	71.37
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	2.14
Number of gates	0.01	1.090909091	0.08
Power Converter Stations			
PCS stations	0.56	1.090909091	7.88
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	53.55
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**159.68**

Construction time at the power plant without preparation and commiss	3	Months		
	50	Working weeks per year		
	6	Working days per week		
	75	Total working days	**2.129055706**	**Trucks/day**
			2.024039046	TT Loads/day
			0.10501666	PCS Loads/day

4.0480781 Two-way TT Movements

0.2100333 Two-way HGV Movements

Number:	14	
Access to:	PCS Distribution	
Area:	122.0283	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	33.94
Number of combiner boxes	0.11	1.090909091	14.91
Length of DC cable 150mm²	0.46	1.090909091	61.53
Length of strip steel grounding	0.63	1.090909091	84.37
3-phase system	0.14	1.090909091	18.24
3-phase system	0.15	1.090909091	19.35
Number of 40" container	5.05	1.090909091	672.58
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	20.14
Number of gates	0.01	1.090909091	0.79
Power Converter Stations			
PCS stations	0.56	1.090909091	74.22
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	504.63
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**1504.70**

Construction time at the power plant without preparation and commiss	10	Months		
	50	Working weeks per year		
	6	Working days per week		
	250	Total working days	**6.018789203**	**Loads/day**
			5.721909634	TT Loads/day
			0.296879569	PCS Loads/day

11.443819 Two-way TT Movements

0.5937591 Two-way HGV Movements

Number:	15
Access to:	Secondary substation 3
Area:	0 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	3	Months		
	50	Working weeks per year		
	6	Working days per week		
	75	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	16
Access to:	PCS Distribution
Area:	2.0755 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.58
Number of combiner boxes	0.11	1.090909091	0.25
Length of DC cable 150mm²	0.46	1.090909091	1.05
Length of strip steel grounding	0.63	1.090909091	1.43
3-phase system	0.14	1.090909091	0.31
3-phase system	0.15	1.090909091	0.33
Number of 40" container	5.05	1.090909091	11.44
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.34
Number of gates	0.01	1.090909091	0.01
Power Converter Stations			
PCS stations	0.56	1.090909091	1.26
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	8.58
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**25.59**

Construction time at the power plant without preparation and commiss	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**0.511848358**	**Trucks/day**
			0.4866012	TT Loads/day
			0.025247158	PCS Loads/day

0.9732024 Two-way TT Movements

0.0504943 Two-way HGV Movements

Number:	17	
Access to:	PCS Distribution	
Area:	10.9713	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	3.05
Number of combiner boxes	0.11	1.090909091	1.34
Length of DC cable 150mm²	0.46	1.090909091	5.53
Length of strip steel grounding	0.63	1.090909091	7.59
3-phase system	0.14	1.090909091	1.64
3-phase system	0.15	1.090909091	1.74
Number of 40" container	5.05	1.090909091	60.47
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	1.81
Number of gates	0.01	1.090909091	0.07
Power Converter Stations			
PCS stations	0.56	1.090909091	6.67
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	45.37
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**135.28**

Construction time at the power plant without preparation and commiss	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**2.705681468**	**Trucks/day**
			2.572222475	TT Loads/day
			0.133458993	PCS Loads/day

5.144445	Two-way TT Movements
0.266918	Two-way HGV Movements

Number:	18	
Access to:	PCS Distribution	
Area:	25.0232	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	6.96
Number of combiner boxes	0.11	1.090909091	3.06
Length of DC cable 150mm²	0.46	1.090909091	12.62
Length of strip steel grounding	0.63	1.090909091	17.30
3-phase system	0.14	1.090909091	3.74
3-phase system	0.15	1.090909091	3.97
Number of 40" container	5.05	1.090909091	137.92
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	4.13
Number of gates	0.01	1.090909091	0.16
Power Converter Stations			
PCS stations	0.56	1.090909091	15.22
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	103.48
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**308.55**

Construction time at the power plant without preparation and commiss	4	Months		
	50	Working weeks per year		
	6	Working days per week		
	100	Total working days	**3.085541755**	**Trucks/day**
			2.933345977	TT Loads/day
			0.152195778	PCS Loads/day

5.866692 Two-way TT Movements

0.3043916 Two-way HGV Movements

Number:	19
Access to:	PCS Distribution
Area:	10.4232 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	2.90
Number of combiner boxes	0.11	1.090909091	1.27
Length of DC cable 150mm²	0.46	1.090909091	5.26
Length of strip steel grounding	0.63	1.090909091	7.21
3-phase system	0.14	1.090909091	1.56
3-phase system	0.15	1.090909091	1.65
Number of 40" container	5.05	1.090909091	57.45
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	1.72
Number of gates	0.01	1.090909091	0.07
Power Converter Stations			
PCS stations	0.56	1.090909091	6.34
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	43.10
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**128.53**

Construction time at the power plant without preparation and commiss	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**2.570512071**	**Trucks/day**
			2.443720371	TT Loads/day
			0.1267917	PCS Loads/day

4.8874407 Two-way TT Movements

0.2535834 Two-way HGV Movements

Number:	20	
Access to:	PCS Distribution	
Area:	25.8811	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	7.20
Number of combiner boxes	0.11	1.090909091	3.16
Length of DC cable 150mm²	0.46	1.090909091	13.05
Length of strip steel grounding	0.63	1.090909091	17.89
3-phase system	0.14	1.090909091	3.87
3-phase system	0.15	1.090909091	4.10
Number of 40" container	5.05	1.090909091	142.65
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	4.27
Number of gates	0.01	1.090909091	0.17
Power Converter Stations			
PCS stations	0.56	1.090909091	15.74
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	107.03
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**319.13**

Construction time at the power plant without preparation and commiss	4	Months		
	50	Working weeks per year		
	6	Working days per week		
	100	Total working days	**3.191327037**	**Trucks/day**
			3.033913351	TT Loads/day
			0.157413686	PCS Loads/day

6.0678267 Two-way TT Movements

0.3148274 Two-way HGV Movements

Number:	21	
Access to:	PCS Distribution	
Area:	44.0393	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	12.25
Number of combiner boxes	0.11	1.090909091	5.38
Length of DC cable 150mm²	0.46	1.090909091	22.21
Length of strip steel grounding	0.63	1.090909091	30.45
3-phase system	0.14	1.090909091	6.58
3-phase system	0.15	1.090909091	6.98
Number of 40" container	5.05	1.090909091	242.73
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	7.27
Number of gates	0.01	1.090909091	0.29
Power Converter Stations			
PCS stations	0.56	1.090909091	26.79
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	182.12
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**543.04**

Construction time at the power plant without preparation and commiss	5	Months		
	50	Working weeks per year		
	6	Working days per week		
	125	Total working days	**4.344291666**	**Trucks/day**
			4.130007465	TT Loads/day
			0.214284201	PCS Loads/day

8.2600149	Two-way TT Movements
0.4285684	Two-way HGV Movements

Number:	22	
Access to:	0	
Area:	12.2157	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	3.40
Number of combiner boxes	0.11	1.090909091	1.49
Length of DC cable 150mm²	0.46	1.090909091	6.16
Length of strip steel grounding	0.63	1.090909091	8.45
3-phase system	0.14	1.090909091	1.83
3-phase system	0.15	1.090909091	1.94
Number of 40" container	5.05	1.090909091	67.33
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	2.02
Number of gates	0.01	1.090909091	0.08
Power Converter Stations			
PCS stations	0.56	1.090909091	7.43
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	50.52
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**150.63**

Construction time at the power plant without preparation and commiss	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**3.01256853**	**Trucks/day**
			2.86397219	TT Loads/day
			0.14859634	PCS Loads/day

5.7279444 Two-way TT Movements

0.2971927 Two-way HGV Movements

Number:	23
Access to:	PCS Distribution
Area:	15.6146 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	4.34
Number of combiner boxes	0.11	1.090909091	1.91
Length of DC cable 150mm²	0.46	1.090909091	7.87
Length of strip steel grounding	0.63	1.090909091	10.80
3-phase system	0.14	1.090909091	2.33
3-phase system	0.15	1.090909091	2.48
Number of 40" container	5.05	1.090909091	86.06
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	2.58
Number of gates	0.01	1.090909091	0.10
Power Converter Stations			
PCS stations	0.56	1.090909091	9.50
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	64.57
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**192.54**

Construction time at the power plant without preparation and commiss	3	Months		
	50	Working weeks per year		
	6	Working days per week		
	75	Total working days	**2.567190996**	**Trucks/day**
			2.440563109	TT Loads/day
			0.126627886	PCS Loads/day

4.8811262 Two-way TT Movements

0.2532558 Two-way HGV Movements

Number:	24	
Access to:	PCS Distribution	
Area:	6.3644	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	1.77
Number of combiner boxes	0.11	1.090909091	0.78
Length of DC cable 150mm²	0.46	1.090909091	3.21
Length of strip steel grounding	0.63	1.090909091	4.40
3-phase system	0.14	1.090909091	0.95
3-phase system	0.15	1.090909091	1.01
Number of 40" container	5.05	1.090909091	35.08
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	1.05
Number of gates	0.01	1.090909091	0.04
Power Converter Stations			
PCS stations	0.56	1.090909091	3.87
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	26.32
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**78.48**

Construction time at the power plant without preparation and commiss	2	Months		
	50	Working weeks per year		
	6	Working days per week		
	50	Total working days	**1.56955321**	**Trucks/day**
			1.49213427	TT Loads/day
			0.07741894	PCS Loads/day

2.9842685	Two-way TT Movements
0.1548379	Two-way HGV Movements

Number:	25	
Access to:	PCS Distribution	
Area:	1.9906	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.55
Number of combiner boxes	0.11	1.090909091	0.24
Length of DC cable 150mm²	0.46	1.090909091	1.00
Length of strip steel grounding	0.63	1.090909091	1.38
3-phase system	0.14	1.090909091	0.30
3-phase system	0.15	1.090909091	0.32
Number of 40" container	5.05	1.090909091	10.97
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.33
Number of gates	0.01	1.090909091	0.01
Power Converter Stations			
PCS stations	0.56	1.090909091	1.21
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	8.23
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**24.55**

Construction time at the power plant without preparation and commiss	0.5	Months		
	50	Working weeks per year		
	6	Working days per week		
	12.5	Total working days	**1.963643153**	**Trucks/day**
			1.866785544	TT Loads/day
			0.096857609	PCS Loads/day

3.7335711	Two-way TT Movements
0.1937152	Two-way HGV Movements

Number:	26	
Access to:	PCS Distribution	
Area:	48.8851	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	13.60
Number of combiner boxes	0.11	1.090909091	5.97
Length of DC cable 150mm²	0.46	1.090909091	24.65
Length of strip steel grounding	0.63	1.090909091	33.80
3-phase system	0.14	1.090909091	7.31
3-phase system	0.15	1.090909091	7.75
Number of 40" container	5.05	1.090909091	269.44
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	8.07
Number of gates	0.01	1.090909091	0.32
Power Converter Stations			
PCS stations	0.56	1.090909091	29.73
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	202.16
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**602.79**

Construction time at the power plant without preparation and commiss	6	Months		
	50	Working weeks per year		
	6	Working days per week		
	150	Total working days	**4.018591207**	**Trucks/day**
			3.820372333	TT Loads/day
			0.198218875	PCS Loads/day

7.6407447 Two-way TT Movements

0.3964377 Two-way HGV Movements

Number:	27
Access to:	Secondary substation 5
Area:	0 ha
Traffic movement	Tractor/Trailer
Weight limit of load	11 tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**0.00**

Construction time at the power plant without preparation and commiss	0.5	Months		
	50	Working weeks per year		
	6	Working days per week		
	12.5	Total working days	**0**	**Trucks/day**

0 TT Loads/day
0 PCS Loads/day

0 Two-way TT Movements
0 Two-way HGV Movements

Number:	28	
Access to:	PCS Distribution	
Area:	34.0673	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	9.47
Number of combiner boxes	0.11	1.090909091	4.16
Length of DC cable 150mm²	0.46	1.090909091	17.18
Length of strip steel grounding	0.63	1.090909091	23.55
3-phase system	0.14	1.090909091	5.09
3-phase system	0.15	1.090909091	5.40
Number of 40" container	5.05	1.090909091	187.77
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	5.62
Number of gates	0.01	1.090909091	0.22
Power Converter Stations			
PCS stations	0.56	1.090909091	20.72
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	140.88
HDD			
Loads for HDD compound/materials	0	0	0.00
Personel movements	0	0	0.00
TOTAL LOADS			**420.07**

Construction time at the power plant without preparation and commiss	5	Months		
	50	Working weeks per year		
	6	Working days per week		
	125	Total working days	**3.360595819**	**Trucks/day**
			3.194832872	TT Loads/day
			0.165762947	PCS Loads/day

6.3896657 Two-way TT Movements

0.3315259 Two-way HGV Movements

Number:	29	
Access to:	HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.8**	**Trucks/day**

0.8 HDD Loads/day

1.6 Two-way HGV Movements

20.00 Two-way Staff Movements

Number:	30	
Access to:	HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.8**	**Trucks/day**

0.8 HDD Loads/day

1.6 Two-way HGV Movements

20 Two-way Staff Movements

Number:	31	
Access to:	HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.8**	**Trucks/day**

0.8 HDD Loads/day

1.6 Two-way HGV Movements

20 Two-way Staff Movements

Number:	32	
Access to:	PCS Distribution, HDD Compound	
Area:	46.0319	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	12.80
Number of combiner boxes	0.11	1.090909091	5.62
Length of DC cable 150mm²	0.46	1.090909091	23.21
Length of strip steel grounding	0.63	1.090909091	31.83
3-phase system	0.14	1.090909091	6.88
3-phase system	0.15	1.090909091	7.30
Number of 40" container	5.05	1.090909091	253.71
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	7.60
Number of gates	0.01	1.090909091	0.30
Power Converter Stations			
PCS stations	0.56	1.090909091	28.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	190.36
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**587.61**

Construction time at the power plant without preparation and commiss	6	Months		
	50	Working weeks per year		
	6	Working days per week		
	150	Total working days	**3.917377727**	**Trucks/day**
			3.597394649	TT Loads/day
			0.186649745	PCS Loads/day
			0.133333333	HDD Loads/day

7.1947893	Two-way TT Movements
0.3732995	Two-way HGV Movements
0.266667	Two-way HGV Movements
20	Two-way Staff Movements

Number:	33	
Access to:	HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.8**	**Trucks/day**

0.8 HDD Loads/day

1.6 Two-way HGV Movements

20 Two-way Staff Movements

Number:	34	
Access to:	HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.8**	**Trucks/day**

0.8 HDD Loads/day

1.6 Two-way HGV Movements

20 Two-way Staff Movements

Number:	35	
Access to:	HDD Compound	
Area:	0	ha
Traffic movement	Tractor/Trailer	
Weight limit of load	11	tonne

Item	Unit/ha	Trailer load conversion	Nr based on Area
Modules/Cables			
Length of DC cable 6mm²	0.25	1.090909091	0.00
Number of combiner boxes	0.11	1.090909091	0.00
Length of DC cable 150mm²	0.46	1.090909091	0.00
Length of strip steel grounding	0.63	1.090909091	0.00
3-phase system	0.14	1.090909091	0.00
3-phase system	0.15	1.090909091	0.00
Number of 40" container	5.05	1.090909091	0.00
Truck needed for Fences/Gates			
Double-rod fence, 2 meters high, 2.5 meters wide, weight per fence pa	0.15	1.090909091	0.00
Number of gates	0.01	1.090909091	0.00
Power Converter Stations			
PCS stations	0.56	1.090909091	0.00
Mounting structures			
Pile or screw foundation + Mounting structure	3.79	1.090909091	0.00
HDD			
Loads for HDD compound/materials	0	0	20.00
Personel movements	0	0	20.00
TOTAL LOADS			**20.00**

Construction time at the power plant without preparation and commiss	1	Months		
	50	Working weeks per year		
	6	Working days per week		
	25	Total working days	**0.8**	**Trucks/day**

0.8 HDD Loads/day

1.6 Two-way HGV Movements

20 Two-way Staff Movements

A3: Construction vehicle assignment diagrams and tables

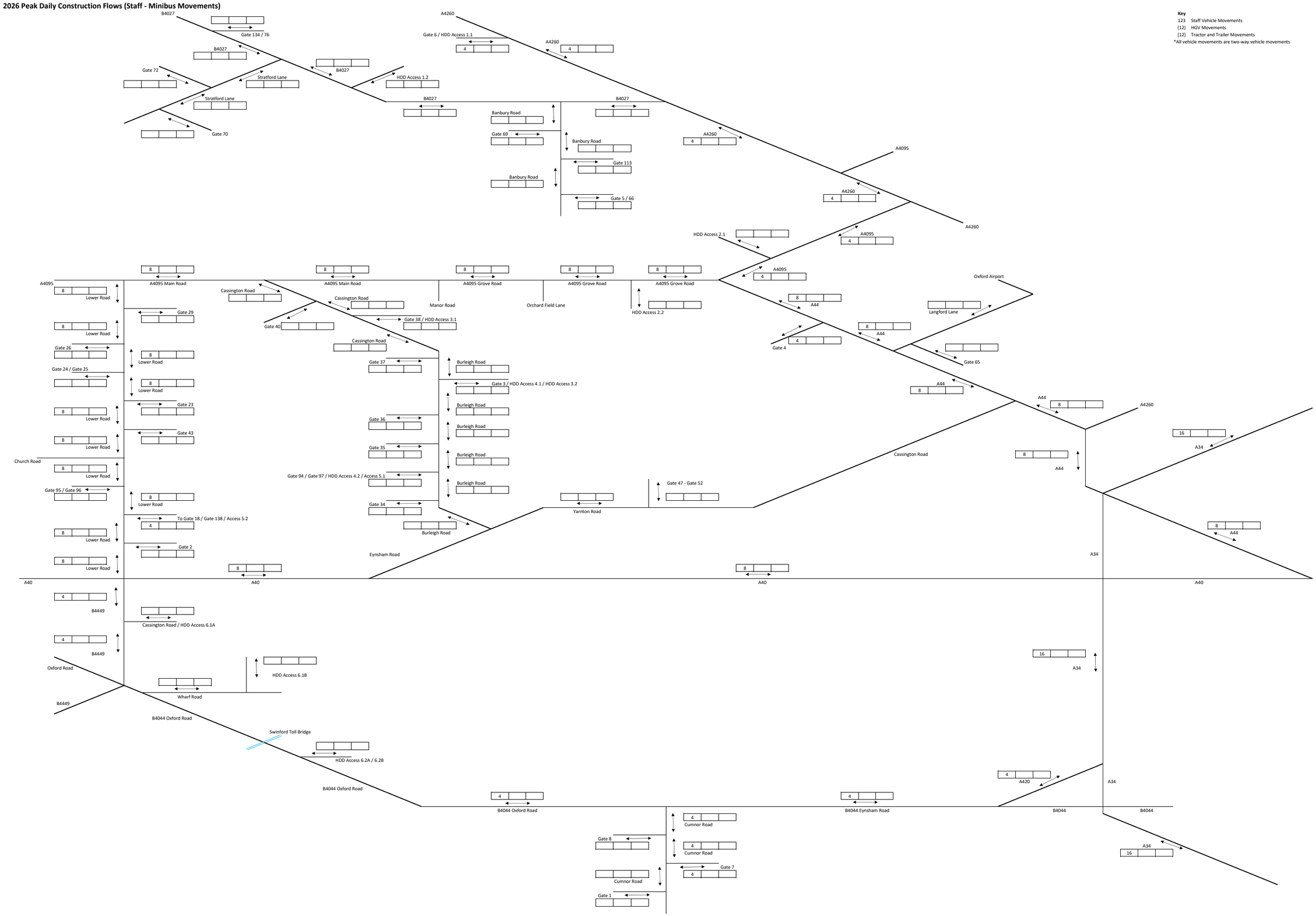
Construction Vehicle Generation

	HGVs (Incl NGET and matting; excl internal movements)		HGVs (Incl matting; excl NGET and internal movements)		Staff (Bus Movements Total)		Staff (Bus Movements to Compound)		Staff (Management Total)		Staff (Management to Each Gate)		Staff (NGET)
	Average	**Peak**	**Average**	**Peak**	**Average**	**Peak**	**Average**	**Peak**	**Average**	**Peak**	**Average**	**Peak**	**Peak**
Construction Compound	103	177	86	145	15	16	4	4	37	40	9	10	29

*All vehicle movements are two-way vehicle movements

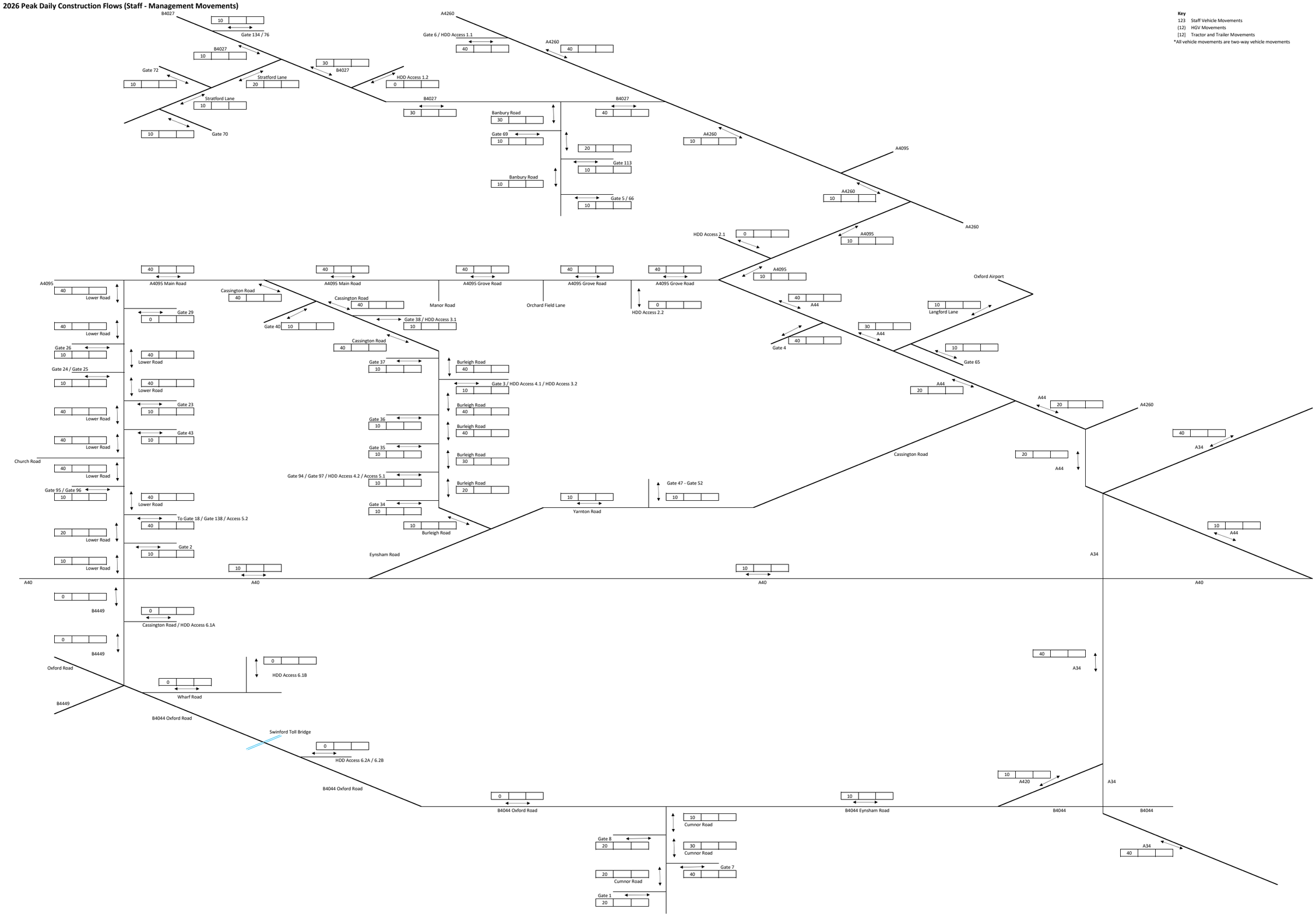
2026 Peak Daily Construction Flows (Staff - Minibus Movements)

Key
123 Staff Vehicle Movements
(12) HGV Movements
[12] Tractor and Trailer Movements
*All vehicle movements are two-way vehicle movements



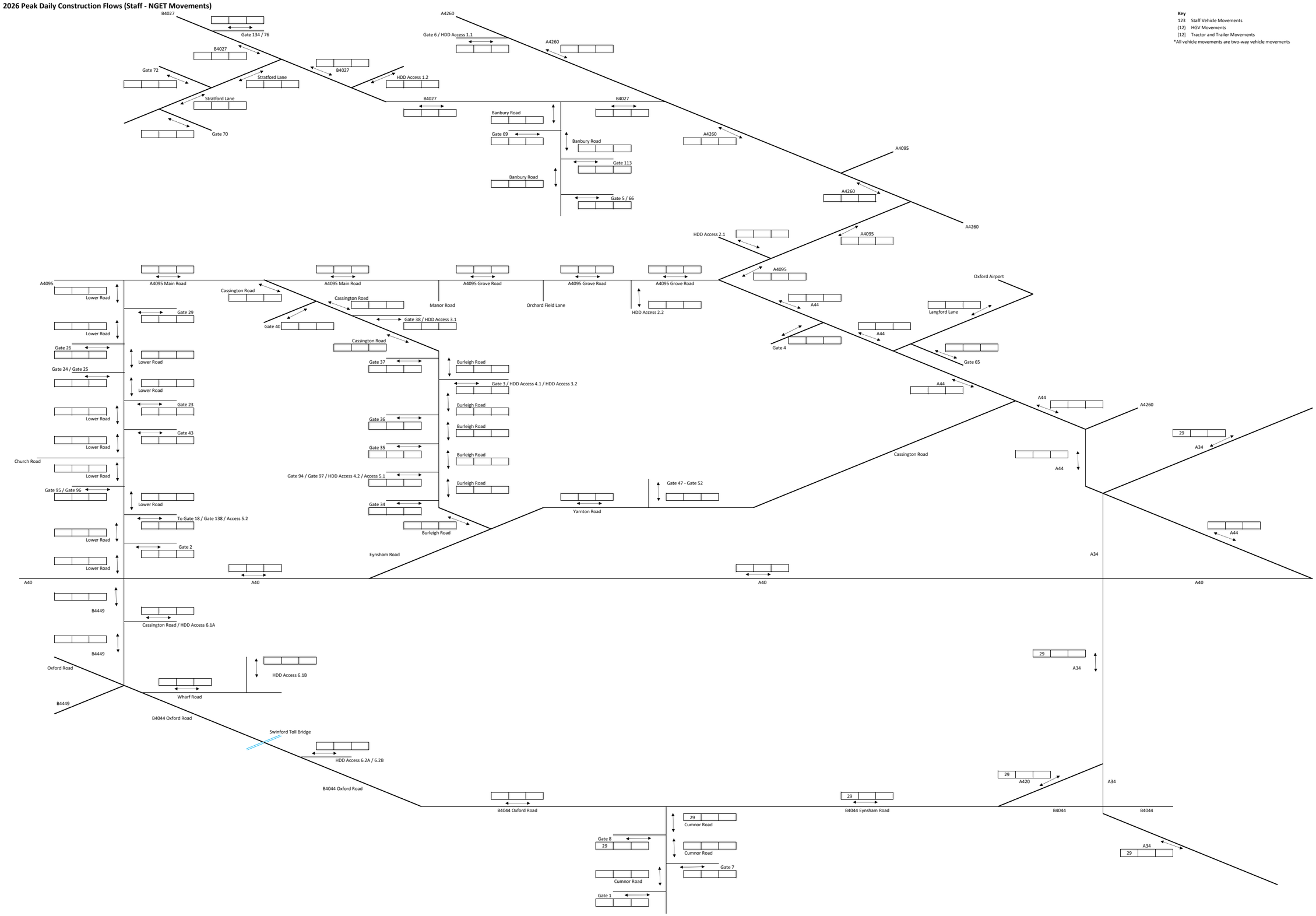
2026 Peak Daily Construction Flows (Staff - Management Movements)

Key
123 Staff Vehicle Movements
(12) HGV Movements
[12] Tractor and Trailer Movements
*All vehicle movements are two-way vehicle movements



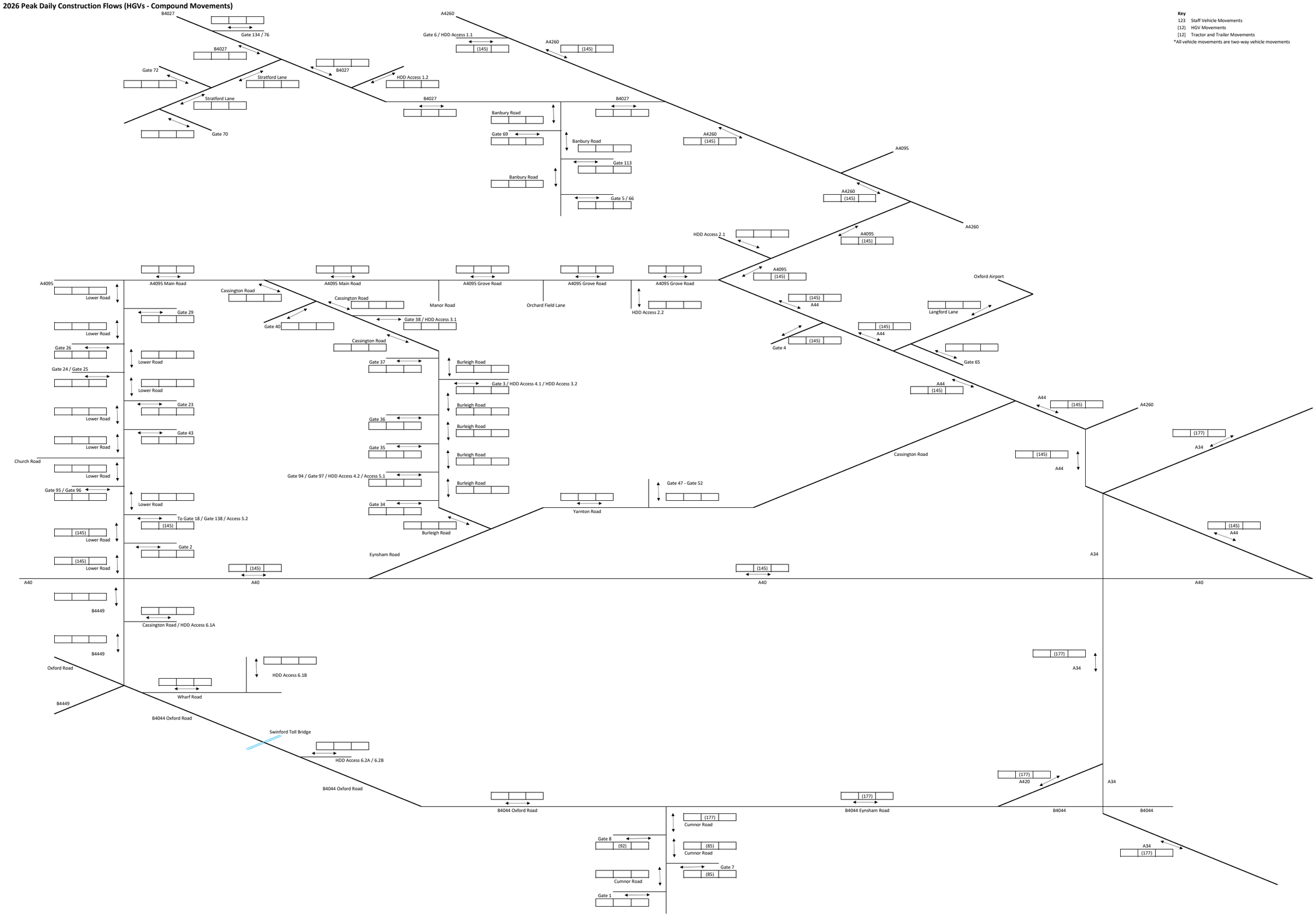
2026 Peak Daily Construction Flows (Staff - NGET Movements)

Key
123 Staff Vehicle Movements
(12) HGV Movements
[12] Tractor and Trailer Movements
*All vehicle movements are two-way vehicle movements



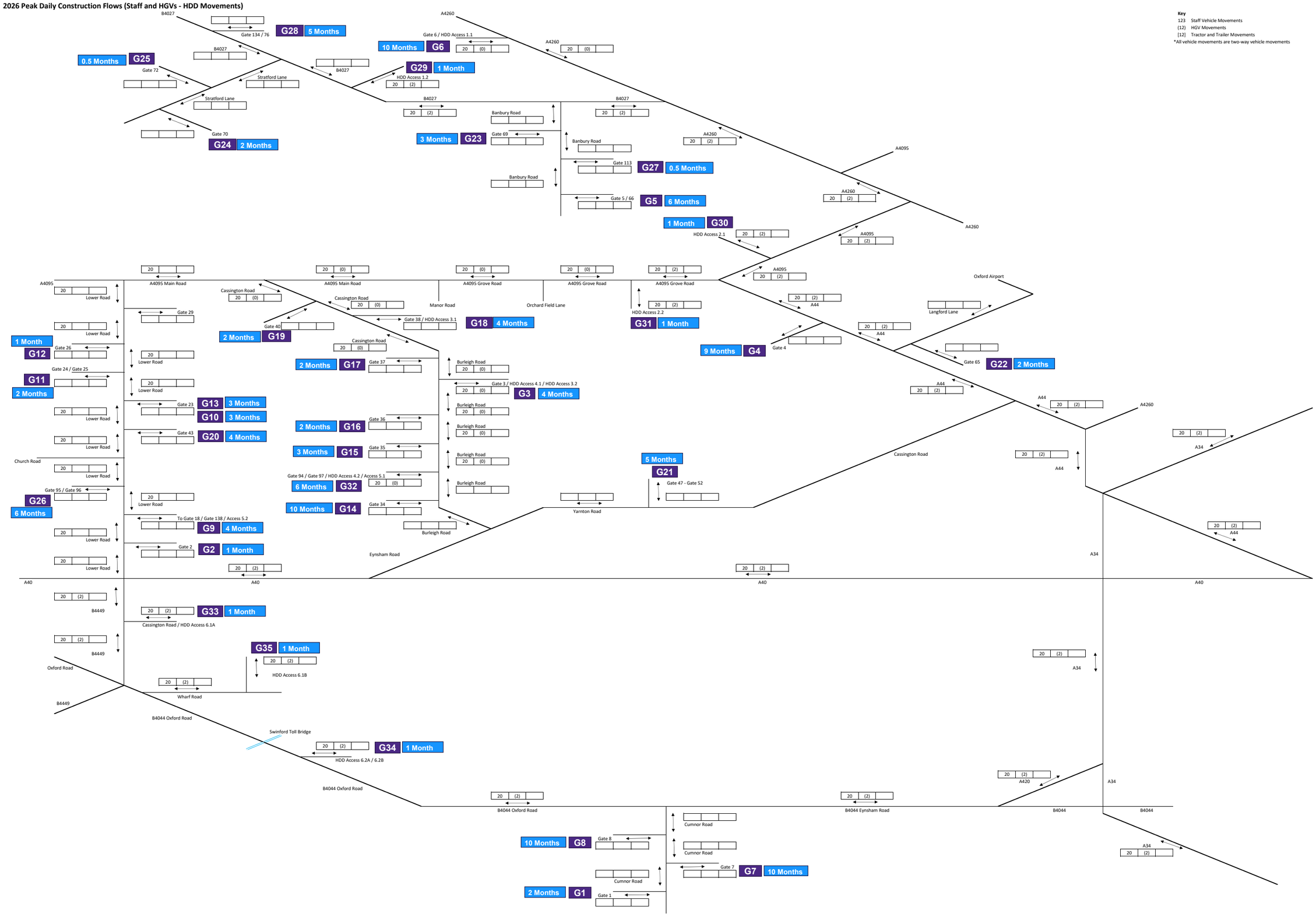
2026 Peak Daily Construction Flows (HGVs - Compound Movements)

Key
123 Staff Vehicle Movements
(12) HGV Movements
[12] Tractor and Trailer Movements
*All vehicle movements are two-way vehicle movements

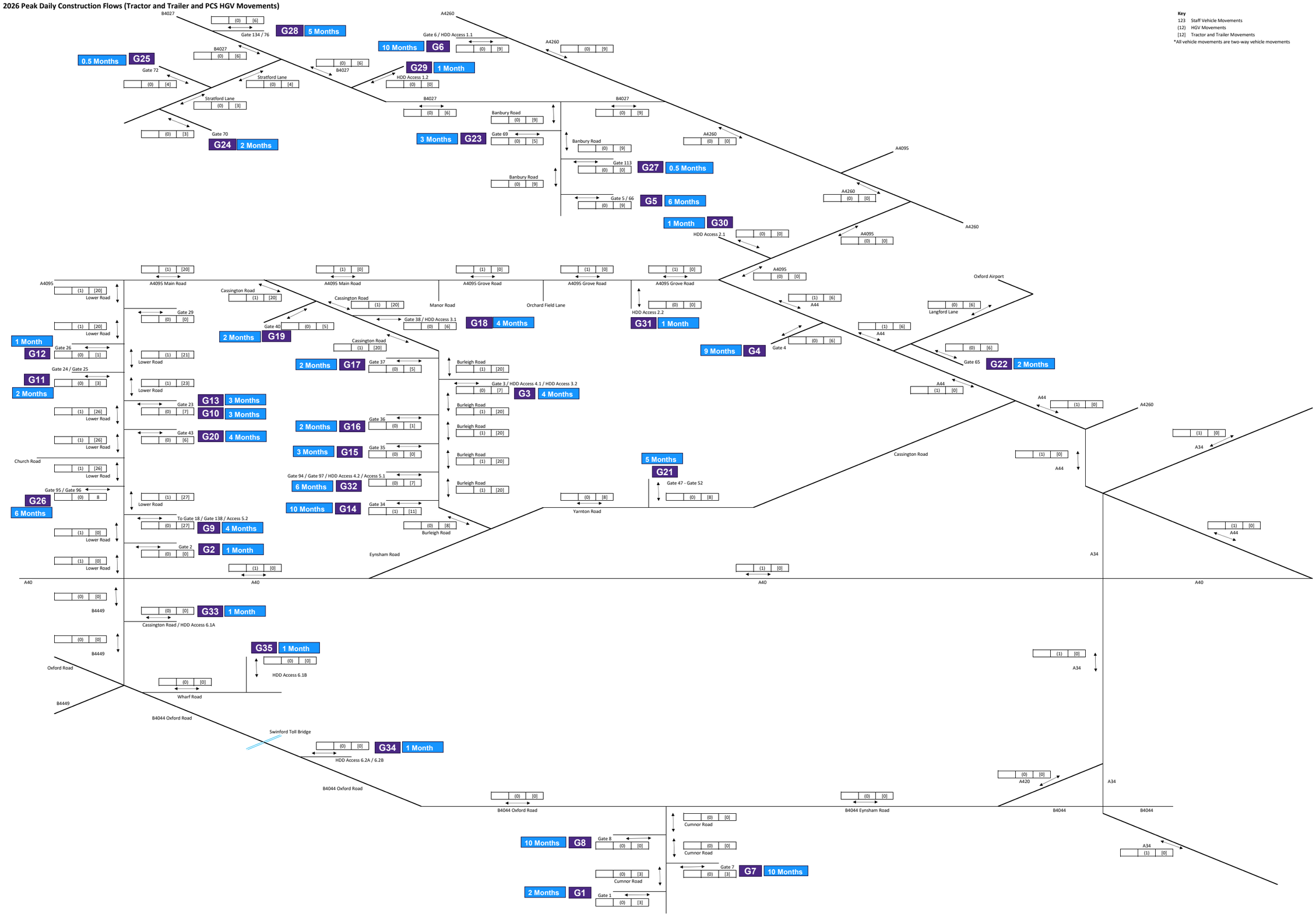


2026 Peak Daily Construction Flows (Staff and HGVs - HDD Movements)

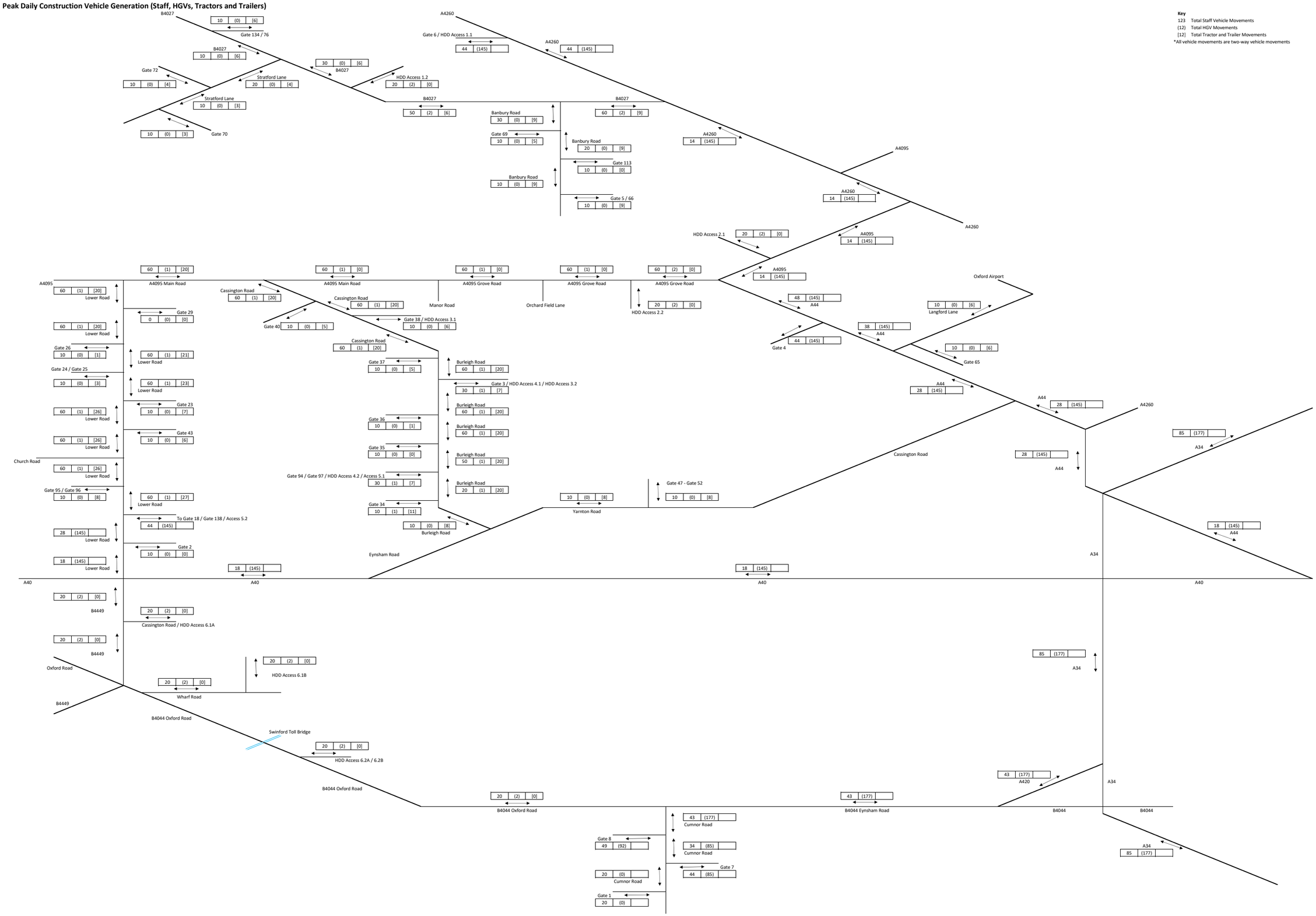
Key
123 Staff Vehicle Movements
(12) HGV Movements
[12] Tractor and Trailer Movements
*All vehicle movements are two-way vehicle movements



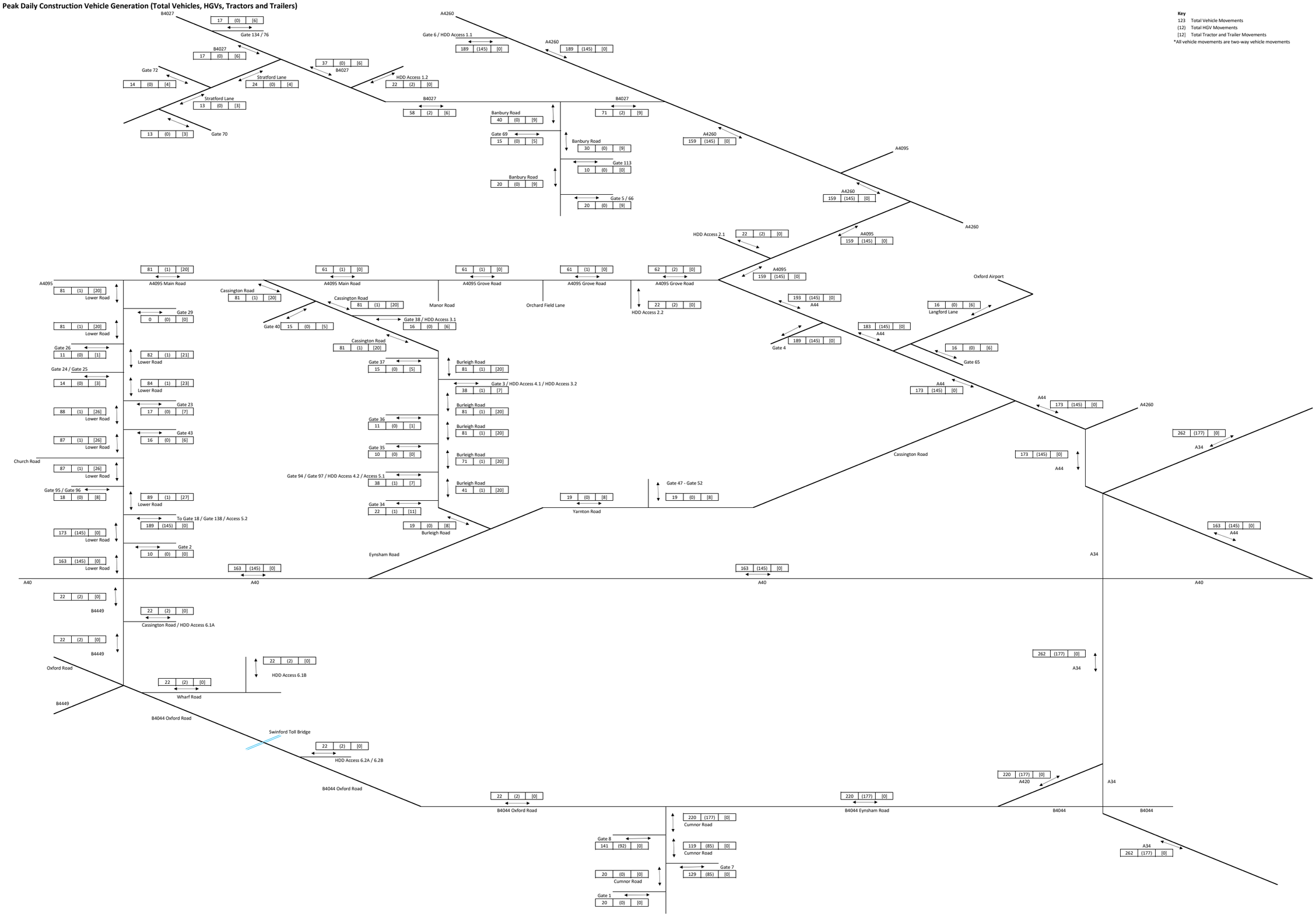
2026 Peak Daily Construction Flows (Tractor and Trailer and PCS HGV Movements)



Peak Daily Construction Vehicle Generation (Staff, HGVs, Tractors and Trailers)



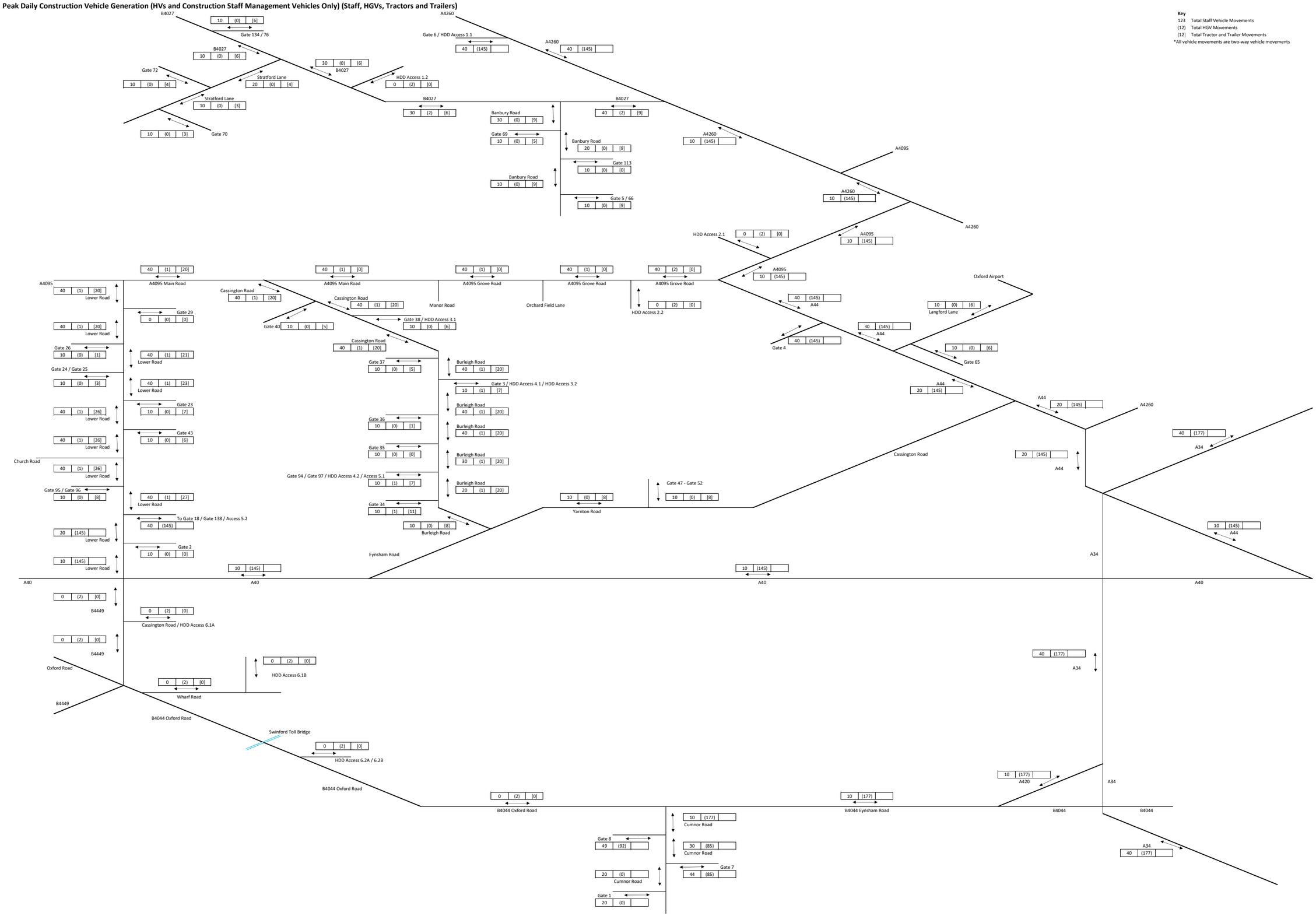
Peak Daily Construction Vehicle Generation (Total Vehicles, HGVs, Tractors and Trailers)



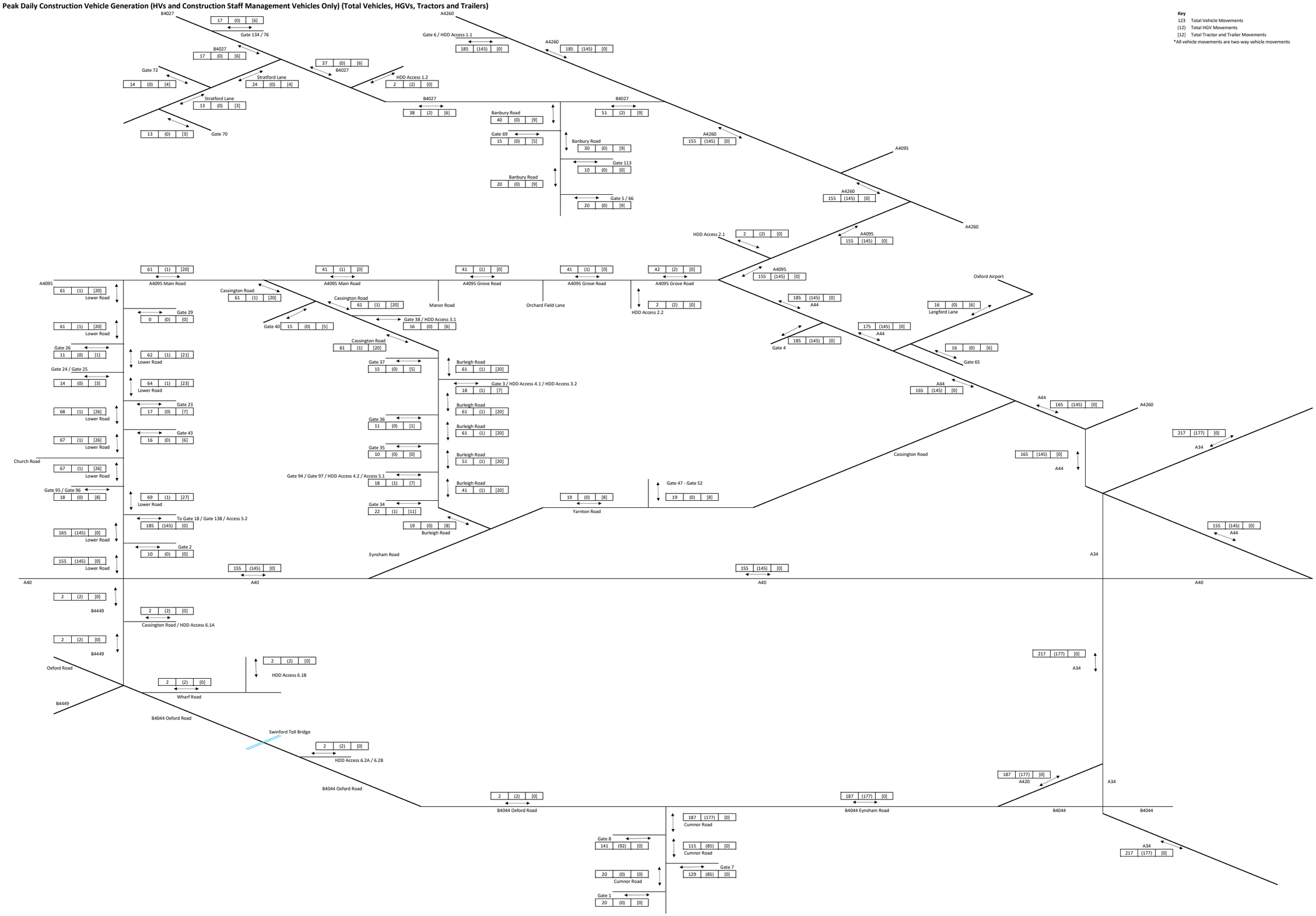
Peak Daily Construction Traffic Flows and Duration

Link Reference	Description	Peak Daily Construction Traffic Flows				
		Total Vehicles	Staff	HGVs	TTs	Duration of Peak HGV Movements
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	189	44	145	0	4 months
L2a	B4027 between A4260 Banbury Road and Banbury Road	71	60	2	9	Approx. 6 months
L2b	B4027 between Banbury Road and Gate 134 / 76	58	50	2	6	Approx. 5 months
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	159	14	145	0	4 months
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	159	14	145	0	4 months
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	159	14	145	0	4 months
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	62	60	2	0	Approx. 1 month
L6b	A4095 between Orchard Field Lane and Manor Road	61	60	1	0	Approx. 4 months
L6c	A4095 Main Road between Manor Road and Cassington Road	61	60	1	0	Approx. 4 months
L6d	A4095 Main Road between Cassington Road and Lower Road	81	60	1	20	Approx. 4 months
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	81	60	1	20	Approx. 5 months
L8	A44 Woodstock Road between A4095 and Langford Lane	193	48	145	0	4 months
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	173	28	145	0	4 months
L11	A44 between A4260 Frieze Way and A34	173	28	145	0	4 months
L12	A34 Northeast of A44 Woodstock Road	262	85	177	0	4 months
L13	A44 Woodstock Road between A34 and A40 Northern By Pass Road	163	18	145	0	4 months
L14	A40 between A44 Woodstock Road and Eynsham Road	163	18	145	0	4 months
L15	A40 to the West of Eynsham Road	163	18	145	0	4 months
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	173	28	145	0	4 months
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	89	60	1	27	Approx. 5 months
L16c	Lower Road between Church Road and A4095 Main Road	88	60	1	26	Approx. 5 months
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	22	20	2	0	Approx 2. months
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	22	20	2	0	Approx 1. month
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	22	20	2	0	Approx 1. month
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	22	20	2	0	Approx. 1 month
L21	B4017 Cumnor Road between B4044 and Gate 1	220	43	177	0	4 months
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	220	43	177	0	4 months
L23	A420 between B4044 Eynsham Road and A34	220	43	177	0	4 months
L24	A34 Southeast of A420	262	85	177	0	4 months
L25	A34 between A420 and A44 Woodstock Road	262	85	177	0	4 months
L27	Langford Lane between A44 Woodstock Road and The Boulevard	16	10	0	6	Approx. 2 months
L28	Banbury Road between the B4027 and Gate 5 / 66	40	30	0	9	Approx. 6 months
L29	Stratford Lane between the B4027 and Gate 70	24	20	0	4	Approx. 2 months
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	19	10	0	8	Approx. 5 months

Peak Daily Construction Vehicle Generation (HVs and Construction Staff Management Vehicles Only) (Staff, HGVs, Tractors and Trailers)



Peak Daily Construction Vehicle Generation (HVs and Construction Staff Management Vehicles Only) (Total Vehicles, HGVs, Tractors and Trailers)



Peak Daily Construction Traffic Flows (HVs and Construction Staff Management Vehicles Only) and Duration

Link Reference	Description	Peak Daily Construction Traffic Flows (HVs and Construction Staff Management Vehicles Only)				
		Total Vehicles	Staff	HGVs	TTs	Duration
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	185	40	145	0	4 months
L2a	B4027 between A4260 Banbury Road and Banbury Road	51	40	2	9	Approx. 6 months
L2b	B4027 between Banbury Road and Gate 134 / 76	38	30	2	6	Approx. 5 months
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	155	10	145	0	4 months
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	155	10	145	0	4 months
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	155	10	145	0	4 months
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	42	40	2	0	Approx. 1 month
L6b	A4095 between Orchard Field Lane and Manor Road	41	40	1	0	Approx. 4 months
L6c	A4095 Main Road between Manor Road and Cassington Road	41	40	1	0	Approx. 4 months
L6d	A4095 Main Road between Cassington Road and Lower Road	61	40	1	20	Approx. 4 months
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	61	40	1	20	Approx. 5 months
L8	A44 Woodstock Road between A4095 and Langford Lane	185	40	145	0	4 months
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	165	20	145	0	4 months
L11	A44 between A4260 Frieze Way and A34	165	20	145	0	4 months
L12	A34 Northeast of A44 Woodstock Road	217	40	177	0	4 months
L13	A44 Woodstock Road between A34 and A40 Northern By Pass Road	155	10	145	0	4 months
L14	A40 between A44 Woodstock Road and Eynsham Road	155	10	145	0	4 months
L15	A40 to the West of Eynsham Road	155	10	145	0	4 months
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	165	20	145	0	4 months
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	69	40	1	27	Approx. 5 months
L16c	Lower Road between Church Road and A4095 Main Road	68	40	1	26	Approx. 5 months
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	2	0	2	0	Approx 2. months
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	2	0	2	0	Approx 1. month
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	2	0	2	0	Approx 1. month
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	2	0	2	0	Approx. 1 month
L21	B4017 Cumnor Road between B4044 and Gate 1	187	10	177	0	4 months
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	187	10	177	0	4 months
L23	A420 between B4044 Eynsham Road and A34	187	10	177	0	4 months
L24	A34 Southeast of A420	217	40	177	0	4 months
L25	A34 between A420 and A44 Woodstock Road	217	40	177	0	4 months
L27	Langford Lane between A44 Woodstock Road and The Boulevard	16	10	0	6	Approx. 2 months
L28	Banbury Road between the B4027 and Gate 5 / 66	40	30	0	9	Approx. 6 months
L29	Stratford Lane between the B4027 and Gate 70	24	20	0	4	Approx. 2 months
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	19	10	0	8	Approx. 5 months

A4: Peak hourly construction traffic flows

Link Reference	Daily Construction Traffic Flows (Excluding Staff)*	Peak Hour Construction Traffic Flows	>30?
	Total Vehicles	Total Vehicles	
L1	185	19	No
L2a	51	5	No
L2b	38	4	No
L3	155	16	No
L4	155	16	No
L5	155	16	No
L6a	42	4	No
L6b	41	4	No
L6c	41	4	No
L6d	61	6	No
L7	61	6	No
L8	185	19	No
L10	165	17	No
L11	165	17	No
L12	217	22	No
L13	155	16	No
L14	155	16	No
L15	155	16	No
L16a	165	17	No
L16b	69	7	No
L16c	68	7	No
L17	2	0	No
L18	2	0	No
L19	2	0	No
L20	2	0	No
L21	187	19	No
L22	187	19	No
L23	187	19	No
L24	217	22	No
L25	217	22	No
L27	16	2	No
L28	40	4	No
L29	24	2	No
L30	19	2	No

*Excludes minibus movements and staff movements associated with the HDD Compounds