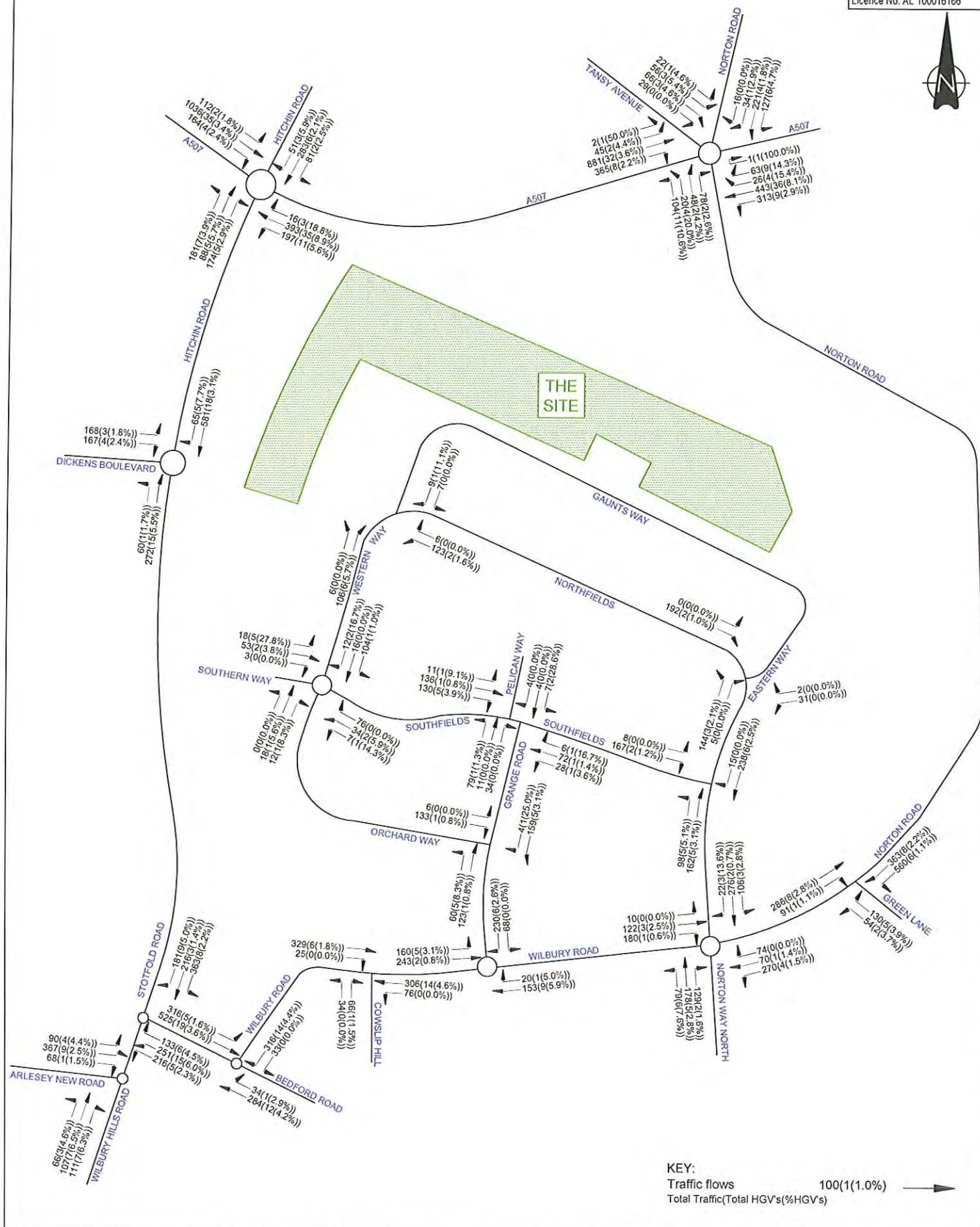


## **APPENDIX L**

### **TRAFFIC FLOW DIAGRAMS**



**KEY:**  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic(Total HGV's(%HGV's))

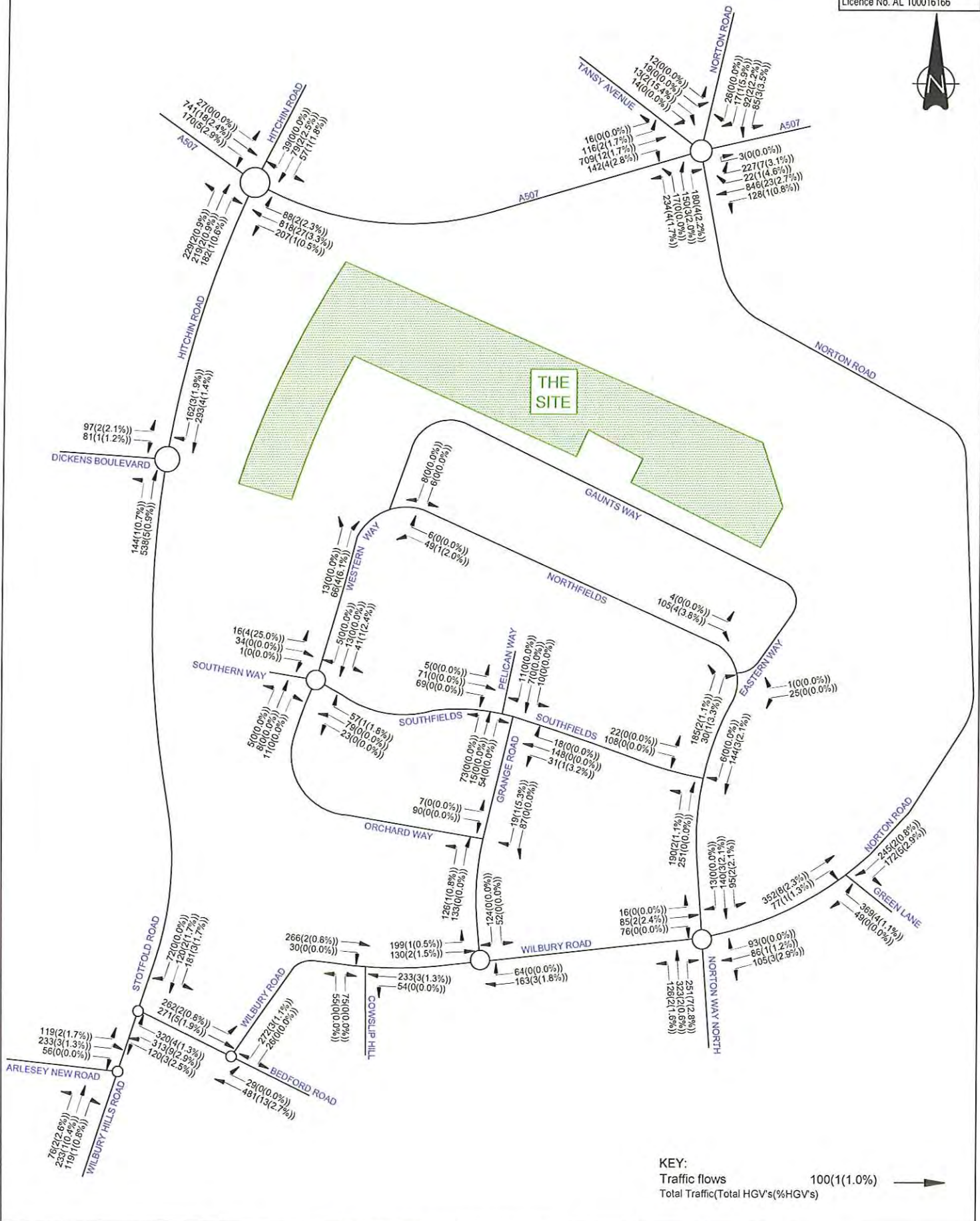
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Scale	NTS		Date	OCT 2013	
Drawing No.	1284/A				
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**Project**  
 LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 2013 BASE TRAFFIC FLOWS  
 TUESDAY AM PEAK HOUR  
 0800 - 0900

**COTTEE** Transport Planning

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 Feering  
 Essex  
 CO5 9SE

Tel : 01376 573400  
 Fax : 01376 573480  
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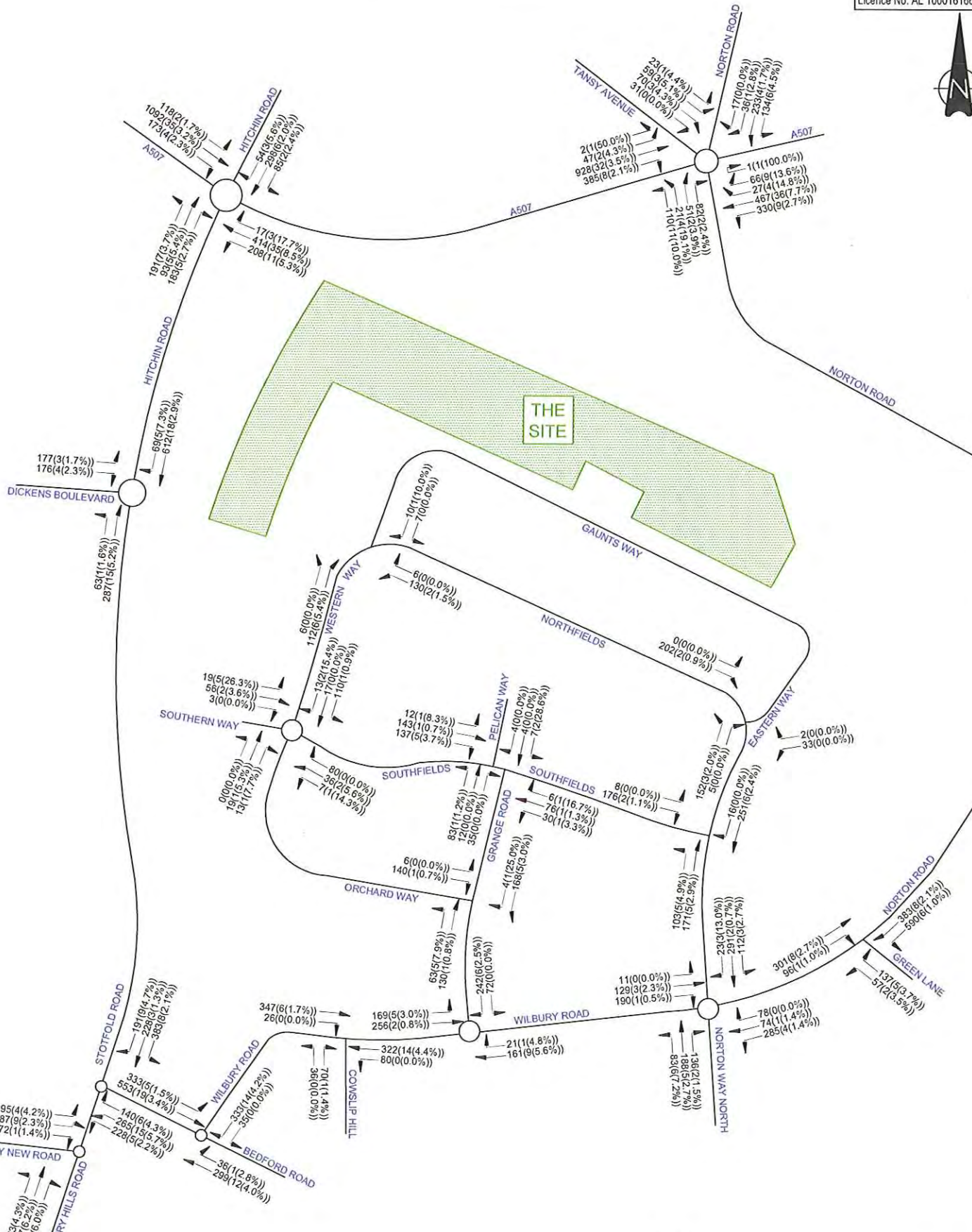
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Scale	NTS		Date	OCT 2013	
Drawing No.	1284/B				
Cottee Highway & Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to					

Project  
**LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCHWORTH  
2013 BASE TRAFFIC FLOWS  
TUESDAY PM PEAK HOUR  
1700 - 1800**

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**KEY:**  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic(Total HGV's(%HGV's))  
 NTM Growth Factor Applied = 1.0536

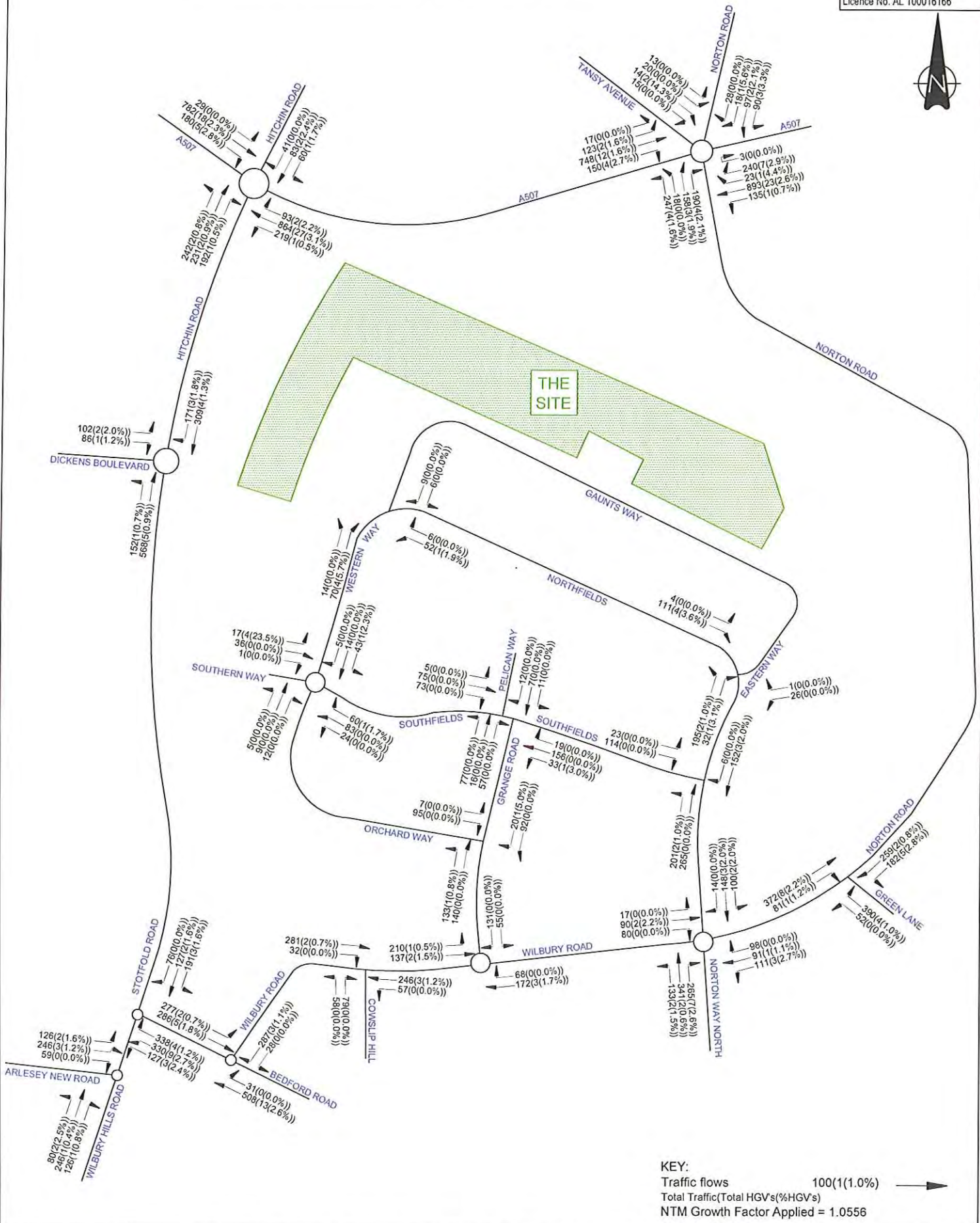
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Drawing No. <b>1284/C</b>	
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to</small>	

**Project**  
**LETCWORTH GARDEN CITY**  
**HERITAGE FOUNDATION**  
**LAND NORTH OF THE GRANGE,**  
**LETCWORTH**  
**2018 BASE TRAFFIC FLOWS**  
**TUESDAY AM PEAK HOUR**  
**0800 - 0900**

**COTTEE** Transport Planning

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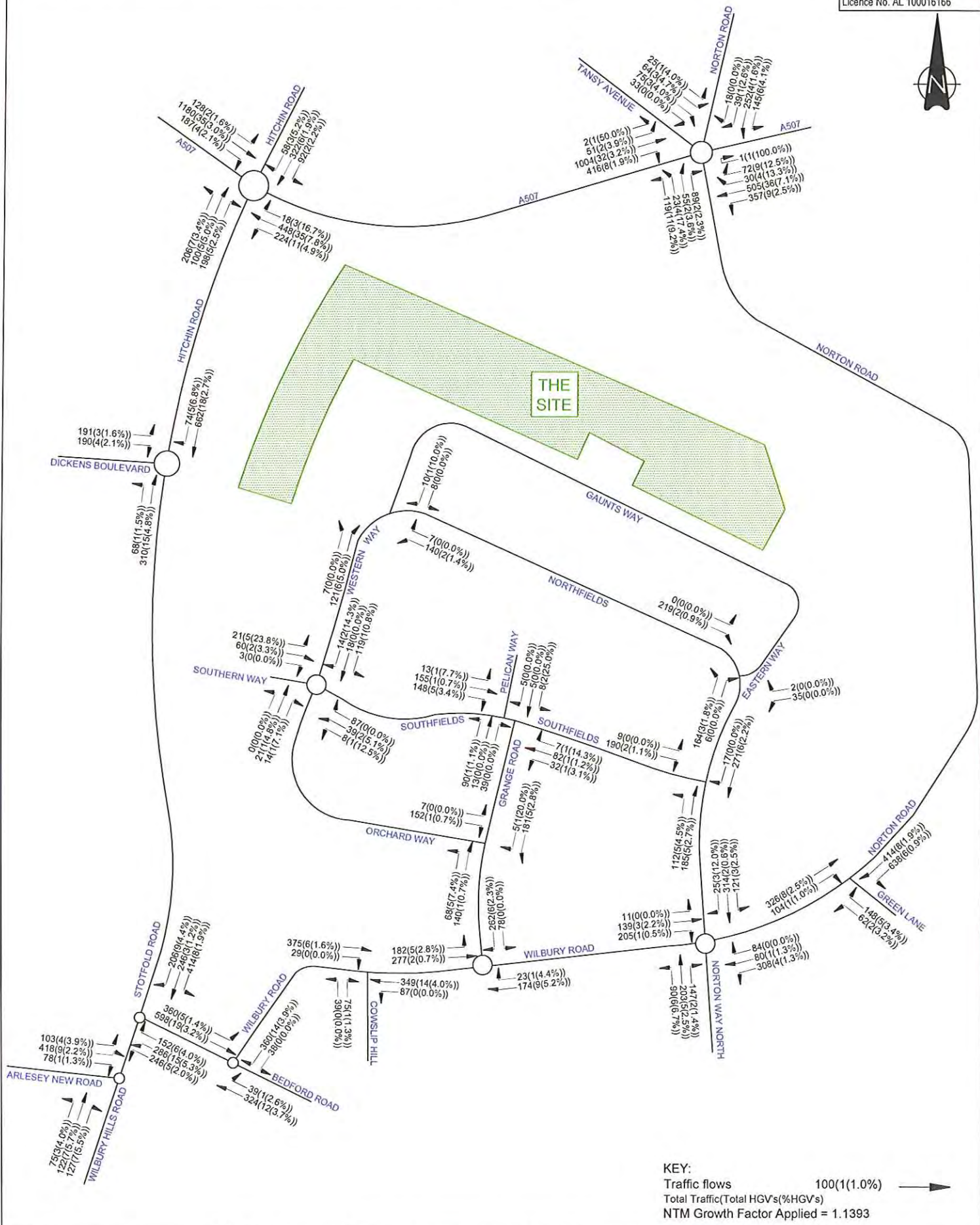
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/D		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

Project  
**LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH**  
 2018 BASE TRAFFIC FLOWS  
 TUESDAY PM PEAK HOUR  
 1700 - 1800

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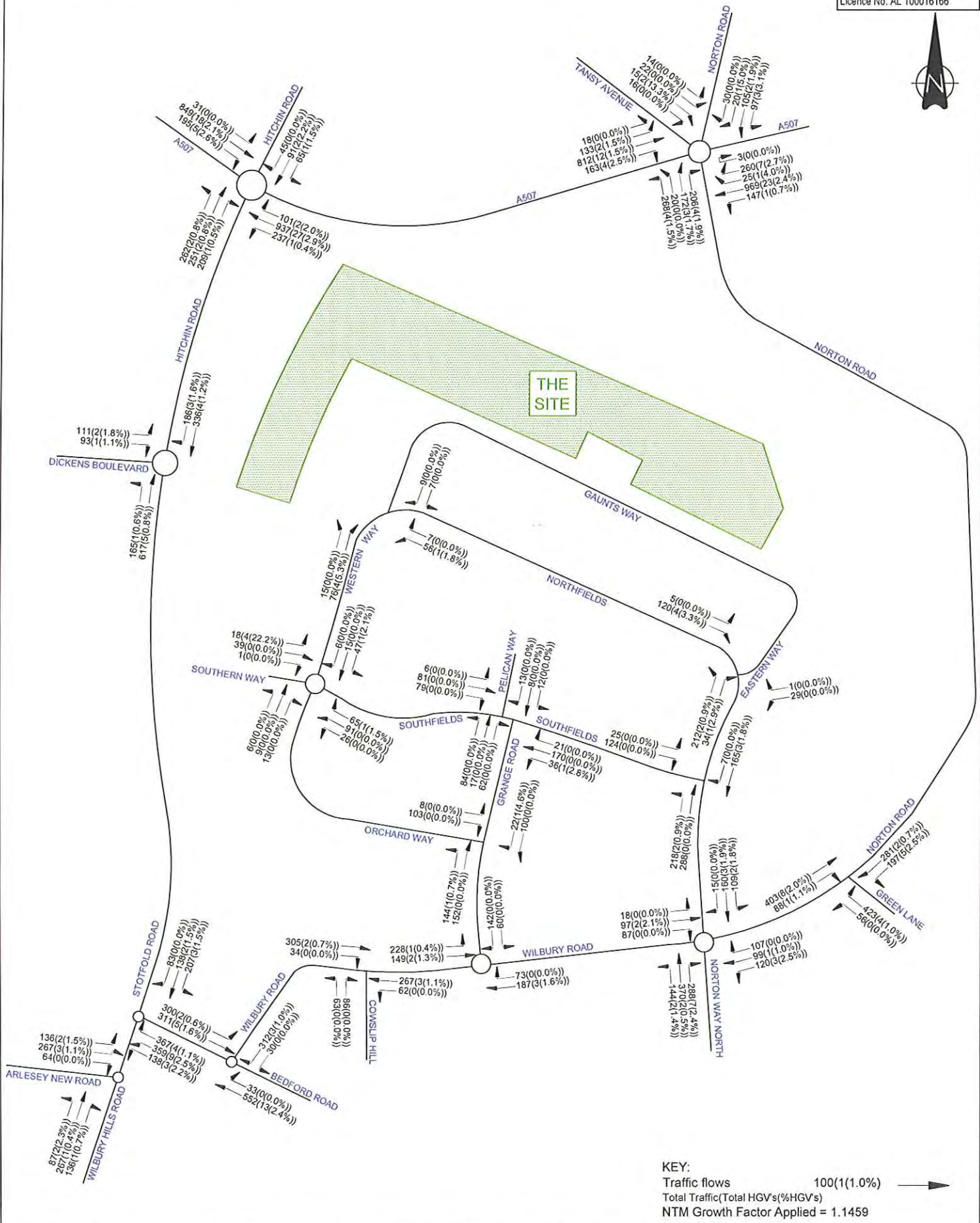
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/E		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

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**2023 BASE TRAFFIC FLOWS TUESDAY AM PEAK HOUR**  
 0800 - 0900

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KEY:  
 Traffic flows 100(1(1.0%) →  
 Total Traffic (Total HGVs/(%HGVs)) - - -  
 NTM Growth Factor Applied = 1.1459

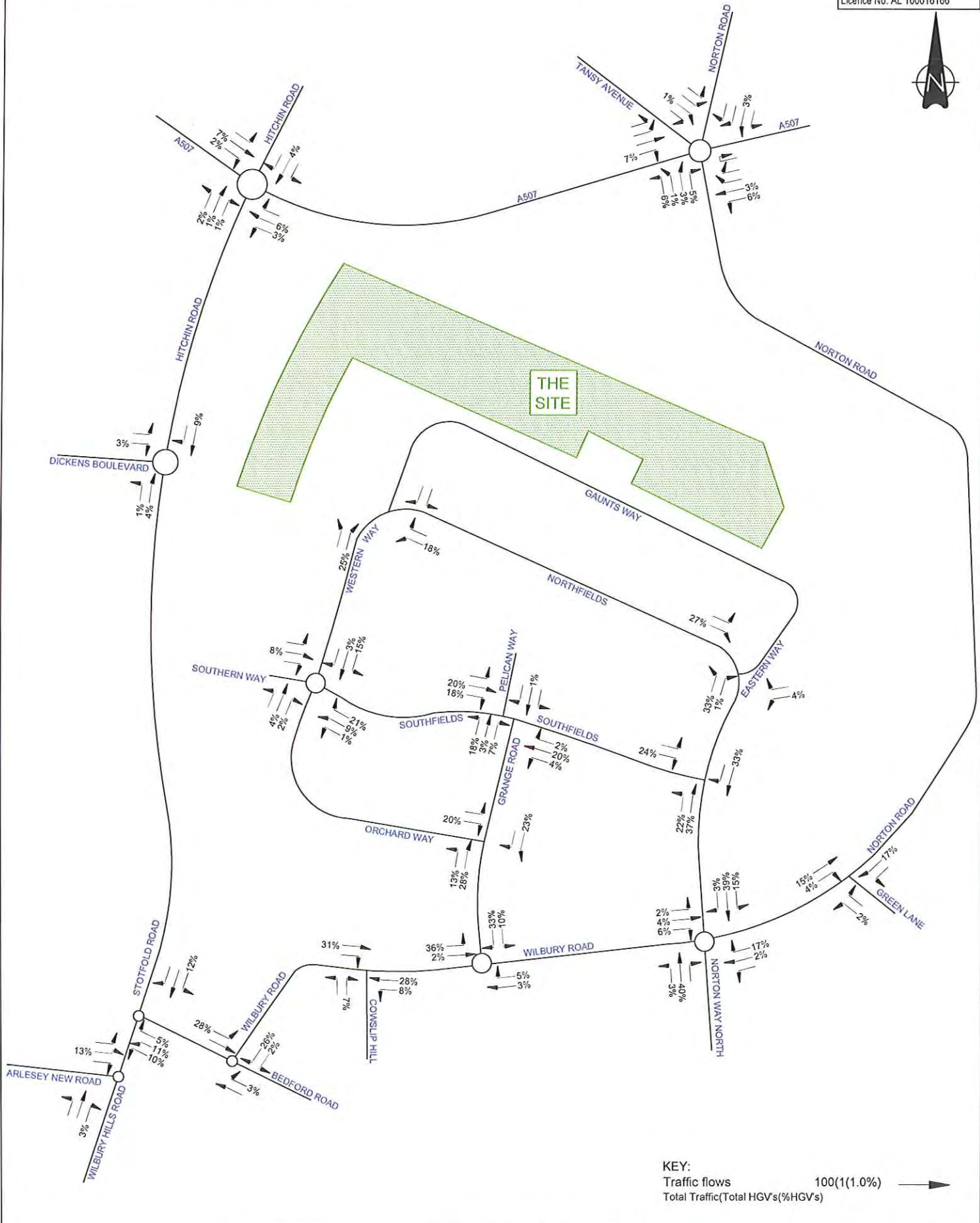
Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/F		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

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**LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH**  
 2023 BASE TRAFFIC FLOWS  
 TUESDAY PM PEAK HOUR  
 1700 - 1800

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Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/G		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

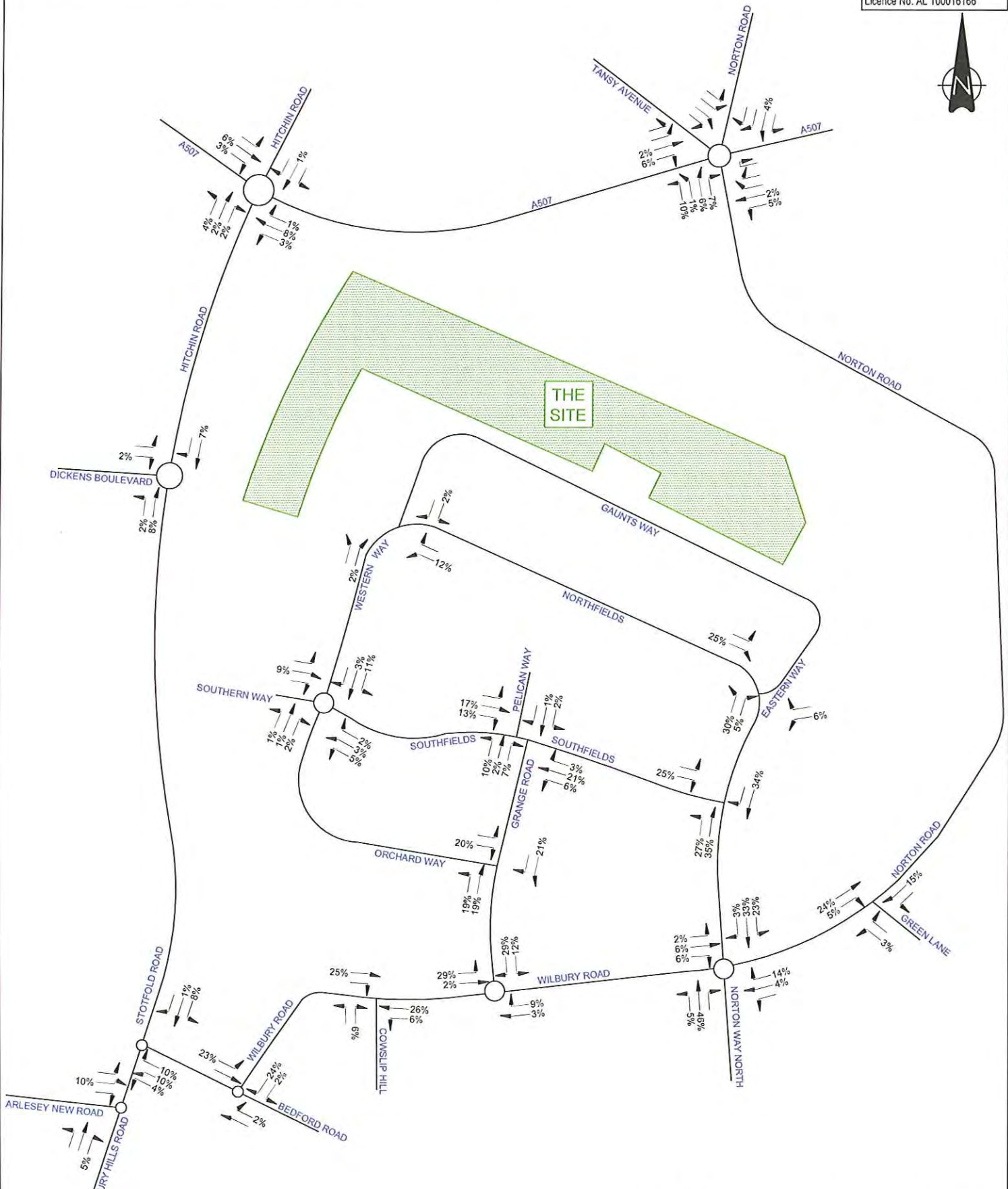
Project **LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH EXISTING GRANGE DEVELOPMENT DISTRIBUTION TRAFFIC TUESDAY AM PEAK HOUR 0800 - 0900**

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KEY:  
Traffic flows 100(1(1.0%) →  
Total Traffic(Total HGVs(%HGVs)

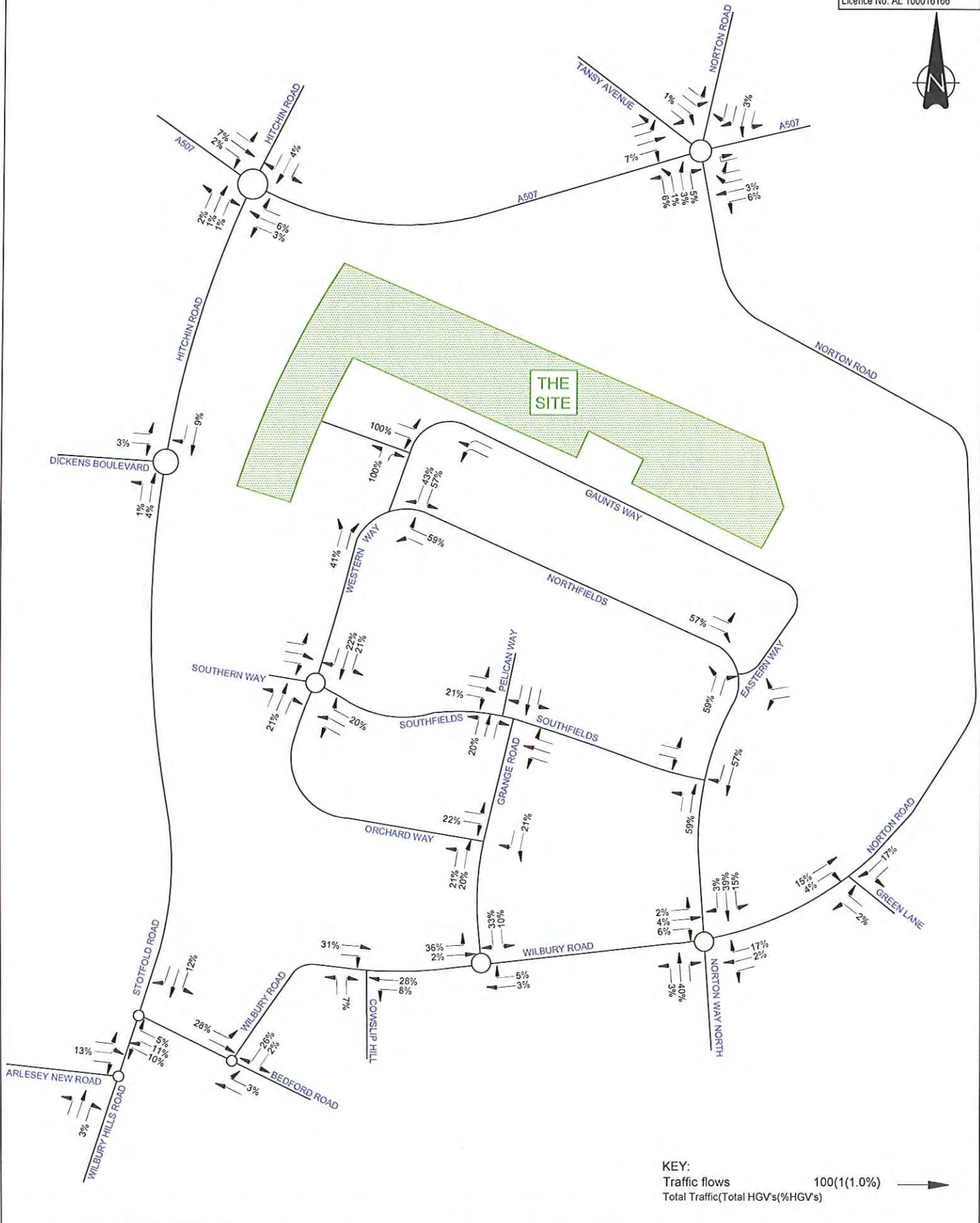
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/H		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

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HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCWORTH  
EXISTING GRANGE DEVELOPMENT  
DISTRIBUTION TRAFFIC  
TUESDAY PM PEAK HOUR  
1700 - 1800

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Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/I		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

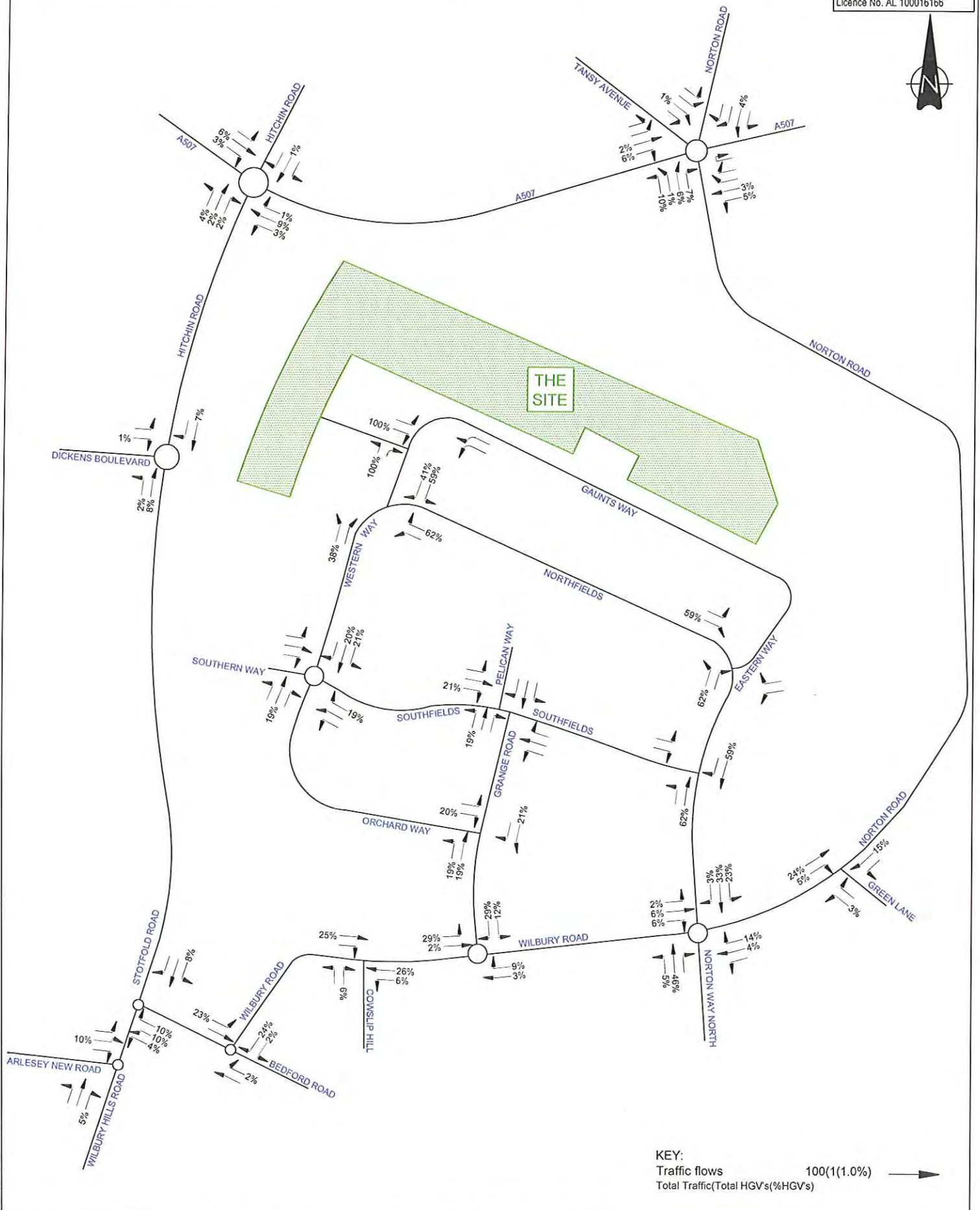
Project **LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH**  
**OPTION 1 PROPOSED DISTRIBUTION TUESDAY AM PEAK HOUR**  
 0800 - 0900

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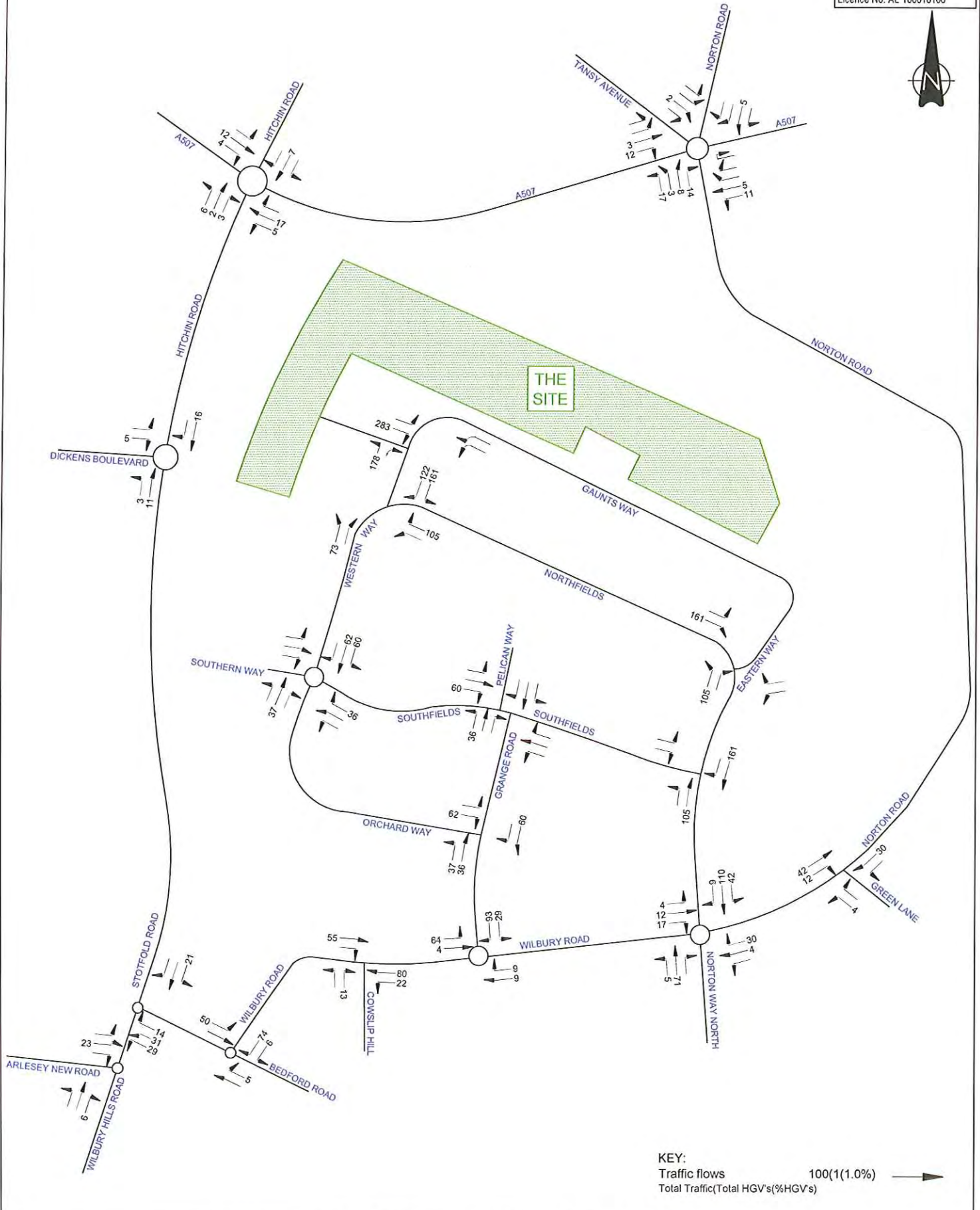
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/J		
<small>Cottee Highway &amp; Transportation Consultants Ltd accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

Project LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCWORTH  
OPTION 1 PROPOSED DISTRIBUTION  
TUESDAY PM PEAK HOUR  
1700 - 1800

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KEY:  
 Traffic flows 100(1(1.0%) →  
 Total Traffic(Total HGV's(%HGV's)

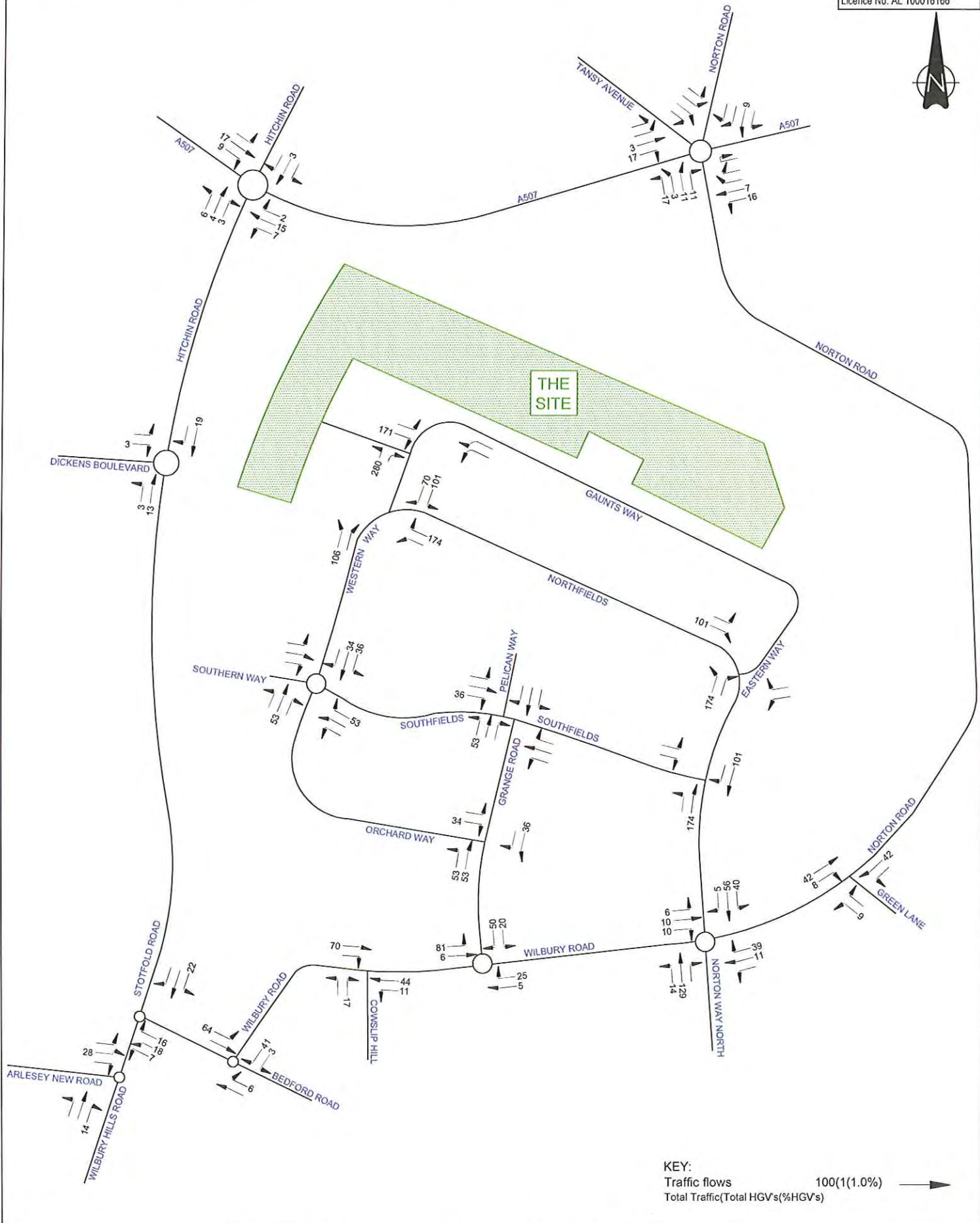
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Scale	NTS		Date	OCT 2013	
Drawing No.	1284/K				
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Project  
**LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 OPTION 1 PROPOSED TRAFFIC  
 GENERATION  
 TUESDAY AM PEAK HOUR  
 0800 - 0900**

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KEY:  
Traffic flows 100(1(1.0%) →  
Total Traffic(Total HGVs(%HGVs))

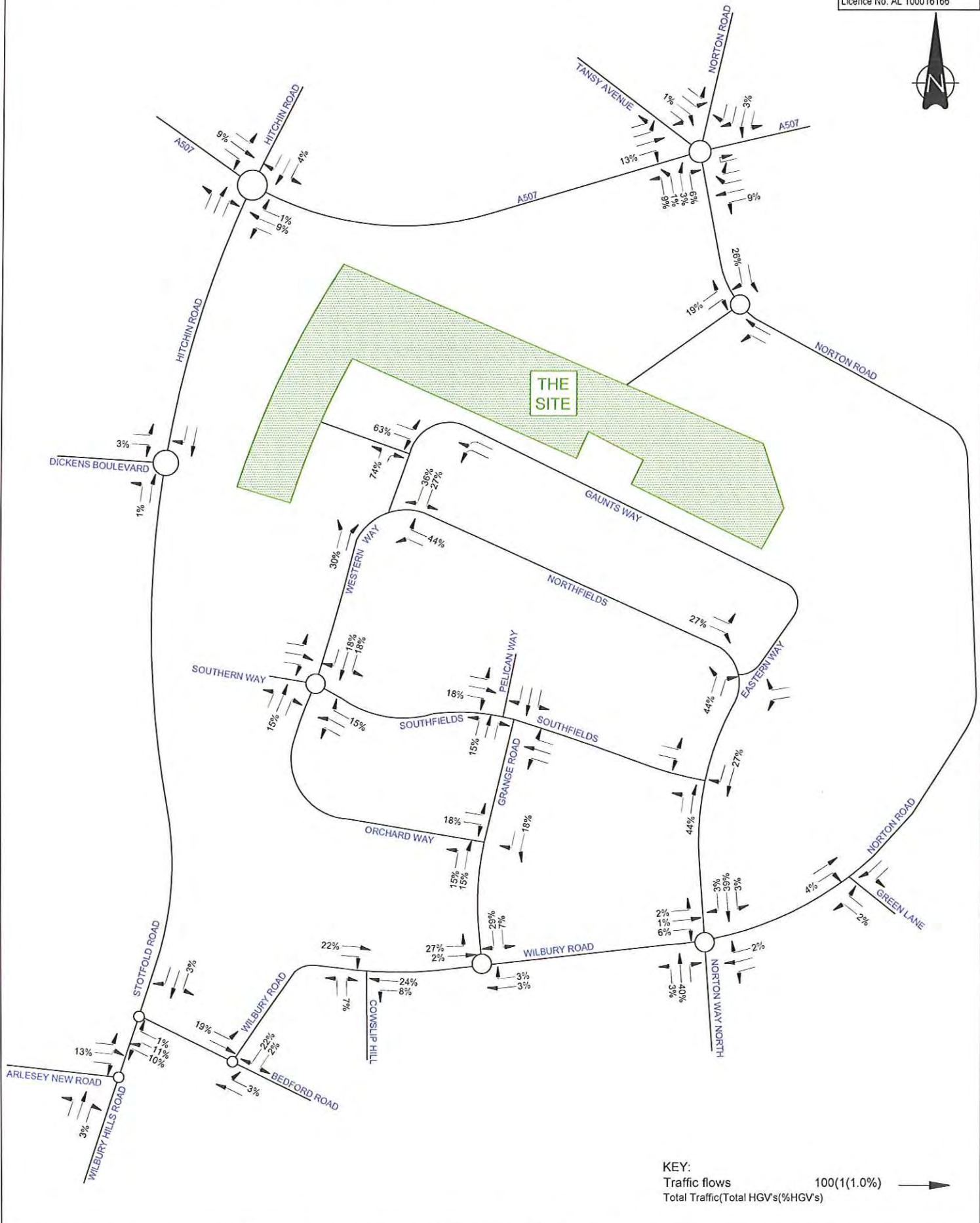
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/L		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

Project **LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH**  
**OPTION 1 PROPOSED TRAFFIC GENERATION**  
**TUESDAY PM PEAK HOUR**  
**1700 - 1800**

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KEY:  
Traffic flows 100(1(1.0%) →  
Total Traffic(Total HGVs(%HGVs)

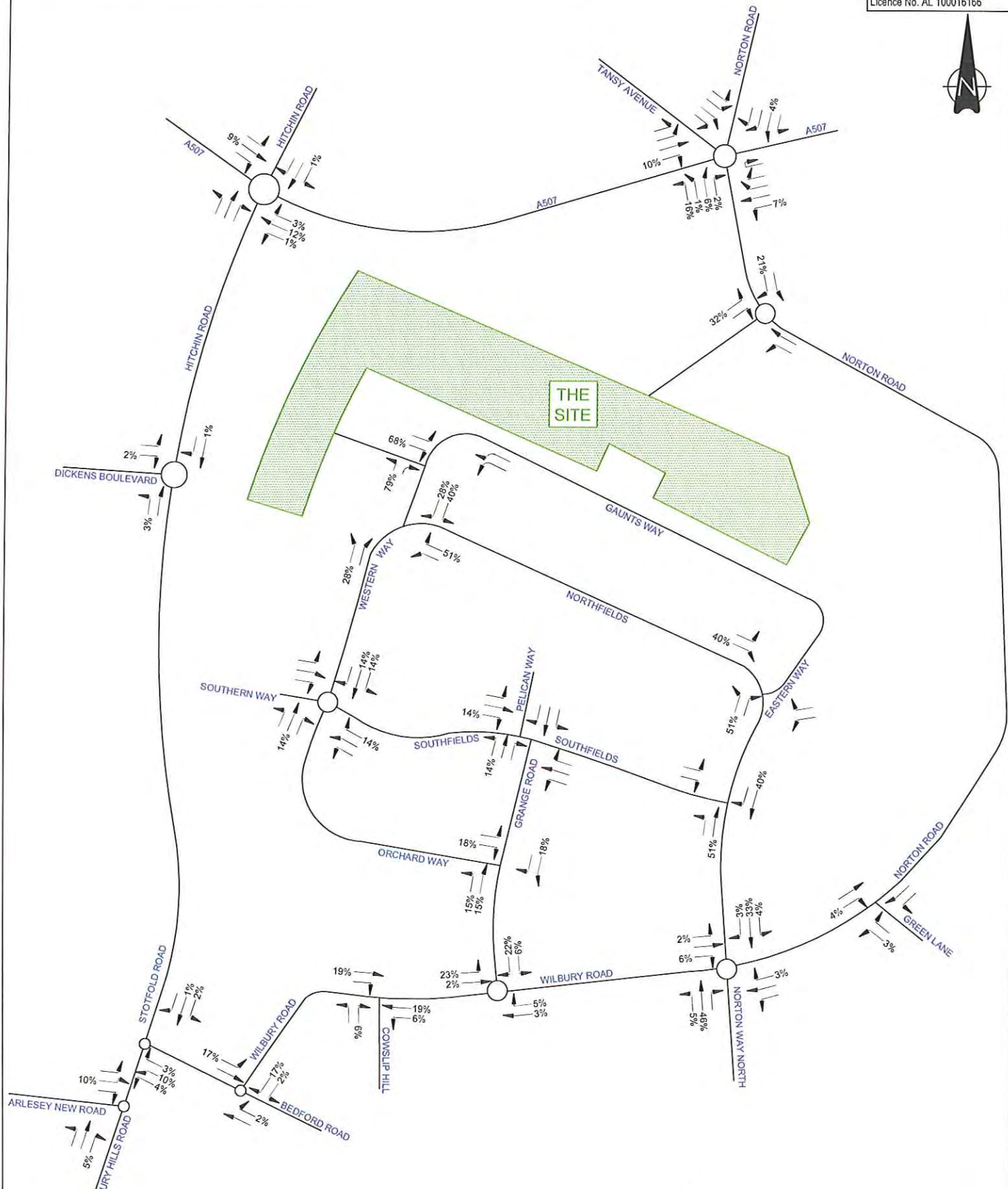
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Scale <b>NTS</b>	Date <b>OCT 2013</b>
Drawing No. <b>1284/M</b>	
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>	

Project **LETCWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCWORTH  
OPTION 2 PROPOSED DISTRIBUTION  
TUESDAY AM PEAK HOUR  
0800 - 0900**

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KEY:  
Traffic flows 100(1(1.0%)) →  
Total Traffic (Total HGV's (%HGV's)) - - - - -

Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/N		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

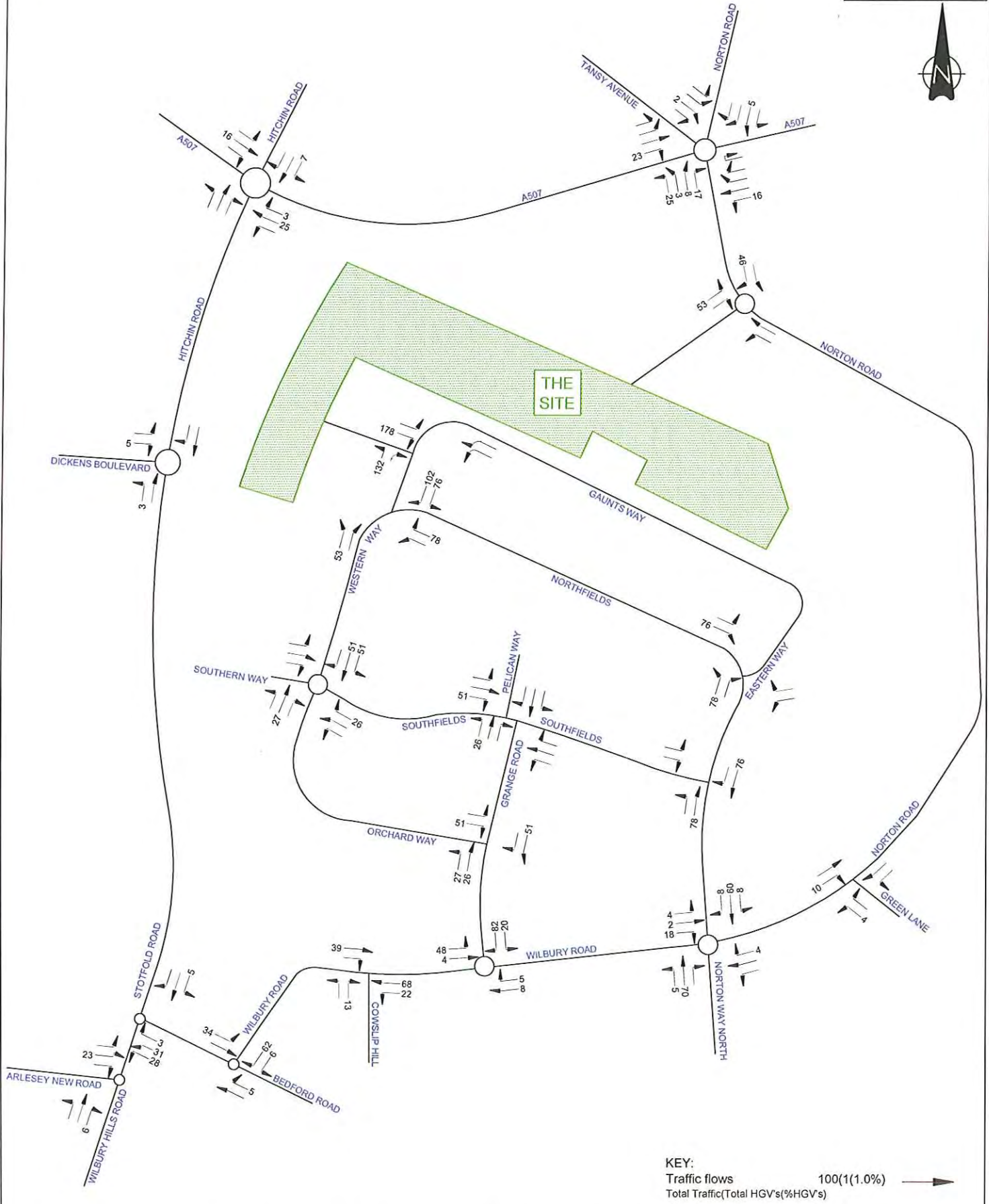
Project LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH  
 OPTION 2 PROPOSED DISTRIBUTION  
 TUESDAY PM PEAK HOUR  
 1700 - 1800

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KEY:  
Traffic flows 100(1(1.0%)) →  
Total Traffic (Total HGVs (%HGVs))

Drawn	DEH		Checked	MMT	
Scale	NTS		Date	OCT 2013	
Drawing No.	1284/O				
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>					

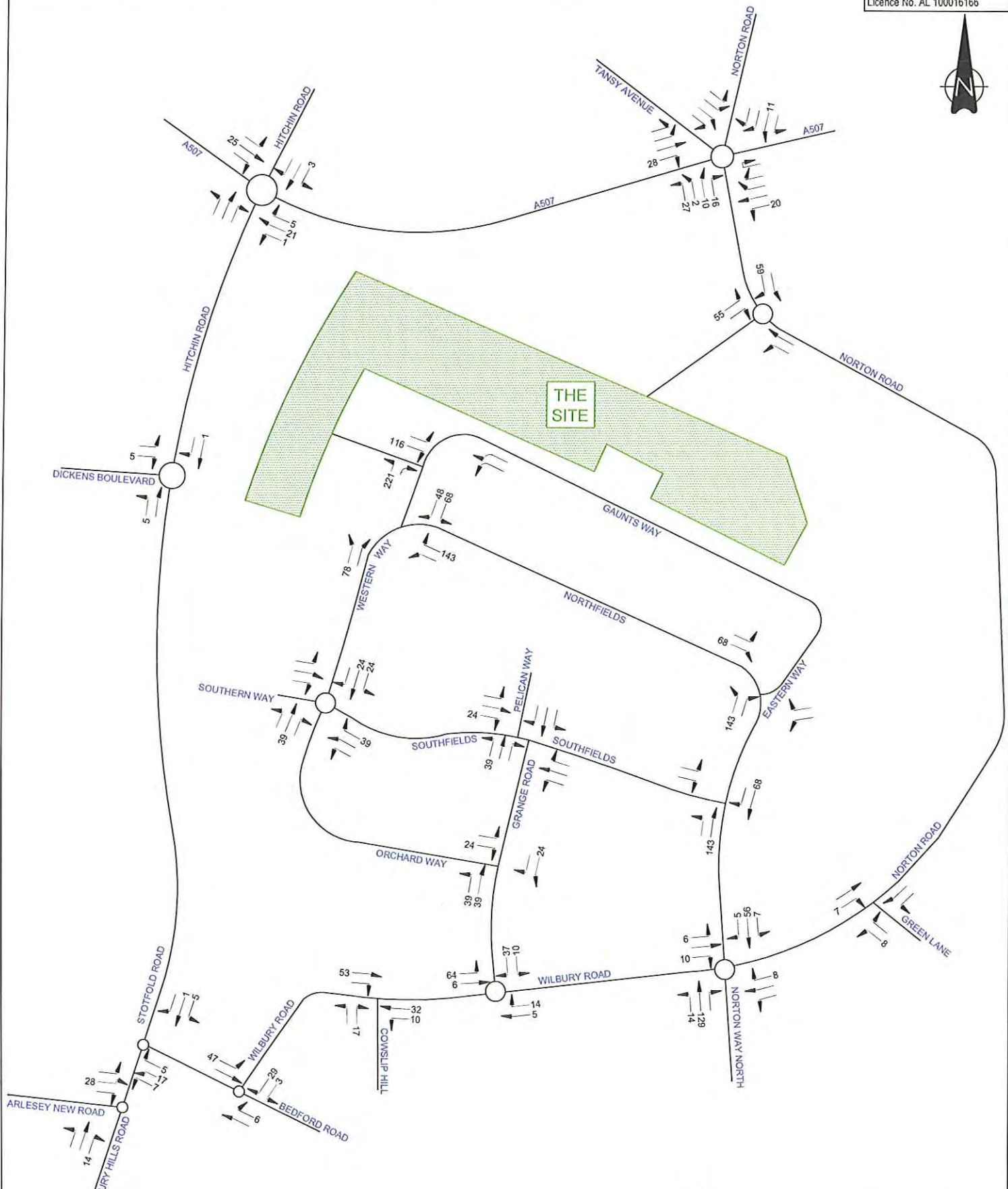
Project **LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH OPTION 2 PROPOSED TRAFFIC GENERATION TUESDAY AM PEAK HOUR 0800 - 0900**

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KEY:  
Traffic flows 100(1(1.0%)) →  
Total Traffic(Total HGV's(%HGV's))

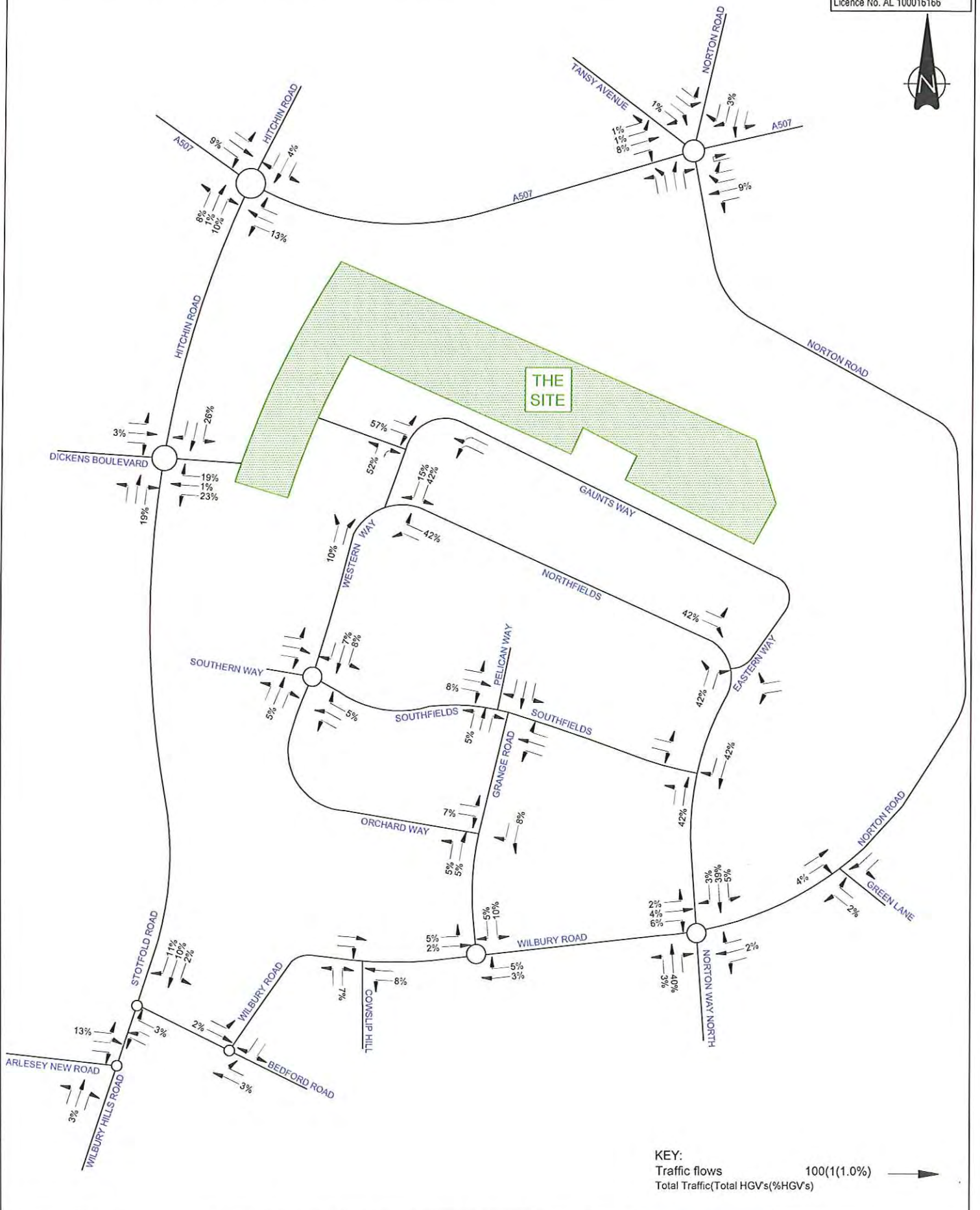
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/P		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

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HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCWORTH  
OPTION 2 PROPOSED TRAFFIC  
GENERATION  
TUESDAY PM PEAK HOUR  
1700 - 1800

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KEY:  
 Traffic flows 100(1(1.0%) →  
 Total Traffic(Total HGVs(%HGVs)

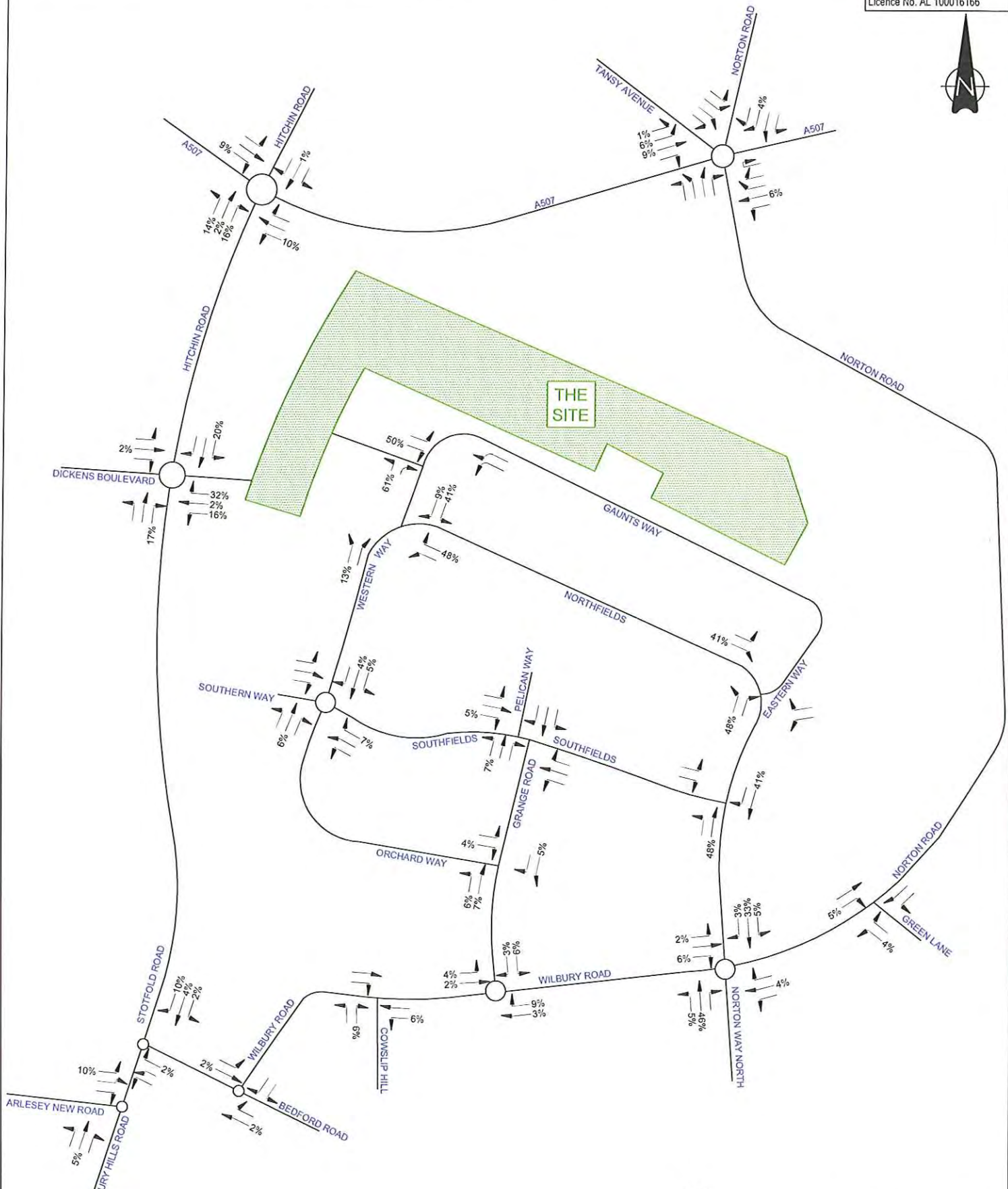
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/Q		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

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 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
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 OPTION 3 PROPOSED DISTRIBUTION  
 TUESDAY AM PEAK HOUR  
 0800 - 0900

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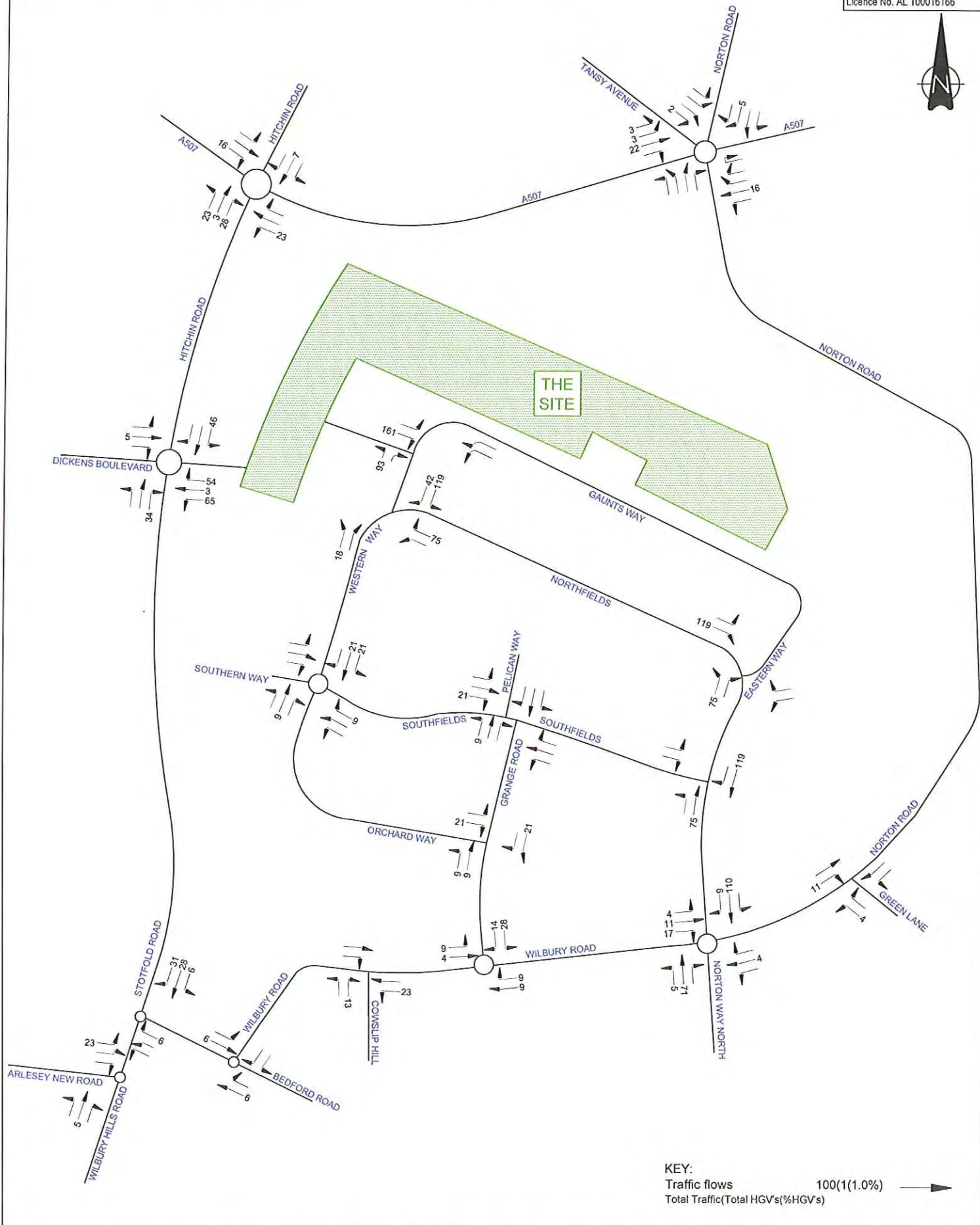
KEY:  
Traffic flows 100(1(1.0%)) →  
Total Traffic(Total HGVs(%HGVs))

Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/R		

Project LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCWORTH  
OPTION 3 PROPOSED DISTRIBUTION  
TUESDAY PM PEAK HOUR  
1700 - 1800

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KEY:  
Traffic flows 100(1(1.0%) →  
Total Traffic(Total HGV's(%HGV's)

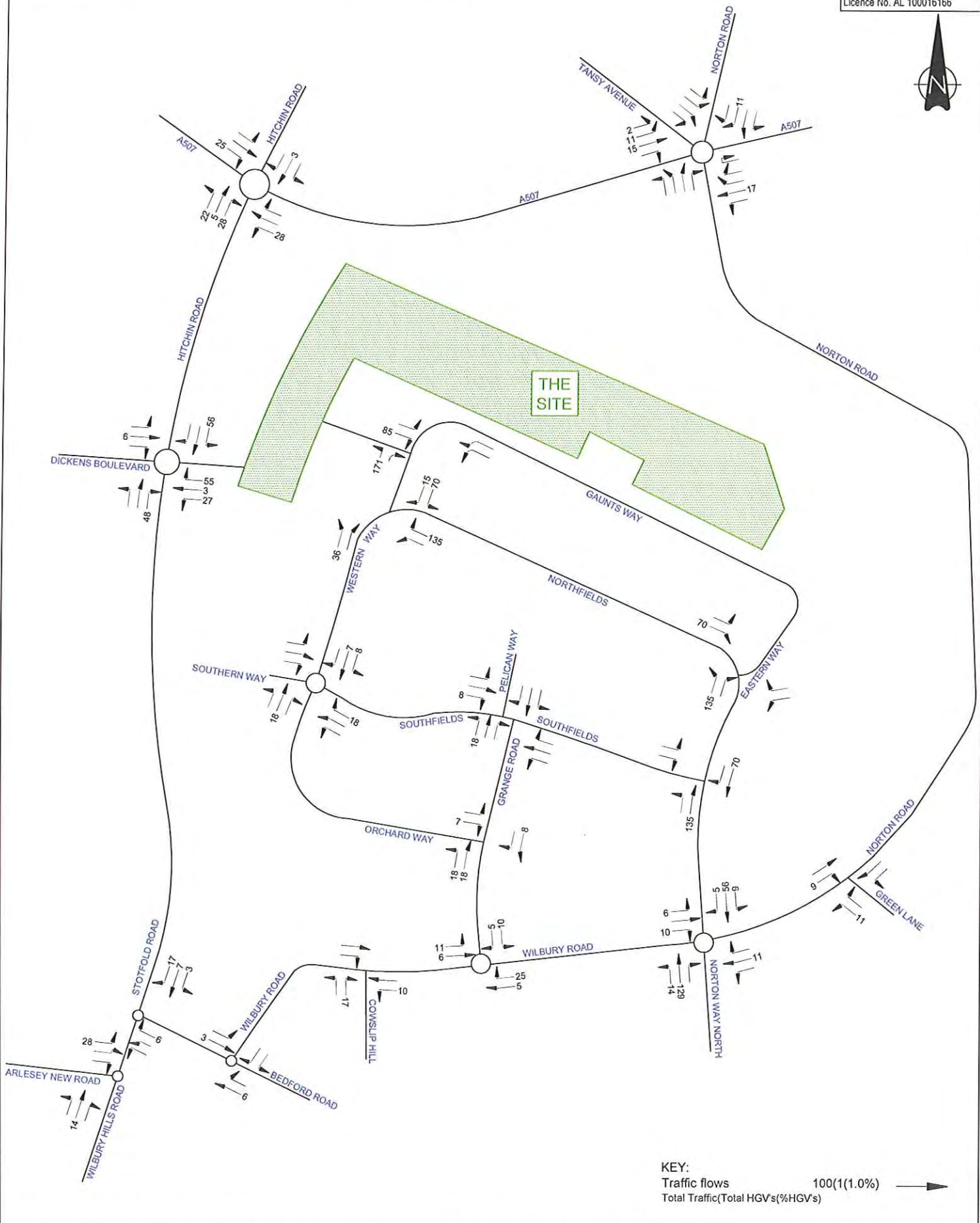
Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/S		
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Project  
**LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 OPTION 3 PROPOSED TRAFFIC  
 GENERATION  
 TUESDAY AM PEAK HOUR  
 0800 - 0900**

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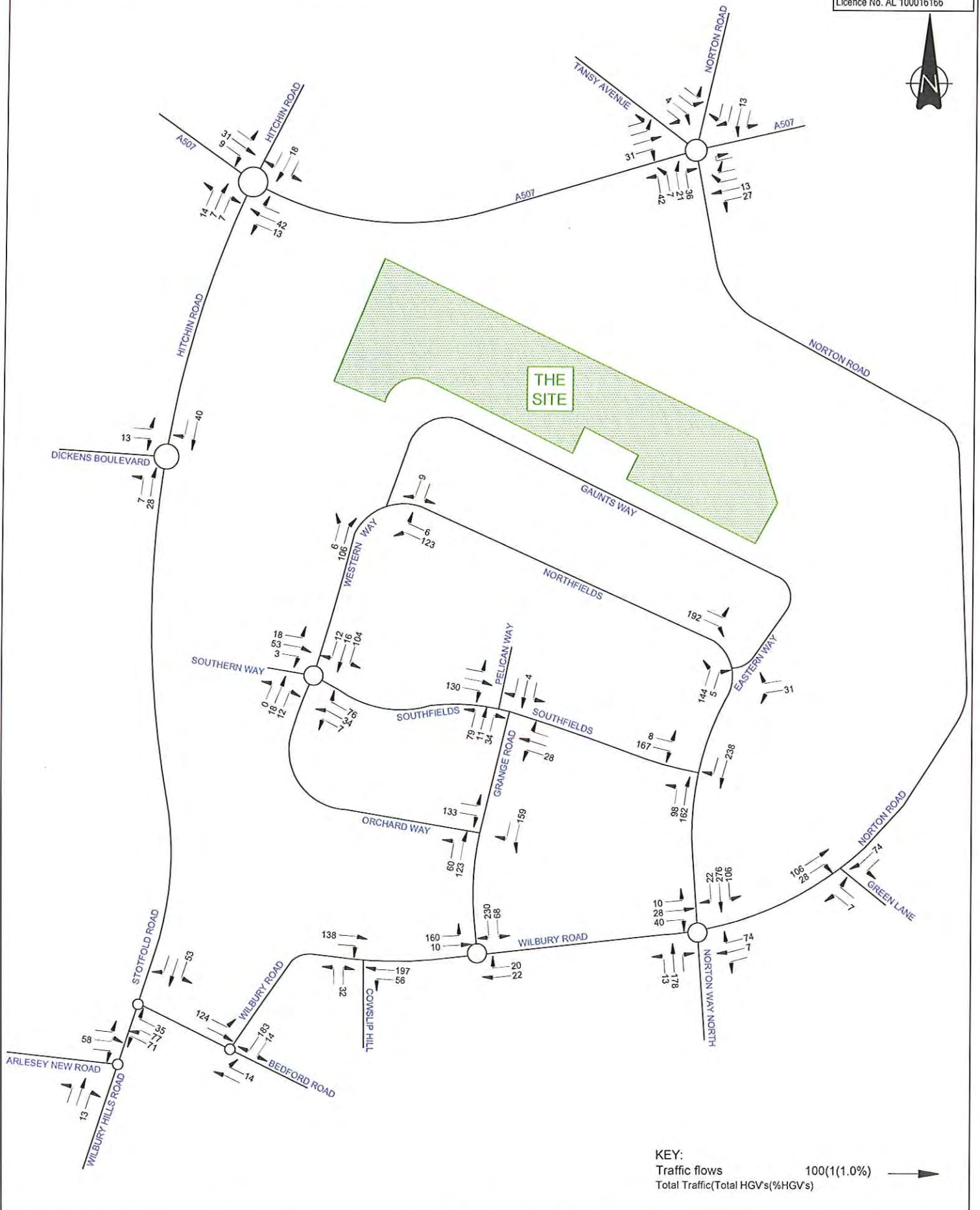
Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/T		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

Project LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH  
 OPTION 3 PROPOSED TRAFFIC GENERATION  
 TUESDAY PM PEAK HOUR  
 1700 - 1800

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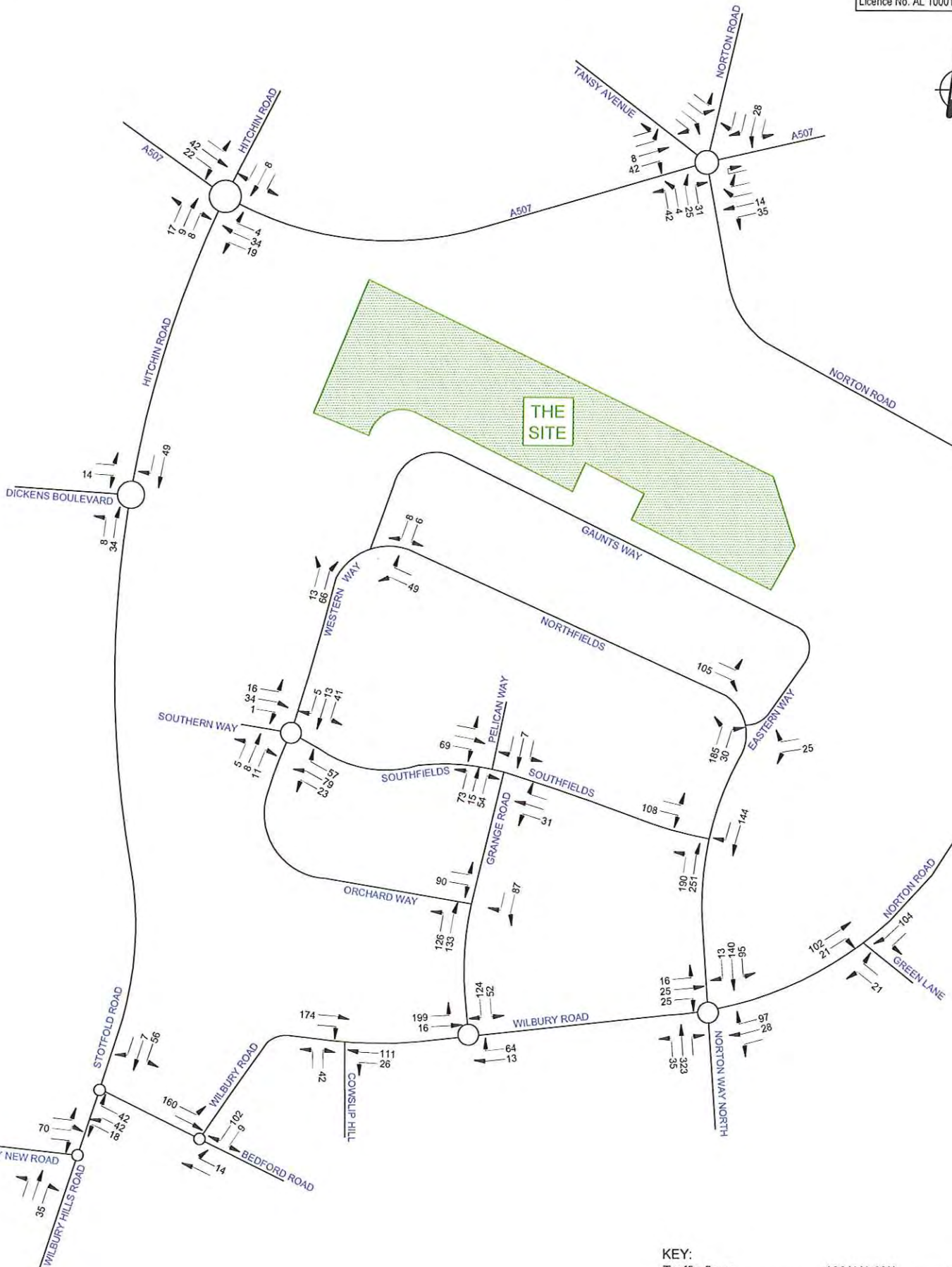
Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/U		
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Project **LETCHWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCHWORTH EXISTING GRANGE DEVELOPMENT TRAFFIC GENERATION TUESDAY AM PEAK HOUR 0800 - 0900**

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KEY:  
Traffic flows 100(1(1.0%)) →  
Total Traffic(Total HGVs(%HGVs))

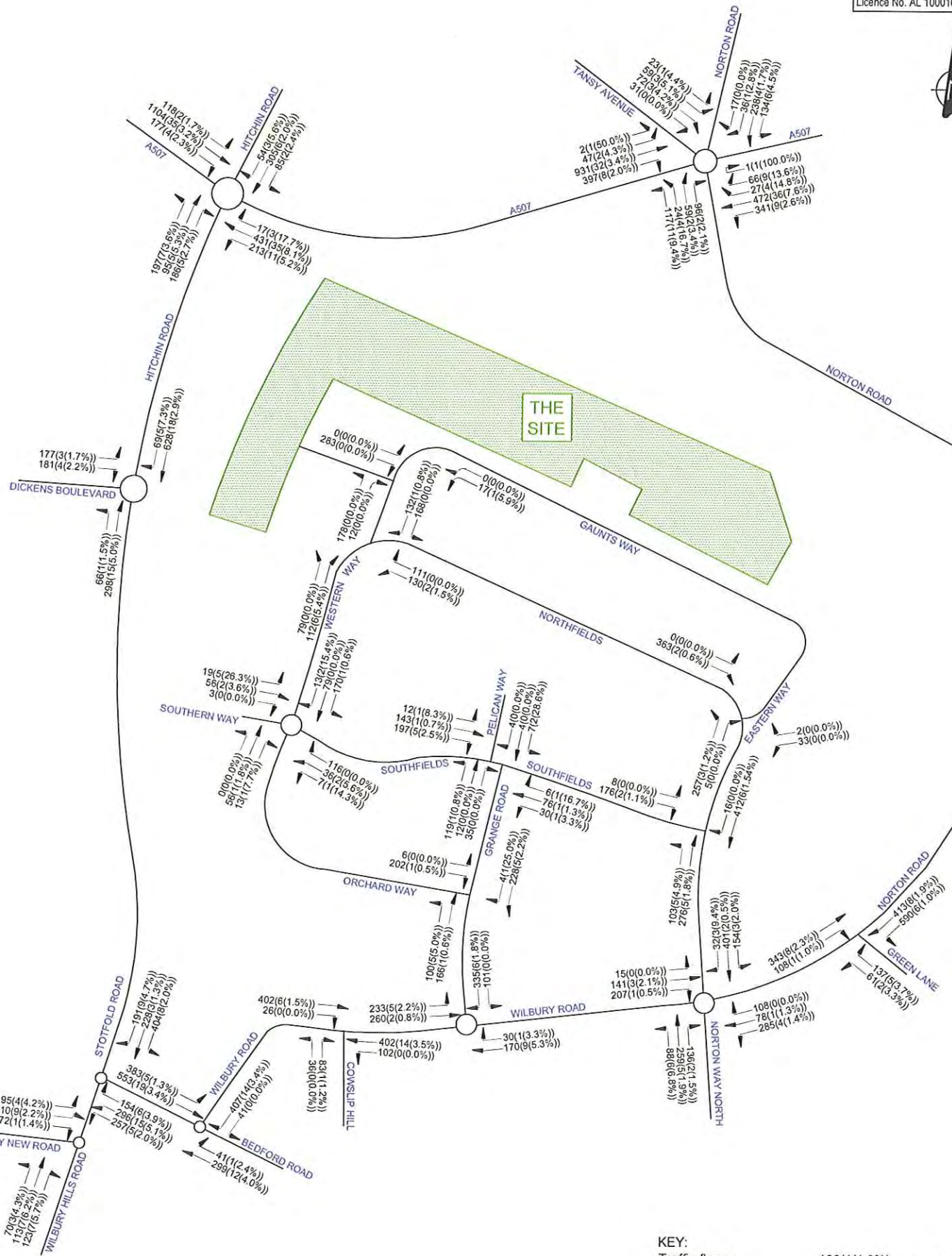
Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/V		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

Project  
**LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 EXISTING GRANGE DEVELOPMENT  
 TRAFFIC GENERATION  
 TUESDAY PM PEAK HOUR  
 1700 - 1800**

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KEY:  
 Traffic flows 100(1.0%) →  
 Total Traffic (Total HGVs (%HGVs))  
 NTM Growth Factor Applied = 1.0536

Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/W		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

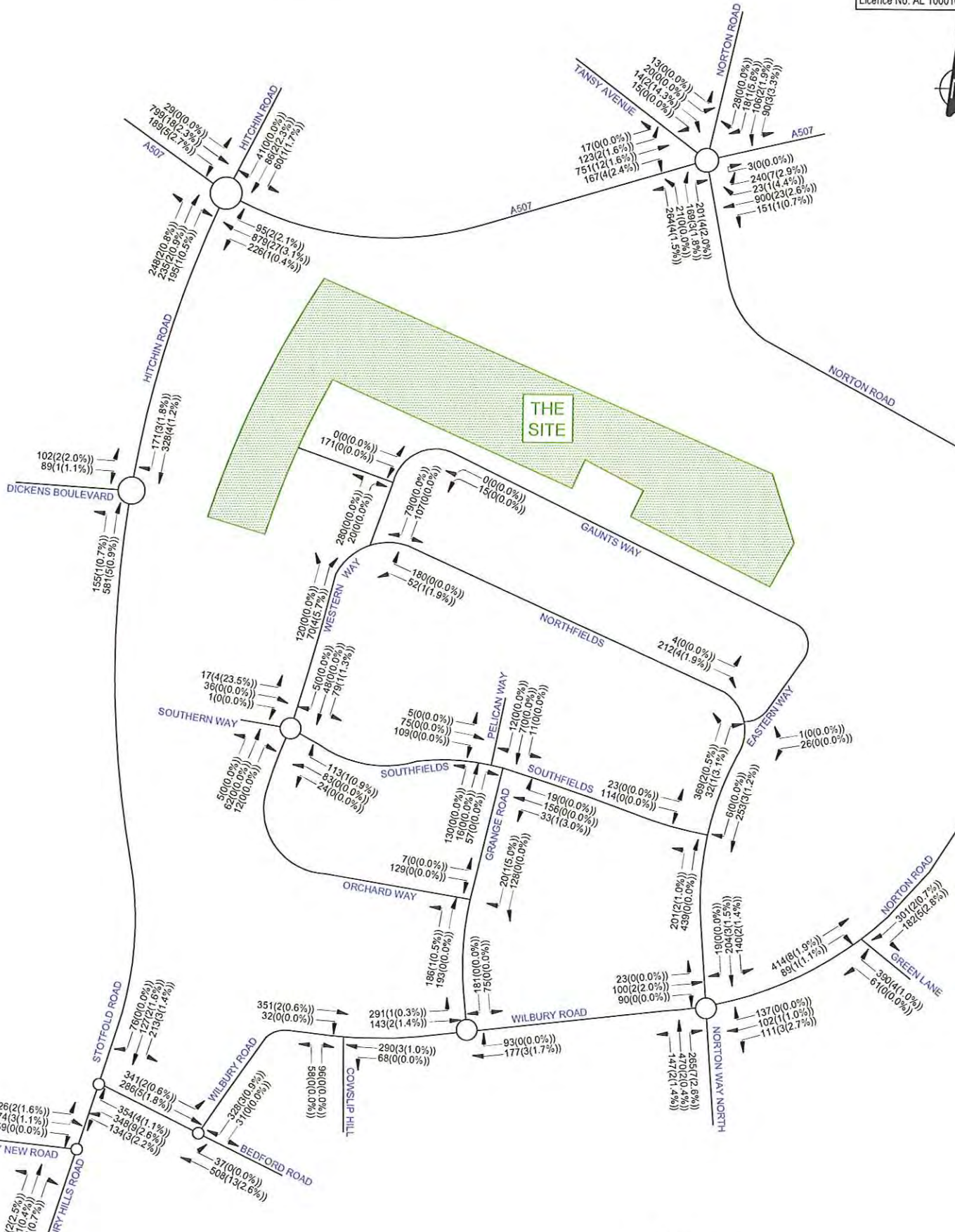
Project  
**LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH**  
 2018 BASE + OPTION 1 TRAFFIC FLOWS  
 TUESDAY AM PEAK HOUR  
 0800 - 0900

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**KEY:**  
 Traffic flows 100(1.0%)   
 Total Traffic (Total HGVs (%HGVs))  
 NTM Growth Factor Applied = 1.0556

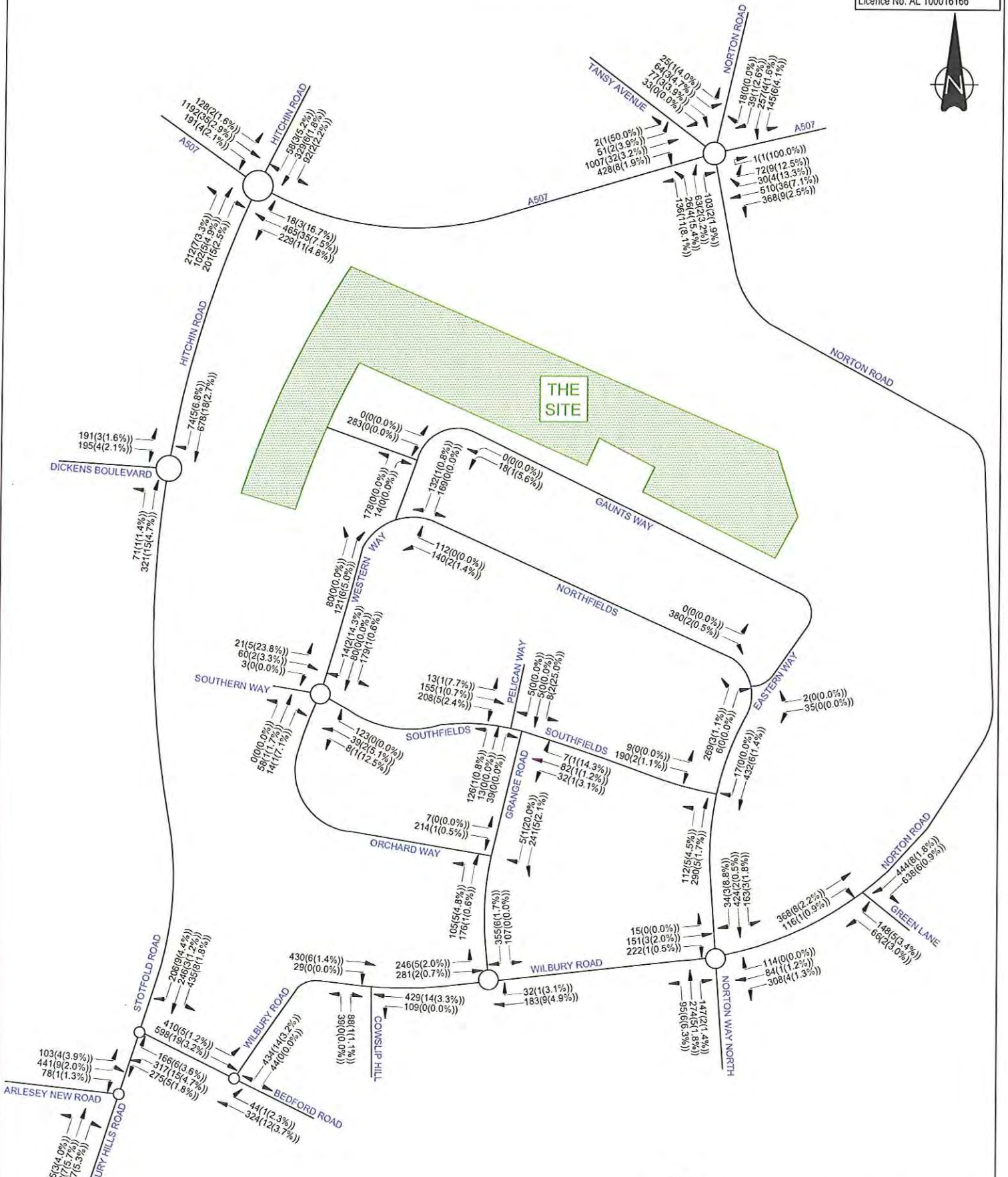
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/X		
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**Project**  
 LETCHWORTH GARDEN CITY  
 HERITAGE FOUNDATION  
 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 2018 BASE + OPTION 1 TRAFFIC FLOWS  
 TUESDAY PM PEAK HOUR  
 1700 - 1800

**COTTEE** Transport Planning

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 Feering  
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 Fax : 01376 573480  
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**KEY:**  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic (Total HGVs(%HGVs))  
 NTM Growth Factor Applied = 1.1393

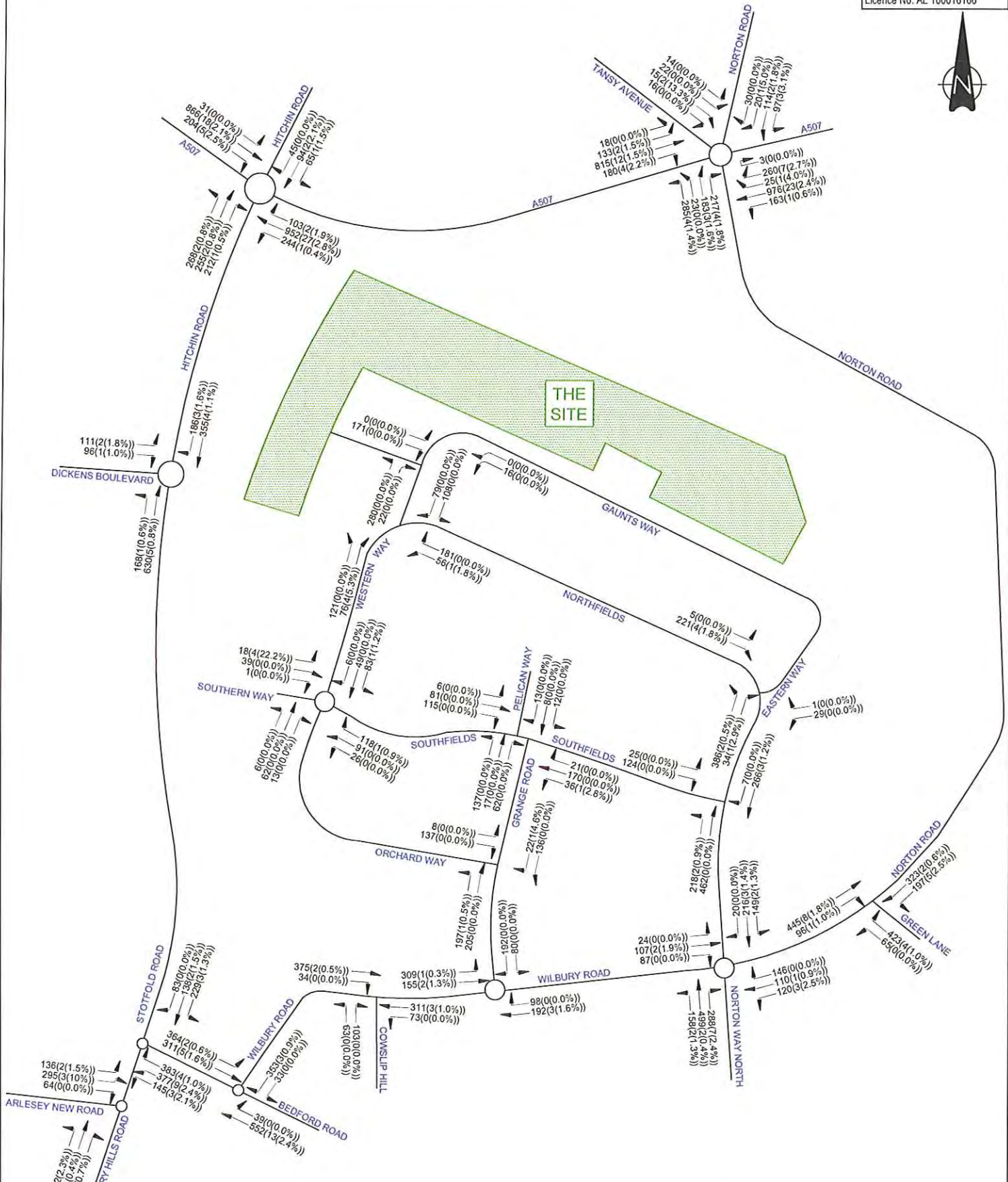
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Scale	NTS	Date	OCT 2013
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 0800 - 0900

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KEY:  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic (Total HGVs(%HGVs))  
 NTM Growth Factor Applied = 1.1459

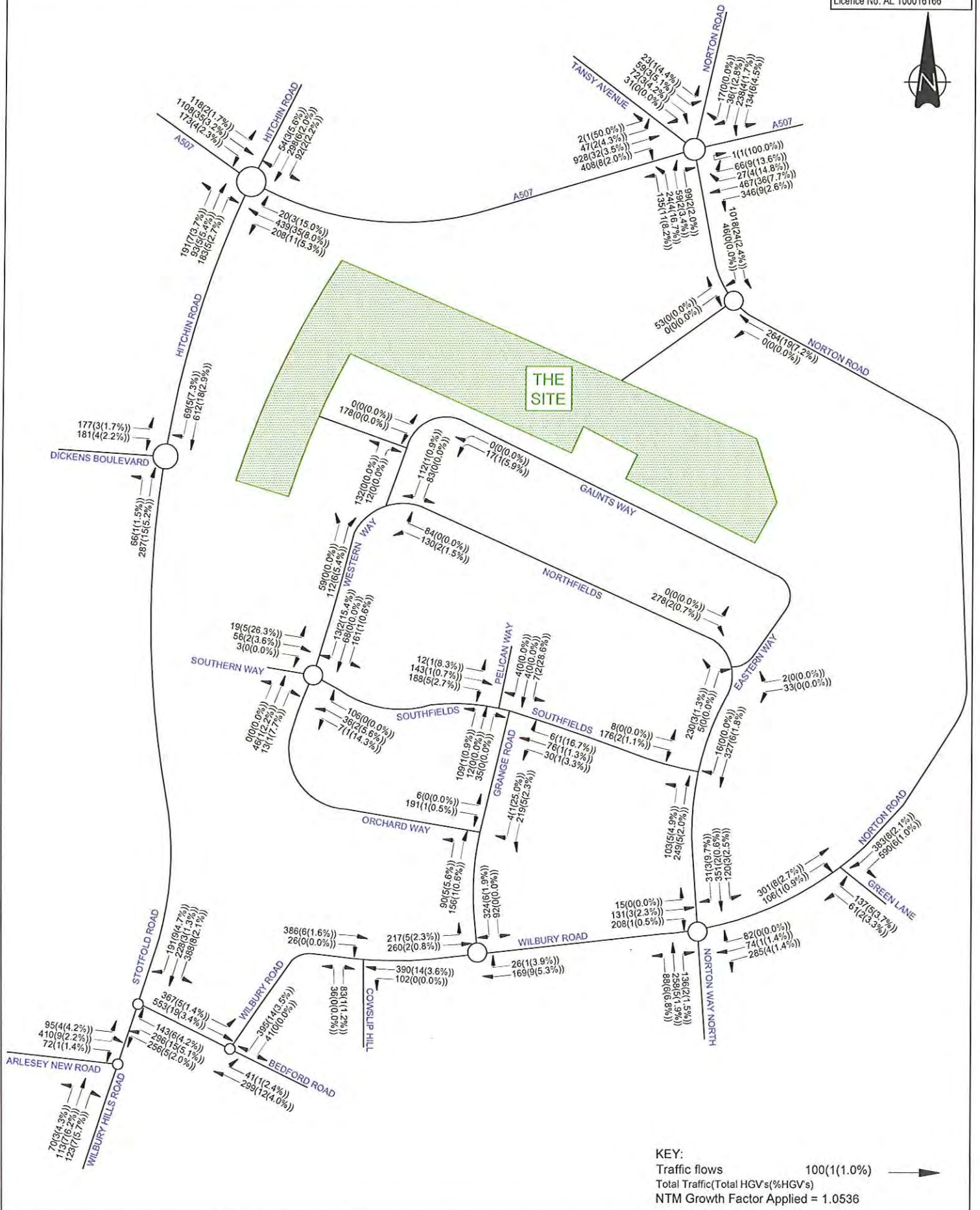
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/Z		
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 2023 BASE + OPTION 1 TRAFFIC FLOWS TUESDAY PM PEAK HOUR 1700 - 1800

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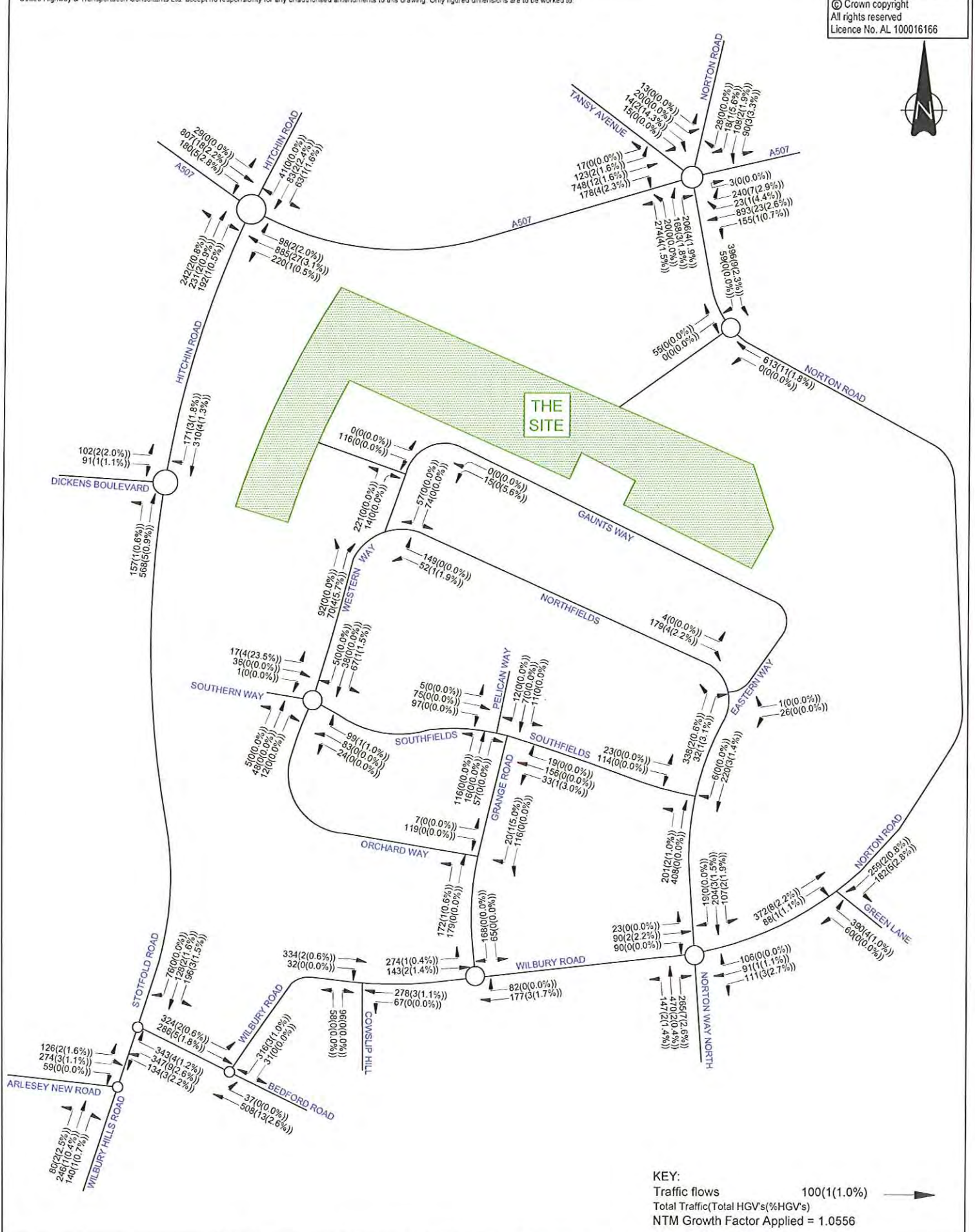
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/A1		
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2018 BASE + OPTION 2 TRAFFIC FLOWS TUESDAY AM PEAK HOUR 0800 - 0900

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**KEY:**  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic (Total HGVs/(%HGVs))  
 NTM Growth Factor Applied = 1.0556

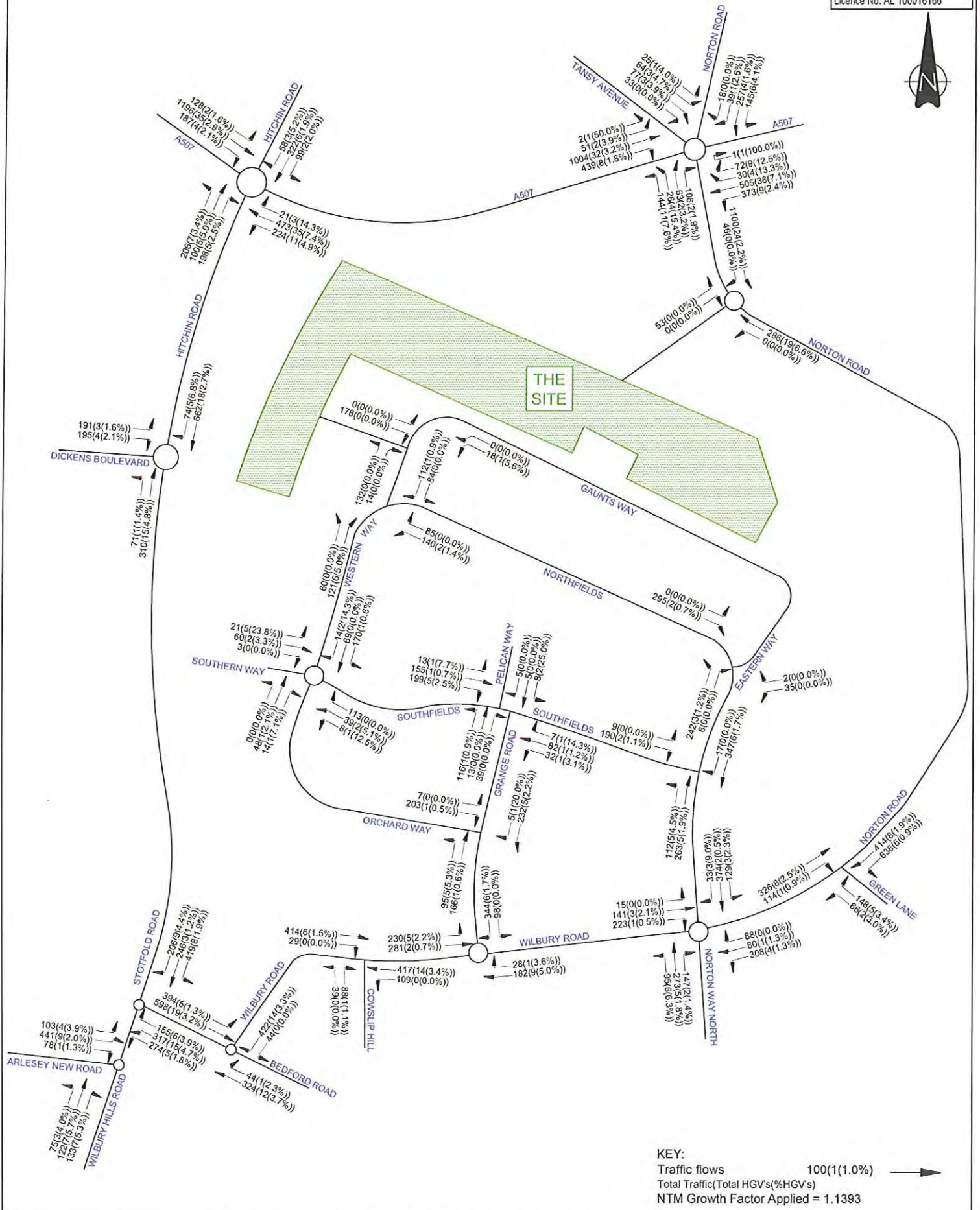
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Drawing No. <b>1284/B1</b>	
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**LETCHWORTH GARDEN CITY**  
**HERITAGE FOUNDATION**  
**LAND NORTH OF THE GRANGE,**  
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**2018 BASE + OPTION 2 TRAFFIC FLOWS**  
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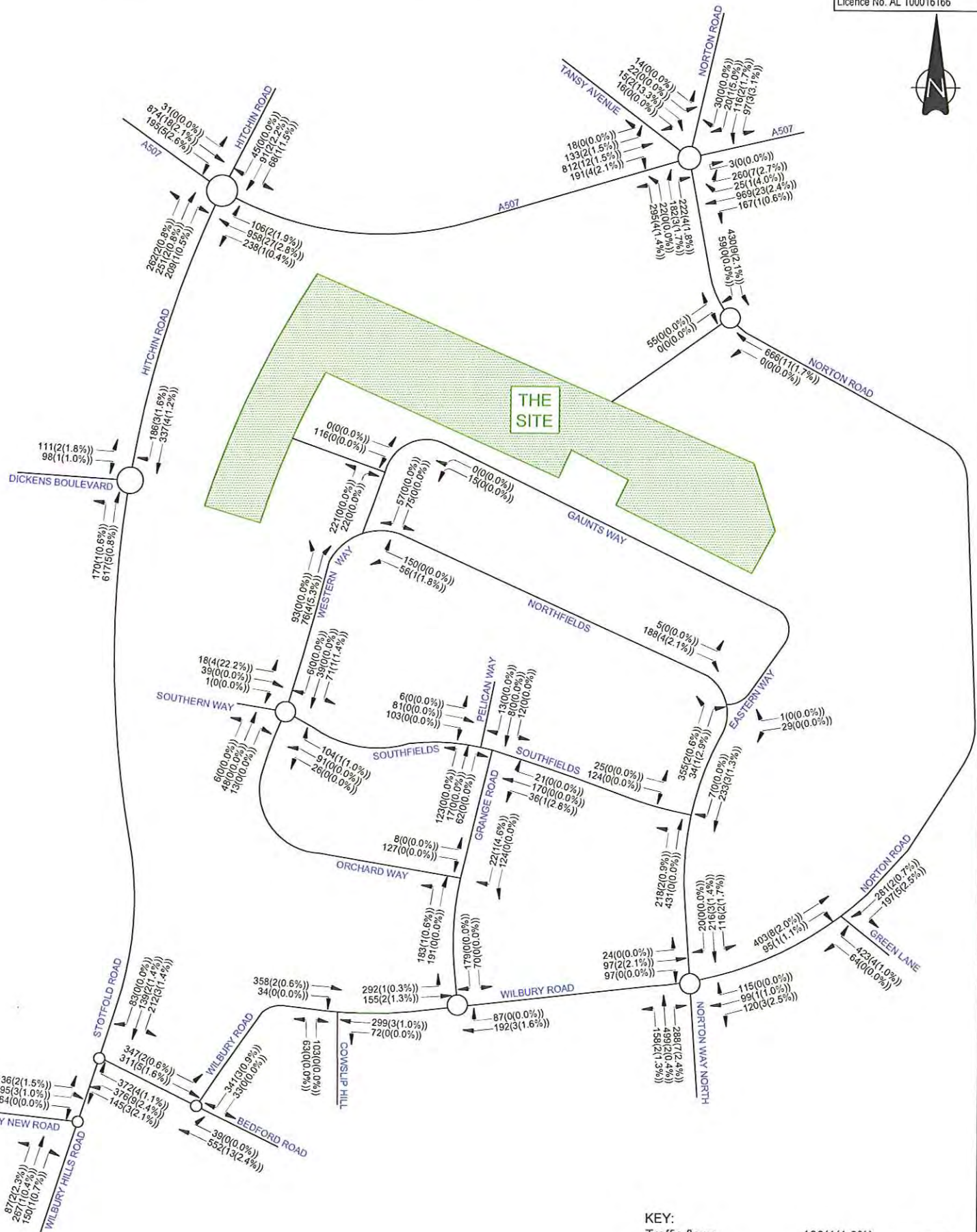
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Drawing No. <b>1284/C1</b>	
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**2023 BASE + OPTION 2 TRAFFIC FLOWS TUESDAY AM PEAK HOUR 0800 - 0900**

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KEY:  
 Traffic flows 100(1.0%)   
 Total Traffic>Total HGVs(%HGVs)  
 NTM Growth Factor Applied = 1.1459

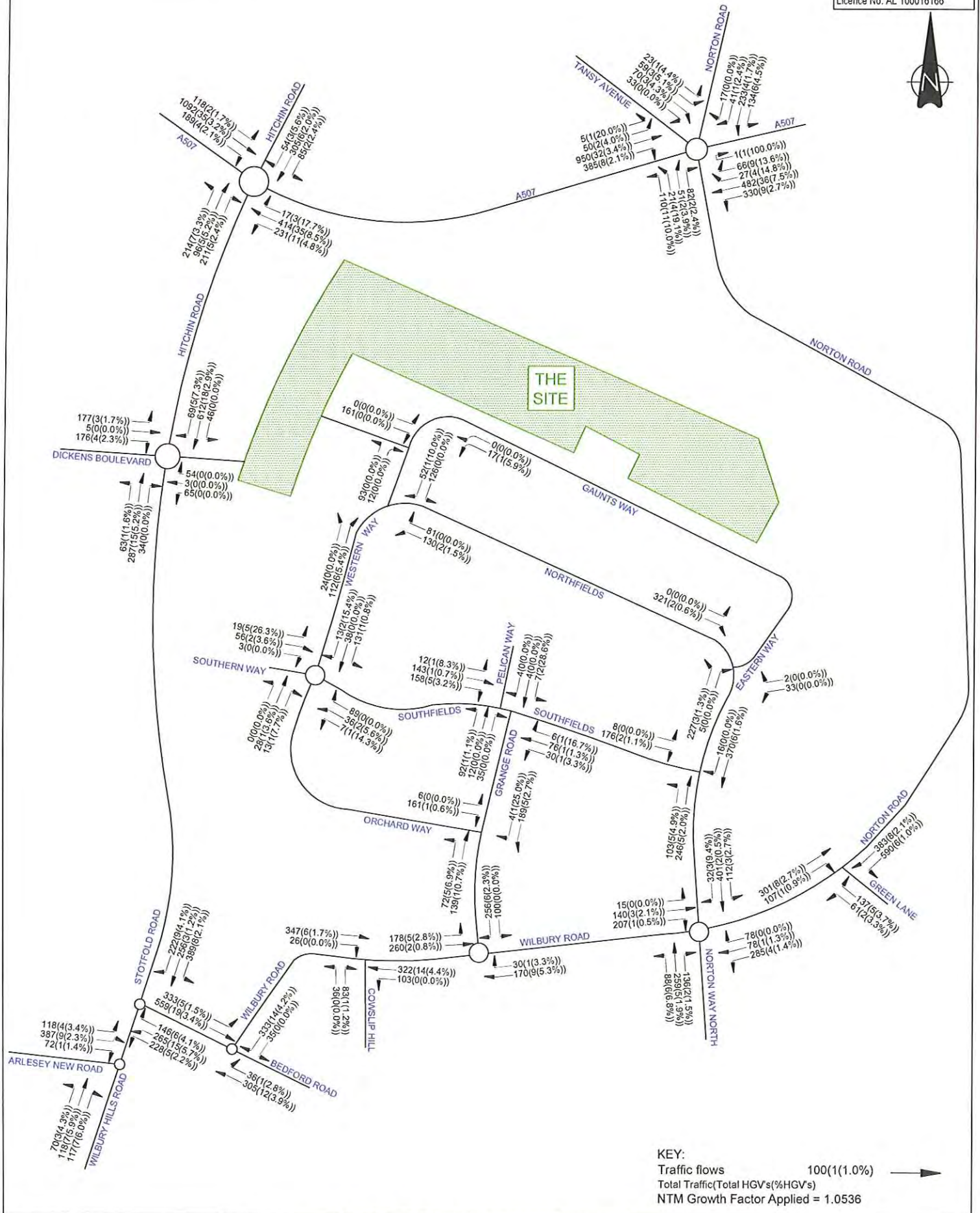
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/D1		
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 TUESDAY PM PEAK HOUR  
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Scale	NTS	Date	OCT 2013
Drawing No.	1284/E1		
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 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 2018 BASE + OPTION 3 TRAFFIC FLOWS  
 TUESDAY AM PEAK HOUR  
 0800 - 0900

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**KEY:**  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic (Total HGVs (%HGVs))  
 NTM Growth Factor Applied = 1.0556

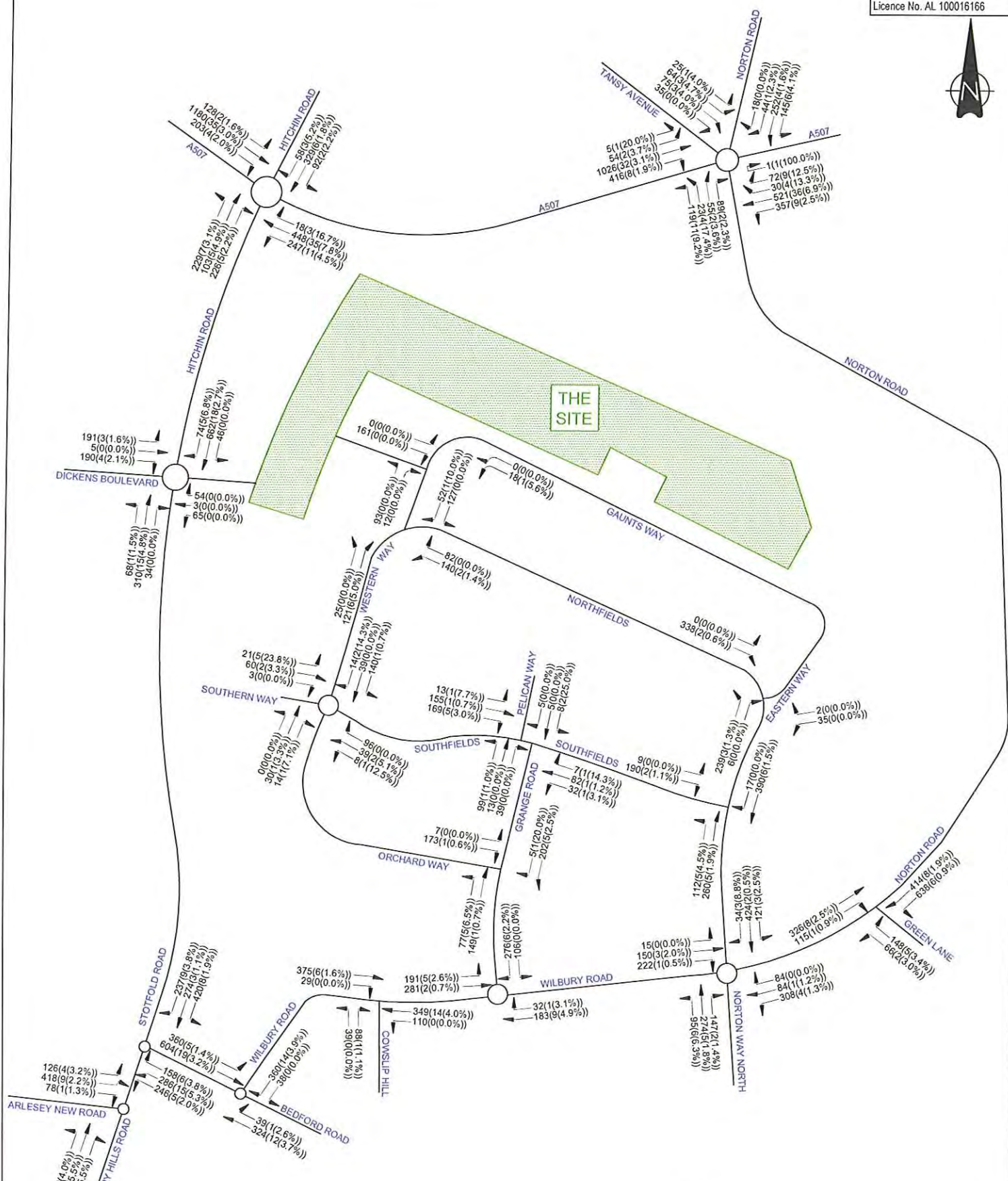
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Drawing No. <b>1284/F1</b>	
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**Project**  
**LETCHWORTH GARDEN CITY**  
**HERITAGE FOUNDATION**  
**LAND NORTH OF THE GRANGE,**  
**LETCHWORTH**  
**2018 BASE + OPTION 3 TRAFFIC FLOWS**  
**TUESDAY PM PEAK HOUR**  
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**KEY:**  
 Traffic flows 100(1(1.0%)) →  
 Total Traffic(Total HGVs(%HGVs))  
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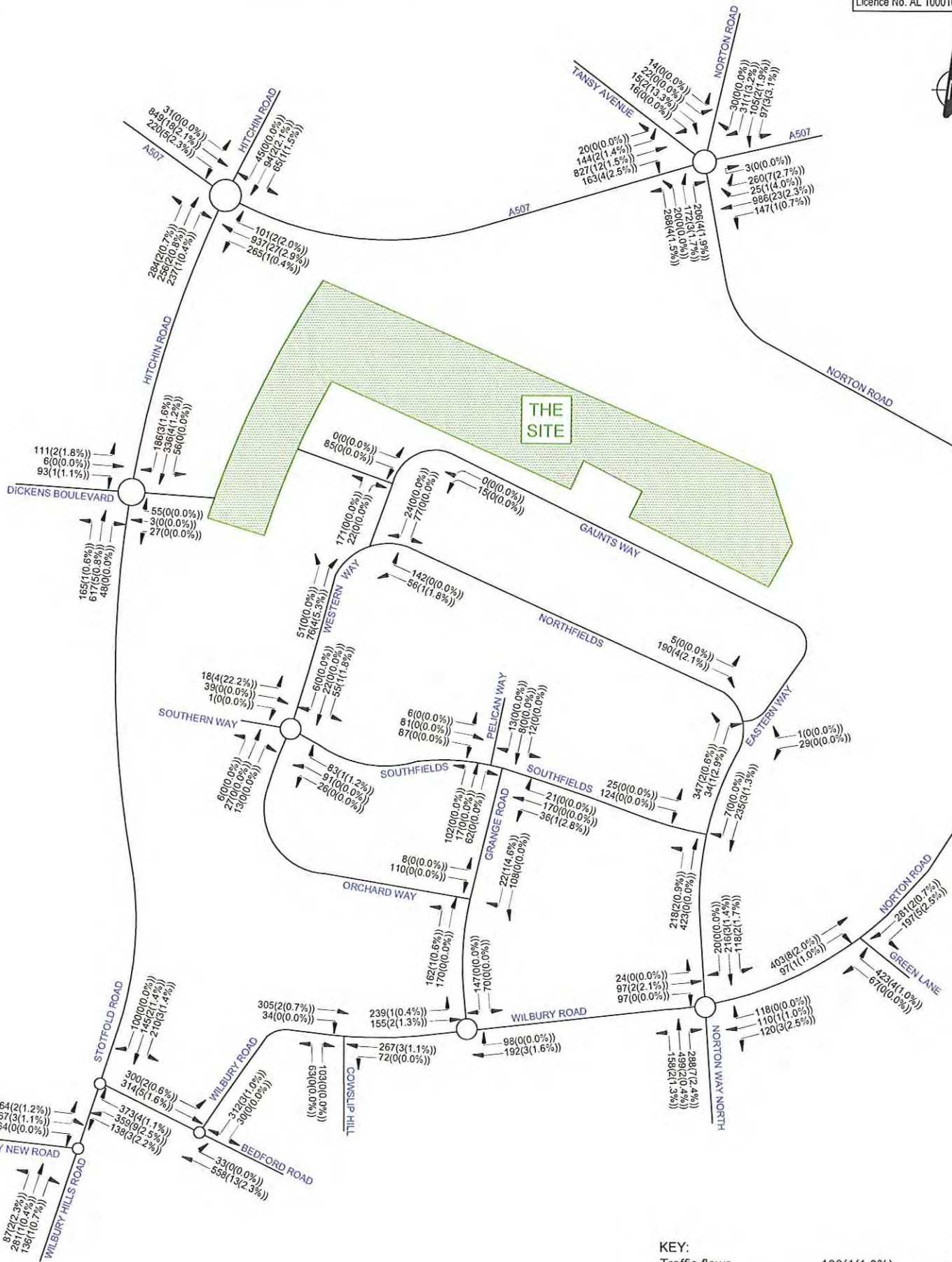
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Scale	NTS	Date	OCT 2013
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 LAND NORTH OF THE GRANGE,  
 LETCHWORTH  
 2023 BASE + OPTION 3 TRAFFIC FLOWS  
 TUESDAY AM PEAK HOUR  
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KEY:  
 Traffic flows 100(1(1.0%) →  
 Total Traffic (Total HGV's (%HGV's)) - - -  
 NTM Growth Factor Applied = 1.1459 . . .

Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/H1		
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 2023 BASE + OPTION 3 TRAFFIC FLOWS  
 TUESDAY PM PEAK HOUR  
 1700 - 1800

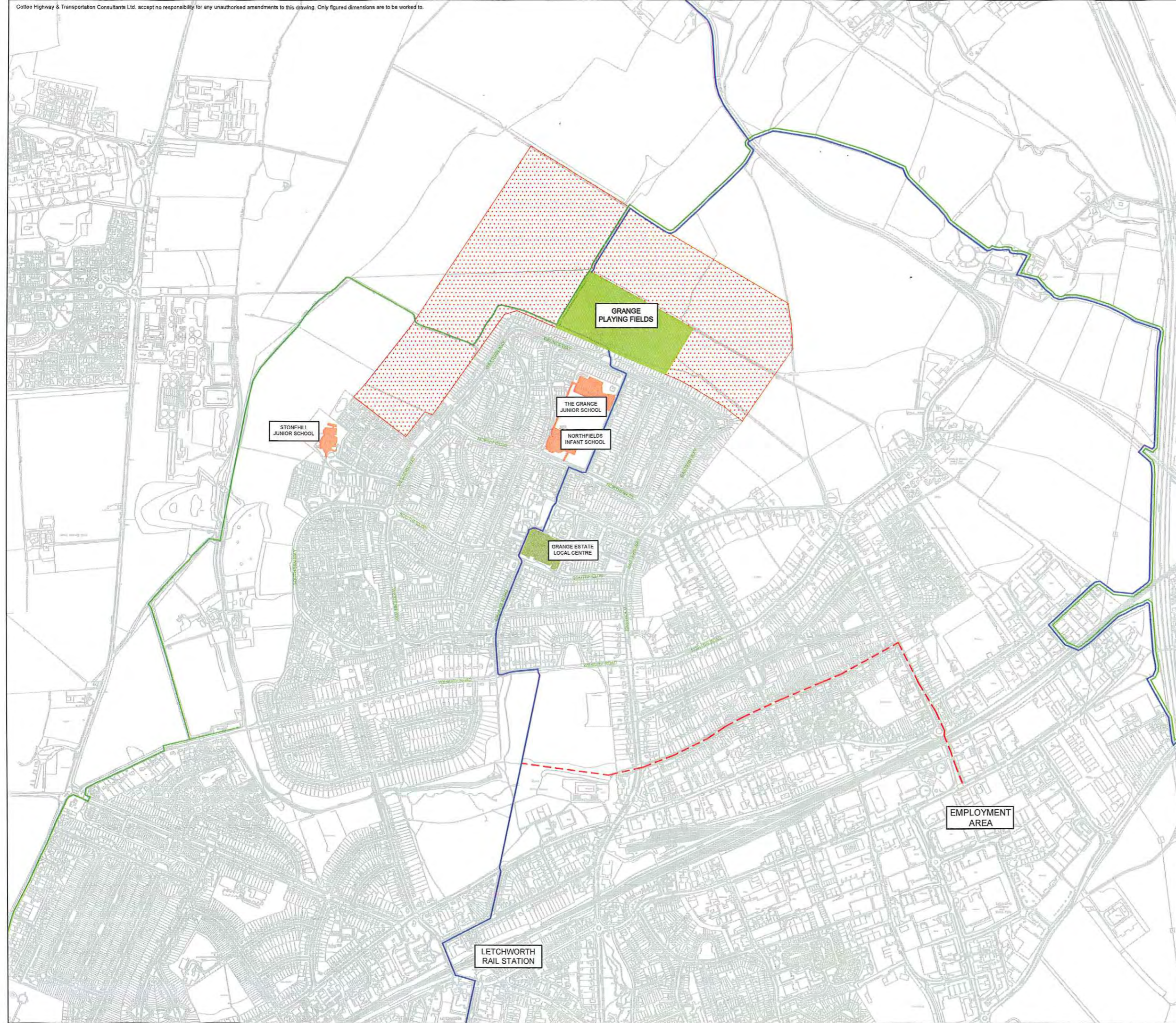
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## **APPENDIX M**

### **POSSIBLE CYCLE ROUTE**



KEY	
Cycle Route - NCR12	
LDF Housing / Growth Area	
Local Schools	
Playing Fields	
Local Centre	
Site Boundary	
'Garden City Greenway'	
Proposed Extension to NCR12	

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Client  
**LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION**

Project  
**LAND NORTH OF THE GRANGE,  
LETCHWORTH**

Title  
**CYCLE ROUTE PLAN**

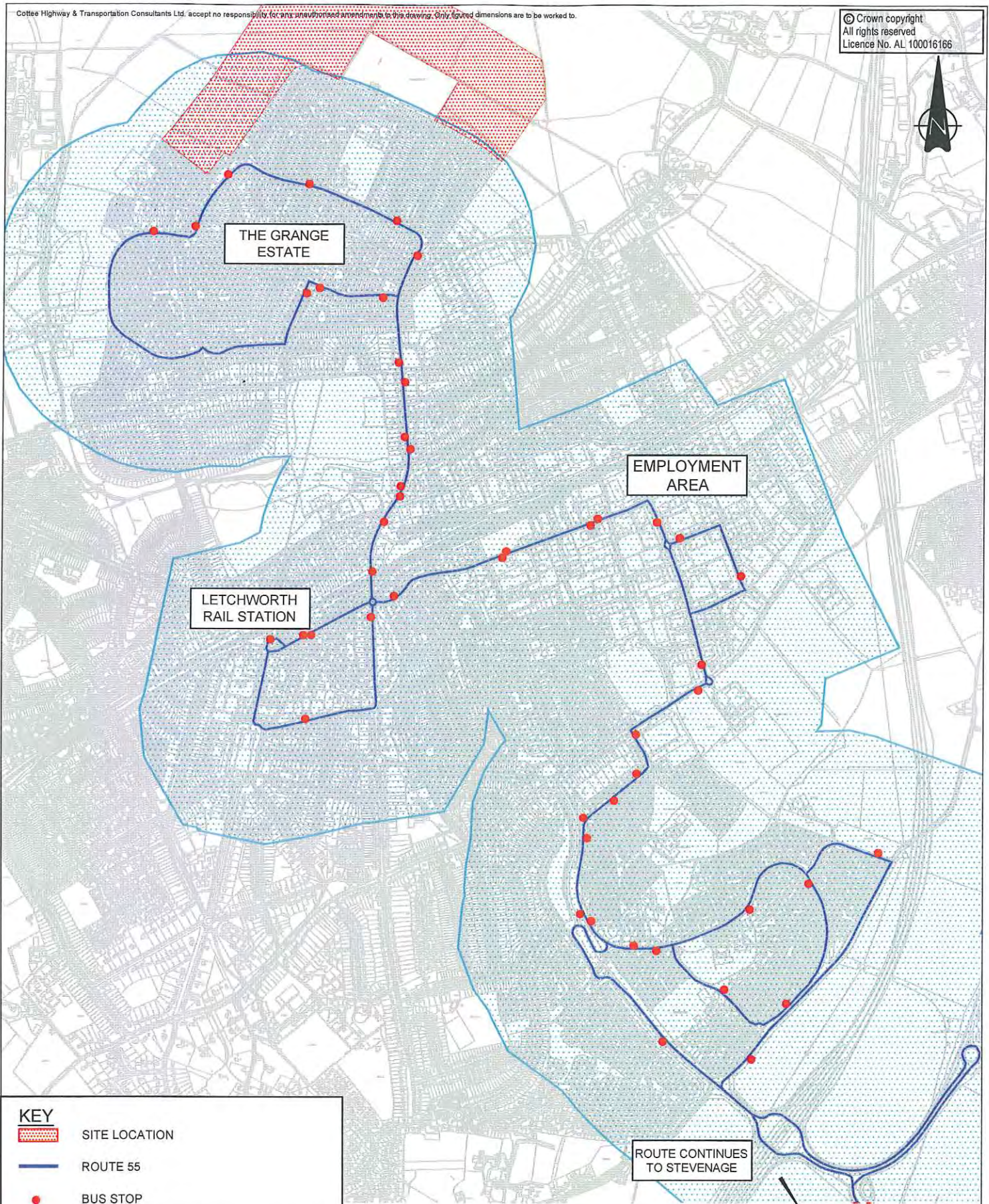
Drawn <b>DAVID HOWSON</b>	Checked <b>GJK</b>
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Scale <b>NTS</b>	Date <b>OCT 2013</b>
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Drawing No. **1284/18**

## **APPENDIX N**

### **BUS SERVICE CATCHMENT**



KEY	
	SITE LOCATION
	ROUTE 55
	BUS STOP
	400M CATCHMENT DISTANCE FROM BUS ROUTE

Drawn	<b>DAVID HOWSON</b>	Checked	<b>GJK</b>
Scale	<b>NTS</b>	Date	<b>OCT 2013</b>
Drawing No.	<b>1284/17</b>		

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Project **LETCWORTH GARDEN CITY HERITAGE FOUNDATION LAND NORTH OF THE GRANGE, LETCWORTH**

**BUS ROUTE 55 INCLUDING 400M BUS CATCHMENT**

**COTTEE** Transport Planning

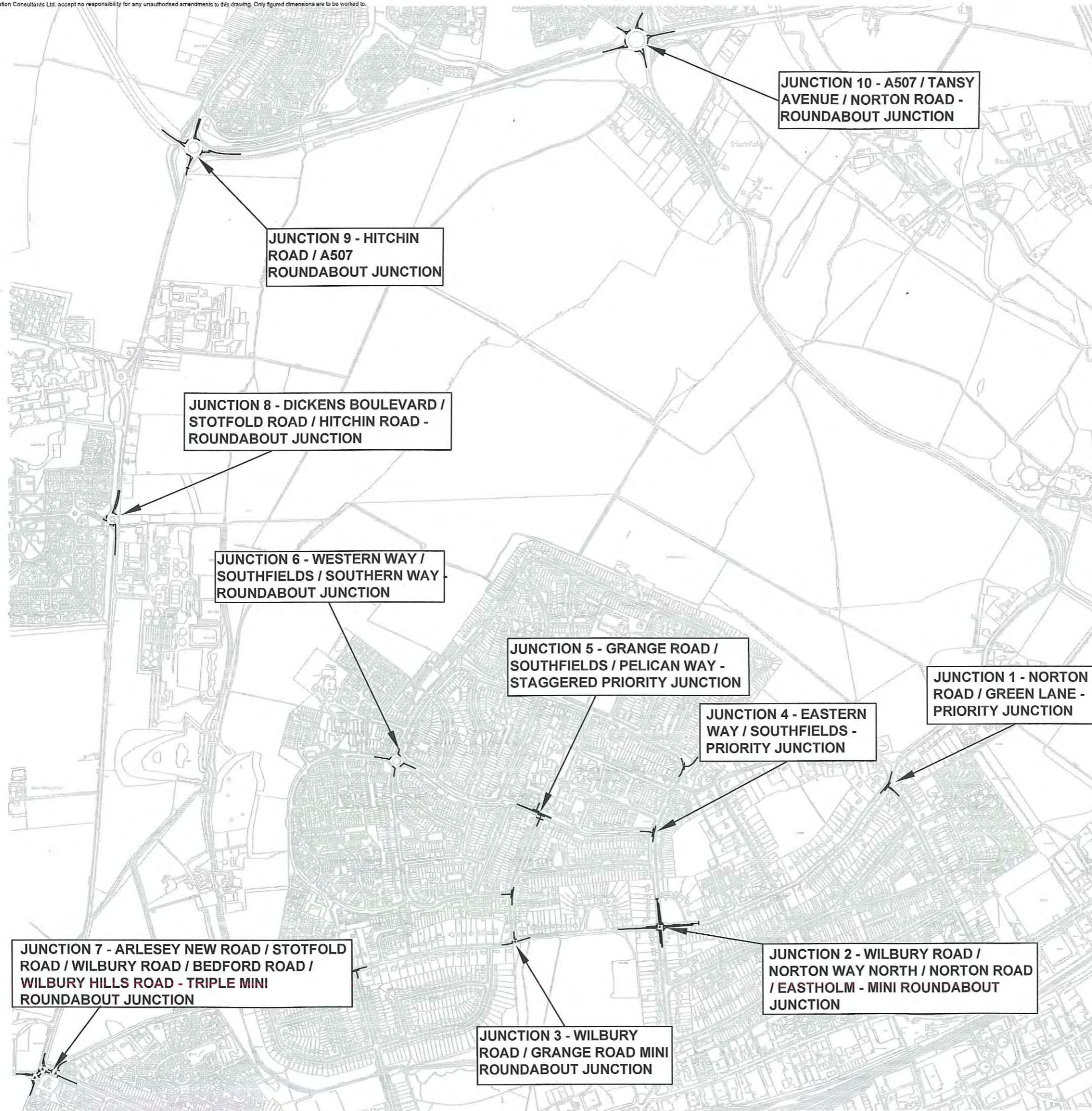
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## **APPENDIX O**

### **JUNCTION ASSESSMENT PLAN**





JUNCTION 10 - A507 / TANSY AVENUE / NORTON ROAD - ROUNDABOUT JUNCTION

JUNCTION 9 - HITCHIN ROAD / A507 ROUNDABOUT JUNCTION

JUNCTION 8 - DICKENS BOULEVARD / STOTFOLD ROAD / HITCHIN ROAD - ROUNDABOUT JUNCTION

JUNCTION 6 - WESTERN WAY / SOUTHFIELDS / SOUTHERN WAY - ROUNDABOUT JUNCTION

JUNCTION 5 - GRANGE ROAD / SOUTHFIELDS / PELICAN WAY - STAGGERED PRIORITY JUNCTION

JUNCTION 4 - EASTERN WAY / SOUTHFIELDS - PRIORITY JUNCTION

JUNCTION 1 - NORTON ROAD / GREEN LANE - PRIORITY JUNCTION

JUNCTION 7 - ARLESEY NEW ROAD / STOTFOLD ROAD / WILBURY ROAD / BEDFORD ROAD / WILBURY HILLS ROAD - TRIPLE MINI ROUNDABOUT JUNCTION

JUNCTION 3 - WILBURY ROAD / GRANGE ROAD MINI ROUNDABOUT JUNCTION

JUNCTION 2 - WILBURY ROAD / NORTON WAY NORTH / NORTON ROAD / EASTHOLM - MINI ROUNDABOUT JUNCTION

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Project  
LETCHWORTH, HERTFORDSHIRE

Title  
JUNCTIONS INCLUDED IN STUDY AREA - CAPACITY ANALYSIS

Drawn DAVID HOWSON Checked GJK

Scale NTS Date OCT 2013

Drawing No. 1284/12

## **APPENDIX P**

### **JUNCTION CAPACITY ASSESSMENTS**

**LETCHWORTH GARDEN CITY, HERTFORDSHIRE  
LAND TO THE NORTH OF THE GRANGE ESTATE  
PICADY ANALYSIS – JUNCTION 1 –  
NORTON ROAD / GREEN LANE**

	B - C		B - A		C - AB	
	RFC	RFC	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.139	0	0.472	1	0.269	0
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	1.083	4	1.062	14	0.172	0

- A - Norton Road (East)  
 B - Green Lane  
 C - Norton Road (West)  
 RFC - Ratio of flow to Capacity  
 Q - Number of Vehicles

**LETCHWORTH GARDEN CITY, HERTFORDSHIRE**  
**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 2 – NORTON ROAD / NORTON WAY NORTH / WILBURY ROAD / EASTHOLM**

	NORTON ROAD		NORTON WAY (NORTH)		WILBURY ROAD		EASTHOLM	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.832	4	0.325	1	0.311	0	0.927	8
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.451	1	0.598	2	0.216	0	0.556	1
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.978	13	0.374	1	0.366	1	1.136	*
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.632	1	0.697	2	0.268	0	0.685	2
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	1.058	*	0.445	1	0.427	1	1.592	*
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.647	2	0.849	5	0.338	1	0.939	9

**NOTES:**

1. RFC – ratio of flow to capacity
2. Q – queue length in vehicles
3. \* - Q values become unreliable once RFC values exceed 1

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 2 – NORTON ROAD / NORTON WAY NORTH / WILBURY ROAD / EASTHOLM**

	NORTON ROAD		NORTON WAY (NORTH)		WILBURY ROAD		EASTHOLM	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	1.010	*	0.439	1	0.410	1	1.358	*
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.581	1	0.828	5	0.328	1	0.859	5
2023 Base + Option 4 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	1.020	*	0.439	1	0.418	1	1.482	*
2023 Base + Option 4 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.606	2	0.835	5	0.328	1	0.864	5

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles

**LETCHWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 3 – WILBURY ROAD / GRANGE ROAD**

	WILBURY ROAD (E)		WILBURY ROAD (W)		GRANGE ROAD	
	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.289	0	0.530	1	0.574	1
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.329	0	0.442	1	0.299	0
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.337	1	0.603	2	0.676	2
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.382	1	0.509	1	0.349	1
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.400	1	0.696	2	0.918	8
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.445	1	0.637	2	0.473	1

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 3 – WILBURY ROAD / GRANGE ROAD**

	WILBURY ROAD (E)		WILBURY ROAD (W)		GRANGE ROAD	
	RFC	Q	RFC	Q	RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.387	1	0.673	2	0.878	6
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.423	1	0.609	2	0.433	1
2023 Base + Option 4 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.371	1	0.624	2	0.761	3
2023 Base + Option 4 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.428	1	0.542	1	0.377	1

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles

## LETCWORTH GARDEN CITY, HERTFORDSHIRE LAND TO THE NORTH OF THE GRANGE ESTATE

### PICADY ANALYSIS – JUNCTION 4 – EASTERN WAY / SOUTHFIELDS

	B - C		B - A		C - AB	
	RFC	RFC	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.017	0	0.387	1	0.026	0
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.045	0	0.257	0	0.011	0
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.020	0	0.454	1	0.030	0
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.053	0	0.306	0	0.014	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.022	0	0.518	1	0.032	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.059	0	0.360	1	0.015	0
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.021	0	0.491	1	0.031	0
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.057	0	0.347	1	0.015	0
2023 Base + Option 4 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.021	0	0.499	1	0.031	0
2023 Base + Option 4 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.057	0	0.345	1	0.015	0

- A - Eastern Way (South)
- B - Southfields
- C - Eastern Way (North)
- RFC - Ratio of flow to Capacity
- Q - Number of Vehicles



## LETCWORTH GARDEN CITY, HERTFORDSHIRE LAND TO THE NORTH OF THE GRANGE ESTATE

### PICADY ANALYSIS – JUNCTION 5 – SOUTHFIELDS / GRANGE ROAD / PELICAN WAY

	B – CD		B – A		AB – D		D – AB		D – C		CD – B	
	RFC	RFC	RFC	RFC	Q	Q	Q	RFC	Q		RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.153	0	0.076	0	0.037	0	0.025	0	0.010	0	0.247	0
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.156	0	0.118	0	0.064	0	0.036	0	0.027	0	0.146	0
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.177	0	0.091	0	0.044	0	0.029	0	0.013	0	0.283	0
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.182	0	0.140	0	0.074	0	0.036	0	0.033	0	0.163	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.238	0	0.096	0	0.045	0	0.030	0	0.014	0	0.390	1
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.278	0	0.145	0	0.075	0	0.037	0	0.035	0	0.231	0

A - Eastern Way (South)    B - Southfields    C - Eastern Way (North)    D - Pelican Way  
 RFC - Ratio of flow to Capacity  
 Q - Number of Vehicles

## LETCWORTH GARDEN CITY, HERTFORDSHIRE LAND TO THE NORTH OF THE GRANGE ESTATE

### PICADY ANALYSIS – JUNCTION 5 – SOUTHFIELDS / GRANGE ROAD / PELICAN WAY

	B – CD		B – A		AB – D		D – AB		D – C		CD – B	
	RFC	RFC	RFC	RFC	Q	Q	Q	RFC	Q		RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.221	0	0.095	0	0.045	0	0.030	0	0.014	0	0.374	1
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.252	0	0.143	0	0.075	0	0.037	0	0.034	0	0.208	0
2023 Base + Option 4 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.192	0	0.093	0	0.044	0	0.029	0	0.014	0	0.321	0
2023 Base + Option 4 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.214	0	0.141	0	0.074	0	0.036	0	0.033	0	0.178	0

A - Eastern Way (South)    B - Southfields    C - Eastern Way (North)    D - Pelican Way  
 RFC - Ratio of flow to Capacity  
 Q - Number of Vehicles

**LETCHWORTH GARDEN CITY, HERTFORDSHIRE**  
**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 6 – SOUTHFIELDS / WESTERN WAY / SOUTHERN WAY**

	SOUTHFIELDS		WESTERN WAY (S)		SOUTHERN WAY		WESTERN WAY (N)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.113	0	0.032	0	0.089	0	0.130	0
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.152	0	0.026	0	0.060	0	0.057	0
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.130	0	0.038	0	0.102	0	0.149	0
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.175	0	0.031	0	0.069	0	0.066	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.170	0	0.079	0	0.106	0	0.270	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.230	0	0.091	0	0.073	0	0.135	0

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 6 – SOUTHFIELDS / WESTERN WAY / SOUTHERN WAY**

	SOUTHFIELDS		WESTERN WAY (S)		SOUTHERN WAY		WESTERN WAY (N)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.159	0	0.068	0	0.105	0	0.250	0
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.215	0	0.075	0	0.072	0	0.113	0
2023 Base + Option 4 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.140	0	0.048	0	0.103	0	0.191	0
2023 Base + Option 4 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.193	0	0.051	0	0.071	0	0.081	0

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles

**LETCHWORTH GARDEN CITY, HERTFORDSHIRE**  
**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 7 – BEDFORD ROAD/STOTFOLD ROAD/WILBURY ROAD/ARLESEY NEW ROAD**

	Bedford Road		Stotfold Road (Link)		Stotfold Road (N)		Wilbury Road		Bedford Road (E)		Bedford Road (Link)		Wilbury Hills Road		Arlesey New Road		Stotfold Road (Link)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.970	14	0.710	2	1.375	*	0.802	4	0.336	1	0.847	5	0.474	1	0.768	3	0.826	5
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	1.083	*	0.821	4	0.582	1	0.495	1	0.498	1	0.527	1	0.643	2	0.656	2	0.583	1

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles
- 3. \* - RFC values become unreliable once Q values exceed 1.

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**  
**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 8 – STOTFOLD ROAD / DICKENS BOULEVARD / HITCHIN ROAD**

	STOTFOLD ROAD		DICKENS BOULEVARD		HITCHIN ROAD	
	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.255	0	0.321	0	0.698	2
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.527	1	0.197	0	0.459	1
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.290	0	0.372	1	0.802	4
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.611	2	0.238	0	0.529	1
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.300	0	0.379	1	0.822	4
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.624	2	0.243	0	0.548	1

**NOTES:**

1. RFC – ratio of flow to capacity
2. Q – queue length in vehicles

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 8 – STOTFOLD ROAD / DICKENS BOULEVARD / HITCHIN ROAD**

	STOTFOLD ROAD		DICKENS BOULEVARD		HITCHIN ROAD	
	RFC	Q	RFC	Q	RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.292	0	0.377	1	0.805	4
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.615	2	0.243	0	0.531	1

NOTES:

1. RFC – ratio of flow to capacity
2. Q – queue length in vehicles

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 9 – A507 / HITCHIN ROAD**

	A 507 (E)		HITCHIN ROAD (S)		A507 (W)		HITCHIN ROAD (N)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.326	1	0.314	0	0.691	2	0.576	1
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.552	1	0.570	1	0.537	1	0.198	0
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.381	1	0.367	1	0.799	4	0.775	3
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.643	2	0.709	2	0.633	2	0.254	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.395	1	0.378	1	0.809	4	0.801	4
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.658	2	0.729	3	0.651	2	0.263	0

**NOTES:**

1. RFC – ratio of flow to capacity
2. Q – queue length in vehicles



**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 9 – A507 / HITCHIN ROAD**

	A 507 (E)		HITCHIN ROAD (S)		A507 (W)		HITCHIN ROAD (N)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.397	1	0.372	1	0.809	4	0.799	4
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.656	2	0.720	3	0.649	2	0.263	0
2023 Base + Option 3 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.397	1	0.407	1	0.817	5	0.822	4
2023 Base + Option 3 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.664	2	0.763	3	0.657	2	0.268	0

**NOTES:**

1. RFC – ratio of flow to capacity
2. Q – queue length in vehicles

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**

**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 10 – A507 / TANSY AVENUE / NORTON ROAD**

	A507 (E)		Norton Road (S)		A507 (W)		Tansy Avenue		Norton Road (N)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2013 Base Flows Weekday AM Peak Hour 0800 – 0900	0.555	1	0.189	0	0.801	4	0.447	1	0.550	1
2013 Base Flows Weekday PM Peak Hour 1700 – 1800	0.659	2	0.531	1	0.687	2	0.153	0	0.233	0
2023 Base Flows Weekday AM Peak Hour 0800 – 0900	0.653	2	0.222	0	0.921	10	0.657	2	0.733	3
2023 Base Flows Weekday PM Peak Hour 1700 – 1800	0.764	3	0.667	2	0.815	4	0.236	0	0.291	0
2023 Base + Option 1 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.669	2	0.253	0	0.938	12	0.699	2	0.759	3
2023 Base + Option 1 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.783	3	0.709	2	0.836	5	0.247	0	0.305	0

**NOTES:**

- 1. RFC – ratio of flow to capacity
- 2. Q – queue length in vehicles

**LETCWORTH GARDEN CITY, HERTFORDSHIRE**  
**LAND TO THE NORTH OF THE GRANGE ESTATE**

**ARCADY ANALYSIS – JUNCTION 10 – A507 / TANSY AVENUE / NORTON ROAD**

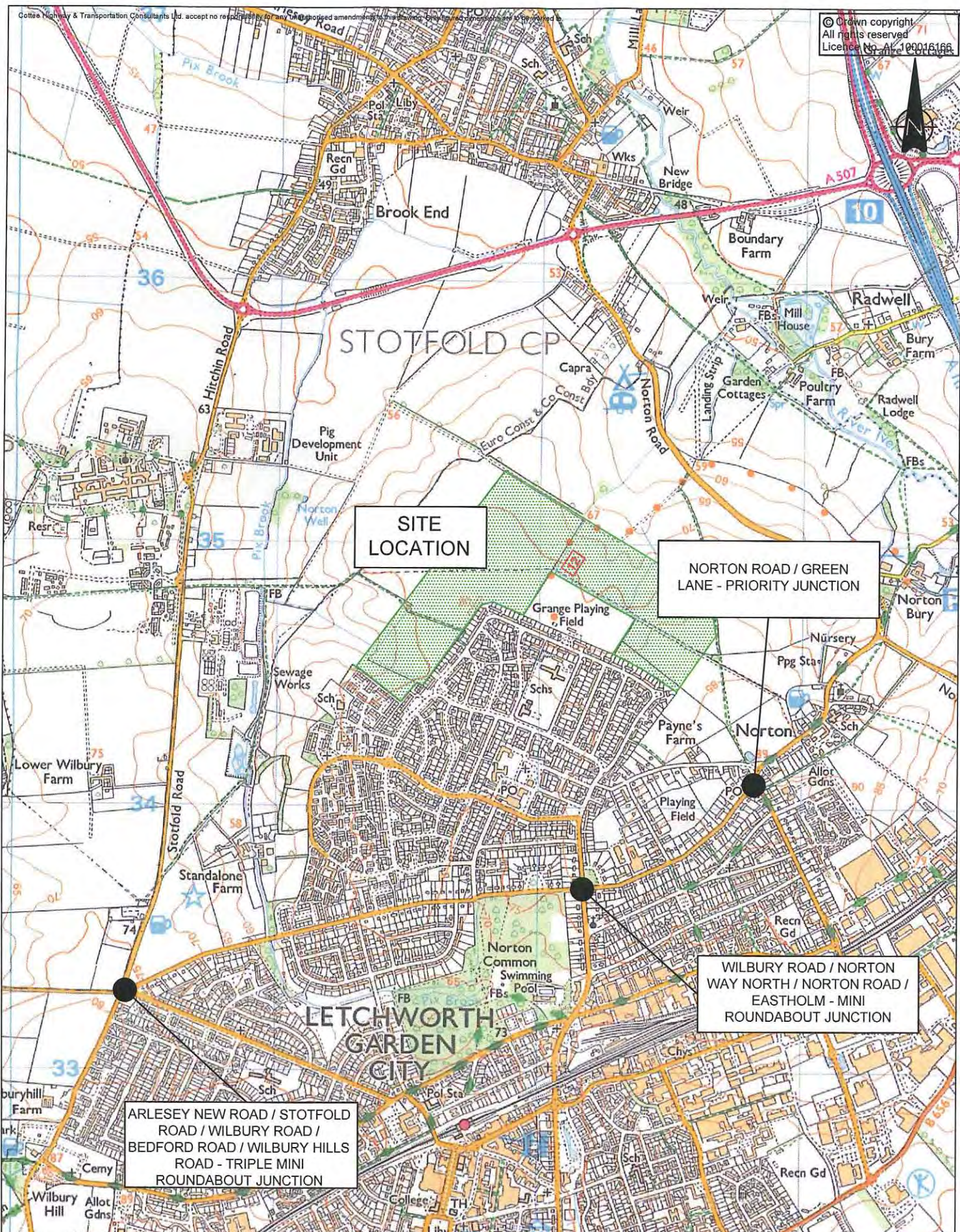
	A507 (E)		Norton Road (S)		A507 (W)		Tansy Avenue		Norton Road (N)	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2023 Base + Option 2 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.667	2	0.260	0	0.944	11	0.648	2	0.748	3
2023 Base + Option 2 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.785	4	0.722	3	0.845	5	0.257	0	0.312	0
2023 Base + Option 3 Access Arrangements – Development Flows Weekday AM Peak Hour 0800 – 0900	0.665	2	0.224	0	0.938	12	0.686	2	0.754	3
2023 Base + Option 3 Access Arrangements – Development Flows Weekday PM Peak Hour 1700 – 1800	0.776	3	0.678	2	0.835	5	0.246	0	0.306	0

**NOTES:**

1. RFC – ratio of flow to capacity
2. Q – queue length in vehicles

## **APPENDIX Q**

### **JUNCTION IMPROVEMENT LOCATIONS**



SITE  
LOCATION

NORTON ROAD / GREEN  
LANE - PRIORITY JUNCTION

WILBURY ROAD / NORTON  
WAY NORTH / NORTON ROAD /  
EASTHOLM - MINI  
ROUNDBOULT JUNCTION

ARLESEY NEW ROAD / STOTFOLD  
ROAD / WILBURY ROAD /  
BEDFORD ROAD / WILBURY HILLS  
ROAD - TRIPLE MINI  
ROUNDBOULT JUNCTION

Drawn	DH	Checked	GJK
Scale	NTS	Date	OCT 2013
Drawing No.	1284/19A		

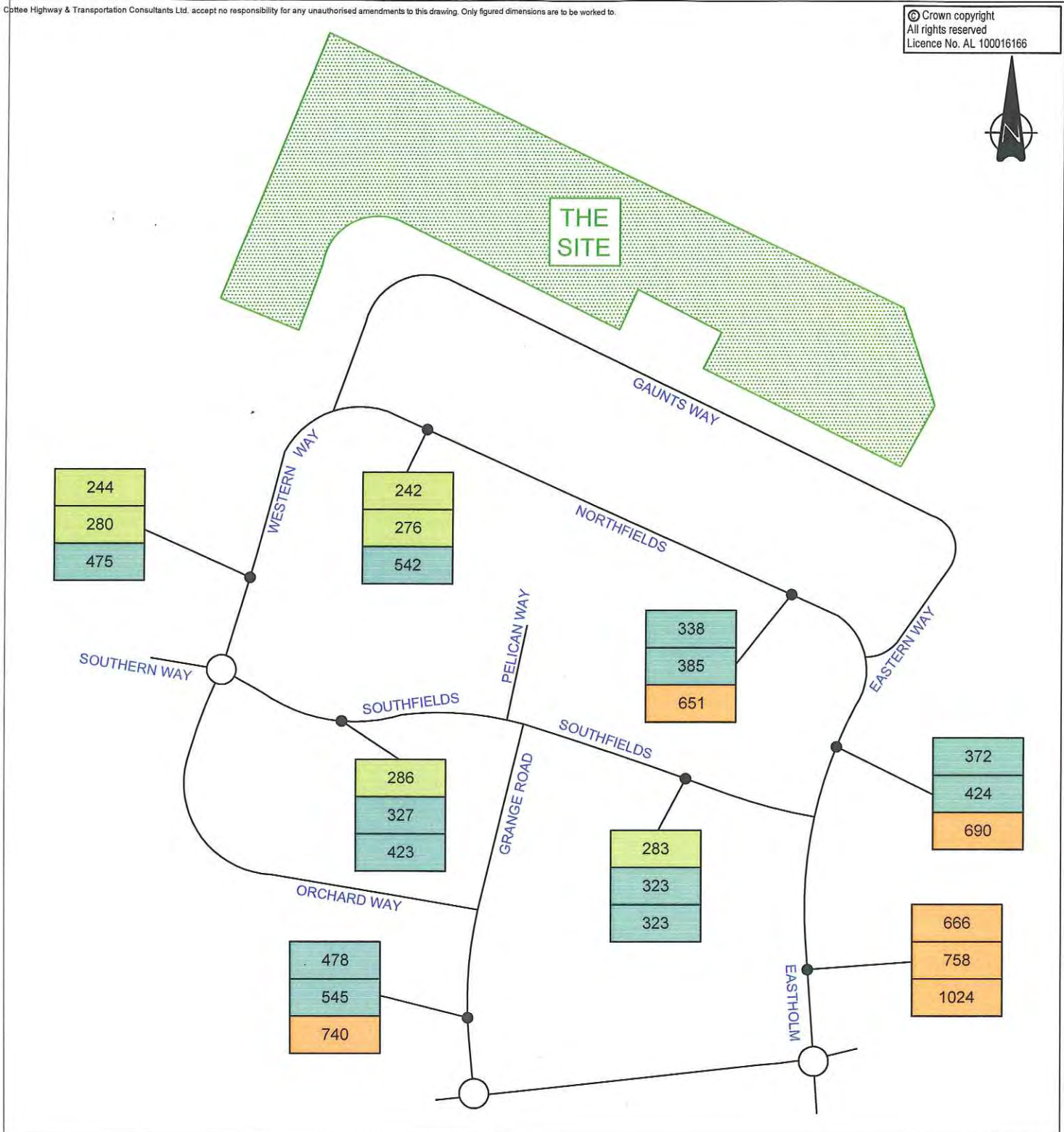
Project  
LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCHWORTH

**COTTEE** Transport Planning

Fir Lodge  
Threshfelds Business Park  
Feering  
Essex  
CO5 9SE  
Tel : 01376 573400  
Fax : 01376 573480  
email : info@cotee-tp.co.uk  
www.coteetransportplanning.co.uk

## **APPENDIX R**

### **ASSESSMENT OF LINK FLOWS ON THE ESTATE**



**KEY**

Total Two-way flows time period

244	2013
280	2023
475	2023 + OPTION 1 DEVELOPMENT

Total Two-way flows category

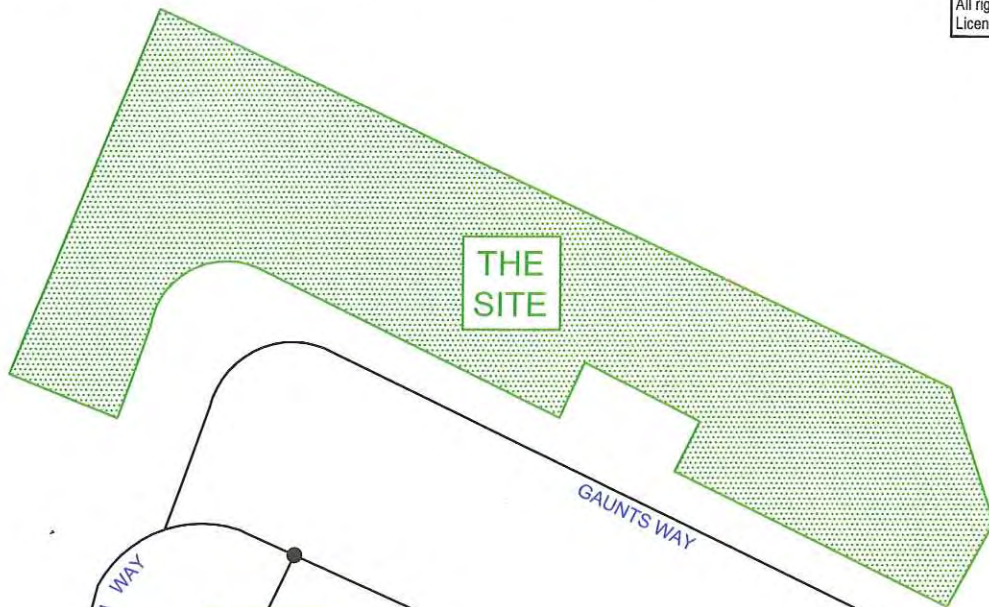
299	< 300 Vehicles
500	300 - 600 Vehicles
601	> 600 Vehicles

Drawn	DEH	Checked	MMT
Scale	NTS	Date	OCT 2013
Drawing No.	1284/15		
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>			

Project LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCWORTH  
TOTAL TWO-WAY TRAFFIC FLOWS  
IN THE GRANGE ESTATE  
AM PEAK HOUR

**COTTEE** Transport Planning

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140
160
336

127
146
421

295
338
613

245
281
370

332
382
382

345
395
670

439
503
679

680
779
1054

**KEY**

Total Two-way flows time period

244
280
475

2013  
2023  
2023 + OPTION 1 DEVELOPMENT

Total Two-way flows category

299
500
601

< 300 Vehicles  
300 - 600 Vehicles  
> 600 Vehicles

Drawn <b>DEH</b>	Checked <b>MMT</b>
Scale <b>NTS</b>	Date <b>OCT 2013</b>
Drawing No. <b>1284/16</b>	
<small>Cottee Highway &amp; Transportation Consultants Ltd. accept no responsibility for any unauthorised amendments to this drawing. Only figured dimensions are to be worked to.</small>	

Project  
**LETCHWORTH GARDEN CITY  
HERITAGE FOUNDATION  
LAND NORTH OF THE GRANGE,  
LETCHWORTH  
TOTAL TWO-WAY TRAFFIC FLOWS  
IN THE GRANGE ESTATE  
PM PEAK HOUR**

**COTTEE** Transport Planning

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