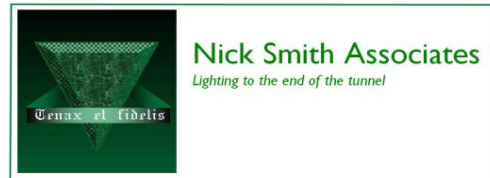


Leicester Road, Earl Shilton

Design Summary

Client:	Vistry Homes	Issue Date:	21/03/2025
Project Number:	3125	Revision:	-



Document Issue Schedule: NSA 104

Project Name:	Leicester Road, Earl Shilton									
Project Number:	3125	Issue Date:	21 March 2025							

	DD	21								
	MM	03								
	YY	25								

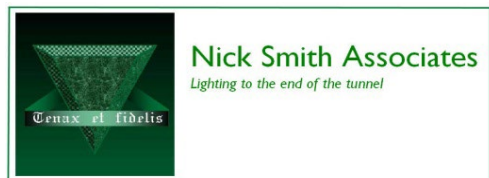
Document Schedule		Revision Details								
Doc Ref:	Title									
NSA105	Design Criteria document	*								
NSA106	Bill of Quantities	*								
NSA107	Project cost estimate									
NSA108	Cable Calculations									
NSA109	Risk Assessment	*								
	Local Authority Specification									
	Design consideration notes									
	Lighting Design Calculations	*								

Drawing Schedule										
DWG Ref	Title									
3125-D-01	Proposed Section 278 Lighting and Illuminance Layout	*								
3125-D-02	Proposed Section 38 Lighting and Illuminance Layout	*								

Issue Schedule		Number of Copies								
Company	Name									
Vistry Homes	Lewis Creed	e								
Vistry Homes	Lewis Monksfield	e								

emailed copy (AutoCAD format dwg unless detailed
 e = otherwise
 PDF = Electronic Adobe PDF format
 number = number of copies issued
 * = Pre revision version

Issued By	Nick Smith									
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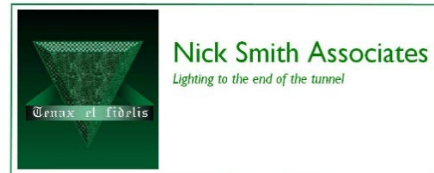
Project file download links

Project Name: Leicester Road, Earl Shilton											
Project Number: 3125		Issue Date: 21 March 2025									
		DD	21								
		MM	03								
Drawings and Calculations Issue schedule		YY	25								
Rev	Link										
-	https://ln5.sync.com/dl/19e22ad90#gccq858k9-upxvj4kb-fw5vip6y-7anamkci	-									

IF YOU CAN NOT ACCESS THIS LINK due to IT dept limitation PLEASE RING US 01246 229444 OR DROP AND EMAIL TO mail@nicksmithassociates.com we can send it another way

All links give access to all project specific file, PDF files, drawings and calculations. Links area available for 30 days from the date shown

Design Criteria Form: NSA 105



S278

Project Data

Project Name:	Leicester Road, Earl Shilton		
Project Number:	3125	Revision:	-
Local Authority:	Leicestershire County Council		
Client:	Vistry Homes		

Design Standard:	BS5489:2020	Class	M4
		Environmental Zone	E3
Luminance	Illuminance	Conflict Area	
Ave Cd/m ²	E _{ave}	E _{ave}	-
U _o	E _{min}	U _o	-
U _L	E _{Max Ave}		

Lantern Data

Lantern Manufacturer	TRT Lighting	IP Rating	IP66
Lantern Name	Aspect Gen 2	Optic Setting	GR5
Lantern Code	A64 GEN2 LED 129W CLO GR5 _Blue) G0 3000K FG		

Column Data

Mounting Height	10 meters
Lantern Mounting	Post
Bracket fitted	No
Projection	0.5 meters
Inclination	0 degrees

Lamp Data

Wattage	129w
Lamp Type	LED

Maintenance Factor

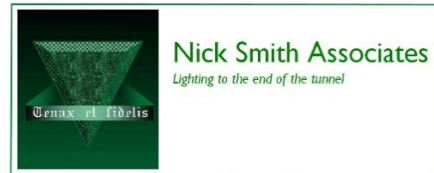
Lantern MF:	0.92
Lamp MF:	0.90
Project MF:	0.83

Column and Sign Supply Data

1. All columns are to be supplied by DNO supply
2. Design was prepared with S9 AS64_LED_142W_GR5_3000K_FG (lantern A) Asepct is being replaced with Gen 2 so also checked with A64_GEN2_LED_129W_CLO_GR5_Blue)_G0_3000K_FG.ies (lantern G) which works slightly better at the same spacing and improved uniformity

Prepared by:	N Smith	Date:	21/03/2025	Checked by:	N Smith	Date:	21/03/2025
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Design Criteria Form: NSA 105



S278 Junctions

Project Data			
Project Name:		Leicester Road, Earl Shilton	
Project Number:		3125	Revision: -
Local Authority:		Leicestershire County Council	
Client:		Vistry Homes	

Design Standard:		BS5489:2020	Class	C3	
			Environmental Zone	E3	
Luminance		Illuminance		Conflict Area	
Ave Cd/m ²	-	E _{ave}	-	E _{ave}	15
U _o	-	E _{min}	-	U _o	0.40 or 40%
U _L	-	E _{Max Ave}			

Lantern Data			
Lantern Manufacturer	TRT Lighting	IP Rating	IP66
Lantern Name	Aspect Gen 2	Optic Setting	GR5
Lantern Code	A64 GEN2 LED 129W CLO GR5 _Blue) G0 3000K FG		

Column Data	
Mounting Height	10 meters
Lantern Mounting	Post
Bracket fitted	No
Projection	0.5 meters
Inclination	0 degrees

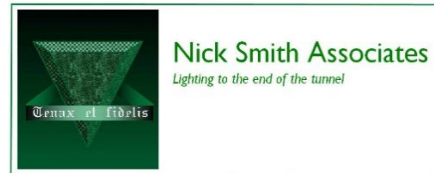
Lamp Data	
Wattage	129w
Lamp Type	LED

Maintenance Factor	
Lantern MF:	0.92
Lamp MF:	0.90
Project MF:	0.83

Column and Sign Supply Data	
1. All columns are to be supplied by DNO supply	
2. Design was prepared with S9 AS64_LED_142W_GR5_3000K_FG (lantern A) Asepct is being replaced with Gen 2 so also checked with A64_GEN2_LED_129W_CLO_GR5_Blue)_G0_3000K_FG.ies (lantern G) which works slightly better at the same spacing and improved uniformity	

Prepared by:	N Smith	Date:	21/03/2025	Checked by:	N Smith	Date:	21/03/2025
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Design Criteria Form: NSA 105



S278 Cyclepath

Project Data

Project Name:	Leicester Road, Earl Shilton		
Project Number:	3125	Revision:	-
Local Authority:	Leicestershire County Council		
Client:	Vistry Homes		

Design Standard:	BS5489:2020	Class	P4
		Environmental Zone	E3
Luminance	Illuminance	Conflict Area	
Ave Cd/m ²	E _{ave}	E _{ave}	-
U _o	E _{min}	U _o	-
U _L	E _{Max Ave}		

Lantern Data

Lantern Manufacturer	ASD Lighting	IP Rating	IP66
Lantern Name	Highway Diamond	Optic Setting	N2
Lantern Code	S1 HWD2-#3K12 500-N2-CLO Gen 5		

Column Data

Mounting Height	6 meters
Lantern Mounting	Post
Bracket fitted	No
Projection	0.4 meters
Inclination	0 degrees

Lamp Data

Wattage	19w
Lamp Type	LED

Maintenance Factor

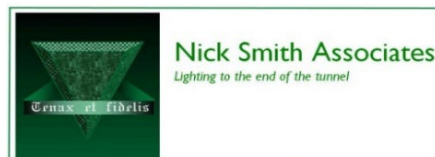
Lantern MF:	0.92
Lamp MF:	0.90
Project MF:	0.83

Column and Sign Supply Data

1. All columns are to be supplied by DNO supply

Prepared by:	N Smith	Date:	21/03/2025	Checked by:	N Smith	Date:	21/03/2025
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Lighting Class Criteria Form: NSA 116



Project Data			
Project Name:		Leicester Road, Earl Shilton	
Project Number:		3125	Revision: -
Local Authority:		Leicestershire County Council	
Client:		Vistry Homes	

Lighting Class Derived from Table A5 (≤ 30 mph)

Traffic flow	Lighting class		
	Ambient luminance		
	Pedestrian and cyclists only	Speed limit $v \leq 30$ mph	Speed limit $v \leq 30$ mph
	E1 to E4	very low (E1) & Low (E2)	moderate (E3) & High (E4)
Busy ^{A)}	P5	P4	P3
Normal ^{B)}	P5	P5	P4
Quiet ^{C)}	P6	P5	P4

Notes

Chosen Lighting Levels

Class	Eave	Emin	Eave max
P4	5.00	1.00	7.50

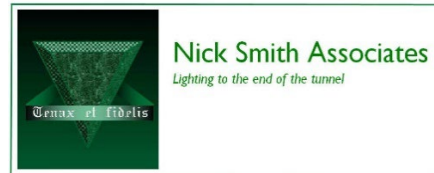
A) Busy traffic flow refers to areas where the traffic usage is high and can be associated with local amenities such as clubs, shopping facilities, public houses, etc.

B) Normal traffic flow refers to areas where the traffic usage is of a level equivalent to a housing estate access road.

C) Quiet traffic flow refers to areas where the traffic usage is of a level equivalent to a residential road and mainly associated with the adjacent properties or properties on other equivalent roads accessed from this road.

Prepared by:	N Smith	Date:	21/03/2025	Checked by:	N Smith	Date:	21/03/2025
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Design Criteria Form: NSA 105



Road 1,2 & 3

Project Data

Project Name:	Leicester Road, Earl Shilton		
Project Number:	3125	Revision:	-
Local Authority:	Leicestershire County Council		
Client:	Vistry Homes		

Design Standard:

BS5489:2020		Class	P4
		Environmental Zone	E3
		Conflict Area	
Luminance		Illuminance	
Ave Cd/m ²	-	E _{ave}	5
U _o	-	E _{min}	1
U _L	-	E _{Max Ave}	7.5

Lantern Data

Lantern Manufacturer	ASD Lighting	IP Rating	IP66
Lantern Name	Highway Diamond	Optic Setting	N2
Lantern Code	S2 HWD2-#3K16 700-M1-CLO Gen 5		

Column Data

Mounting Height	8 and 6 meters
Lantern Mounting	Post
Bracket fitted	No
Projection	0.4 meters
Inclination	0 degrees

Lamp Data

Wattage	34w
Lamp Type	LED

Maintenance Factor

Lantern MF:	0.92
Lamp MF:	0.90
Project MF:	0.83

Column and Sign Supply Data

1. All columns are to be supplied by DNO supply

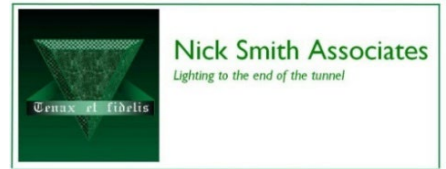
Prepared by:	N Smith	Date:	21/03/2025	Checked by:	N Smith	Date:	21/03/2025
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Bill of Quantities (NSA106-1300)

Leicester Road, Earl Shilton	Project Number	3125
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Section 278

Item No	Description	Qty	Unit	Cost	Total
	<u>Series 1300: Road Lighting Columns and Brackets</u>				
13.01	Proposed steel galvanised 10m column with post mounted TRT Lighting Aspect Gen 2 lantern (A64 GEN2 LED 129W CLO GR5 _Blue) G0 3000K FG) with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network	12	no		
13.02	Proposed steel galvanised 6m column with post mounted ASD Lighting Highway Diamond lantern (S1 HWD2-#3K12 500-N2-CLO Gen 5), with warm white LED, integral Dali driver without CLO, seven pins nema and five pins Telensa GPS enabled telecall for LCC NetworkLCC Network	2	no		
13.03	Take up or down and remove to tip road lighting column including lantern and bracket	1	no		
				Total	



Bill of Quantities (NSA106-1300)

Leicester Road, Earl Shilton	Project Number	3125
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Section 38

Item No	Description	Qty	Unit	Cost	Total
	<u>Series 1300: Road Lighting Columns and Brackets</u>				
13.04	Proposed steel galvanised 8m column with post mounted TRT Lighting Aspect Gen 2 lantern (A32 GEN2 LED 40W CLO GA2 (Yellow) G1 3000K_FG) with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network	1	no		
13.05	Proposed steel galvanised 8m column with post mounted ASD Lighting Highway Diamond lantern (S2 HWD2-#3K16 700-M1-CLO Gen 5 with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network	3	no		
13.06	Proposed steel galvanised 6m column with post mounted ASD Lighting Highway Diamond lantern (S2 HWD2-#3K16 700-M1-CLO Gen 5), with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell	18	no		
				Total	



Nick Smith Associates
Lighting to the end of the tunnel

Leicester Road, Earl Shilton	Project Number	3125
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[illegible]

Elaxon Codes (NSA 119)

Leicester Road, Earl Shilton	Project Number	3125
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Prepared by: N Smith	Date: 21/03/2025	Checked by: N Smith	Date: 21/03/2025	Revision	-
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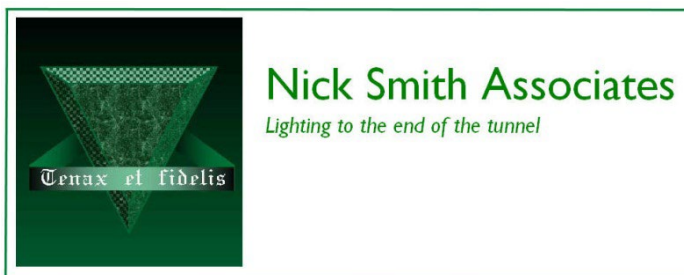
Item no	Description	Charge Code	Switch Regime	Wattage	Qty	Buring Hours	Notes
13.01	Proposed steel galvanised 10m column with post mounted TRT Lighting Aspect Gen 2 lantern (A64 GEN2 LED 129W CLO GR5 _Blue) G0 3000K FG) with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network	42 0129 0000 100	821	129w	12	4150	\$278 Column
13.02	Proposed steel galvanised 6m column with post mounted ASD Lighting Highway Diamond lantern (S1 HWD2-#3K12 500-N2-CLO Gen 5), with warm white LED, integral Dali driver without CLO, seven pins nema and five pins Telensa GPS enabled telecall for LCC NetworkLCC Network	42 0129 0000 100	821	19w	2	4150	\$278 Column
13.04	Proposed steel galvanised 8m column with post mounted TRT Lighting Aspect Gen 2 lantern (A32 GEN2 LED 40W CLO GA2 (Yellow) G1 3000K_FG) with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network	42 0050 0000 100	821	50w	1	4150	\$38 Column

Elxon Codes (NSA 119)

Leicester Road, Earl Shilton	Project Number	3125
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Prepared by: N Smith	Date: 21/03/2025	Checked by: N Smith	Date: 21/03/2025	Revision	-
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Item no	Description	Charge Code	Switch Regime	Wattage	Qty	Buring Hours	Notes
13.05	Proposed steel galvanised 8m column with post mounted ASD Lighting Highway Diamond lantern (S2 HWD2-#3K16 700-M1-CLO Gen 5 with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network	42 0034 0000 100	821	34w	3	4150	S38 Column
13.06	Proposed steel galvanised 6m column with post mounted ASD Lighting Highway Diamond lantern (S2 HWD2-#3K16 700-M1-CLO Gen 5), with warm white LED, integral Dali driver without CLO, 7 pin nema and 5 pin Telensa GPS enabled telecell	42 0034 0000 100	821	34w	18	4150	S38 Column



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