



Nick Smith Associates

Lighting to the end of the tunnel

Littlehampton Phase 6A & 6b

Design Summary

| | | | |
|-----------------|-------------------------------|-------------|------------|
| Client: | Persimmon Homes Thames Valley | Issue Date: | 15/12/2025 |
| Project Number: | 3145 | Revision: | Rev A |



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Lighting to the end of the tunnel

Document Issue Schedule: NSA 104

| | | |
|------------------------|-----------------------------|-------------------------------------|
| Project Name: | Littlehampton Phase 6A & 6b | |
| Project Number: | 3145 | Issue Date: 15 December 2025 |

| | | | | | | | | | |
|----|----|----|----|--|--|--|--|--|--|
| DD | 05 | 08 | 15 | | | | | | |
| MM | 12 | 12 | 12 | | | | | | |

Document Schedule

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

Drawing Schedule

| DWG Ref | Title | | | | | | |
|-----------|---|---|---|---|--|--|--|
| 3145-D-01 | Proposed Road Lighting and Illuminance Layout | * | | | | | |
| 3145-D-02 | Proposed Road Lighting and Illuminance Layout | * | | | | | |
| 3145-D-10 | Proposed Private Road Lighting and Illuminance Layout | * | A | A | | | |
| 3145-D-11 | Proposed Private Road Lighting and Illuminance Layout | * | A | A | | | |
| 3145-D-12 | Proposed Private Road Lighting and Illuminance Layout | * | A | A | | | |
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| | | | | | | | |

Issue Schedule

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

Nick Smith

Nick Smith



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Lighting to the end of the tunnel

Project file download links

IF YOU CAN NOT ACCESS THIS LINK due to IT dept limitation PLEASE RING US [REDACTED] OR DROP AND EMAIL TO [REDACTED] 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

Adopted road 8.8m & 9.8m



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Project Data

| | | | |
|------------------|-------------------------------|-----------|-------|
| Project Name: | Littlehampton Phase 6A & 6b | | |
| Project Number: | 3145 | Revision: | Rev A |
| Local Authority: | West Sussex Council | | |
| Client: | Persimmon Homes Thames Valley | | |

| | | | | |
|-----------------------|---|----------------------|------------------|-----|
| Design Standard: | | BS5489:2020 | Class | P5 |
| | | Environmental Zone | | E2 |
| Luminance | | Illuminance | Conflict Area | |
| Ave Cd/m ² | - | E _{ave} | E _{ave} | - |
| U ₀ | - | E _{min} | U ₀ | - |
| U _L | - | E _{Max Ave} | | 4.5 |

Lantern Data

| | | | |
|----------------------|---|---------------|------|
| Lantern Manufacturer | Philips | IP Rating | IP66 |
| Lantern Name | Luma Micro | Optic Setting | DM10 |
| Lantern Code | BGP702_DM10_2200_10LED_5.2S_CLO_L90_730 | | |

Column Data

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

Lamp Data

| | |
|-----------|-----|
| Wattage | 14w |
| 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: | 15/12/2025 | Checked by: | N Smith | Date: | 15/12/2025 |
|--------------|---------|-------|------------|-------------|---------|-------|------------|

Design Criteria Form: NSA 105

Adopted road 10.5m



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Project Data

| | | | |
|------------------|-------------------------------|-----------|-------|
| Project Name: | Littlehampton Phase 6A & 6b | | |
| Project Number: | 3145 | Revision: | Rev A |
| Local Authority: | West Sussex Council | | |
| Client: | Persimmon Homes Thames Valley | | |

| | | | |
|-----------------------|----------------------|--------------------|----|
| Design Standard: | BS5489:2020 | Class | P5 |
| | | Environmental Zone | E2 |
| Luminance | Illuminance | Conflict Area | |
| Ave Cd/m ² | E _{ave} | E _{ave} | - |
| U ₀ | E _{min} | U ₀ | - |
| U _L | E _{Max Ave} | | |

Lantern Data

| | | | |
|----------------------|---|---------------|------|
| Lantern Manufacturer | Philips | IP Rating | IP66 |
| Lantern Name | Luma Micro | Optic Setting | DW50 |
| Lantern Code | BGP702_DW50_2400_10LED_5.2S_CLO_L90_730 | | |

Column Data

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

Lamp Data

| | |
|-----------|-----|
| Wattage | 15w |
| 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: | 15/12/2025 | Checked by: | N Smith | Date: | 15/12/2025 |
|--------------|---------|-------|------------|-------------|---------|-------|------------|

Lighting Class Criteria Form: NSA 116



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Lighting to the end of the tunnel

Project Data

| | | | |
|------------------|-------------------------------|--|-----------------|
| Project Name: | Littlehampton Phase 6A & 6b | | |
| Project Number: | 3145 | | Revision: Rev A |
| Local Authority: | West Sussex Council | | |
| Client: | Persimmon Homes Thames Valley | | |

Lighting Class Derived from Table A5 ($\leq 30\text{mph}$)

| Traffic flow | Lighting class | | |
|----------------------|------------------------------|-------------------------------------|-------------------------------------|
| | Ambient luminance | | |
| | Pedestrian and cyclists only | Speed limit $v \leq 30 \text{ mph}$ | Speed limit $v \leq 30 \text{ mph}$ |
| | 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 |
|-------|------|------|----------|
| P5 | 3.00 | 0.60 | 4.50 |

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: 15/12/2025 | Checked by: N Smith | Date: 15/12/2025 |
|--------------|---------|------------------|---------------------|------------------|



Bill of Quantities (NSA106-1300)

Littlehampton Phase 6A & 6b Project Number 3145

Total

Form No. NSA 106

Issue Date:Aug 2004



Nick Smith Associates

Bill of Quantities (NSA106-1300)

Littlehampton Phase 6A & 6b Project Number 3145

| Item No | Description | Qty | Unit | Cost | Total |
|---------|--|-----|------|------|-------|
| | <u>Series 1300: Road Lighting Columns and Brackets</u> | | | | |
| 13.06 | Private steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DW50 2400 10LED 5.2S CLO L90 730 with warm white LED, integral driver 7 pin nema socket and 35 lux photocell set to switch on at 35 lux | 4 | no | | |
| 13.07 | Private steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DM10 2200 10LED 5.2S CLO L90 730 with warm white LED, integral driver 7 pin nema socket and 35 lux photocell set to switch on at 35 lux | 31 | no | | |
| 13.08 | Private steel galvanised mid hinged 6m column with post mounted Philips Luma Micro (BGP702 DN10 BL1 1400 6 LED 5.2S CLO L90 730 with warm white LED, integral driver 7 pin nema socket and 35 lux photocell set to switch on at 35 lux | 6 | no | | |
| | | | | | |
| | | | | | |
| | | | | | |

Total

Form No. NSA 106

Issue Date:Aug 2004



Nick Smith Associates

Bill of Quantities (NSA106-2700)

Littlehampton Phase 6A & 6b Project Number 3145



Elexon Codes (NSA 119)

| | | | | | | | |
|-----------------------------|--|--|--|----------------|--|--|------|
| Littlehampton Phase 6A & 6b | | | | Project Number | | | 3145 |
|-----------------------------|--|--|--|----------------|--|--|------|

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| Prepared by: | N Smith | Date: | 15/12/2025 | Checked by: | N Smith | Date: | 15/12/2025 | Revision | Rev A |
|--------------|---------|-------|------------|-------------|---------|-------|------------|----------|-------|

| Item no | Description | Charge Code | Switch Regime | Wattage | Qty | Buring Hours | Notes |
|---------|--|------------------|---------------|---------|-----|--------------|-------|
| 13.01 | Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DW50 2400 10LED 5.2S CLO L90 730 with warm white LED, integral driver 6 pin nema socket and mayflower GPS DALI node15 | 42 0015 0000 100 | 821 | 15w | 15 | 4154 hours | |
| 13.02 | Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DM10 2000 10LED 5.2S CLO L90 730 with warm white LED, integral driver 6 pin nema socket and mayflower GPS DALI node | 42 0014 0000 100 | 821 | | 34 | 4154 hours | |
| 13.03 | Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DM10 BL1 2200 10LED 5.2S CLO L90 730 with white LED, Philips BL1 back shield, integral driver 6 pin nema socket and mayflower GPS DALI node | 42 0015 0000 100 | 821 | | 9 | 4154 hours | |



Elexon Codes (NSA 119)

| | | | | | | |
|-----------------------------|--|--|--|---------------------|--|--|
| Littlehampton Phase 6A & 6b | | | | Project Number 3145 | | |
|-----------------------------|--|--|--|---------------------|--|--|

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| Prepared by: | N Smith | Date: | 15/12/2025 | Checked by: | N Smith | Date: | 15/12/2025 | Revision | Rev A |
|--------------|---------|-------|------------|-------------|---------|-------|------------|----------|-------|

| Item no | Description | Charge Code | Switch Regime | Wattage | Qty | Buring Hours | Notes |
|---------|--|------------------|---------------|---------|-----|--------------|-------|
| 13.04 | Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DM10 BL1 1400 6LED 5.2S CLO L90 730 with white LED, Philips BL1 back shield integral driver 6 pin nema socket and mayflower GPS DALI node | 42 0010 0000 100 | 821 | 10w | 2 | 4154 hours | |
| 13.05 | Proposed steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DM10 BL1 1400 6LED 5.2S CLO L90 730 with white LED, integral driver 6 pin nema socket and mayflower GPS DALI node | 42 0010 0000 100 | 821 | 10w | 10 | 4154 hours | |
| 13.06 | Private steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DW50 2400 10LED 5.2S CLO L90 730 with warm white LED, integral driver 7 pin nema socket and 35 lux photocell set to switch on at 35 lux | 42 0015 0000 100 | 808 | 15w | 4 | 4107 hours | |

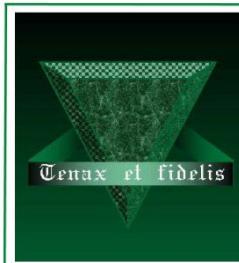


Elexon Codes (NSA 119)

| | | | | | | |
|-----------------------------|--|--|--|---------------------|--|--|
| Littlehampton Phase 6A & 6b | | | | Project Number 3145 | | |
|-----------------------------|--|--|--|---------------------|--|--|

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| Prepared by: | N Smith | Date: | 15/12/2025 | Checked by: | N Smith | Date: | 15/12/2025 | Revision | Rev A |
|--------------|---------|-------|------------|-------------|---------|-------|------------|----------|-------|

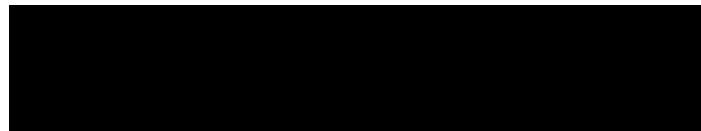
| Item no | Description | Charge Code | Switch Regime | Wattage | Qty | Buring Hours | Notes |
|---------|--|------------------|---------------|---------|-----|--------------|-------|
| 13.07 | Private steel galvanised 6m column with post mounted Philips Luma Micro (BGP702 DM10 2200 10LED 5.2S CLO L90 730 with warm white LED, integral driver 7 pin nema socket and 35 lux photocell set to switch on at 35 lux | 42 0015 0000 100 | 808 | 15w | 31 | 4107 hours | |
| 13.08 | Private steel galvanised mid hinged 6m column with post mounted Philips Luma Micro (BGP702 DN10 BL1 1400 6 LED 5.2S CLO L90 730 with warm white LED, integral driver 7 pin nema socket and 35 lux photocell set to switch on at 35 lux | 42 0010 0000 100 | 808 | 10w | 6 | 4107 hours | |



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