



BCP (Havant) LLP
c/o Barwood Capital

Planning Application
For Development at
Stanbridge Road
Havant
PO9 2NG

External Lighting Assessment

Planning Application PL1

Three Unit Scheme



Stanbridge Way, Havant
External Lighting Assessment - Planning Application – Three Unit Scheme

Client Name: BCP (Havant) LLP

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Property: Stanbridge Way
Havant
Hampshire
PO9 2NG

Project Reference: 3696

Issue: Planning Submission PL1 - Three Unit Scheme

Date: July 2016

Prepared by: PdJ

Checked by: RNI

Validated by: RNI



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Drawing No. 3696/E/102 – Site Wide External Lighting Design Criteria



1.00 INTRODUCTION

The purpose of this document is to summarise the intended external lighting to be provided to the industrial unit development site known as Stanbridge Road, Havant, Hampshire, PO9 2NT on behalf of BCP (Havant) LLP c/o Barwood Capital.



2.00 EXTERNAL LIGHTING

The external lighting scheme for the development has been sub-divided into the following usage areas:

1. Car park
2. Roadway
3. Service yard

The separate usage areas are indicated on drawing number 3696/E/102 contained in the appendix and have the following external lighting design criteria, the lux levels quoted are at roadway surface level.

Car park, circulation, pavements	10 lux average 5 lux minimum
Roadway	10 lux average 5 lux minimum
Railway	Less than 2 lux
Service Yard	25 lux average 40% uniformity
Delivery Area (8 meter area in front of loading bay doors)	25 lux minimum
Cycle Rack	5 lux average 25% uniformity

The proposed external lighting scheme, based on the above criteria, is indicated on drawing number 3696/E/103 contained in the appendix. The scheme consists of building and column mounted LED luminaires.

The following conclusions can be drawn from the illuminance levels indicated on drawing number 3696/E/103:

1. Based on the lux levels plotted on the attached drawing the average illuminance values meet the design criteria. Due to limited space where luminaires can be located the illuminance values in certain areas of the service yards and car parks exceed minimum requirements in order to achieve overall required average illuminance level.
2. The column mounted floodlights are located at the perimeter of the yards to minimise light spill to the surrounding areas. The proposed lighting assessment does not take into consideration the trees planted alongside the perimeter of the development. Therefore the light spill into this area will be further reduced below the values shown on the drawing.
3. As the operational requirements of the service yard dictate the location of the lighting columns and the applicant's requirement to reduce lighting energy consumption by using LED luminaires the lighting levels in the railway line area have been minimised.
4. The 10 lux illuminance level isoline generally follows the boundary of the car parks and service yards.
5. The 5 lux illuminance level isoline generally follows the same principles as the 10 lux isoline.
6. The 1 lux illuminance level isoline is generally a few meters away from the site boundaries

The proposed luminaire's details are stated on drawing number 3696/E/103.



APPENDICES

Drawing No. 3696/E/103 – Site Wide External Lighting Layout Rev. PL1

Drawing No. 3696/E/102 – Site Wide External Lighting Design Criteria

NOTES:-

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND LEGEND DRAWING.
2. DO NOT SCALE FROM THIS DRAWING.
3. DELIVERY ZONE LIGHTING TO BE CONTROLLED MANUALLY VIA WALL SWITCHES WHEN REQUIRED.

LEGEND:-

- SERVICE YARD
25 LUX AVERAGE AT 40% UNIFORMITY
- CAR PARK, CIRCULATION, ROADS, PAVEMENTS
10 LUX AVERAGE
5 LUX MINIMUM
- CYCLE RACKS
5 LUX AVERAGE AT 25% UNIFORMITY
- RAILWAY LINE
LESS THEN 2 LUX AVERAGE
- DELIVERY ZONE 25 LUX MINIMUM



Ref.	Revision	Date
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PLANNING



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Client
BCP (HAVANT) LLP

Project
**VELOCITY
STANBRIDGE ROAD
HAVANT**

Title
**THREE UNIT SCHEME
EXTERNAL LIGHTING CRITERIA**

Date	JUNE 2016	Scale of A1	1:500
Drawn By	POJ	Issued/Rev	
Checked		Revision	

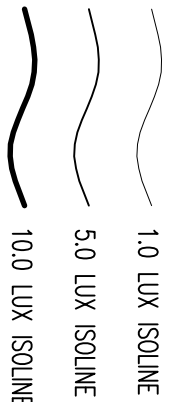
Drawing Number
3696/E/102

PL

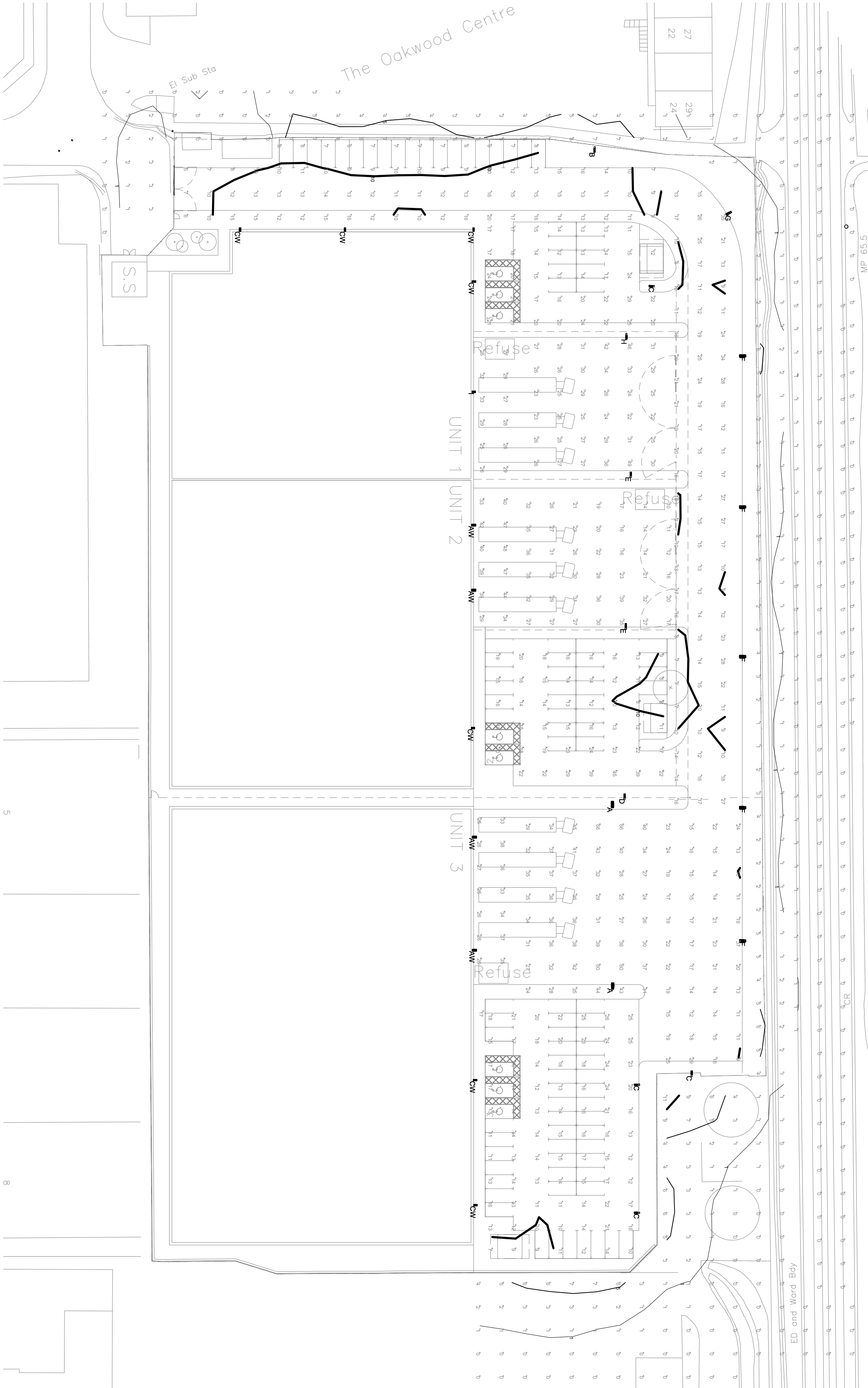
NOTES:-

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND LEGEND DRAWING.
- 2. DO NOT SCALE FROM THIS DRAWING.

LEGEND:-



LIGHTING SCHEDULE				
Symbol	Unit	Quantity	Unit Price	Total Price
1. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
2. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
3. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
4. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
5. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
6. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
7. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
8. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
9. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
10. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
11. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
12. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
13. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
14. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
15. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
16. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
17. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
18. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
19. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
20. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
21. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
22. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
23. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
24. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
25. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
26. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
27. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
28. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
29. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
30. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
31. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
32. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
33. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
34. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
35. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
36. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
37. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
38. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
39. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
40. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
41. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
42. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
43. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
44. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
45. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
46. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
47. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
48. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
49. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
50. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
51. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
52. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
53. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
54. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
55. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
56. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
57. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
58. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
59. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
60. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
61. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
62. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
63. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
64. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
65. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
66. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
67. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
68. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
69. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
70. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
71. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
72. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
73. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
74. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
75. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
76. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
77. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
78. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
79. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
80. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
81. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
82. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
83. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
84. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
85. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
86. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
87. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
88. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00
89. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
90. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
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92. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
93. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
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98. 5.0 LUX ISOLINE	5.0 LUX ISOLINE	5.0	5.00	25.00
99. 10.0 LUX ISOLINE	10.0 LUX ISOLINE	10.0	10.00	100.00
100. 1.0 LUX ISOLINE	1.0 LUX ISOLINE	1.0	1.00	1.00



Rev.	Revision	Date
PL1	AMENDED TO SUIT NEW BACKGROUND.	JUL 2016

PLANNING



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Project
VELOCITY
STANBRIDGE ROAD
HAVANT

Title
THREE UNIT SCHEME
DESIGN INTENT
EXTERNAL LIGHTING LAYOUT

Date	Scale at A1
JUNE 2016	1:500
Drawn By	SB
Checked	Validated

Drawing Number	Revision
3696/E/103	PL1