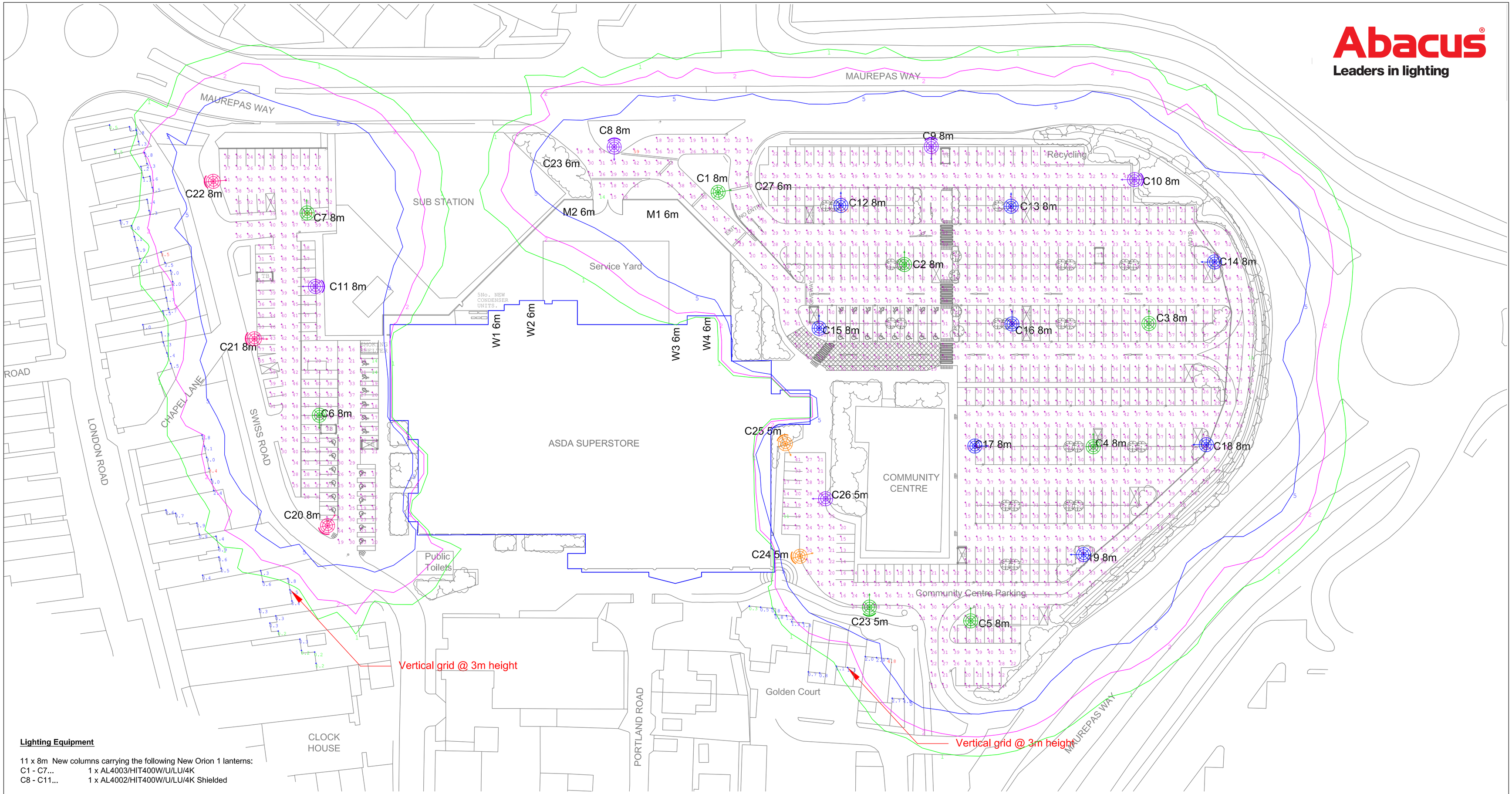
Abacus
Leaders in lighting



Lighting Equipment

11 x 8m New columns carrying the following New Orion 1 lanterns:
C1 - C7... 1 x AL4003/HIT400W/U/LU/4K
C8 - C11... 1 x AL4002/HIT400W/U/LU/4K Shielded

11 x 8m Existing columns in existing locations carrying the following New Orion 1 lanterns:
C12 - C19... 1 x AL4003/HIT400W/U/LU/4K
C20 - C22... 1 x AL4002/HIT400W/U/LU/4K Shielded

1 x 5m New columns carrying the following New Orion 2 lanterns:
C23 ... 1 x AL4102/HIT150W/U/LU/T38/4K Shielded

3 x 5m Existing columns in existing locations carrying the following New Orion 2 lanterns:
C26... 1 x AL4101/HIT150W/U/LU/T38/4K
C24 - C25... 1 x AL4102/HIT150W/U/LU/T38/4K Shielded

Lamps

HIT400W/U/LU/4K (36,000 Lm)
HIT150W/U/LU/4K (14,000 Lm)

Maintained Illuminance Levels

Main Car Park
Average Horizontal Illuminance (Eave): 32 lx
Minimum Illuminance (Emin): 9 lx
Uniformity (Emin/Eave): 0.28

Left hand side Car Park
Average Horizontal Illuminance (Eave): 34 lx
Minimum Illuminance (Emin): 12 lx
Uniformity (Emin/Eave): 0.36

Maintained Illuminance Levels

Access Road
Average Horizontal Illuminance (Eave): 27lx
Minimum Illuminance (Emin): 12 lx
Uniformity (Emin/Eave): 0.44

Grid intervals: 3m and 5m
Grid values in lux
Contour values are 5, 2 and 1 lx

Maintenance factor: 0.85
Location: medium pollution
Cleaning Intervals: 12 months

Notes:

1. Please check existing columns for suitability, structural integrity, positions, heights, if masts are matching current ASDA specification before placing an order.
2. Calculations are based on a flat and open area.
3. Calculations do not include shadowing effects from buildings, landscaping or foliage.
4. Customer accepted lower levels for services access road based that it wont be area for pedestrians.
5. Due to restrictions for columns locations and quantity minimum point on car park road is bellow current ASDA specification.
6. Initial lighting levels shown.

Notes:-
1) Luminaire Alignment:
Symbol Indicates the "reflector alignment axis" perpendicular to the flat face of the main reflector AND the position of the internal overspill shield (where fitted).

ISO9001 • ISO14001
OHSAS 18001

ABACUS LIGHTING LTD.
Sutton-in-Ashfield, Nottinghamshire
NG17 5FT England
Tel: (+44) 01623 511111
Fax: (+44) 01623 552133
Email: light@abacuslighting.com
Home page: www.lighting4sport.com

Lighting Project: ASDA Waterlooville

Title: Initial Horizontal & Vertical Illuminance Levels

Design Ref: LS19189_1	Revision(s) From Previous Design:
Design By: Laura Karaleviciute	
Date: 27.01.11	Scale: 1:500 @ A1

All Illuminance values are the result of computer calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.