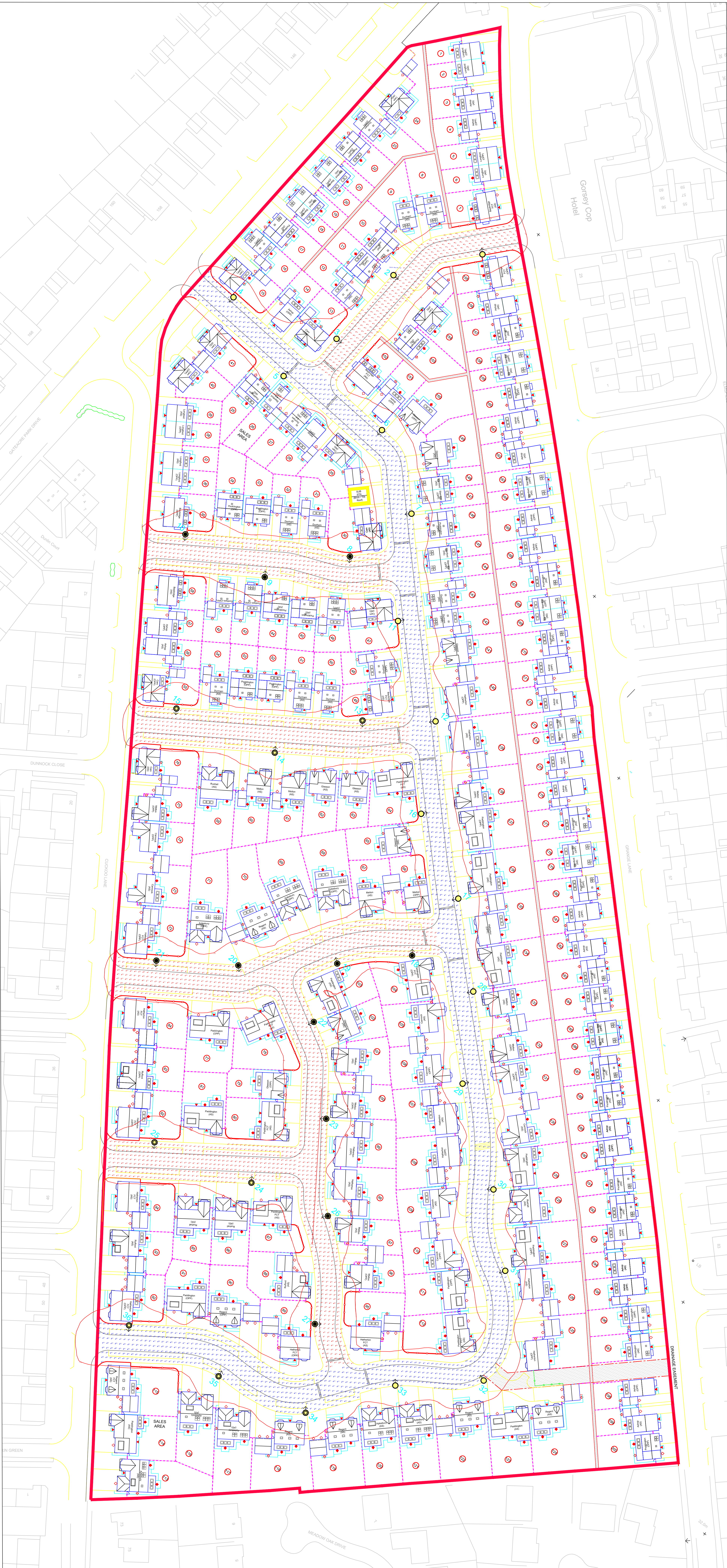
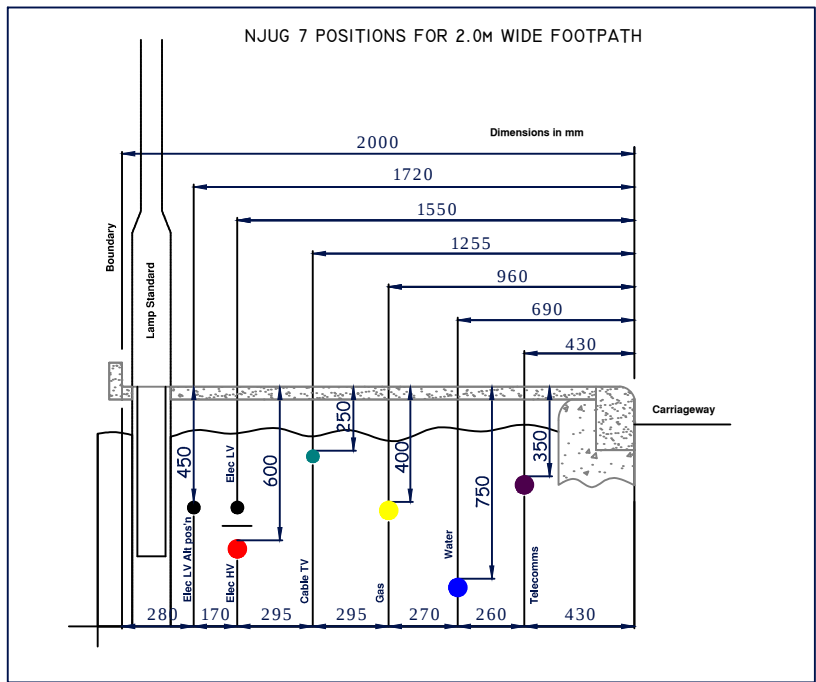
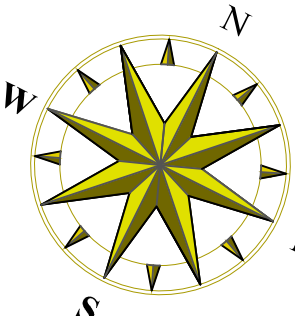




ELECTRIC KEY

HV 6.6KV EXISTING	
HV 6.6KV PROPOSED	
HV 6.6KV MADE LIVE	
HV 11KV EXISTING	
HV 11KV PROPOSED	
HV 11KV MADE LIVE	
LV EXISTING	
LV PROPOSED	
LV MADE LIVE	
SERVICE IN 38mm DUCT	
SERVICE IN 38mm DUCT MADE LIVE	
ROAD CROSSING DUCT	
LIGHTING COLUMN	
JOINT/BOTTLE END	
EARTH ROD	



Street Lighting Legend

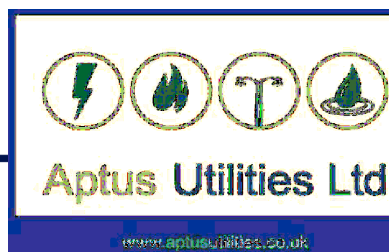
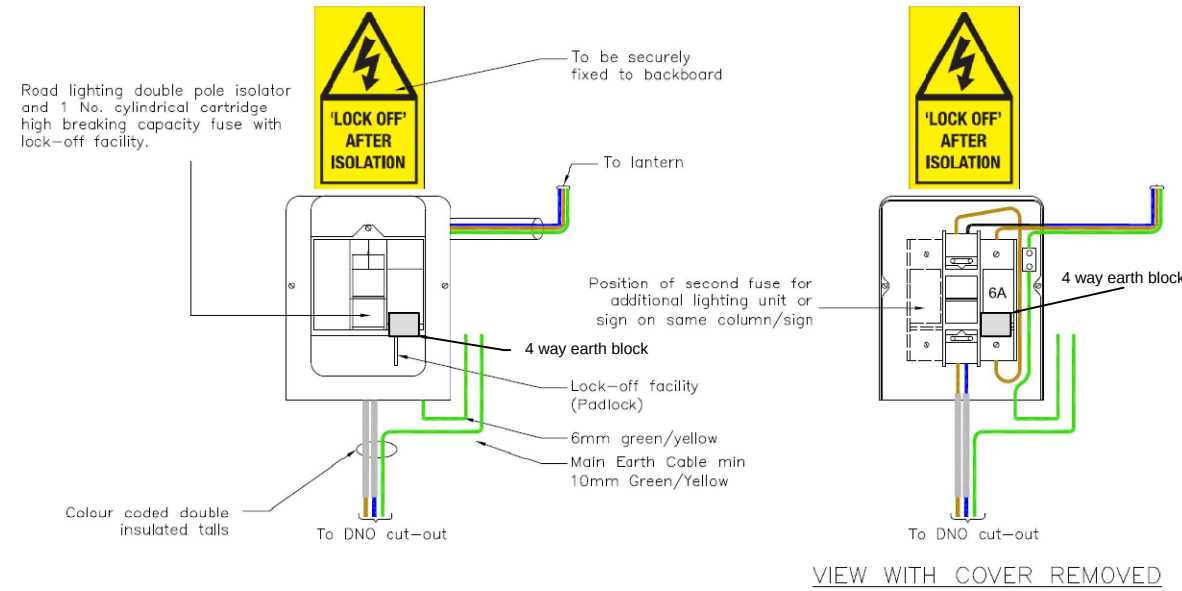
- Proposed Street Lighting Unit - 6m mounting height galvanneal tubular steel Column (Fabricat to Liverpool City Council Spec.), Philips Mini Luna Neutral White Luminaire with Philips DALI enabled Driver, Optic Setting - 12-30 DS-NW 1 R5 4.4km Post Mounted 0° tilt, Zedion S56 Photocell (S518) (17 no. units - Ref. 1-7111-22-26,17-29-33)
- Proposed Street Lighting Unit - 6m mounting height galvanneal tubular steel Column (Fabricat to Liverpool City Council Spec.), Philips Mini Luna Neutral White Luminaire with Philips DALI enabled Driver, Optic Setting - 12-30 DS-NW 1 R5 4.4km Post Mounted 0° tilt, Zedion S56 Photocell (S518) (11 no. units - Ref. 8-10-18-23,26-27)
- Proposed Street Lighting Unit - 6m mounting height galvanneal tubular steel Column (Fabricat to Liverpool City Council Spec.), Philips Mini Luna Neutral White Luminaire with Philips DALI enabled Driver, Optic Setting - 12-30 DS-NW 1 R5 4.4km Post Mounted 0° tilt, Zedion S56 Photocell (S518) (8 no. units - Ref. 13-15-24,25,34-36)

Illuminance Contour line - 1.18lux

Illuminance Calculation Grid Results

Grid 1 - Plot 8 - 12 Results - Horizontal Illuminance (lux) Emin= 1.09 Emax= 14.13 EmmEmin= 0.20 EmmEmax= 0.20	Grid 5 - Plot 85 - 87 Results - Horizontal Illuminance (lux) Emin= 1.26 Emax= 27.39 EmmEmin= 0.06 EmmEmax= 0.21
Grid 2 - Plot 31 - 34 Results - Horizontal Illuminance (lux) Emin= 1.19 Emax= 18.47 EmmEmin= 0.06 EmmEmax= 0.20	Grid 6 - Plot 96 - 103 Results - Horizontal Illuminance (lux) Emin= 1.30 Emax= 25.49 EmmEmin= 0.07 EmmEmax= 0.21
Grid 3 Plot 50 - 54 Results - Horizontal Illuminance (lux) Emin= 1.39 Emax= 22.37 EmmEmin= 0.06 EmmEmax= 0.20	Grid 7 - Plot 116 - 152 Results - Horizontal Illuminance (lux) Emin= 1.34 Emax= 22.33 EmmEmin= 0.06 EmmEmax= 0.23
Grid 4 - Plot 67 - 73 Results - Horizontal Illuminance (lux) Emin= 1.27 Emax= 18.48 EmmEmin= 0.07 EmmEmax= 0.22	

- Notes.
- Design factors -
Lighting Class - P3 (BS5489-1:2013 Annex A 3.3.1 Table A5)
Environmental Zone - E3
Crime Rate - Normal
Maintenance Factor - 0.74
SIP ratio of light source - 1.61
Ra - >60
 - All units to be provided with an individual DNO connection.
 - All Equipment to be supplied and installed in accordance with Liverpool City Council Specification.



DEVELOPMENT

Gateacre, Liverpool

DRAWING

Proposed Street Lighting Design

Developer: Countrywide Properties (UK) Ltd

Land Owner:

DRAWING NUMBER	APT/P/SL-1000-010-15-05	REVISION	-
CONTRACT NUMBER	DRAWN BY TP	SCALE	1:500 @ A0
	GRID REF.	DATE	12/03/2015

Revisions	Description	Date	By

Lighting Design By: OUTDOOR LIGHTING SOLUTIONS LTD - Tel: 01772 616188

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