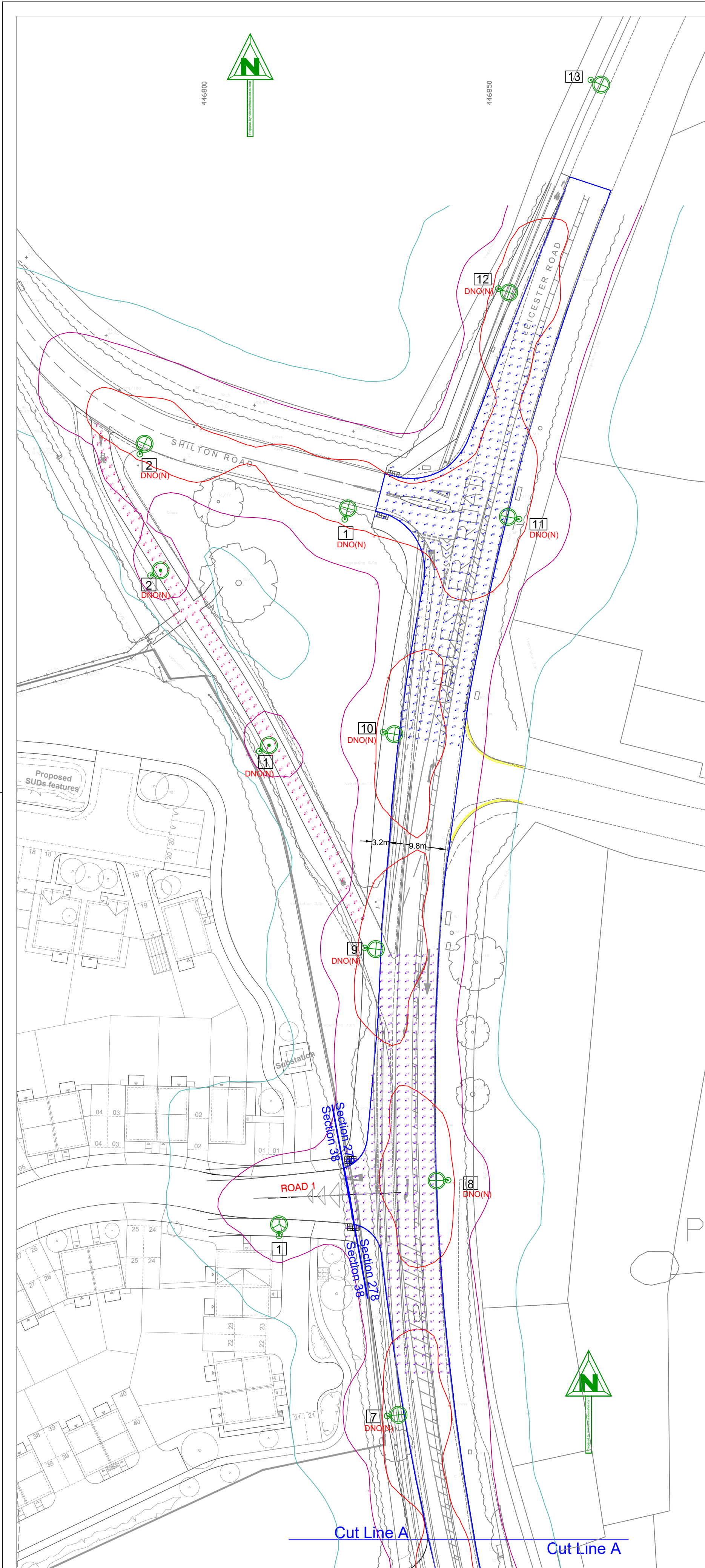




Site Junction
Results - Horizontal Illuminance (lux)
Eav= 16.93
Emin= 7.28
Emax= 47.62
Emin/Emax= 0.15
Emin/Eav= 0.43
Emax/Eav= 2.81

Shilton Road Junction
Results - Horizontal Illuminance (lux)
Eav= 19.43
Emin= 8.84
Emax= 52.39
Emin/Emax= 0.17
Emin/Eav= 0.46
Emax/Eav= 2.70

Cyclepath
Results - Horizontal Illuminance (lux)
Eav= 5.11
Emin= 1.17
Emax= 18.33
Emin/Emax= 0.06
Emin/Eav= 0.23
Emax/Eav= 3.59

Comparable Level of Lighting Classes from EN13201-2:2015									
M Class	M1	M2	M3	M4	M5	M6	M7	M8	M9
C Class	C0	C1	C2	C3	C4	C5	C6	C7	C8
P Class	P0	P1	P2	P3	P4	P5	P6	P7	P8

Summary of Lighting P Classes from EN13201-2:2015				
Class	Eave	E Min	E Ave	Max
P0	0.00 lux	0.00 lux	0.00 lux	0.00 lux
P1	0.00 lux	0.00 lux	0.00 lux	0.00 lux
P2	0.00 lux	0.00 lux	0.00 lux	0.00 lux
P3	0.00 lux	0.00 lux	0.00 lux	0.00 lux
P4	5.00 lux	1.00 lux	7.50 lux	15.00 lux
P5	10.00 lux	2.00 lux	15.00 lux	30.00 lux
P6	15.00 lux	3.00 lux	22.50 lux	45.00 lux

Summary of Lighting C Classes from EN13201-2:2015		
Class	Eave	Uo
C0	0.00 lux	0%
C1	0.00 lux	0%
C2	0.00 lux	0%
C3	15 lux	40%
C4	30 lux	80%
C5	45 lux	100%

Leicester Road

COL. NO.	X	Y	Dimmed Level	Post adopt Dimmed Level
4	446868.49	298293.53	100%	100%
5	446848.39	298322.82	100%	100%
6	446839.43	298358.45	100%	100%
7	446831.71	298395.20	100%	100%
8	446842.41	298436.50	100%	100%
9	446827.74	298477.21	100%	100%
e4	446867.53	298293.28	100%	100%
10	446831.00	298515.00	100%	100%
11	446854.85	298552.33	100%	100%
12	446851.22	298592.72	100%	100%
13	446867.42	298629.28	100%	100%

Shilton Road

COL. NO.	X	Y	Dimmed Level	Post adopt Dimmed Level
1	446824.28	298552.29	100%	100%
2	446788.34	298563.72	100%	100%

Cyclepath link

COL. NO.	X	Y	Dimmed Level	Post adopt Dimmed Level
1	446809.28	298511.67	60%	60%
2	446790.21	298542.43	60%	60%

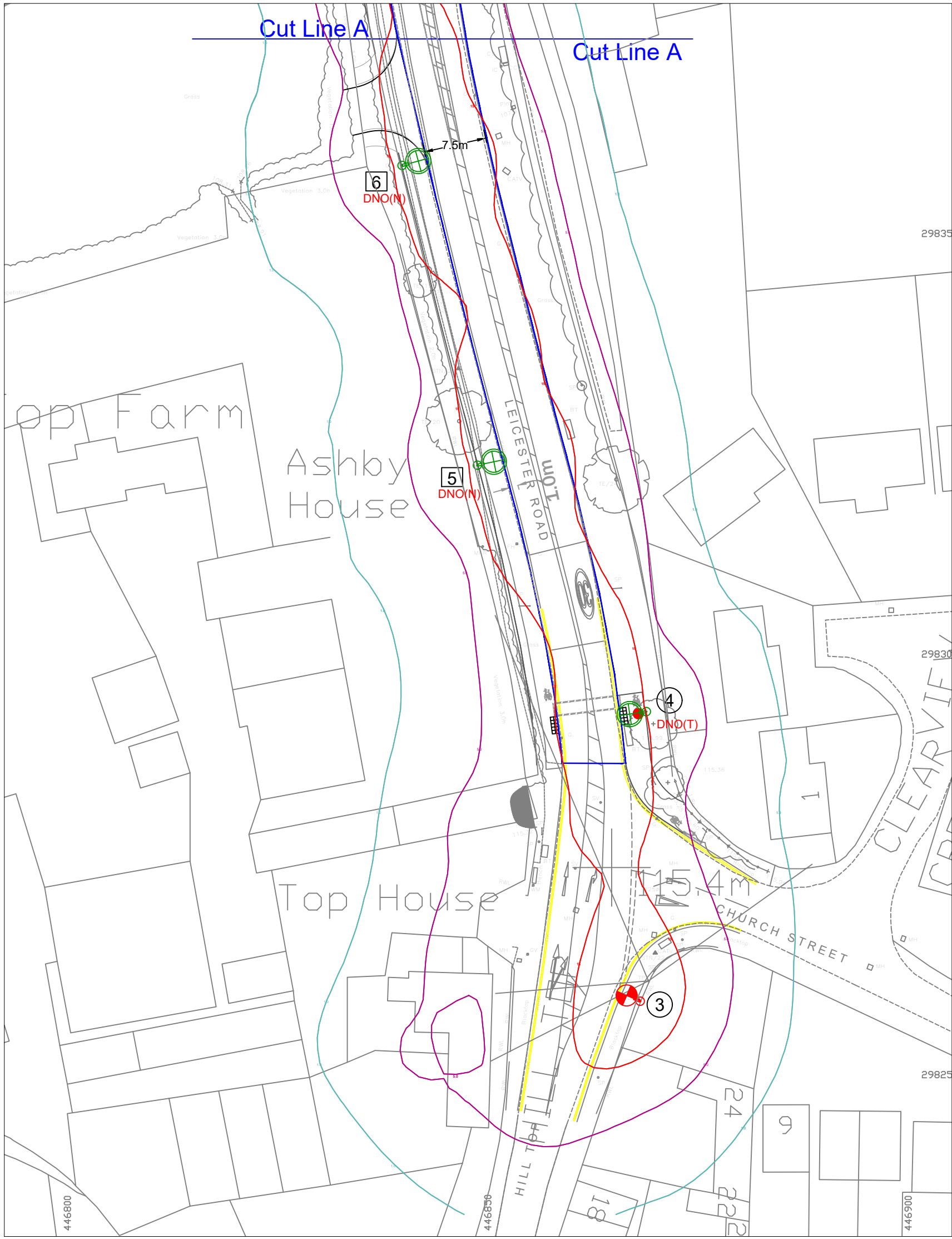
Key

- Existing 10m column with Urbis Ampera to be disconnected and removed to tip
- Existing 10m column with Urbis Ampera (T5) to remain
- 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
- 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
- Proposed steel galvanised 6m mid hinged 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, 7 pin nema and 5 pin Telensa GPS enabled telecell for LCC Network
- Column number
Numbering shall use a 16 gauge aluminium plate attached to the column with nylon ties 50mm numbers . See drawing SD/12/36, sign plate design based upon product supplied by : Nuneaton Signs, Kelsey Close, Attleborough Industrial Estate, Nuneaton, Warwickshire CV11 6RS

- 15.00 lux iso-contour line
- 5.00 lux iso-contour line
- 1.00 lux iso-contour line
- DNO(N) New DNO supply
- DNO(T) Transfer DNO supply

Notes

- All column and signs in the verge or footway are to be serviced via Direct connection by Eon (unless shown otherwise). Signs and Columns shall be fitted with secondary isolation above the DNO cut out. The Unit shall be as Leicestershire County Council specification i.e. Charles Lighting L501. Fuse discrimination shall comply with BS7671 between the DNO cut out (16A) and the secondary isolation or private cable cut out (6A).
- All adopted Lighting column shall be installed within the adopted highway, i.e at the back of footpath but inside the back edging kerb. See standard drawing SD13-11.
- Where there are known services in the vicinity of excavations the Contractor shall ensure hand digging is carried out with care. The Contractor shall arrange for statutory undertakers plant to be marked on site prior to excavations with mechanical excavators.
- In this instance the use of 3 dimensional masking has not been used to take into consideration the actual position of high sided objects such as buildings and the like. Trees and shrubs etc have not been considered as their masking ability will vary with seasonal conditions.
- Iso contours produced in this drawing have been created using a conventional symmetrical grid. This does not take into account the spacing or weightings as detailed in BS5489 or BS EN 13201-3:2015.
- Copies of the original lighting reality calculations available upon request please send a email to mail@nicksmithassociates.com quoting the project number.
- Equipment shown on this drawing is available through most specialist street lighting electrical distributors like Electrical Lighting Solutions (www.elstd.co.uk), Marwood Electrical (www.marwoodelectrical.co.uk) or Maclean Electrical (www.macleanelectrical.co.uk)
- This design has been prepared in accordance with BS5489-1:2020.
- Leicestershire County Council have apply a part night policy and may determined some columns to be have part night lighting. Part night switching to be applied using the Telensa CMS.
- Lanterns shall be pre programmed to dim to the output via the driver prior to adoption. See table for exact details
- All material and construction shall be in accordance with the Leicestershire CC highway design guide column specification. For column to drawing detail and specification see LCC drawing SD13/3.
- Earthing arrangements for lighting units shall include a 6mm² cross sectional area conductor bonding steel columns/integral base compartment posts/housings to the main earthing terminal associated with the service cut out. A flexible conductor of the same cross sectional area shall be used to bond the doors of such compartments and shall be of sufficient length to allow placement of door on ground without tension.
- Column installation depth to be checked to manufacturers installation instructions and LCC standard drawing detail and specification, 600mm to to door bottom.



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