

1. Column foundations to be as per SD/14/2A
2. All columns to be provided with Distribution Network Operator (D.N.O.) Services and Termination Type A (LCC standard) DNO connections. The DNO service specified DNO Cutsouts to be fitted with 16AMP BS88 Fuse Link. Double Pole Isolator to be fitted with BS 88 Fuse Link to LCC Appendix 14/4.
3. Column outcrops shall comply with Table 2 Section 3.3 of BS 5488-1:2013
4. Columns shall not be installed within Drop Kerb areas and shall have a minimum clearance of 1.5m from Drives/Accesses.
5. It is preferred that all Street Lighting works are undertaken by L.C.C Approved Contractors.
6. Lanterns to be cleaned and re-lamped (during maintenance period) prior to adoption as detailed in S38 Agreement unless the specification is for LED lanterns which will not require relamping.
7. Developer to liaise with Distribution Network Operator (D.N.O.) with regards to connections and disconnections of columns and appropriate back ducting. Where an independent D.N.O. (I.D.N.O.) has been used the CUTOUT must be clearly and indelibly marked with the I.D.N.O. name and contact number.
8. It is the Developers responsibility to inform property owners of any night street lighting switching where applicable.
9. Due to ongoing technical innovations within the industry, if the street lighting equipment is to be ordered in excess of three years after the drawing is issued, the client shall reserve the right to upgrade the equipment specification.
10. Lighting has been designed to comply with BS5488-1:2013 lighting class P4 (access roads) and P5 (all other roads)
11. See drawing 1738/LTG/5000 for S278 Street Lighting details.

1003A - 2 x 600mm Mark, 300mm Gap, 200mm Wide, 300mm Apart
1004 - 4m Mark, 2m Gap, 100mm Wide
1009A - 600mm Mark, 300mm Gap, 100mm Wide
1023A - 3750 Long x 1250 Wide, Give way Triangle

NB: All markings are to be in accordance with the Traffic Signs Regulations and General Directions 2016.

PN Proposed 8 metre galvanised tubular steel lighting column c/w root protection to G1a (LCC) spec. Column to have vertically mounted TRT Aspect Eco 2 24LED WW (3000K) 44W General Road 4 (GR4) lens lantern c/w SELC 8480 35 lux **PART NIGHT** photocell (OFF 0000-0600). Lantern to be installed at 0° tilt.

Construct Chart 1 - No Pervious needs up to 0.25 mda (Normal Flexible Construction) Lincolnshire County Council Development Road Specification and Construction Document						
Sub-grade (mm)	Sub-base (mm)		Surfacing (mm)		Total thickness required (mm)	
Design CBR	Without gravel	With gravel	Brick Course	Surface Course	Without gravel	With gravel
< 15% & soft spots						
15%	Not suitable	710	130	40	Not suitable	880
2%	Not suitable	440	130	40	Not suitable	610
3%	400	300	130	40	570	470
4%	310	300	130	40	480	470
5%	300	300	130	40	470	470
6 - 15%	300	300	130	40	470	470
> 15%	300	300	130	40	470	470

Sub-grade (mm)	Sub-base (mm)		Surfacing (mm)		Total thickness required (mm)	
Desired CBR	Without geotexte	With geotexte	Binder Course	Surface Course	Without geotexte	With geotexte
< 1% (5 to 8 spots)	Not suitable	710	180	40	Not suitable	930
1%	Not suitable	440	180	40	Not suitable	660
2%	400	400	180	40	620	620
3%	310	300	180	40	530	520
4%	260	260	180	40	480	480
5%	230	230	180	40	450	450
6 - 15%	230	230	180	40	450	450
> 15%	230	230	180	40	450	450

In accordance with Lincolnshire County Council Development Road Specification and

- Surface course: 40mm - AC10 close surf 100/150 in accordance with BSEN13108 to class 7.3. The Surface Course must be approved by the Binder Course.
- Binder course: 100mm - AC20 dense bit 40/60 rec laid in a single layer to class 9.1 or composition of layers not less than 50mm not greater than 100mm in accordance with BSEN13108 assuming thermal laid prior to surfacing of 2nd stage construction - kerling laid at a later stage is used) then initial binder course layer to be 70mm and Total Binder Course thickness becomes 130mm in accordance with clause 1.1.17.
- Sub Base: 170mm Granular sub base material Type 1 to Class 8.1 of LCCORDS. This must be laid to the same GRV values (1.5% - see table Chart 1) as the Binder Course testing to be undertaken at 10% intervals on all 9 core materials at formation level to verify the design.
- A geotextile is to be provided to fold up the sides of the excavation (300mm top min)
- Tensar TriAx TXG geogrid with integral geomembrane laid to formation level. (Assuming CBXG at +1.5% or lower)

- Surface course: 40mm - AC10 dose surf 100/150 in accordance with BS EN13108 to class 7.3. The surface course should be bound to the Binder Course.
- Binder course: 130mm - AC20 dense bind 40/60 rec laid in a single layer to class 10.0. The binder course is to be laid on the 150mm sub base. The 130mm binder course is in accordance with BS EN13108 assuming kerbing laid prior to surfacing (if two stage construction - kerbing laid at a later stage is used) then initial binder course layer to be 100mm thick. Full Binder Course thickness becomes 130mm in accordance with clause 1.1.1.7.
- Sub Base: 70mm Granular sub base material Type 1 to Clause 8.1 of LCDDRS.
- Thickness derived from site CBR values (+1.5% - see table Chart 1).
- CBR at all locations to be determined on 100mm intervals on all road centres/lines at minimum to verify the design.
- A geotextile is to be provided to fold up the sides of the excavation (300mm lap minimum).
- Tensar T64 TXX GYGEO geogrid with integral geogrids laid at formation level.
- Tensar T64 TXX Geogrid at $\leq 1\%$ of lower level.

All Made ground must be removed.

Surface course: 25mm - AC6 dense surf 100/150 in accordance with BSEN13108 compacted to a void content within the range 2%-10%. To clause 9.4. The Surface Course must be bonded to the Binder Course.

Binder course: 100mm - AC20 dense bin rec 100/150 in accordance with BSEN13108 to clause 9.1.

Vehicle crossing

The Surface Course must be bonded to the Binder Course.

Binder course: 100mm - AC20 dense bin rec 100/150 in accordance with BSEN13108 to clause 9.1.

Groups

100mm Top Soil and Seed



D	15.01.21	JH	Footpath at entrance added to S38 extents to tie into adjacent site.	JMcK
C	05.03.19	ATF	Amended further to LCC comments & amended site layout	JMcK
B	18.07.18	ATF	Amended further to LCC comments	JMcK
A	06.04.18	ATF	Chainages amended	JMcK
REV	DATE	BY	DETAILS	CHKD

CLIENT	
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PROJECT

Development to south of
Hall Gate, Holbeach
Lincolnshire

TITLE	Section 1 S38 Layout
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DRAWING No: MA10602 - A - 604-1						DRAWING STATUS: PRELIMINARY					
A	B	C	D								

DATE	CHECKED	APPROVED BY
March 2018	JMcK	JMcK

