

Manhole: S38 Highway Drain								
MH Ref:	Cover Level	Invert Level	Depth to soffit	Pipe Dia	МН Туре	MH Size	MH Cover	
HD1	2.300	1.425	0.650	225	Type D	900x675	D400	
HD2	2.450	1.320	0.905	225	Type D	900x675	D400	
HD3	2.750	1.600	1.000	150	Type D	900x675	D400	

Pipeline: \$38 Highway Drain								
Pipe Ref:	Upstream IL	Downstream IL	Pipe Dia	Distance	Pipe Gradient 1:X	Pipe Gradient %	Pipe Material	
1.000	1.425	1.320	225	25.674	244.5	0.41%	Clayware	
1.001	1.320	1.300	225	5.000	250.0	0.40%	Clayware	
2.000	1.600	1.312	150	15.000	52.1	1.92%	Clayware	

S38 Street Lighting Notes

- Column foundations to be as per SD/14/2A
 All columns to be provided with Distribution Network
 Operator (D.N.O.) Services and Termination Type A to
 LCC Standard Detail SD/14/4A unless otherwise
 specified. DNO Cutouts to be fitted with 16Amp BS88
 Fuse Link. Double Pole Isolator to be fitted with
- BS 88 Fuse Link to L.C.C Appendix 14/4.

 3. Columns to be installed with doors at an angle to ensure operatives working on the column are facing oncoming traffic, unless otherwise agreed with LCC.
- Section 4.3.3.3 of BS 5489-1:2013.

 Columns shall not be installed within Drop Kerb areas and shall have a minimum clearance of 1.5m from

Column setbacks shall comply with Table 2

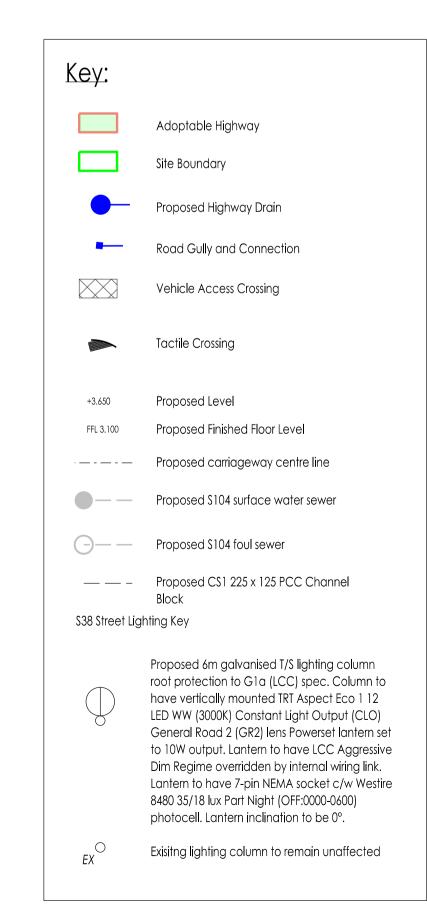
- and shall have a minimum clearance of 1.5m from
 Drives/Accesses.

 Trees must not be planted within 5 metres of
- Trees must not be planted within 5 metres of proposed lighting columns.
- 7. It is preferred that all Street Lighting works are undertaken by L.C.C Approved Contractors.
- 8. Lanterns to be cleaned (during Contractors.8. Lanterns to be cleaned (during maintenance period)
- prior to adoption as detailed in \$38 Agreement.

 9. Developer to liaise with Distribution Network Operator (D.N.O.) with regards to connections and disconnections of columns and appropriate black 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.

 10. It is the Developers responsibility to inform property owners of part night street lighting switching where applicable.
- 11. All private cabling shall have correct core colour identification as detailed in BS7671. Sleeving of
- conductors is not permitted.

 12. 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 approval date, the Authority reserves the right to upgrade the equipment specification.
- 13. Lighting has been designed to comply with BS5489-1:2013 Lighting Class P5.



William Saunders is the trading name of Wm Saunders Partnership LLP. Wm Saunders Partnership Limited Liability Partnership is registered in England and Wales with the Registration number OC 308323. The Registered Office is Sheppard Lockton House, Cafferata Way, Newark on Trent, Notts. NG24 2TN.

This drawing & any design thereon is the copyright of Wm Saunders Partnership LLP and must not be reproduced without their written consent.

Contractors must verify all dimensions, levels and co-ordinates at the site before commencing any work or making any shop drawings: no dimensions to be taken from drawing.

ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF LINCOLNSHIRE COUNTY COUNCILS DEVELOPMENT ROAD AND SUSTAINABLE DRAINAGE DESIGN GUIDE AND DEVELOPMENT ROAD AND SUSTAINABLE DRAINAGE SPECIFICATION AND CONSTRUCTION.

Notes:

1) "The specification in all respects shall be in accordance with the current Lincolnshire Development Road and Sustainable Drainage Design Guide" and "Development Road and Sustainable Drainage Specification and Construction" publications in force in the county at the time of construction.

2) The minimum longitudinal fall for highways, without channel blocks shall be 1 in 150, and with channel blocks 1 in 250 (see Clause 10.1).

3) In addition, ensure that the first section of any side road falls away from the road to which it is connecting. If general topography requires it to rise, this change of direction should take place after the first set of gullies. This is to ensure a 'false channel' with associated drainage problems is not created in the bellmouth of junctions.

4) "General deterioration of the existing highway/footway/verges created through construction of the new Section 38 Development will be reinstated to the current Development Road Specification at the developers' own cost at the agreement of the inspecting Highway and Flood Authority Officer".

5) "No Private surface water shall discharge onto the adoptable highway"

6) "No private, structural features shall overhang the adoptable highway".

7) "No private retaining walls exceeding 1.37m shall be within 3.66m of the highway boundary".

8) TREE PLANTING AND ROOT BARRIERS

Where trees are to be planted within 5m of footways or highways a root barrier is required between the tree root system and the highway structure. A propietary, high strength, photo and bio degradation resistant root barrier 2mm thick with a minimum width of 1.0m should be used. Where individual trees are to be planted in tree pits with highway or footways adjacent, the use of preformed root directors may be more appropriate.

P8	Background detail updated	PAE	PAE	23/10/20
P7	Tactile crossings added	PAE	PAE	07/09/20
P6	Easement changed to blue	JW	PAE	20/05/20
P5	Street lighting design added to layout	JW	PAE	20/04/20
P4	Revised to suit comments from LCC.	JW	PAE	30/03/20
P3	Revised to suit comments from LCC, levels (ch. 10 - 55 and 250 - 261.276) and PN 2.000 rev.	JW	PAE	28/02/20
P2	Proposed finished floor levels added	JW	PAE	20/02/20
P1	Initial issue	JW	PAE	14/02/20
Rev	Description	Drn	Vf'd	Date

As outlined in section 2.3 of the CITB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus:

No significant risks have been identified.

Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature JW Date 02/20

REGULATORY APPROVAL

willamsaunaers architecture: engineering: building consultance

architecture: engineering: building consultancy
Sheppard Lockton House Tel: 01636 704361

Cafferata Way
Newark-on-Trent
Nottinghamshire. NG24 2TN

Tel: 01636 704361 Fax: 01636 702809 W: wm-saunders.co.uk

Also at Leeds, Lincoln, Wirksworth

Project

Proposed Residential Development Land off Fenside Road, Boston

Clien

Seagate Homes (UK) Ltd

Title

S38 Layout

 Wms Project Ref.
 Drawn
 Date
 Scale

 12079
 JW
 02/2020
 1:500

Drawing/Document Reference

Project Originator Zone Level Type Role Number Status Rev. 12079 - WMS - ZZ - XX - DR - C - 39501 - S8 - P8