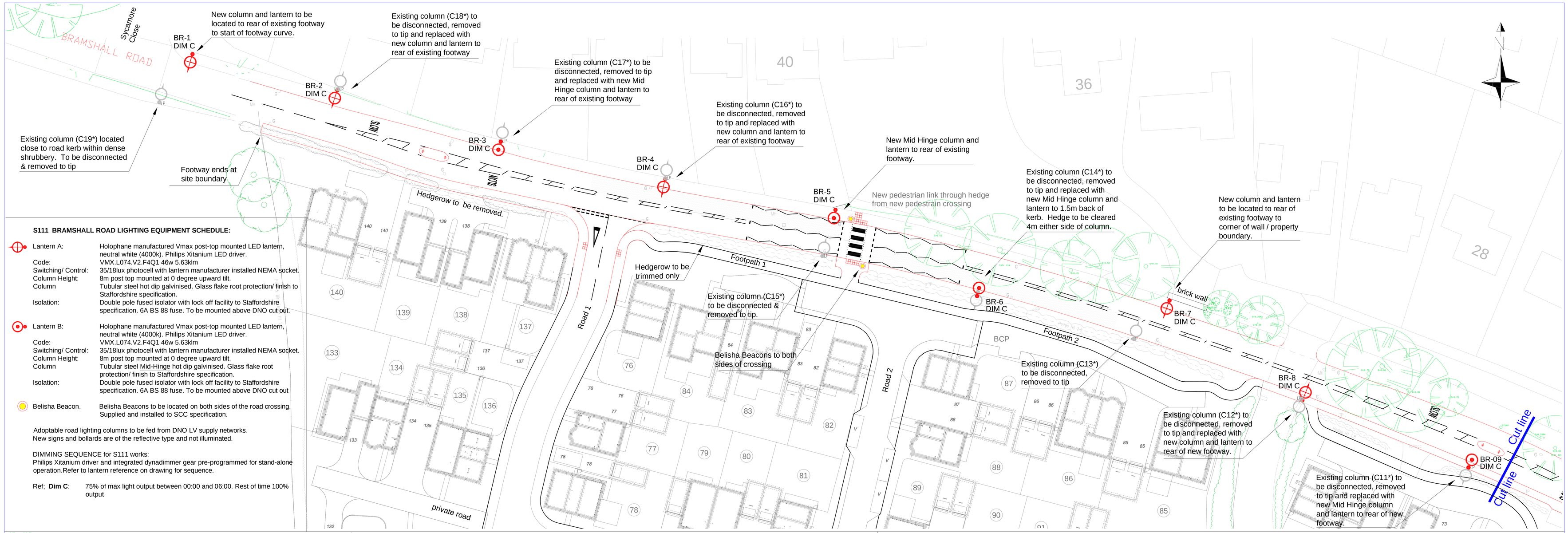


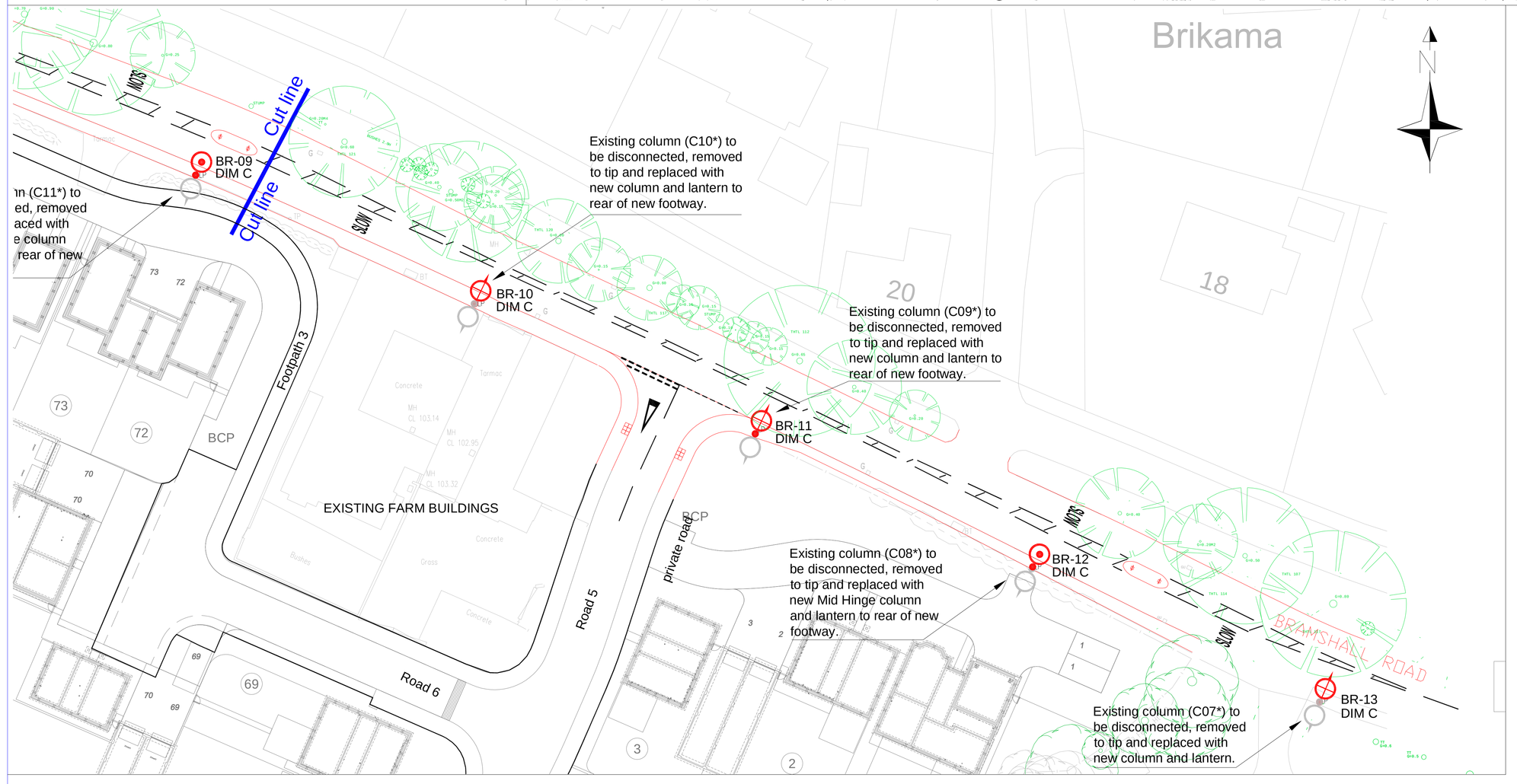
S111 BRAMSHALL ROAD LIGHTING EQUIPMENT SCHEDULE:

Lantern A:	Holophane manufactured Vmax post-top mounted LED lantern, neutral white (4000k). Philips Xitanium LED driver.
Code:	VMX.L074.V2.F4Q1 46w 5.63klm
Switching/ Control:	35/18lux photocell with lantern manufacturer installed NEMA socket.
Column Height:	8m post top mounted at 0 degree upward tilt.
Column	Tubular steel hot dip galvinised. Glass flake root protection/ finish to Staffordshire specification.
Isolation:	Double pole fused isolator with lock off facility to Staffordshire specification. 6A BS 88 fuse. To be mounted above DNO cut out.
Lantern B:	Holophane manufactured Vmax post-top mounted LED lantern, neutral white (4000k). Philips Xitanium LED driver.
Code:	VMX.L074.V2.F4Q1 46w 5.63klm
Switching/ Control:	35/18lux photocell with lantern manufacturer installed NEMA socket.
Column Height:	8m post top mounted at 0 degree upward tilt.
Column	Tubular steel Mid-Hinge hot dip galvinised. Glass flake root protection/ finish to Staffordshire specification.
Isolation:	Double pole fused isolator with lock off facility to Staffordshire specification. 6A BS 88 fuse. To be mounted above DNO cut out
Belisha Beacon.	Belisha Beacons to be located on both sides of the road crossing. Supplied and installed to SCC specification.

Adoptable road lighting columns to be fed from DNO LV supply networks.
New signs and bollards are of the reflective type and not illuminated.

DIMMING SEQUENCE for S111 works:
Philips Xitanium driver and integrated dynadimmer gear pre-programmed for stand-alone operation.Refer to lantern reference on drawing for sequence.

Ref; **Dim C**: 75% of max light output between 00:00 and 06:00. Rest of time 100% output



GENERAL LIGHTING SCHEME NOTES:

1. Any alterations to the positions of columns and associated equipment shown on this drawing must be referred to the designer to ensure compliance with lighting level requirements before installation.
2. Setting out should be conducted by a competent person. Before construction, Staffordshire Council should be notified for agreement / inspection if required. It is advised that Staffordshire Council and HEMSA approved contractors are to be commisioned to install lighting equipment.
3. Consideration must be given to orientation of each column door. Generally, where a column position is to back of footpath or verge, door to face road. Where a column is to front of path with verge to carriageway, door to face away from road. Further orientation guidance is contained within SLP501 which must be referred to.
   Ensure correct orientation of lanterns to road line as detailed within drawing.
4. New column numbering as detailed is for reference only. Identification numbering to be affixed to new columns as per existing sequence (C07 to C19) to SCC specification.
5. In order to avoid future maintenance issues, the planting of trees and shrubbery in the vicinity of street lighting equipment is to be avoided.
6. Columns are to be planted to the rear of footways. Where in soft ground, columns to be located to a minimum of 1.5m back of kerb (within grass / service strip).
7. Mid hinge columns should not require any equipment for operation. Care to be taken by contractor to orientate column to ensure safe raise lower without obstruction and for ease and safety of maintenance personel.
8. The contractor is responsible for placing all orders for disconnections and new connections for road lighting and illuminated signage (where DNO indicated/ required).
9. Existing road lighting equipment and levels must be maintained during works. New equipment must be installed and working before any disconnection and removal of existing equipment. Rermoved equipment to be sent to tip for re-cycling.

The design and installation of lighting and electrical equipment must fully comply with the current edition of E-on Street Lighting documents - "Street Lighting Design Policy" ref SLP500, "Specification for lighting and lit traffic signs on new developments" ref SLP501 and "Highway Works Detail drawings" ref SLP502. These documents are available and must be obtained and read by the appointed contractor.

S111 DESIGN METHODOLOGY AND NOTES:

1 Road lighting upgrade along Bramshall Road conforms to BS5489 lighting class CE5 (ME5 equivalent). Extents of upgrade in compliance with LA requirement.
2 New pedestrian crossing carpet illuminated to CE4 lighting class utilising a new column in close proximity to crossing.
3 Existing road lighting scheme for extents of Bramshall Road utilises 13x 8m height columns, complete with 100w luminaires. Proposed new lighting scheme utilises 13 new 8m height columns, complete with 46w luminaires.
4 Due to number of established trees / canopies and existing hedging which is to remain, safe locations for columns are limited. Where possible and to avoid issues with existing property occupiers, existing column locations are to be utilised. Where columns are located within 15m of refuge islands, mid hinge units are proposed.
   Hedge to be cleared 4m either side of mid hinge column.
   Hedge to be cleared 2m either side of standard column.
5 All new road signs and refuge island bollards are to be of the reflective type and NOT illuminated. As these are not illuminated, signage detail is not included on this drawing. Please refer to signage drawing for further detail.
6 For internal S38 new roads lighting design detail, refer to drawing HLS-579/2

* Some columns numbers on site were not visible or were obscured at the time of the site inspection. Accordingly, all numbers of existing columns to be checked against drawing location and with the Adopting Authority before commencement of works.

HEALTH AND SAFETY NOTE:
THIS DESIGN HAS BEEN COMPLETED WITH LIMITED REFERENCE TO UTILITY DETAILS. TO AVOID RISK / INJURY FROM UNDERGROUND AND OVERHEAD SERVICES, STATS INFORMATION SHOULD BE SOUGHT AND FULL SURVEYING CONDUCTED BEFORE EXCAVATION AND ERECTION WORKS COMMENCE.

DRAWING ISSUED AS APPROVED

13/03/17 Rev 0 Approved by G. Hook, SCC. Issued to Client as approved.

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Project:
RACE / Lioncourt Homes
S111 Road Lighting Upgrade

Location:
Bramshall Road
Uttoxeter

Drawn by: Ken Duckers		**Date:** 08/04/2016	
Checked by: Ian Buckley		**Date:** 13/03/17	
Telephone: 0151 327 2424		**Fax:** 0151 327 2424	
Scale @ A0: 1:250	**Drawing No.:** HLS-579/1	**Sheet:** 1 of 1	**Revision:** REV 0