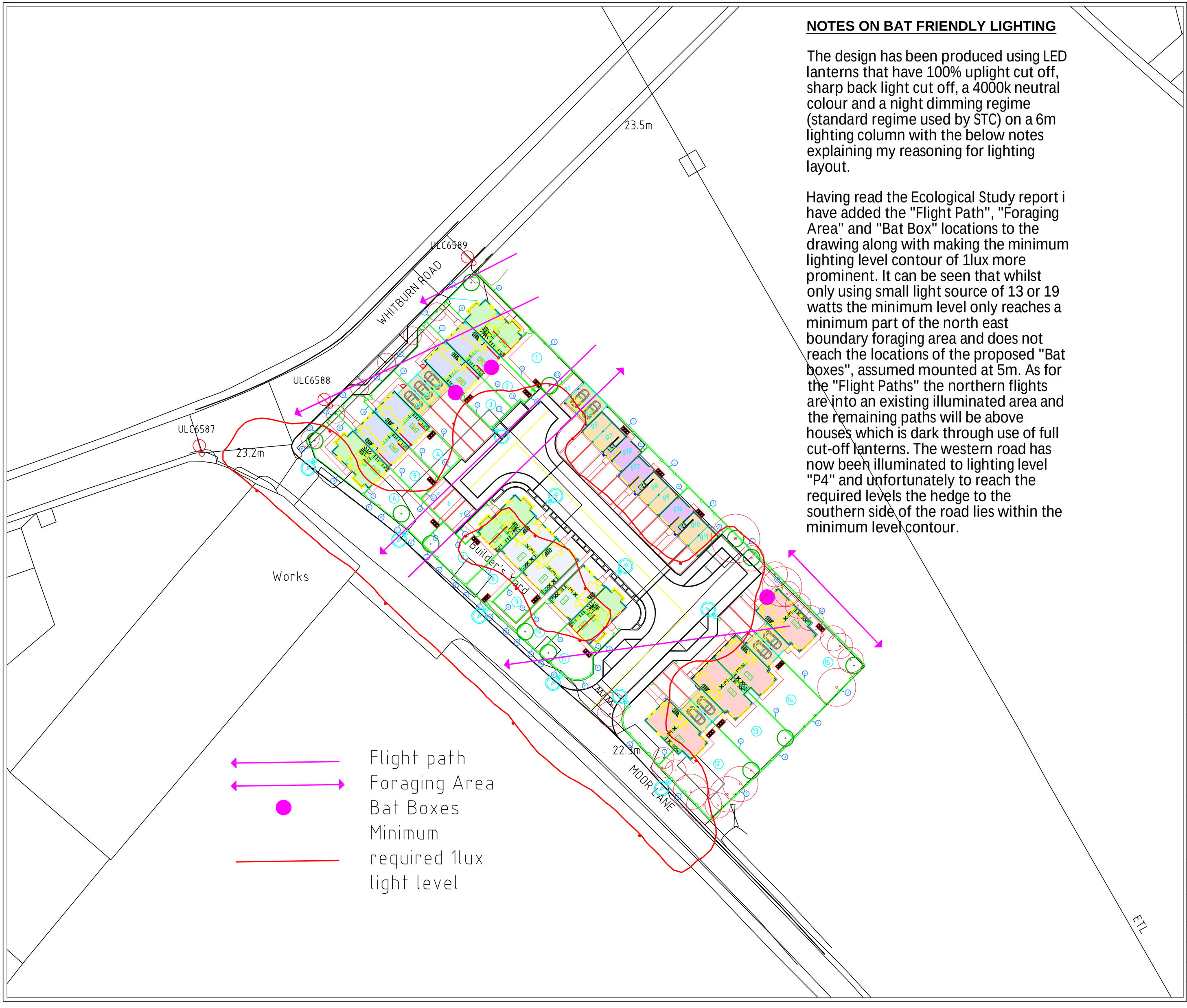

NOTES ON BAT FRIENDLY LIGHTING

The design has been produced using LED lanterns that have 100% uplight cut off, sharp back light cut off, a 4000k neutral colour and a night dimming regime (standard regime used by STC) on a 6m lighting column with the below notes explaining my reasoning for lighting layout.

Having read the Ecological Study report i have added the "Flight Path", "Foraging Area" and "Bat Box" locations to the drawing along with making the minimum lighting level contour of 1lux more prominent. It can be seen that whilst only using small light source of 13 or 19 watts the minimum level only reaches a minimum part of the north east boundary foraging area and does not reach the locations of the proposed "Bat boxes", assumed mounted at 5m. As for the "Flight Paths" the northern flights are into an existing illuminated area and the remaining paths will be above houses which is dark through use of full cut-off lanterns. The western road has now been illuminated to lighting level "P4" and unfortunately to reach the required levels the hedge to the southern side of the road lies within the minimum level contour.

LEGEND

Total 8

COLUMN HEIGHT;	6m MOUNTING HEIGHT TUBULAR STEEL COLUMN TO S.T.C. CURRENT PRIVATE DEVELOPMENT SPECIFICATION
LANTERN;	76mm SPIGOT MOUNTED THORN CIVITEQ SMALL
LANTERN OPTIC;	EWSC
TILT;	0 DEGREES
LAMP;	CLO / 2.50Klm / 12LED 4000K(NW) 500mA, G34, 19Watts
PEC;	ONE PART P.E.C. (NEMA SOCKET) SET TO SWITCH ON AT 35LUX.
DIMMING REGIME;	SWITCH ON AT:– DUSK TILL 20:00HRS – 100% 20:00 TILL 22:00HRS – 75% 22:00 TILL 06:00HRS – 50% 06:00 TILL DAWN – 100%

Total 2

COLUMN HEIGHT;	6m MOUNTING HEIGHT TUBULAR STEEL COLUMN TO S.T.C. CURRENT PRIVATE DEVELOPMENT SPECIFICATION
LANTERN;	76mm SPIGOT MOUNTED THORN CIVITEQ SMALL
LANTERN OPTIC;	WS
TILT;	0 DEGREES
LAMP;	CLO / 1.87Klm / 12LED 4000K(NW) 350mA, G34, 13Watts
PEC;	ONE PART P.E.C. (NEMA SOCKET) SET TO SWITCH ON AT 35LUX.
DIMMING REGIME;	SWITCH ON AT:– DUSK TILL 20:00HRS – 100% 20:00 TILL 22:00HRS – 75% 22:00 TILL 06:00HRS – 50% 06:00 TILL DAWN – 100%

EXISTING LIGHTING COLUMN TO REMAIN.

EXISTING LIGHTING COLUMN TO BE REMOVED.

Note
Within the boundaries of this Scheme there are HIGH VOLTAGE underground cables in the proximity of areas requiring excavation.

NOTE

ALL LIGHTING COLUMNS ARE TO BE SERVICED BY A "DNO" OR "IDNO" INDIVIDUAL LOW VOLTAGE SERVICE

REVISIONS

A 29/01/2019 Additional notes on how design was decided with respect to bats.

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Balfour Beatty Living Places

PROJECT
GENTOO DEVELOPMENT
MOOR LANE,
EAST BOLDON.

SUBJECT
PROPOSED STREET LIGHTING

DESIGN

DRAWN BY: AS	DATE: 16/05/18	CHECKED BY: GC	DATE: 16/05/18
PRINCIPAL ENG.: RO	DATE:		
DATE ISSUED: 29/01/19	SCALE: 1:500 @ A2	SHEET SIZE: A2	
DRAWING No.: BBLP6012 - 0890			REVISION: A