LUX LEVELS PRESENTED IN THIS PLAN ARE IN COMBINATION WITH THE A47 TUDDENHAM TO EASTON DCO APPLICATION

A47 NORTH TUDDENHAM TO EASTON LIGHTING SCHEME

NORWICH WESTERN LINK LIGHTING SCHEME

QTY.	SYMBOL	DESCRIPTION
	2HL	100mm DIAMETER LONGITUDINAL ORANGE DUCT IN TRENCH IN VERGE. NUMERAL DENOTES NUMBER OF DUCTS. MINIMUM WALL THICKNESS 5mm, FITTED WITH A SINGLE DRAW ROPE. DUCTS TO BE LAID IN A TRENCH OF DEPTH 500mm.
8		450mm x 450mm CHAMBER WITH GALVANISED STEEL FULL FRAME AND ANTI-SLIP COMPOSITE POLYESTER COVER. R COVER. TO BS EN 124 2015. INSTALLED IN VERGE. FRAME COVER TO MEET 12.5 TONNE LOADING B125KN 12.5T, TO BE INSTALLED AT DEPTH NOT EXCEEDING 1.0M - NOMINAL DEPTH 950MM.
4		EARTH ELECTRODE AND INSPECTION PIT.
3		POST TOP MOUNTED SIGN LANTERN ON PASSIVELY SAFE WIDE-BASED POST.
	X.X	LUX LEVEL ON CARRIAGEWAY

REVISION	DRAWN	CHECKED	APPROVED	DATE
A1 - Authorised for Planning				
C02	YH	DH	SA	30/05/24
A1 - Authorised for Planning				
C01	KAK	SA	SS	08/02/24

CLIENT

Norfolk County Council
Grahame Bygrave
Director of Highways, Transport & Waste
Norfolk County Council
County Hall
Martineau Lane
Norwich NR1 2SG

PROJECT

Norwich Western Link

ferrovial construction RAMBOLL

DRAWING TITLE

NORWICH WESTERN LINK
LIGHTING LAYOUT A47 JUNCTION
SHEET 1 OF 1

DRAWING STATUS

A1 – AUTHORISED FOR PLANNING

DRAWN	CHECKED	APPROVED	AUTHORISED
KAK	SA	SS	FQC

SCALE @ A1 SIZE	DATE	REVISION
1:500	08/02/24	C02

DRAWING NUMBER

PK1002-RAM-HLG-MLE-DR-CH-1310

0 25 50 metres

SCALE 1:500

ISOLUX CONTOUR KEY

15.0 LUX	15.0 LUX iso-contour
5.0 LUX	5.0 LUX iso-contour
1.0 LUX	1.0 LUX iso-contour
0.1 LUX	0.1 LUX iso-contour

COLUMN / LUMINAIRE KEY

LUMINAIRE REFERENCE (SEE BELOW)

LC01 – COLUMN ID

COLUMN REFERENCE (SEE BELOW)

QTY	COLUMN REFERENCE
8	TYPE 1 - NEW PROPOSED 10m HEIGHT GALVANISED STEEL RAISE AND LOWER COLUMN WITH POST TOP MOUNTED LANTERN INSTALLED AT 0° TILT. REFER TO LUMINAIRE REFERENCE ON COLUMN SYMBOL AND IN THE KEY. FOR NCC ADOPTION.

QTY	LUMINAIRE REFERENCE
8	TYPE B - PROPOSED NEW SIGNIFY LUMISTREET MEDIUM LANTERN WITH REAR SHIELD: TYPE BGP293 DM33 BL1 80LED 5.2S WITH 17KLM OUTPUT. LANTERN TO BE INSTALLED WITH URBAN CONTROL CELLULAR NODE, WARM WHITE 3000K LED LIGHT SOURCE. GLARE CLASS G6.

NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
2. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION, DESIGN AND MANAGEMENT REGULATIONS. PRECAUTIONS MUST BE TAKEN TO ENSURE THAT NO DAMAGE IS CAUSED TO UNDER GROUND SERVICES. BEFORE DIGGING OR ERECTING OR REMOVING EXISTING COLUMNS, REFERENCE SHOULD BE MADE TO:
   a. THE INSTITUTION OF LIGHTING PROFESSIONALS (ILP) CODE OF PRACTICE FOR ELECTRICAL SAFETY IN HIGHWAY ELECTRICAL OPERATIONS;
   b. HEALTH AND SAFETY EXECUTIVE BOOKLET HS(G)47 "AVOIDING DANGER FROM UNDERGROUND SERVICES" AND H&SE GUIDANCE NOTE GS6 "AVOIDANCE OF DANGER FROM OVERHEAD ELECTRIC LINES" AND
   c. THE ELECTRICITY ASSOCIATION ENGINEERING RECOMMENDATION G39/1, SAFETY CODE OF PRACTICE E4 COVERING ELECTRICAL SAFETY AND PLANNING, INSTALLATION, COMMISSIONING AND MAINTENANCE OF PUBLIC LIGHTING AND OTHER STREET FURNITURE.
4. NEW PROPOSED STREET LIGHTING COLUMNS TO BE MANUFACTURED BY VAL MONT-STAINTON, TO NCC/AMEY PFI SPECIFICATION OR SIMILAR AND APPROVED.
5. LIGHTING COLUMNS SHALL BE ERECTED IN ACCORDANCE WITH NCC/AMEY STANDARD DETAIL DWGS.
6. ALL LANTERNS TO BE FITTED WITH AN 'URBAN CONTROL' CELLULAR NODE TO NCC SPECIFICATION
7. ALL LIGHTING COLUMNS AND ILLUMINATED SIGNS ON THIS DRAWING ARE TO BE SUPPLIED FROM THE NCC PRIVATE CABLE NETWORK AS PART OF THE A47 TUDDENHAM SCHEME.
8. LIGHTING FOR THE MAINLINE HAS BEEN DESIGNED TO BS5489-1-2020 CLASS M4. A47 ROUNDABOUT AND TYING IN SECTION TO THE MAINLINE HAS BEEN DESIGNED TO CLASS C3 (Eav MIN = 15 LUX, Uo MIN = 0.40).
9. PLEASE REFER TO SECTION 3.4, CHAPTER 3 (DESCRIPTION OF THE SCHEME) OF THE ENVIRONMENTAL STATEMENT FOR THE ROCHDALE ENVELOPE FLEXIBILITY INCLUDED WITHIN THE DESIGN FOR THE PURPOSES OF THE ENVIRONMENTAL IMPACT ASSESSMENT.
10. LIGHTING SWITCHING ON AND OFF AT 35/18 LUX USING THE URBAN CONTROL CENTRAL MANAGEMENT SYSTEM (CMS) WITH A DIMMING PROFILE OF:
    - SWITCH ON: 100% OUTPUT
    - FROM 20:00: 75% OUTPUT
    - FROM 24:00: 50% OUTPUT
    - FROM 06:00: 100% OUTPUT
11. MAINTENANCE FACTOR (MF) = 0.92 (MF BASED ON 6 YEAR CLEANING CYCLE) X 0.90 (LED LUMEN MAINTENANCE AT 25 YEARS) X 1 (LAMP SURVIVAL FACTOR - FAILURE FUNCTION) = 0.83.