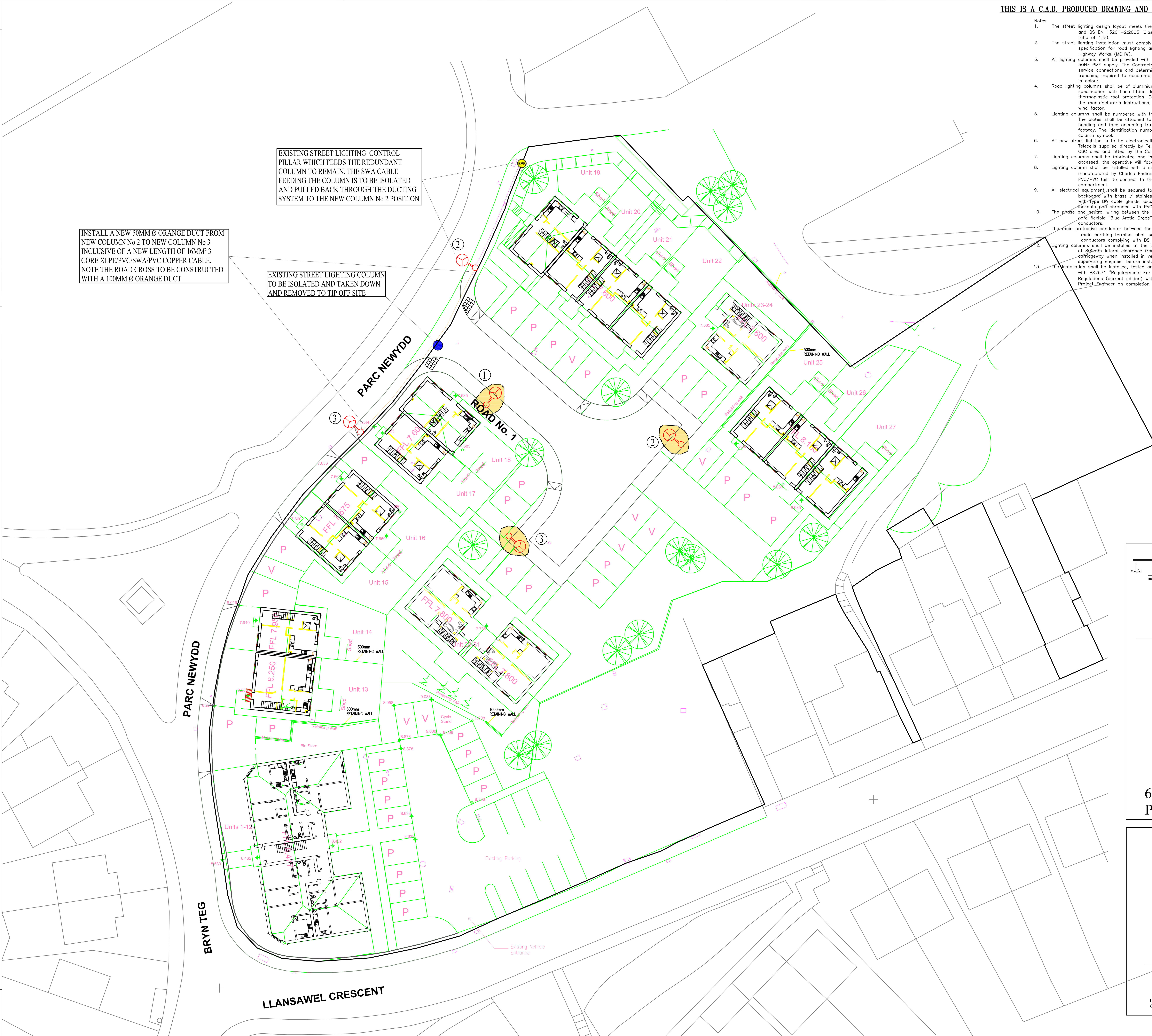
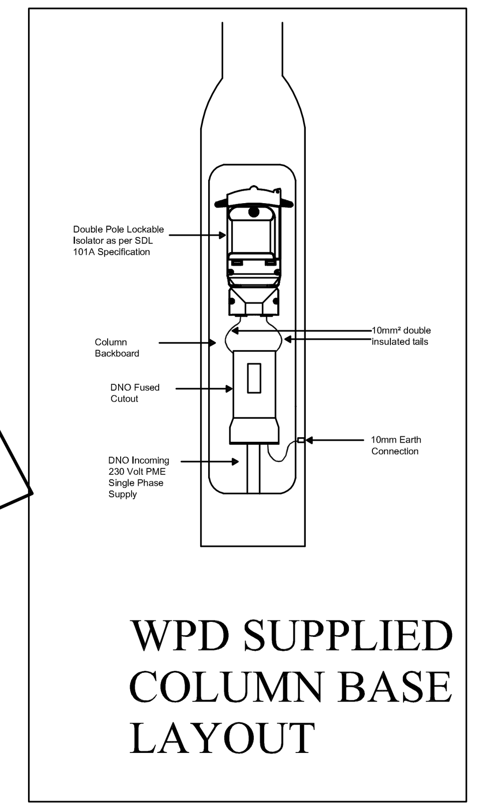
Job Title	PROJECT-DETAILS	Drg. No.	DRAWING-NO.	REV



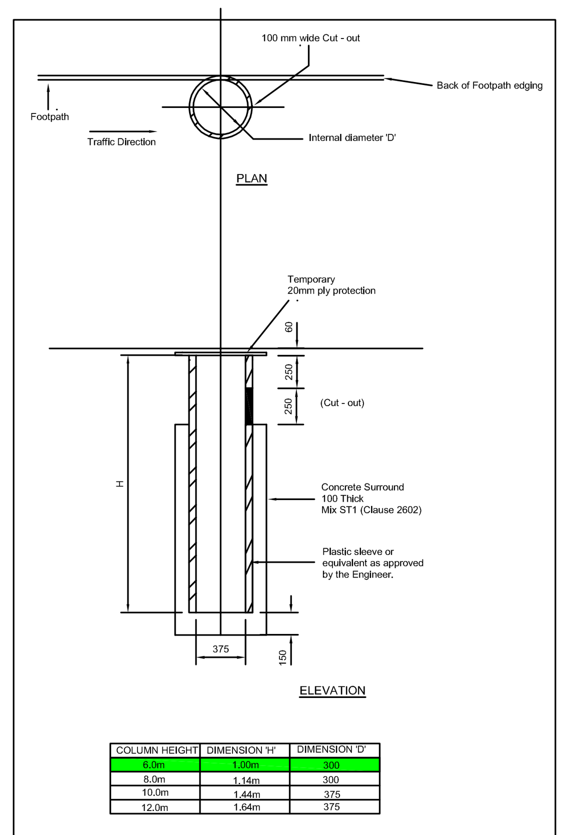
THIS IS A C.A.D. PRODUCED DRAWING AND SHOULD NOT BE AMENDED BY HAND.

Notes

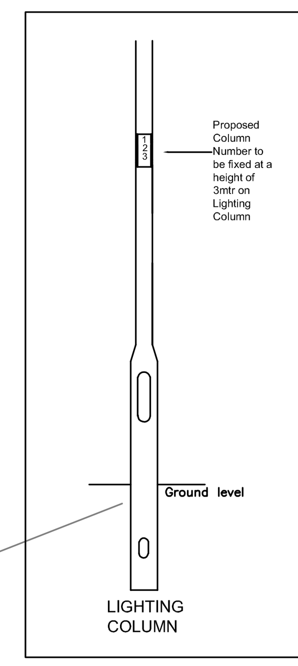
1. The street lighting design layout meets the requirements of BS5489−1:2013 and BS EN 13201−2:2003, Class P4 for residential roads as varied by an S/P ratio of 1.50.
2. The street lighting installation must comply fully with Neath Port Talbot CBC specification for road lighting and the Manual of Contract Documents for Highway Works (MCHW).
3. All lighting columns shall be provided with a direct unmetered WPD 230V ac 50Hz PME supply. The Contractor shall liaise with WPD to arrange the service connections and determine the proposed ducting routes and trenching required to accommodate the service cables. Ducting shall be black in colour.
4. Road lighting columns shall be of aluminium construction to NPT CBC specification with flush fitting door with dual tri−head locking mechanism and thermoplastic root protection. Columns shall be installed in accordance with the manufacturer's instructions, taking account of local soil conditions and wind factor.
5. Lighting columns shall be numbered with the Charles Endirect Ltd 'Enplate system The plates shall be attached to the columns with stainless steel banding and face oncoming traffic at a height of 2.4m above the verge or footway. The identification numbers are shown on the drawing adjacent to the column symbol.
6. All new street lighting is to be electronically controlled using 5 pin Telensa Telecells supplied directly by Telensa for use within the Neath Port Talbot CBC area and fitted by the Contractor prior to installation.
7. Lighting columns shall be fabricated and installed such that when the door is accessed, the operative will face oncoming traffic.
8. Lighting column shall be installed with a secondary double pole lockable isolator as manufactured by Charles Endirect Ltd (L2/SFE/A2) complete with 10mm² PVC/PVC tails to connect to the WPD cutout installed in the column base compartment.
9. All electrical equipment shall be secured to the column base compartment backboard with brass / stainless steel wood screws. Cables shall be terminated with Type BW cable glands secured to the cutout glandplate with brass locknuts and shrouded with PVC sleeves.
10. The phase and neutral wiring between the cutout and luminaire shall be 3 core flexible "Blue Arctic Grade" 2.5 mm PVC/PVC cable with copper conductors.
11. The main protective conductor between the cutout glandplate and the column main earthing terminal shall be 10 mm² PVC insulated cable with copper conductors complying with BS 6004:2012 Table 3 Ref 6181Y.
12. Lighting columns shall be installed at the back of footway or with a minimum of 800mm lateral clearance from the face of column to the edge of carriageway when installed in verge. All locations to be agreed with the supervising engineer before installation.
13. The installation shall be installed, tested and commissioned in accordance with BS7671 "Requirements For Electrical Installations − IET Wiring Regulations (current edition) with appropriate test certificates issued to the Project Engineer on completion of the Works.



WPD SUPPLIED COLUMN BASE LAYOUT



6 M COLUMN PLANTING DETAILS



CHARLES ENDIRECT En PLATE

NUMBERING SYSTEM

NOTES

A1

1. All dimensions are in millimetres unless otherwise stated.

NEW 6M ALUMINUM HOCKEY STICK TYPE LIGHTING COLUMN COMPLETE WITH A PROJECTION ARM OF 0.5M SET AT 5° INCLINATION AND A TRT ASPECT ECO 1 LED LANTERN AS SPECIFIED BELOW. THE LANTERN WILL BE FITTED WITH A 5 PIN TELENSA CELL WHICH MUST BE ASSOCIATED TO TO NPTCBC. EACH COLUMN IS TO BE SUPPLIED VIA A 24Hr 230 Volt PME SERVICE CABLE WHICH WILL BE SUPPLIED VIA THE LOCAL DNO. (WESTERN POWER DISTRIBUTION)

NEW 6M ALUMINUM HOCKEY STICK TYPE LIGHTING COLUMN COMPLETE WITH A PROJECTION ARM OF 0.5M SET AT 5° INCLINATION AND A TRT ASPECT ECO 1 LED LANTERN AS SPECIFIED BELOW. THE LANTERN WILL BE FITTED WITH A 5 PIN TELENSA CELL WHICH MUST BE ASSOCIATED TO TO NPTCBC. EACH COLUMN IS TO BE SUPPLIED NPT PRIVATE NETWORK SYSTEM

LANTERN SPECIFICATION
ASE1/27/GR1/4K/SV/E/U76/NEM5/X01 TRT
Aspect Eco1, 10-35 watt lantern factory programmed to 27 watt, general Road 1 optic, 4000 Kelvin leds, Silver finish, Exposed cover, UK 76 mm post top with 42.00 mm cast insert sleeve and 40.00 mm grub screws, 5 Pin NEMA socket fitted and pre-wired with 7 metres of 3 core 2.5 mm² 3 core Arctic blue cable.

INDICATES EXISTING COLUMN TO BE TAKEN DOWN AND REMOVED TO TIP AFTER THE CIRCUIT HAS BEEN ISOLATED AT THE EXISTING CONTROL PILLAR.

EPR INDICATES EXISTING ISOLATION PILLAR TO REMAIN

INDICATES EXISTING NPT NETWORK CABLE TO BE PUTTED BACK FROM EXISTING COLUMN POSITION 2 TO THE NEW COLUMN POSITION 2

INDICATES PROPOSED 50MMØ ORANGE DUCT COMPLETE WITH 16MM 3 CORE XLPE/PVC/SWA/PVC COPPER CABLE. ROAD CROSSING TO BE CONSTRUCTED IN 100MMØ ORANGE DUCT.

? INDICATES COLUMN NUMBER

Please note that on completion of the installation the Telensa Cell Ref number associated to each column must be forwarded to NPTCBC for their ongoing maintenance energy records.

PLEASE NOTE THAT WORKS ON EXISTING LIGHTING INFRASTRUCTURE CAN ONLY BE UNDERTAKEN BY CONTRACTORS APPROVED BY NEATH PORT TALBOT CBC.

BEFORE ANY WORK COMMENCES ON ANY NPT LIGHTING APPARATUS THE CONTRACTOR MUST NOTIFY THE NPT PUBLIC LIGHTING OFFICE ON 01639 686293 TO DISCUSS DATES AND TIME WORK IS TO BE UNDERTAKEN.

Rev	Details	Dr	Ch	Ap	Date

Client

ENGINEERING AND TRANSPORT

GARETH NUTT
DIRECTOR OF ENVIRONMENT
THE QUAYS, BRUNEL WAY
BAGLAN ENERGY PARK
NEATH SA11 2GG

Job Title

PROPOSED NEW PUBLIC LIGHTING DESIGN
FOR PARC NEWYDD
BRITON FERRY

File No.	FILE-NO.	Financial Code No.	FIN-CODE		
Drawn	PDF	Checked	EFM	Approved	DS
Date	APR19	Date	APR19	Date	APR19
Scales	SCALE				
Drawing No.	DS/PDF/PARC-NEWYDD	REV			

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