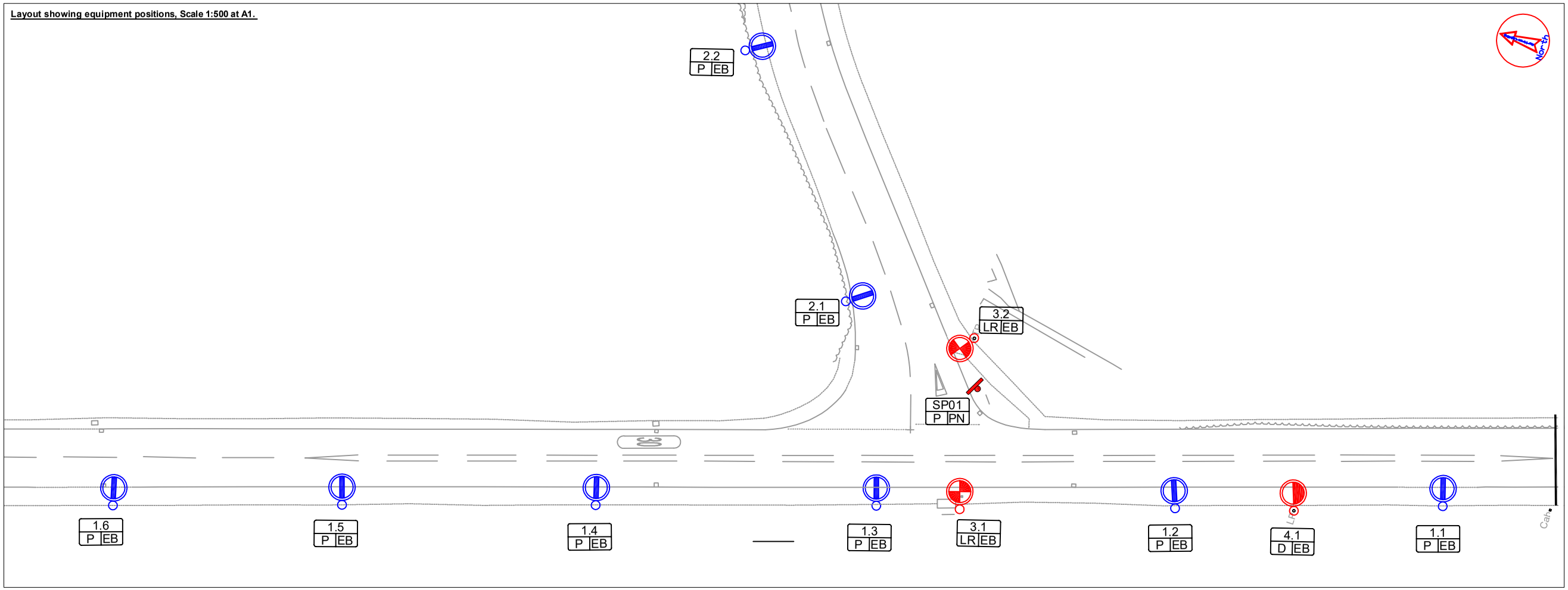
Layout showing equipment positions, Scale 1:500 at A1.



Key

Proposed Column:
08
Manufacturer: CU Phosco
Material: Galvanised Steel
Type: Tubular
Height: 6m

Proposed Lantern:
Manufacturer: Holophane
Model: Vmax
Optic: LB074 V1 D4D4
Mounting: post top
Tilt: 5°
Wattage:59W
Photometry file:
VMX.2.LB074.V1.D4D4.W059.IES
Driver: DALI enabled
PECU: factory fitted miniture cell, switching at 55lux 1:0.5 ratio

02 **Existing Wooden Pole - To Remain:**
Material: Wood
Existing Lantern - To Be Removed:
Type: LED

01 **Existing Column - To Be Removed:**
Material: Galvanised Steel
Type: Tubular
Height: 6 meters
Existing Lantern - To Be Removed:

01 **Existing illuminated Sign - To Remain:**
Material: Steel
Height: 3 meters
Supply: Fed from supply on wooden pole, 3.2.

Proposed column scheme numbering for existing and proposed equipment

1.1 P EB
1.1 = Column Number
P = Proposed
E = Existing
EB = DNO / IDNO connection
PN = Private cable network connection
LR = Lantern Removal
D = DNO / IDNO Disconnection
SP01 = Illuminated Sign Number

Note

Until technical approval has been obtained from the relevant adopting authority, it should be understood all drawings issued are preliminary and NOT for construction. Should the contractor commence site work prior to approval being given, it is entirely at his own risk.

Additional Notes

Double pole isolation device with a 6A BS88 fuse to utilised above the DNO cut out. Tofco model to be u

- 1.5mm Flex for the downleads.
- BS 951 'safety electrical connection' lable in ba
- Copper grease on door hinge & door retaining l
- 6A discrimination DNO to private cut out.
- Conductors doubled over in the terminals

Design Notes

Design Parameters:

-ADT (Average Daily Traffic)* = between 7000 and 40000. Traffic count figures for Tan Y Bont, Main road Wrexham show an ADT figures of:

-Count point North of location (Count Point Site Number - 990160)
-2009: 8153
-2008: 8250
-2007: 8433

-Road Speed = 30mph

Lighting Class for Road selected as M5 (C4)**. For lighting calculations refer to Lighting Reality reports 22830-A-01

Reference(s):

* Traffic figures obtained from the following website: 'https://roadtraffic.dft.gov.uk/manualcountpoints/990160'

** BS5489-1:2020 - Table A.3 lighting classes for traffic routes (V ≤ 40mph)

Table A.4 — Lighting classes for conflict areas

Traffic route lighting class	Conflict area lighting class
M1	C0
M2	C1
M3	C2
M4	C3
M5	C4
M6	C5

Notes

1. Column foundations to be as per Local Authority Standard Detail drawing.

2. All columns to be provided with Distribution Network Operator Services to Local Authority Standard Detail drawing, unless otherwise stated.

3. Column positions to be agreed on site with the Local Authority Street Lighting Engineer. All columns to be sited within the adoptable highway and generally in compliance with the current Local Authority Desig Guide for Residential areas. Columns shall not be installed within dropped kerb areas.

4. Column numbering to be agreed with the Local Authority Street Lighting Engineer.

5. The Contractor is to provide Local Authority with as-built drawings, test certificates and column and lantern data sheets.

6. All Street Lighting works to be carried out by Local Authority approved contractors.

7. A list of proposed equipment is to be rendered by the contractor for approval by the Local Authority Street Lighting Engineer prior to the installation.

8. Adoptable ducting to be installed to satisfy the requirements of Distribution Network Operator.

9. The contractor to liaise with Distribution Network Operator with regard to connections and disconnections of columns and illuminated signs.

10. Minimum distance for a column to be erected in a service strip is 1m back from the front face of the column to kerb edge.

11. This lighting scheme comply's with North Wales Authorities Lighting Design Guide and Specification (ref: ENV/PP/DC-1075).

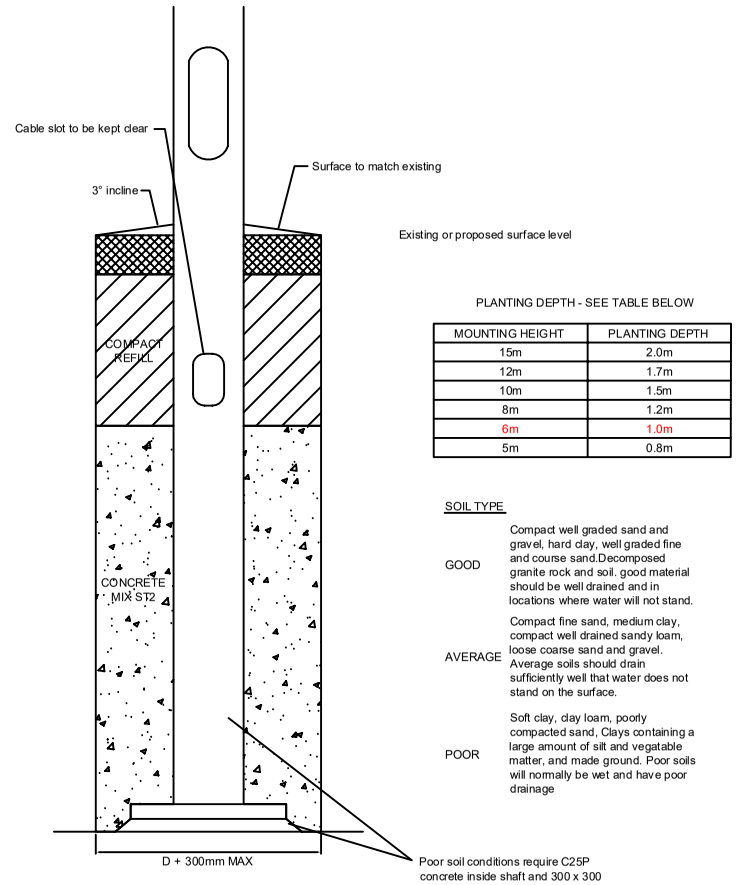
12. All wiring including component labelling to be in accordance with BS7671.

13. Prior to excavation works the installation contractor must be aware of underground services or hazards which may be encountered in the installation of the lighting system. Advice should be sought fro the developers engineering representative.

14. The installation contractor must be aware of any overhead obstructions. Advice should be sought from the developers engineering representative.

15. Column door orientation as per current Wrexham County Borough Council's policy is for the operative maintaining the column to be facing the oncoming traffic.

Column installation details N.T.S



PLANTING DEPTH - SEE TABLE BELOW

MOUNTING HEIGHT	PLANTING DEPTH
15m	2.0m
12m	1.7m
10m	1.5m
8m	1.2m
6m	1.0m
5m	0.8m

SOIL TYPE

GOOD — Compact well graded sand and gravel, hard clay, well graded fine and course sand.Decomposed granite rock and soil. good material should be well drained and in locations where water will not stand.

AVERAGE — Compact fine sand, medium clay, compact well drained sandy loam, loose coarse sand and gravel. Average soils should drain sufficiently well that water does not stand on the surface.

POOR — Soft clay, clay loam, poorly compacted sand, Clays containing a large amount of silt and vegatable matter, and made ground. Poor soils will normally be wet and have poor drainage

REV	DESCRIPTION	DATE	DRN	APP

DRAWING NO: 22830-D-01
REV: -

DRAWING STATUS: DESIGN

CLIENT: Castle Green

PROJECT: Tan Y Bont, Main Road Section 278

TITLE: Proposed Lighting and Installation Design Layout

SCALE: AS INDICATED
DESIGNED BY: JL 14/07/21
SHEET NO: Sheet 1 of 1
APPROVED BY: PDL 16/07/21

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PROJECT: I:\HARTTRONNAS\Harttron\Projects\Castle Green Homes (MacBryde Homes)\Tan Y Bont, Main Road, Wrexham\Drawings\Rev_0

XREF DRAWINGS:

Date Plotted: 16/07/2021 2:28 PM

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