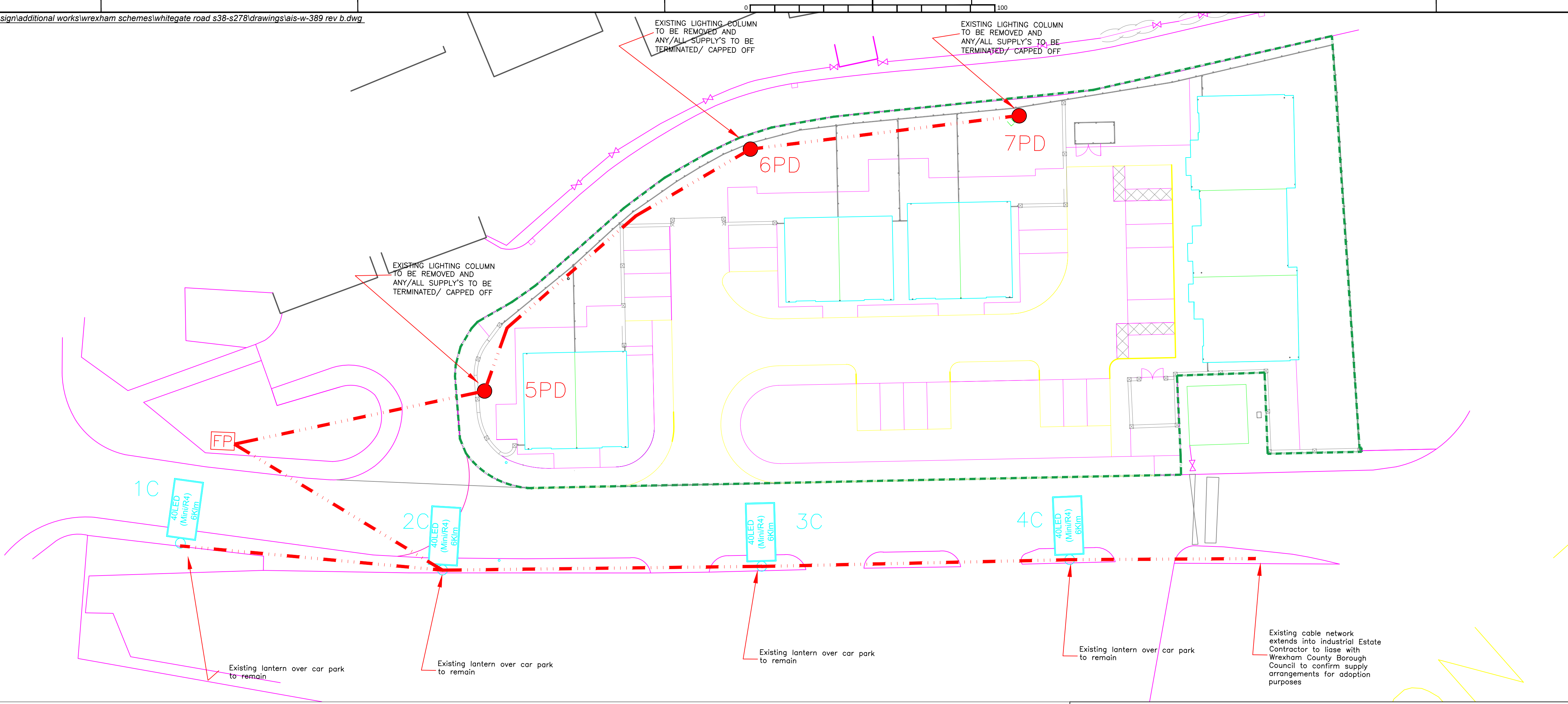
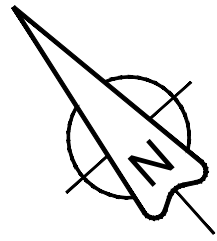


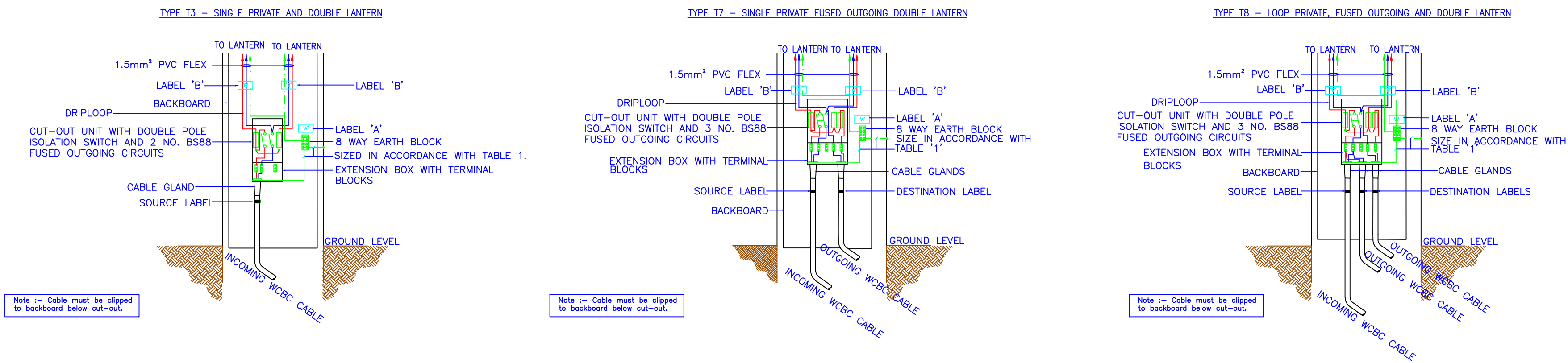


Lighting Design Information

Lighting Column Schedule							
Location	Column No.	Lantern Details				Column Height/ Type	Termination
		Manufacturer/ Model	Lens / Lamp Setting	Tilt	Lumen Output / Lamp type and wattage		
Whitegate Road	1	Philips /WRTL Luma MiniB CW 40LED	R4	0°	6.0Klm	Existing 8m twin armed column with 1.5 metre outreach bracket, Galvanised	T3
Whitegate Road	2	Philips /WRTL Luma MiniB CW 40LED	R4	0°	6.0Klm	Existing 8m twin armed column with 1.5 metre outreach bracket, Galvanised	T8
Whitegate Road	3	Philips /WRTL Luma MiniB CW 40LED	R4	0°	6.0Klm	Existing 8m twin armed column with 1.5 metre outreach bracket, Galvanised	T7
Whitegate Road	4	Philips /WRTL Luma MiniB CW 40LED	R4	0°	6.0Klm	Existing 8m twin armed column with 1.5 metre outreach bracket, Galvanised	T7

Lighting Calculation Information									
Calculation Identity	Lighting Class	Single Side Spacing (P Class)		Staggered Spacing (P Class)		Area Calculation			Comments
		Minimum (M)	Maximum (M)	Minimum (M)	Maximum (M)	Eave (lux)	Emin (Lux)	Uo	
R1	P2	23	33	-	-	-	-	-	SP Ratio 1.96

Private Cable Termination Types



KEY



Existing lighting column to be removed



Existing feeder pillar



Existing private cable (assumed route)



Existing 8m galvanised column with 1.5m outreach bracket to have lantern replaced with Philips/WRTL Luma Mini B Cool White LED luminaire installed at 0° tilt complete with Zodion SS3DR one-part photocell and Dali capable control gear. Please refer to Lighting Column Schedule table for individual Lantern Model, Optic Setting and Lumen Package.

RESIDUAL DESIGN HAZARDS

(The following information has been collected from Preconstruction Information and Arney Process PLC-H&S-201 – Hazard Management for Designers. The list below provides information of the most common hazards and may not have been identified on each drawing but have been specifically shown where appropriate on the drawing)

1. HV Underground Cable
2. 132kV HV Underground Cable (Oil Filled)
3. HV Overhead Cable
4. LV Overhead Cable
5. Medium Pressure Gas Main
6. Intermediate Pressure Gas Main
7. High Pressure Gas Main
8. Oil Pipeline
9. Restricted Access - Raise and Lower Column Required
10. Railway Bridge
11. Canal Bridge
12. Working near Water Course

NOTES

1. Drawing to be read in conjunction with Datrys Consulting Engineers drawing no. 15064/S38-1
2. All works to comply with Wrexham County Borough Council Specification for Street Lighting Works
3. Any alteration to the position of lighting apparatus shown in this drawing must be agreed with Arney to ensure compliance with lighting requirements and CDM regulations.
4. All electrical installation work to be carried out in accordance with the requirements of ASLEC, NICEIC and BS 7671 (IEE Wiring Regulations).
5. Illustrated underground cable and duct runs are indicative
6. Continued use of any existing private cable network affected by the programmed works shall be subject to the results of a condition survey carried out at the construction stage. Failure to comply with the requirements of BS7671 will call for the cable to be replaced.
7. HAZARD WARNING: Information pertaining to local underground gas and electricity services must be sought prior to commencement of works and excavation. The service owner may need to be consulted.
8. HAZARD WARNING: Information pertaining to local overhead power lines must be sought prior to commencement of works. The service owner may need to be consulted.

Supply details:

The following denotes supply type and connection detail:

T = DNO Transfer
N = DNO New service
D = DNO Disconnection
C = Lantern conversion only to existing lighting column

PN = Private service
PT = Private transfer
PD = Private disconnection

B	Cable Termination amendments	CR	CR	SEPT 15
A	Initial Design	CR	CR	June 15
Rev	Revision details	Chkd	Appd	Date

Drawn: PB	Preliminary	
Design: PB	For comment	
Chkd: CR	For tender	
Appd: CR	For construction	✓
Date: June 25	As constructed	
	Other	



Client

Project Name
**WHITEGATE ROAD
WREXHAM
SECTION 38 & 278**

Drawing Title
**Street Lighting
PROPOSED ROAD LIGHTING
LAYOUT**

Original Drawing Size : A1
Scale : 1:250 Dimensions : Metres

Drawing No
ais-w-389

Rev
B