



For continuation see drawing:  
C-27541-HYD-XX-XX-DR-E-9003

95mm2 HV private wire cable to be direct buried in grass verge.  
Comms cable to be direct buried in grass verge.

95mm2 HV private wire cable to run in a Ø125mm duct in footpath and cross road.  
Comms cable to run in a Ø100mm duct in footpath and cross road.

95mm2 HV private wire cable to be direct buried in grass verge.  
Comms cable to be direct buried in grass verge.  
To connect into hospital substation.

Hospital substation to be developed by Royal Glamorgan Hospital for private wire connection. Hospital to provide substation and switchgear for private wire to connect into. Communications link to be established back to PV inverters to ensure zero grid export.

95mm2 HV private wire cable to run by Royal Glamorgan Hospital between the new substation and royal Glamorgan hospital building.  
Ø125mm duct provided by Royal Glamorgan Hospital.  
Comms cable to run in Ø100mm duct to hospital building provided by Rhondda Cynon Taf.

Cable routes to follow existing 11kV cables, co-ordination at detailed design stage required to consider de-rating with other nearby HV cables.

**KEY PLAN**

**NOTES**

- All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figure dimensions only are to be taken from this drawing.
- This drawing is to be read in conjunction with all relevant engineers' and service engineers' drawings and specifications. This drawing is copyright.
- Cable routes are indicative and are TBC by Contractor at detailed design stage pending accurate GPR surveys and co-ordination with existing underground services.
- Strategy to access existing ducting for jointing and pulling through is to be further developed at detailed design stage. 100mm manhole every 500m is included as an example strategy to use as a base line.
- Generator run signal required from Hospital to allow for PV farm supply to shut down in the event that the mains power to the Hospital fails and the generator supply starts.
- Metering signal required from Hospital to ensure zero export to the grid.

**LEGEND**

- Proposed Telecommunications Cable
- Proposed HV Cable
- Extent of Existing NGED ducting
- Hospital Substation

**REVISIONS**

| Rev. | Revision Description            | Date     | Drawn By | Checked | Approved By |
|------|---------------------------------|----------|----------|---------|-------------|
| P03  | Updated following comments      | 19/05/23 | JP       |         | DW   AH     |
| P02  | Updated following comments      | 31/05/23 | JP       |         | DW   AH     |
| P01  | Suitable for Review and Comment | 17/05/23 | JP       |         | DW   AH     |

**Hydrock**

3rd Floor, Wharton Place  
13 Wharton St  
Cardiff  
CF10 1GS  
t: +44(0)2920 023665  
e: cardiff@hydrock.com

**CLIENT**  
Rhondda Cynon Taf  
County Borough Council

**PROJECT**  
Coed-Ely Solar Farm | Multi-Discipline  
Consultant

**TITLE**  
Electrical Services  
Private Wire Cable Route  
Sheet 4 of 4

|   |                            |
|---|----------------------------|
| HYDROCK PROJECT NO.<br>C-27541                      | SCALE @ A0<br>As indicated |
| STATUS DESCRIPTION<br>SUITABLE FOR REVIEW & COMMENT | STATUS<br>S3               |
| DRAWING NO.<br>27541-HYD-XX-XX-DR-Y-0013d           | REVISION<br>P03            |

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