

IF THIS DRAWING HAS BEEN RECEIVED ELECTRONICALLY IT IS THE RECIPIENT'S RESPONSIBILITY TO PRINT THE DOCUMENT TO THE CORRECT SCALE.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE IF IT IS RECOMMENDED THAT INFORMATION IS NOT SCALED OFF OF THIS DRAWING.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS FORMING THE EXTENT OF THIS WORKS PACKAGE.

CROSS REFERENCE SHOULD BE MADE TO ARCHITECTS & STRUCTURAL, ENGINEERING DRAWINGS WHERE APPLICABLE.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTS FIRE STRATEGY DRAWING FOR COMPARTMENTATION WHERE APPLICABLE.

110mm 545Wp HALF-CELL MONO-CRYSTALLINE
CONSTRUCTION SOLAR PHOTOVOLTAIC PANELS
PANEL DOWNSIDE TO PATTERN 27.78x34.5mm
TOTAL AREA: 284.85 m²
PANEL WEIGHT: 27.78% 21.1%
PANEL WEIGHT: 27.34%
ARRANGEMENT ALLOWS FOR MAXIMUM ESCAPE
NEUTRALITY TO PATTERN 27.78x34.5mm
ROUTES ROTATED WITH RED LINE
SUSTAIN MOUNTING SYSTEM SUCH AS VAK/PRO+
PANELS TO BE PLACED ON ROOF WITH
WITH GREEN ROOF MOUNTING OPTION TO SUIT
ARCHITECTURAL BRIEF
INVERTER TO BE OF COMPLIANT
METHOD OF AC AND DC DISCONNECT TO BE PROVIDED
EACH INVERTER TO BE PROVIDED WITH
INVERTERS TO BE SUPPLIED FROM DEDICATED
PANELBOARDS
INVERTERS TO BE LOCATED CENTRALLY OF ARRAY
BEING SERVED IN PLANT ROOM BELOW, DC STRING
LENGTH TO BE KEPT AS LOW AS SHORT AS
POSSIBLE
HOCKEY PUCK PENETRATIONS TO BE USED TO
ROUTE DC CABLES FROM ROOF LEVEL INTO PLANT
ROOM
KEY OPERATED FIRE OVERIDE METHOD OF DC STRING
ISOLATION TO BE PROVIDED AT FIRE FIGHTING
LOCATIONS
FIRE ALARM AND FIRE ALARM INTERFACES TO
EVERY ELECTRICAL PANEL
SAFETY NOTICES TO BE PROVIDED AT ALL
ELECTRICAL PLANT EQUIPMENT INCLUDING
SUBSTATIONS AND DISTRIBUTION BOARDS
THROUGHOUT BUILDINGS ELECTRICAL ROOM
INDICATING ISOLATION PROCEDURE OF PV SYSTEM
FOR EACH ELECTRICAL ROOM
EACH INVERTER TO HAVE LOCAL ENERGY
METER DATA LOGGABLE CAPABLE OF DISPLAYING
ENERGY, CURRENT AND VOLTAGE
METER DATA TO HAVE MODBUS/SACNET INTERFACE
TO INTEGRATE WITH BEMS/EMS SYSTEM
REPORTING CAPABLE OF REPORTING DAILY, MONTHLY, AND ANNUAL kWh
PRODUCTION AT A MINIMUM
EACH PANEL TO HAVE AN INTEGRAL POWER METER
AND INTERFACED TO BEMS/EMS

Drawing Status ISSUED FOR STAGE 2 S2

READERS OF THIS DRAWING:
ALL EFFORTS HAVE BEEN TAKEN BY DSSR TO DESIGN OUT
SIGNIFICANT HAZARDS WITHIN THE DESIGN RISK
ASSESSMENT PROCESS. IT IS OUR OPINION THAT THE
HAZARDS DETAILED BELOW CANNOT BE DESIGNED OUT BY
US GIVEN THE CONSTRAINTS OF THE BRIEF AND ARE
HIGHLIGHTED SO THAT OTHER MEANS CAN BE DEVELOPED
TO MITIGATE THE RESIDUAL RISKS IDENTIFIED.

DSSR | CONSULTING ENGINEERS
Glasgow Harrogate London Manchester

Tel: +44 (0)161 872 4811
manchester@dssr.co.uk
www.dssr.co.uk

OBJECT: Royal Berkshire Hospital
NHS Foundation Trust
Royal Berkshire Hospital Urology

Designed by FB	Checked by BH	DSR Ref. MS384
Drawn by FB	Date MAY 24	Size & Scale(s) A0 1:50

This drawing is the copyright of TCCOR

PV SYSTEM & FIRE ALARM SYSTEM INTEGRATION DETAIL