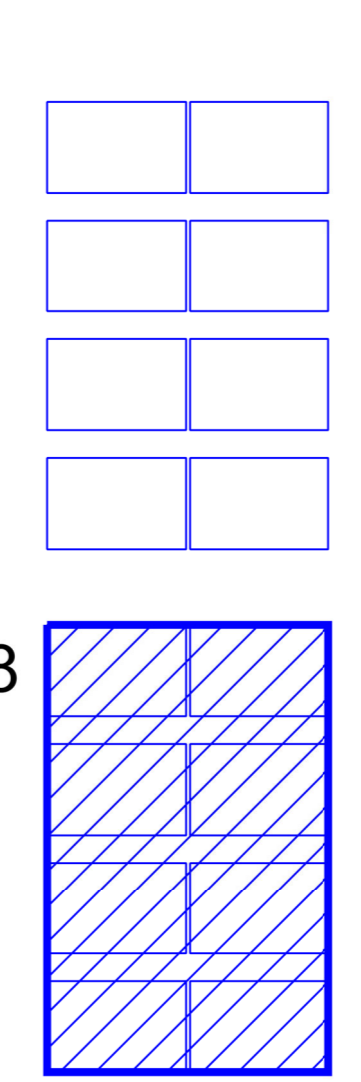
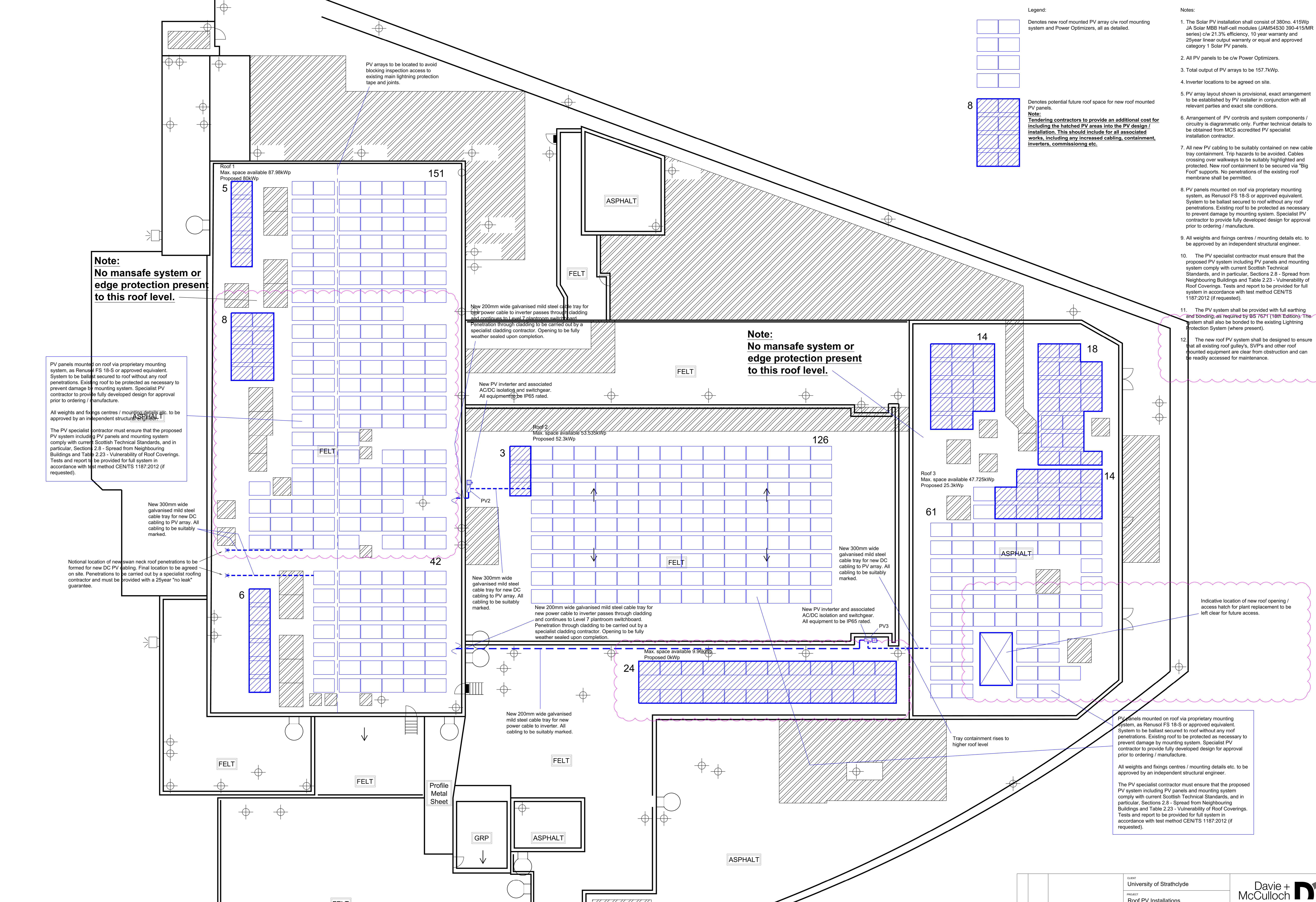


# Roof Mounted PV Array Layout



**Legend:**

Denotes new roof mounted PV array c/w roof mounting system and Power Optimizers, all as detailed.

Denotes potential future roof space for new roof mounted PV panels.

**Note:**  
Tendering contractors to provide an additional cost for including the hatched PV areas into the PV design / installation. This should include for all associated works, including any increased cabling, containment, inverters, commissioning etc.

- Notes:**
- The Solar PV installation shall consist of 380no. 415Wp JA Solar M55 Half-cell modules (JAM54530 390-415/MR series) c/w 21.3% efficiency, 10 year warranty and 25year linear output warranty or equal and approved category 1 Solar PV panels.
  - All PV panels to be c/w Power Optimizers.
  - Total output of PV arrays to be 157.7kWp.
  - Inverter locations to be agreed on site.
  - PV array layout shown is provisional, exact arrangement to be established by PV installer in conjunction with all relevant parties and exact site conditions.
  - Arrangement of PV controls and system components / circuitry is diagrammatic only. Further technical details to be obtained from MCS accredited PV specialist installation contractor.
  - All new PV cabling to be suitably contained on new cable tray containment. Trip hazards to be avoided. Cables crossing over walkways to be suitably highlighted and protected. New roof containment to be secured with "Big Foot" supports. No penetrations of the existing roof membrane shall be permitted.
  - PV panels mounted on roof via proprietary mounting system, as RenuSol FS 18-S or approved equivalent. System to be ballast secured to roof without any roof penetrations. Existing roof to be protected as necessary to prevent damage by mounting system. Specialist PV contractor to provide fully developed design for approval prior to ordering / manufacture.
  - All weights and fixings centres / mounting details etc. to be approved by an independent structural engineer.
  - The PV specialist contractor must ensure that the proposed PV system including PV panels and mounting system comply with current Scottish Technical Standards, and in particular, Sections 2.8 - Spread from Neighbouring Buildings and Table 2.23 - Vulnerability of Roof Coverings. Tests and report to be provided for full system in accordance with test method CEN/TS 1187:2012 (if requested).
  - The PV system shall be provided with full earthing and bonding, as required by BS 7671 (18th Edition). The system shall also be bonded to the existing Lightning Protection System (where present).
  - The new roof PV system shall be designed to ensure that all existing roof gully's, SVP's and other roof mounted equipment are clear from obstruction and can be readily accessed for maintenance.

**Note:**  
No mansafe system or edge protection present to this roof level.

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Indicative location of new roof opening / access hatch for plant replacement to be left clear for future access.

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REV		DATE	REVISION DETAILS	SCALE @ A0	SCALE @ A2
ENG	KA	Nov. 21	1:100	1:200	
CAD	CMCV				
CLIENT: University of Strathclyde PROJECT: Roof PV Installations CURRAN BUILDING ROOF PV LAYOUT DESIGN INTENT					
Davie + McCulloch CONSULTING ENGINEERS Davie + McCulloch Ltd, 17 Lynedoch Street, Glasgow G3 6EF 0141 333 9000 www.davie-mcculloch.com				21-14471-CU-61-R-01	