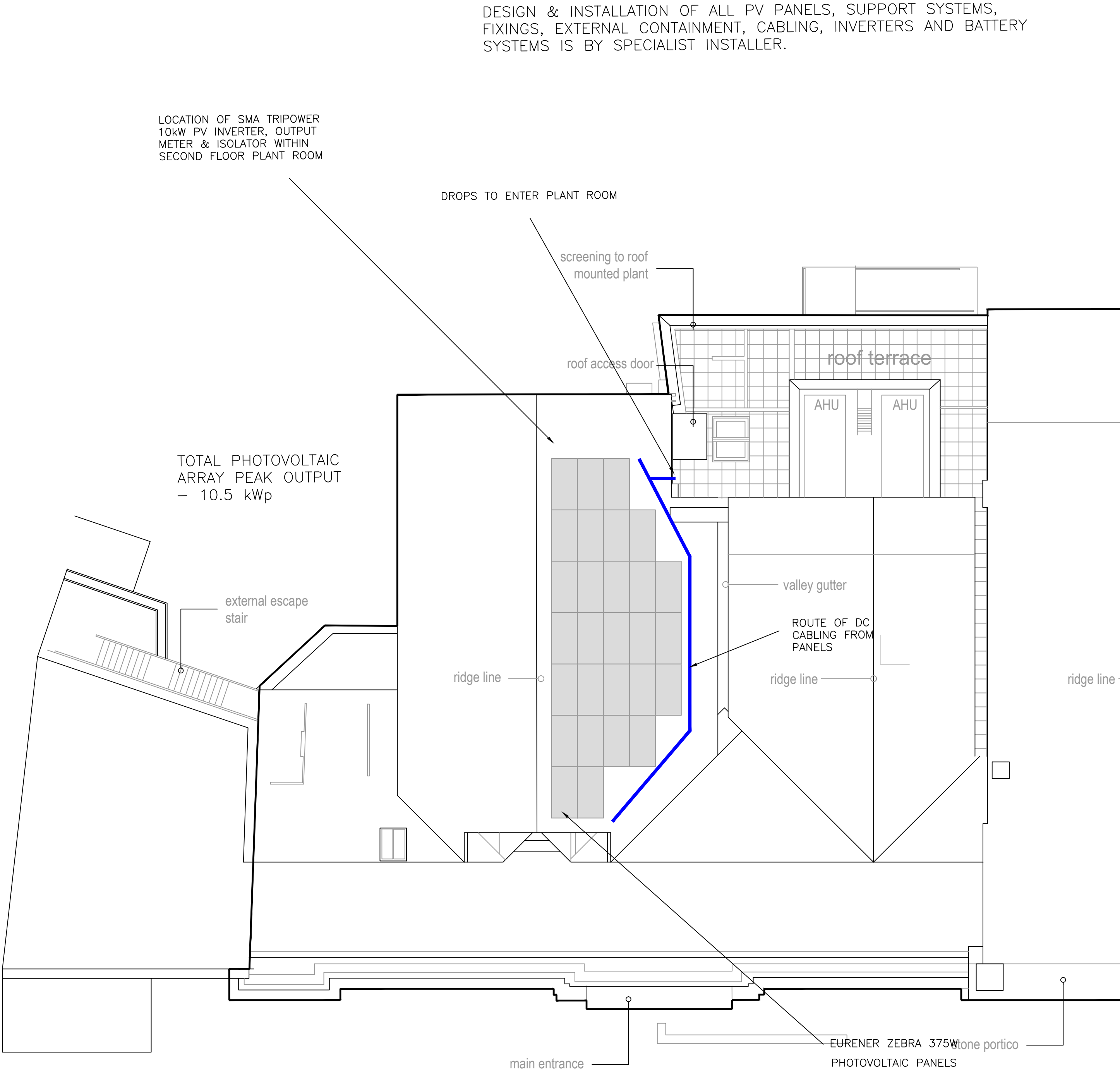




LOCATION OF SMA TRIPower 10kW PV INVERTER, OUTPUT METER & 32A TP ISOLATOR WITHIN SECOND FLOOR PLANT ROOM.

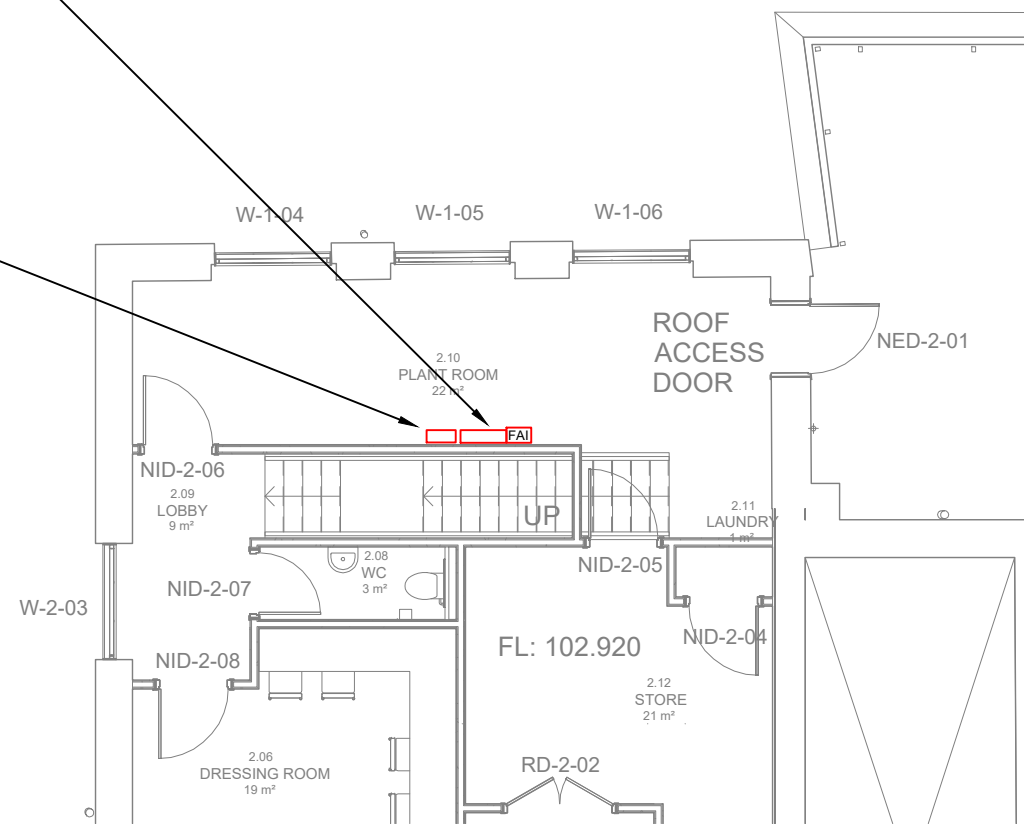
INVERTER CONNECTED BY 10mm² XLPE SINGLES CABLING IN TRUNKING, PROTECTED BY 32A TP MCB.

FIRE ALARM INTERFACE IS REQUIRED TO SHUT DOWN INVERTERS ON ACTIVATION. INTERFACE TO BE LOOPED INTO EXISTING SYSTEM.

EXISTING DISTRIBUTION BOARD

INSTALL NEW TYPE 1 & 2 SURGE PROTECTION DEVICE IN EXISTING DISTRIBUTION BOARD

SECOND FLOOR LAYOUT



Notes:

- This drawing is subject to copyright and is not to be reproduced in part or whole without approval.
- Do not scale this drawing - check all dimensions on site.
- This drawing shall be read in conjunction with the project specifications) and all other contract documentation.
- All dimensions are in millimetres unless otherwise stated.
- This drawing is for design intent and shall be the basis of the specialist sub-contractor design. Any pre-requisite of the local utility companies and the civils requirements shall be carefully coordinated prior to site works.
- All design of the PV systems and associated inverters and accessories is by the specialist sub-contractor. The final location of the inverters and associated equipment is to be confirmed by the specialist prior to the commencement of the installation.
- All fire alarm works including installation, final connections and programming shall be carried out by incumbent system maintenance company. Interface shall send signal to inverter to shut down output in the event of a fire.
- Photovoltaic system MCCB to be installed shall be labelled: "WARNING - PHOTOVOLTAIC SYSTEM CONNECTION - ISOLATE ELSEWHERE - THIS CIRCUIT MAY BE LIVE EVEN AFTER POWER IS DISCONNECTED."
- All works shall comply with all relevant British Standards, including BS7671 and BS5839.
- The contractor is to issue a full set of O&M manuals. "As fitted" drawings and test/commissioning certificates upon completion of the works.
- Where a new incoming supply is installed, all existing circuits for the complete building are to be retested in accordance with BS7671.
- All external tray work below 2.4m is to be protected by reverse tray to give protection against future malicious damage.
- The contractor shall perform a GPR survey to confirm the location of existing buried services prior to the commencement of any underground civil works.
- Any new externally located plant or equipment shall be bonded to the existing lightning protection system where installed.

GENERAL NOTES

- ALL WORKS ARE TO BE DESIGNED, INSTALLED, TESTED IN ACCORDANCE WITH THE CURRENT EDITION OF BS7671.
- THE PV INVERTER AND ASSOCIATED METERING ETC. IS TO BE LOCATED INTERNALLY WITHIN THE SECOND FLOOR PLANT ROOM, MOUNTED ON A SUITABLE SUPPORT FRAME. FINAL LOCATION TO BE CONFIRMED BY THE PV SPECIALIST.
- THE CONTRACTOR IS TO ISSUE A FULL SET OF O&M MANUALS, "AS FITTED" DRAWINGS AS TEST/COMMISSIONING CERTIFICATES UPON COMPLETION OF THE WORKS.
- ALL CABLE SIZES STATED ARE FOR INFORMATION ONLY, THE EC SHALL CARRY OUT CABLE SELECTION AND SIZING IN ACCORDANCE WITH BS7671, USING PROPRIETARY CABLE SIZING SOFTWARE.

CDM NOTES

- NO EDGE PROTECTION IS INSTALLED AT ROOF LEVEL (PV INSTALLATION)

B	21.01.22	PV TYPE CHANGED	K.S
A	23.12.21	CONSTRUCTION ISSUE	K.S
Rev:	Date:	Status/Amendments:	By:

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Client:

Bury Council

Project:
Bury Met (10)
Decarbonisation Scheme
Bury BL9 0AQ

Drawing Title:
ELECTRICAL SERVICES
PV ROOF LAYOUTS

Engineer: K.S	Checked By: R.H	Cad By: G.M
Scale: 1:100@A1	Paper Size: A1	Date Created: DEC 2021
Drawing Number: 3376-KIN-10-RF-DR-E-6900	Drawing Revision: B	