

- Notes
- STANDARD NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES, DRAWINGS, SCHEDULES AND SPECIFICATIONS, LEGENDS AND STANDARD DETAILS.
 - THIS DRAWING IS COPYRIGHT AND SHALL NOT BE REPRODUCED WITHOUT PERMISSION.
 - DIMENSIONS GOVERN ON ALL DRAWINGS AND DETAILS. SHOULD ANY DISCREPANCIES BE FOUND WITH THIS DRAWING AND ANY ASSOCIATED DRAWINGS OR SPECIFICATIONS THIS SHOULD BE BROUGHT TO THE ATTENTION OF THE M&E BUILDING SERVICES CONSULTANT IMMEDIATELY.
 - UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES.
 - DO NOT SCALE FROM THIS DRAWING.
 - DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND OR PREFABRICATED.
 - THIS DRAWING SHOULD ONLY BE USED FOR THE SPECIFIC SERVICES INTENDED.
 - THIS DRAWING SHOWS THE DESIGN INTENT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL CO-ORDINATION OF THE SERVICES INDICATED ON THIS AND ALL OTHER SERVICES DRAWINGS.
 - FINAL ACCESS AND SETTING OUT OF SERVICES SHALL BE AGREED BETWEEN THE ARCHITECT AND THE CONTRACTOR.
 - THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.
 - WHERE ELECTRICAL SERVICES PASS THROUGH FIRE COMPARTMENTATION (CEILING VOIDS, FLOOR VOIDS AND STRUCTURAL WALLS) THE CONTRACTOR SHALL SLEEVE/SEAL THE OPENING WITH AN ACOUSTIC AND FIRE SEALANT APPROVED BY THE ARCHITECT.
 - THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S DRAWINGS FOR DETAILS OF FIRE COMPARTMENTATION.

- DRAWING NOTES**
- REFER TO UOH RECORD DRAWING E295/02 (WHEATLEY, 28.02.2012) FOR THE EXISTING ELECTRICAL DISTRIBUTION SCHEMATIC.
 - THIS DRAWING IS A MARKUP OF AN ORIGINAL DRAWING PROVIDED BY THE UNIVERSITY OF HUDDERSFIELD. BUROL HAPPOLD TAKES NO RESPONSIBILITY FOR THE ACCURACY OF THE ORIGINAL DRAWING INCLUDING ITEMS OUTSIDE THE 'BUROL HAPPOLD PROPOSED MODIFICATIONS SCOPE BOUNDARY'.
 - QUANTITIES AND SIZES OF PV ARRAYS, INVERTERS, AND CIRCUITS TO BE DEVELOPED BY THE CONTRACTOR AS PART OF STAGE 4.
 - CIRCUIT PROTECTION DEVICE TYPES AND SIZES ARE SUBJECT TO THE FINAL PV ARRANGEMENT AND TO BE DEVELOPED BY THE CONTRACTOR AS PART OF STAGE 4.

BUROL HAPPOLD LEGEND

--- BUROL HAPPOLD PROPOSED MODIFICATIONS

PV ARRAY (QUANTITY OF PANELS NOT INDICATED)

CURRENT INVERTER & POWER CONDITIONING UNIT

ISOLATOR

UOH CHECK-METER

MODBUS OUTPUT

NEW LV SUBMAIN CABLE

BUSBAR

NEW METERING COLLECTION GATEWAY

SECURE FILE TRANSFER PROTOCOL

CIRCUIT PROTECTION DEVICE

FRAME RATING

OVERCURRENT TRIP SETTING

TPN: THREE PHASE & NEUTRAL

SPN: SINGLE PHASE & NEUTRAL

ACB: AIR CIRCUIT BREAKER

MCB: MOULDED CASE CIRCUIT BREAKER

VCB: VACUUM CIRCUIT BREAKER

N/A: NON-AUTOMATIC

PSD Stage 3 Issue	15.05.2023	2A	10
PSD Stage 3 Issue	17.05.2023	2A	20
PSD Stage 3 Issue	01.04.2023	2A	25
Rev	Description	Date	Rev

STAGE 3

Project Stage

S2 - FOR INFORMATION

Status of Drawing

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Client: University of Huddersfield
Architect: N/A
Project: UOH Solar PV
City/Town: 3MBIC
Drawing Title: Electrical Schematic
Proposed PV Connection Principle

Job No.	0000000	Scale/Alt	1 : 1
Drawn By	AD	Checked By	ZA
Approved By	PD	Revised	
Drawing No.	UOH-BHE-3M-ZZ-DR-E-1100	Revision	P03

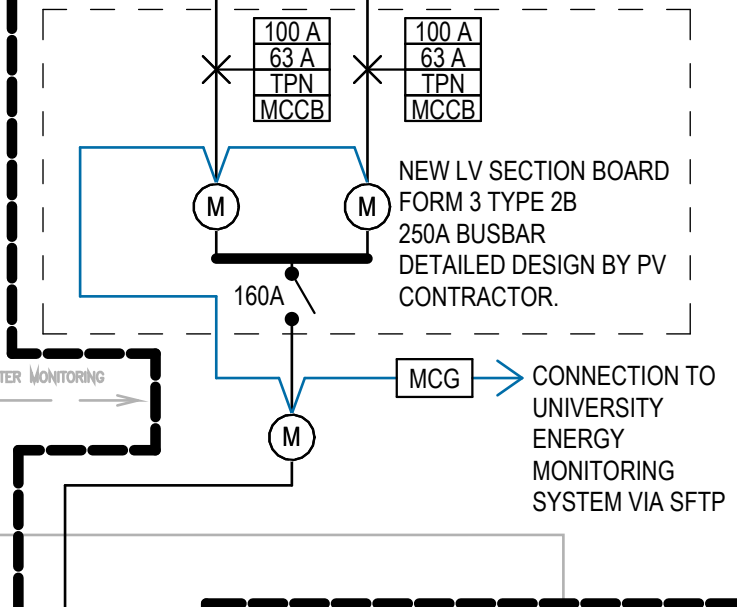
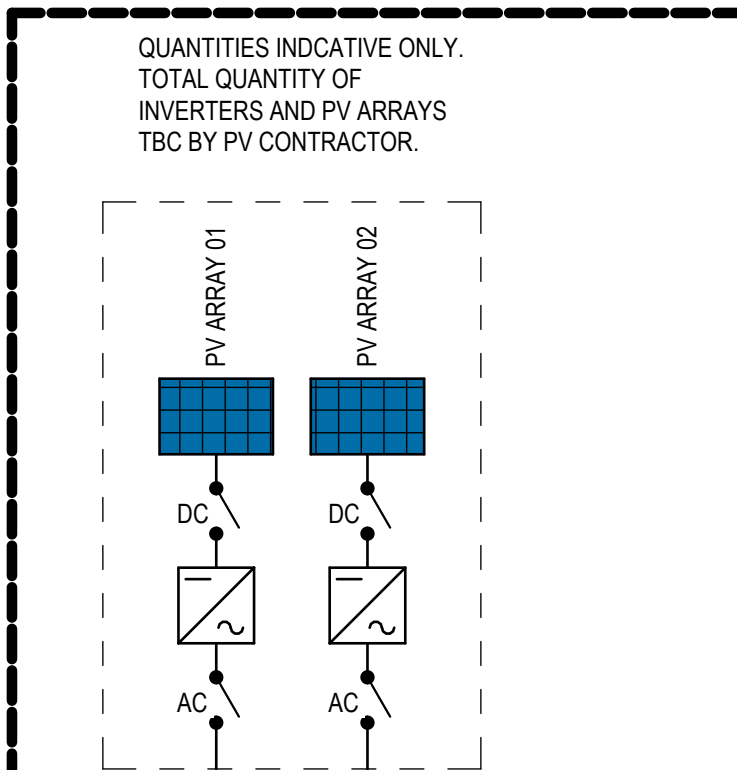
EXTERNAL
ROOF/PLANT

SECOND FLOOR

FIRST FLOOR

GROUND FLOOR

COST OPTION 1: PROVIDE NEW PV SYSTEM. PERFORM IN
ADDITION TO STRIP OUT OF EXISTING PV SYSTEM.



UTILISE EXISTING SPARE WAYS IN LV
SWITCHBOARD TO PROVIDE NEW PV
CONNECTION.
BREAKER TO BE PROVIDED WITH A LOSS OF
MAINS PROTECTION RELAY

COST OPTION 2: PROVIDE COST OF
INVERTER REPLACEMENT, TESTING AND
COMMISSIONING ONLY.

COST OPTION 1: ISOLATE AND STRIP OUT.
REDUNDANT EXISTING PHOTOVOLTAIC
SYSTEM AT END OF SERVICEABLE LIFE.
PERFORM IN CONJUNCTION WITH
PROVIDING A NEW PV SYSTEM.