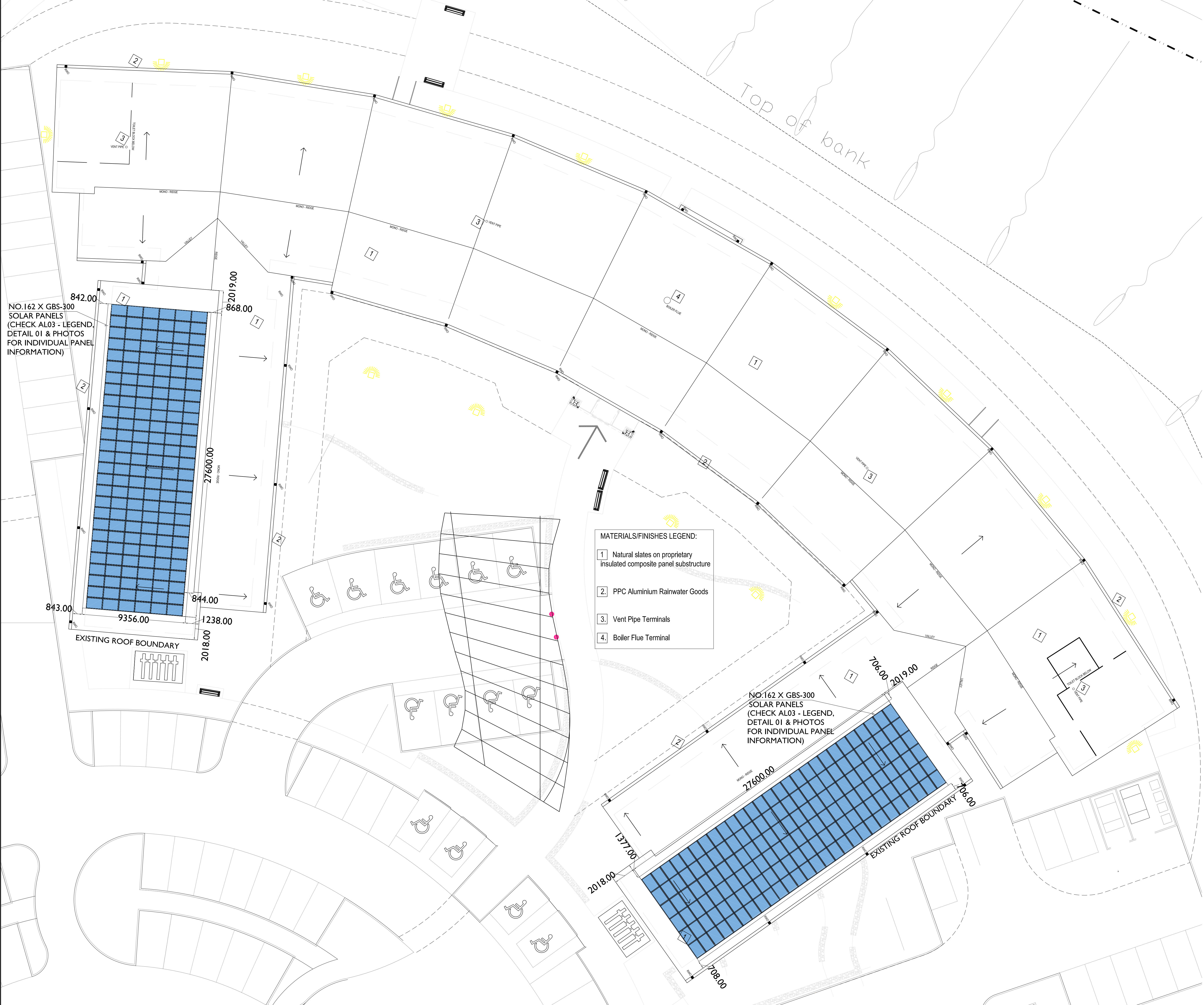
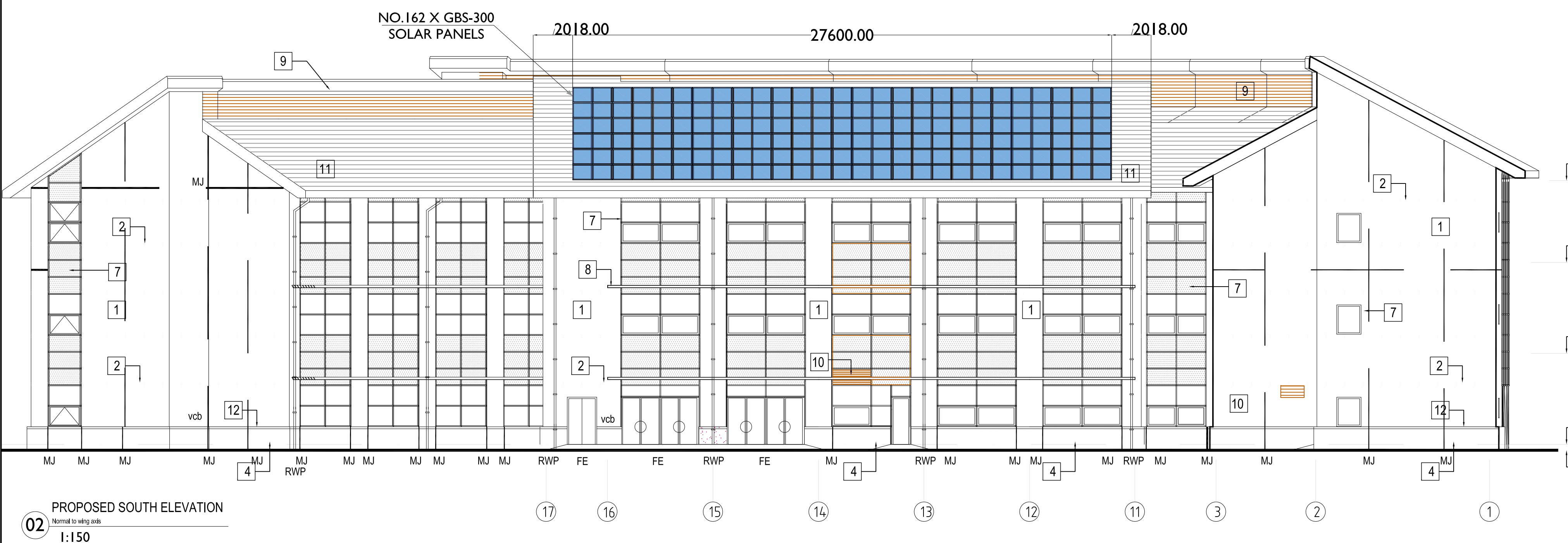
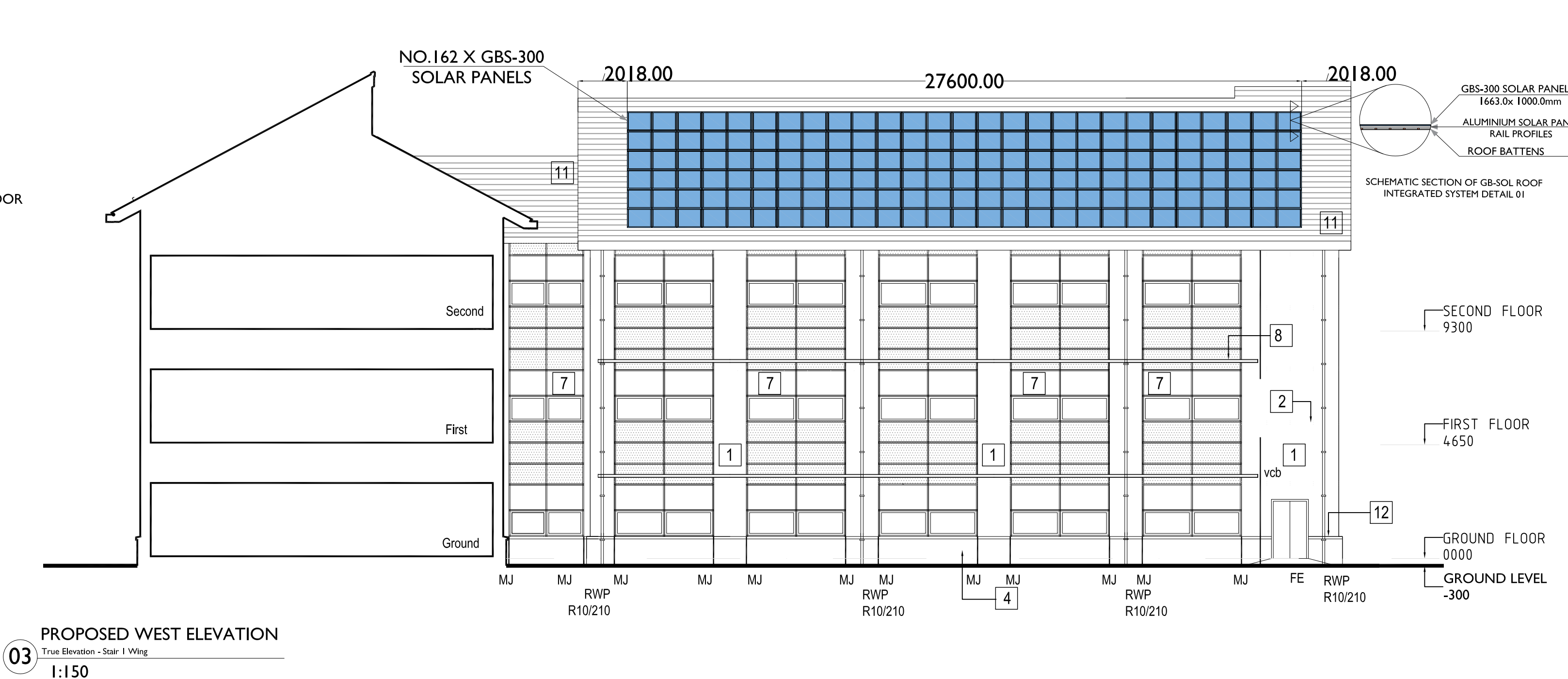




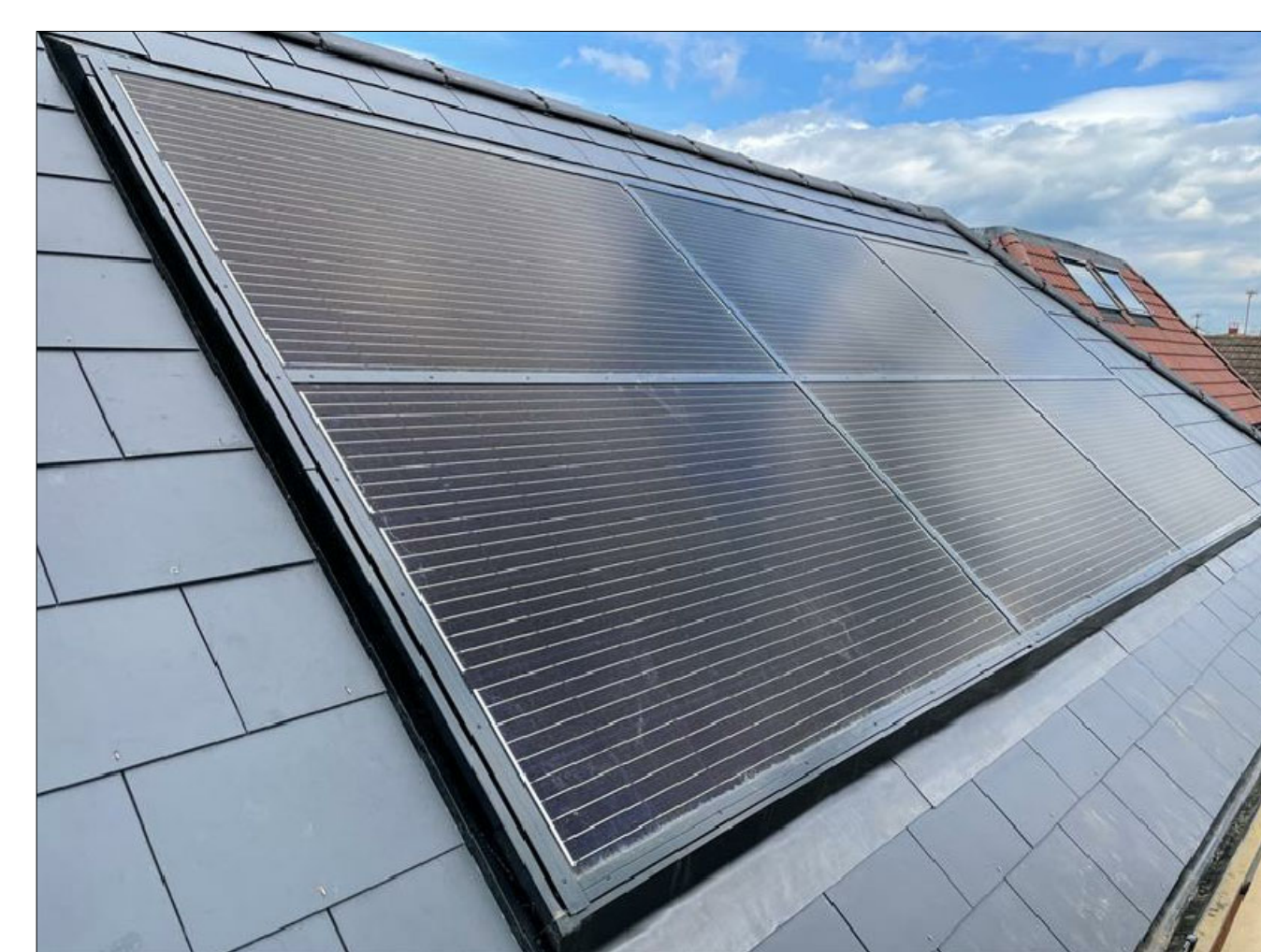
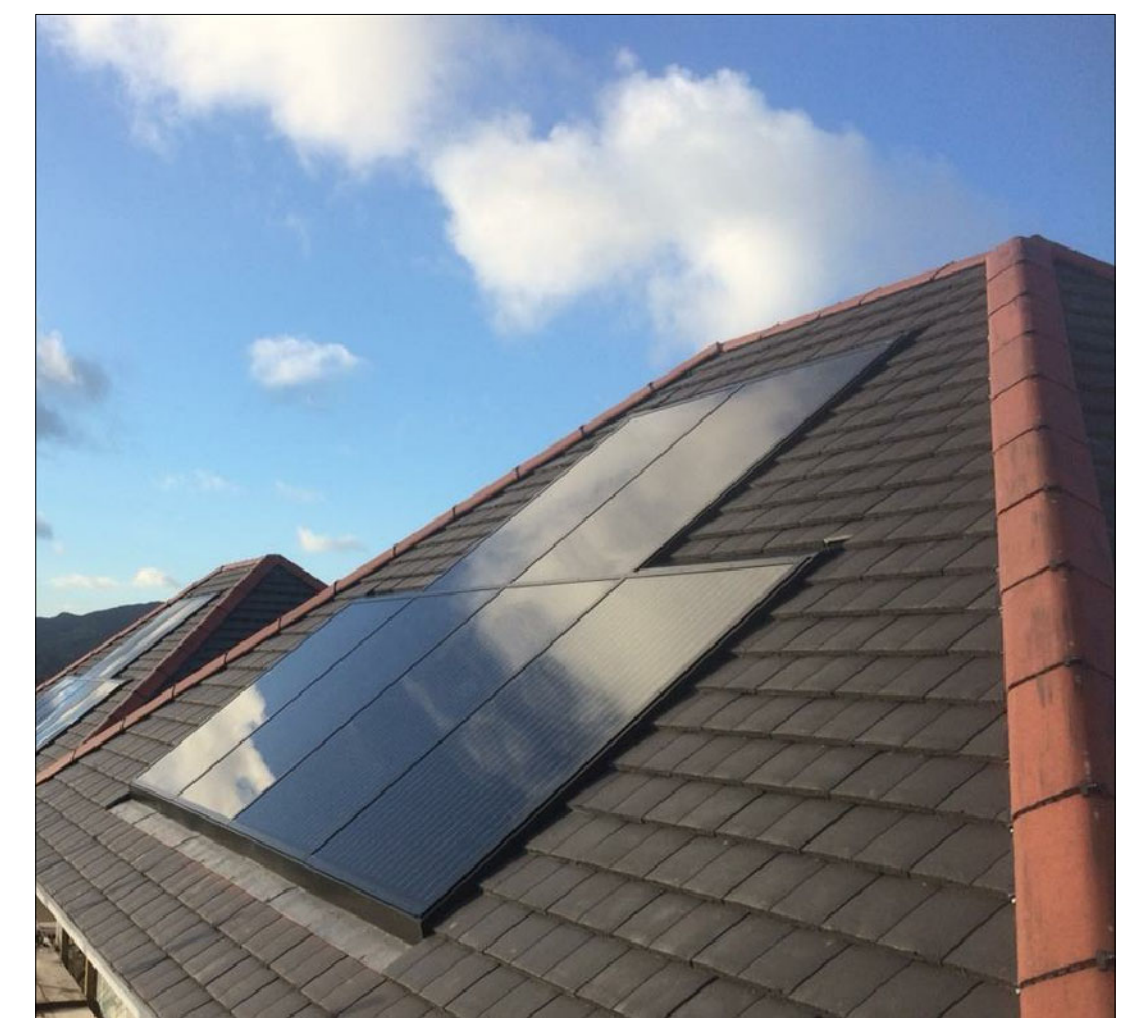
01 SITE PLAN WITH PROPOSED SOLAR PV SYSTEM
1:150



02 PROPOSED SOUTH ELEVATION
1:150



03 PROPOSED WEST ELEVATION
1:150



04 EXAMPLE OF PROPOSED SOLAR PANEL SCHEME & FRAME
TO BE CONFORMED WITH SPECIALIST ON SITE

LEGEND

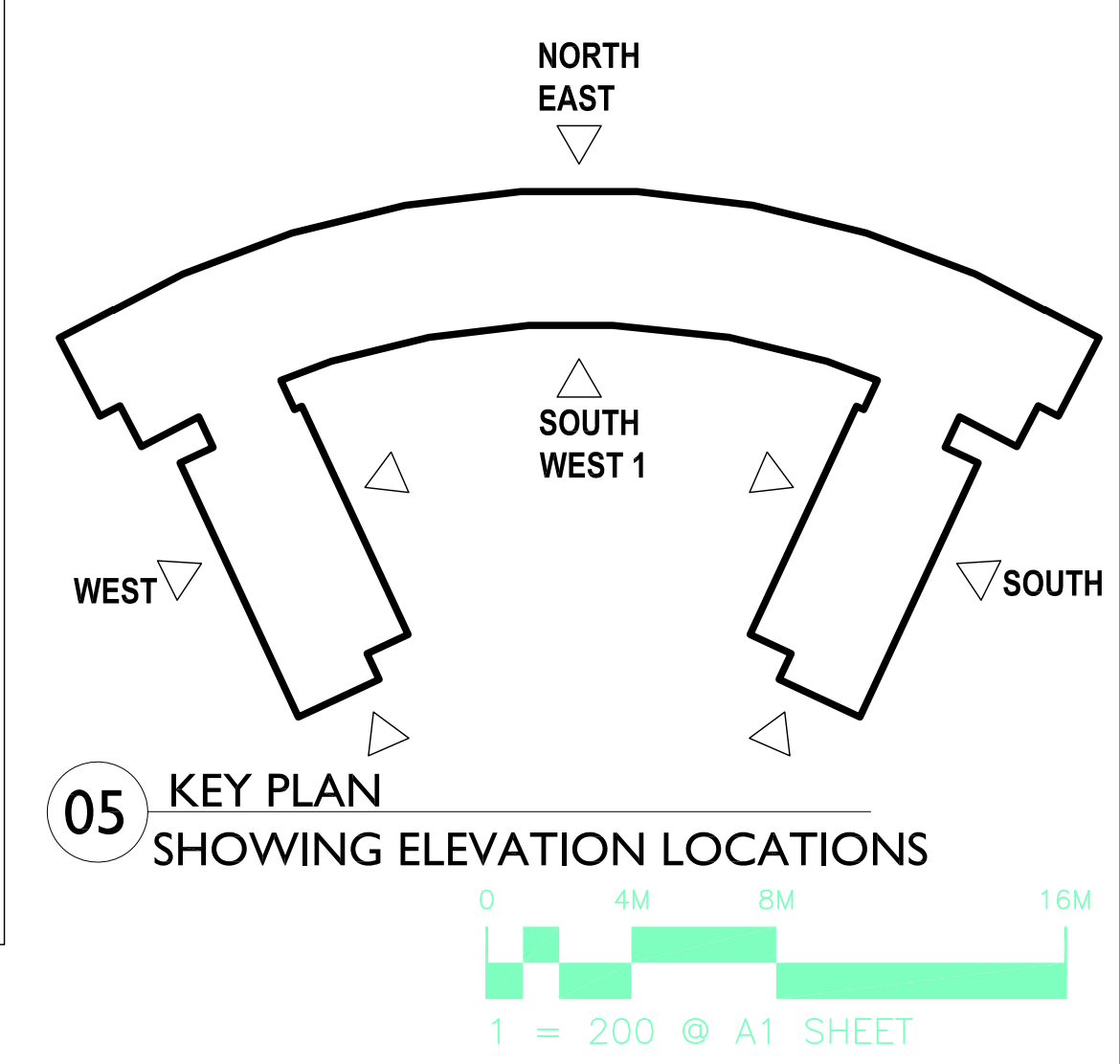
NEW PV SOLAR PANEL - EXACT LOCATION AND DETAILS TO BE CONFIRMED BY PV SPECIALIST. PROPOSED TO HAVE NO.4 ROWS OF NO.27 PANELS, EQUATING TO NO.162 PANELS PER ROOF IN PORTRAIT ORIENTATION.

PROPOSED SOLAR PV NOTES FROM SUPPLIER/INSTALLER:

- A SOLAR PV SYSTEM TO BE LOCATED ON THE SOUTH & WEST ROOF OF BUILDING.
- THE SYSTEM CONSISTS OF AN ALUMINIUM FRAME FITTED ONTO THE ROOF BATTENS, AND THEN WELSH MADE SOLAR PANELS ARE SET INTO THIS AND RIVETED INTO PLACE WITH ANODISED ALUMINIUM CAP STRIPS. THE ROOF WOULD BE FINISHED WITH A SUBROUND OF AROUND 0.5M OF THE EXISTING NATURAL SLATES, WHICH WOULD FINISH THE ROOF EDGES.
- SOLAR PANELS TO BE MOUNTED ON RAILS, WITH THE RAILS FIRED INTO THE RAFTERS VIA HOOKS. THAT GO UNDER THE ROOF SLATES OR TILES. TILES ARE LAID LOOSE ON BATTENS AND SO ARE EASILY LIFTED TO ENABLE HOOKS TO BE FITTED. SLATES ARE USUALLY NAILED INTO THE BATTENS AND OVERLAP EACH OTHER THREE SLATES DEEP, SO FITTING A HOOK REQUIRES REMOVAL OF A NUMBER OF SLATES EACH TIME, USUALLY RESULTS IN A NUMBER OF BROKEN SLATES, AND THE SLATES CANNOT BE NAILED BACK IN SO HAVE TO BE HELD WITH ALTERNATIVE MOUNTINGS. FURTHERMORE, AS THE SOLAR HOOKS HAVE TO BE FITTED EVERY 1.0M TO 1.3M, NEARLY HALF OF THE SLATES ON THE ROOF WILL HAVE BEEN REMOVED BY THE TIME ALL OF THE HOOKS ARE FITTED.
- EXACT POSITION TO BE AGREED ON SITE.
- GBS-SOL SYSTEM SPECIFICATION AND PERFORMANCE:
- CONFIGURATION 162X GBS-300 PANELS ON EACH ROOF
- INSTALLED SOLAR CAPACITY 48.6KWp ON EACH ROOF = 97.2KWp IN TOTAL
- INVERTERS 2X SOLIS 20KW 2-PHASE FOR EACH ROOF = 80KW IN TOTAL
- FORECAST ANNUAL OUTPUT 72.433 KWH PA

ELEVATIONS EXISTING MATERIALS/FINISHES LEGEND:

- | | | | |
|---|---|----|---|
| 1 | BUFF COLOURED FACING BRICKWORK | 8 | HORIZONTAL SUN SHADE LOUVRES |
| 2 | RED CONTRAST BAND FACING BRICKWORK | 9 | POLYESTER POWDER COATED LOUVRES TO ROOF VOID AND PLANTROOM |
| 3 | RED CONTRAST WINDOW SURROUND FACING BRICKWORK: SEE DRGS 19/401 - 403 FOR DETAILS | 10 | 1200X600MM POLYESTER POWDER COATED LOUVRE TO KITCHEN VENTILATION SYSTEM |
| 4 | DRESSED PENNANT NATURAL STONE PLINTH, GROUND FLOOR UP TO CIL HEIGHT | 11 | NATURAL SLATES ON PROPRIETARY INSULATED COMPOSITE PANEL SUBSTRUCTURE |
| 5 | DRESSED PENNANT NATURAL STONE PORTICO, MAIN AND REAR ENTRANCES | 12 | CAST STONE PLINTH CILL UNITS |
| 6 | STRUCTURAL GLAZING TO PORTICO AND INTERFACE WITH STRUCTURAL FRAME TO BE ADVISED | | VCB - VERTICAL CAVITY BARRIER |
| 7 | POLYESTER POWDER COATED ALUMINIUM CURTAIN WALLING WITH 30% OPENING LIGHTS AND INSULATED 'LOOK-A-LIKE' SPANDREL PANELS | | MJ - MOVEMENT JOINT |



05 KEY PLAN
SHOWING ELEVATION LOCATIONS

DRAWING STATUS

PLANNING

Technical Facilities Management
Caron House, 3 Oak Tree Court, Muberry Drive, Cardiff Gate Business Park, Cardiff, CF23 8RS.
Tel: (029) 2073 6900 | Fax: (029) 2073 9255 | www.mitie.com

CLIENT NAME
WELSH GOVERNMENT

PROJECT NAME
SOLAR - PV INSTALLATION
MERTHYR TYDFIL, RHYD Y CAR

DRAWING TITLE
PROPOSED BUILDING LAYOUT, ELEVATIONS
& DETAILS

DRAWN BY GQ	CHECKED BY JH	APPROVED BY KB	DATE 15.02.2023	SCALE @ A0 AS SHOWN
PROJECT No. WG1263		DRAWING No. AL03		REV

M/PROJECTS/