



RIBBLE VALLEY
BOROUGH COUNCIL

FOR THE
ATTENTION OF

18 JUL 2011

For office use only

Application No: 332400111055776-PP

Date received

Fee paid £

Receipt No:

Council Offices, Church Walk, Clitheroe, Lancashire. BB7 2RA Tel: 01200 425111 www.ribblevalley.gov.uk

Application for Planning Permission. Town and Country Planning Act 1990

You can complete and submit this form electronically via the Planning Portal by visiting www.planningportal.gov.uk/apply

Publication of applications on planning authority websites

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department

Please complete using block capitals and black ink

It is important that you read the accompanying guidance notes as incorrect completion will delay the processing of your application

1. Applicant Name and Address

Title: First name:
Last name:
Company (optional):
Unit: House number: House suffix:
House name: CALDERSTONES PARTNERSHIP
NHS FOUNDATION TRUST
Address 1: TRUST HEADQUARTERS
Address 2: MITTON ROAD
Address 3: WHALLEY
Town: CLITHEROE
County: LANCOS
Country: UK
Postcode: BB7 9PE

2. Agent Name and Address

Title: MR First name: PETER
Last name: MARCH
Company (optional): CLA
Unit: 17 House number: House suffix:
House name: CONNECT BUSINESS VILLAGE
Address 1: 24 DERBY ROAD
Address 2:
Address 3:
Town: LIVERPOOL
County: MERSEYSIDE
Country: UK
Postcode: L5 9PR

3. Description of the Proposal

Please describe the proposed development, including any change of use:

INSTALLATION OF SOLAR PHOTOVOLTAIC PANELS ON
EXISTING BUILDING, MAPLEWOOD PHASE ONE,
AS PREVIOUSLY REFERRED TO IN APPLICATION 3/2010/0272
DESIGN & ACCESS STATEMENT ITEM 9.3

- See attached letter from agent 18-7-11

Has the building, work or change of use already started?

☐ Yes

☒ No

If Yes, please state the date when building,
work or use were started (DD/MM/YYYY):

(date must be pre-application submission)

Has the building, work or change of use been completed?

☐ Yes

☒ No

If Yes, please state the date when the building, work
or change of use was completed: (DD/MM/YYYY):

(date must be pre-application submission)

4. Site Address Details

Please provide the full postal address of the application site

Unit: House number: House suffix:

House name: MAPLEWOOD

Address 1: CALDER STONES PARTNERSHIP
NHS FOUNDATION TRUST

Address 2: MITON ROAD

Address 3: WHALEY

Town: CLITHEROE

County: LANCS

Postcode (optional): BB7 9PE

Description of location or a grid reference
(must be completed if postcode is not known):

Easting: Northing:

Description:

5. Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application? ☒ Yes ☐ No

If Yes, please complete the following information about the advice you were given (This will help the authority to deal with this application more efficiently)

Please tick if the full contact details are not known, and then complete as much as possible: ☐

Officer name: COLIN SHARPE

Reference:

Date (DD/MM/YYYY): 14/06/2011
(must be pre-application submission)

Details of pre-application advice received?

EMAIL ON 13/06/2011 AND
TELEPHONE CONVERSATION ON
14/06/2011

6. Pedestrian and Vehicle Access, Roads and Rights of Way

Is a new or altered vehicle access proposed to or from the public highway? ☐ Yes ☒ No

Is a new or altered pedestrian access proposed to or from the public highway? ☐ Yes ☒ No

Are there any new public roads to be provided within the site? ☐ Yes ☒ No

Are there any new public rights of way to be provided within or adjacent to the site? ☐ Yes ☒ No

Do the proposals require any diversions /extinguishments and/or creation of rights of way? ☐ Yes ☒ No

If you answered Yes to any of the above questions, please show details on your plans/drawings and state the reference of the plan (s)/drawings(s)

7. Waste Storage and Collection

Do the plans incorporate areas to store and aid the collection of waste? ☐ Yes ☒ No

If Yes, please provide details:

NOT APPLICABLE

Have arrangements been made for the separate storage and collection of recyclable waste? ☐ Yes ☒ No

If Yes, please provide details:

NOT APPLICABLE

8. Authority Employee / Member

With respect to the Authority, I am: (a) a member of staff
(b) an elected member
(c) related to a member of staff
(d) related to an elected member

Do any of these statements apply to you? ☐ Yes ☒ No

If Yes, please provide details of the name, relationship and role

9. Materials

If applicable, please state what materials are to be used externally. Include type, colour and name for each material:

	Existing (where applicable)	Proposed	Not applicable	Don't Know
Walls			☒	☐
Roof	GREY CONCRETE TILES	SOLAR PHOTOVOLTAIC PANELS FINISHED APPROX 70 mm FROM FACE OF EXISTING ROOF BLACK COLOUR	☐	☐
Windows			☒	☐
Doors			☒	☐
Boundary treatments (e.g. fences, walls)			☒	☐
Vehicle access and hard-standing			☒	☐
Lighting			☒	☐
Others (please specify)			☒	☐

Are you supplying additional information on submitted plan(s)/drawing(s)/design and access statement?

☒ Yes

☐ No

If Yes, please state references for the plan(s)/drawing(s)/design and access statement:

DRAWINGS 08-095 - 08, 09 & 109 REV A
KYOCERA TECHNICAL INFORMATION

10. Vehicle Parking NOT APPLICABLE

Please provide information on the existing and proposed number of on-site parking spaces:

Type of Vehicle	Total Existing	Total proposed (including spaces retained)	Difference in spaces
Cars			
Light goods vehicles/ public carrier vehicles			
Motorcycles			
Disability spaces			
Cycle spaces			
Other (e.g. Bus)			
Other (e.g. Bus)			

11. Foul Sewage **NOT APPLICABLE**

Please state how foul sewage is to be disposed of:

- ☐ Mains sewer ☐ Cess pit
☐ Septic tank ☐ Other
☐ Package treatment plant

Are you proposing to connect to the existing drainage system? ☐ Yes ☒ No

If Yes, please include the details of the existing system on the application drawings and state references for the plan(s)/drawing(s):

12. Assessment of Flood Risk

Is the site within an area at risk of flooding? (Refer to the Environment Agency's Flood Map showing flood zones 2 and 3 and consult Environment Agency standing advice and your local planning authority requirements for information as necessary)

☐ Yes ☒ No

If Yes, you will need to submit a Flood Risk Assessment to consider the risk to the proposed site

Is your proposal within 20 metres of a watercourse (e.g. river, stream or beck)? ☐ Yes ☒ No

Will the proposal increase the flood risk elsewhere? ☐ Yes ☒ No

How will surface water be disposed of?

- ☐ Sustainable drainage system ☐ Existing watercourse
☐ Soakaway ☐ Pond/lake
☐ Main sewer

NO CHANGE TO EXISTING RAINWATER SYSTEM

13. Biodiversity and Geological Conservation

To assist in answering the following questions refer to the guidance notes for further information on when there is a reasonable likelihood that any important biodiversity or geological conservation features may be present or nearby and whether they are likely to be affected by your proposals

Having referred to the guidance notes, is there a reasonable likelihood of the following being affected adversely or conserved and enhanced within the application site, or on land adjacent to or near the application site?

a) Protected and priority species:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

b) Designated sites, important habitats or other biodiversity features:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

c) Features of geological conservation importance:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

14. Existing Use

Please describe the current use of the site:

EXISTING HOSPITAL

Is the site currently vacant? ☐ Yes ☒ No

If Yes, please describe the last use of the site:

When did this use end (if known)?
DD/MM/YYYY
(date where known may be approximate)

Does the proposal involve any of the following?
If yes, you will need to submit an appropriate contamination assessment with your application

Land which is known to be contaminated? ☐ Yes ☒ No

Land where contamination is suspected for all or part of the site? ☐ Yes ☒ No

A proposed use that would be particularly vulnerable to the presence of contamination? ☐ Yes ☒ No

15. Trees and Hedges

Are there trees or hedges on the proposed development site? ☐ Yes ☒ No

And/or: Are there trees or hedges on land adjacent to the proposed development site that could influence the development or might be important as part of the local landscape character? ☐ Yes ☒ No

If Yes to either or both of the above, you may need to provide a full Tree Survey, at the discretion of your local planning authority. If a Tree Survey is required, this and the accompanying plan should be submitted alongside your application. Your local planning authority should make clear on its website what the survey should contain, in accordance with the current 'BS5837: Trees in relation to construction - Recommendations'.

16. Trade Effluent

Does the proposal involve the need to dispose of trade effluents or waste? ☐ Yes ☒ No

If Yes, please describe the nature, volume and means of disposal of trade effluents or waste

17. Residential Units (Including Conversion)

Does your proposal include the gain, loss or change of use of residential units?
If Yes, please complete details of the changes in the tables below:

☐ Yes☒ No**Proposed Housing**

Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Existing Housing

Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g)=							

Total proposed residential units (A+B+C+D)=**Total existing residential units (E+F+G+H)=****TOTAL NET GAIN or LOSS of RESIDENTIAL UNITS (Proposed Housing Grand Total - Existing Housing Grand Total):**

18. All Types of Development: Non-residential Floorspace

Does your proposal involve the loss, gain or change of use of non-residential floorspace?

☐ Yes☒ No

If you have answered Yes to the question above please add details in the following table:

Use class/type of use	Not applicable	Existing gross internal floorspace (square metres)	Gross internal floorspace to be lost by change of use or demolition (square metres)	Total gross internal floorspace proposed (including change of use)(square metres)	Net additional gross internal floorspace following development (square metres)
A1 Shops	☐				
Net tradable area:	☐				
A2 Financial and professional services	☐				
A3 Restaurants and cafes	☐				
A4 Drinking establishments	☐				
A5 Hot food takeaways	☐				
B1 (a) Office (other than A2)	☐				
B1 (b) Research and development	☐				
B1 (c) Light industrial	☐				
B2 General industrial	☐				
B8 Storage or distribution	☐				
C1 Hotels and halls of residence	☐				
C2 Residential institutions	☐				
D1 Non-residential institutions	☐				
D2 Assembly and leisure	☐				
OTHER	☐				
Please Specify	☐				
Total					

In addition, for hotels, residential institutions and hostels, please additionally indicate the loss or gain of rooms

Use class	Type of use	Not applicable	Existing rooms to be lost by change of use or demolition	Total rooms proposed (including changes of use)	Net additional rooms
C1	Hotels	☐			
C2	Residential Institutions	☐			
OTHER		☐			
Please Specify		☐			

19. Employment *NO CHANGE TO STAFF NUMBERS*

Please complete the following information regarding employees:

	Full-time	Part-time	Total full-time equivalent
Existing employees			
Proposed employees			

20. Hours of Opening *NO CHANGE TO HOURS OF OPENING*

Please state the hours of opening for each non-residential use proposed:

Use	Monday to Friday	Saturday	Sunday and Bank Holidays	Not known

21. Site Area

Please state the site area in hectares (ha)

0.52 ha

22. Industrial or Commercial Processes and Machinery

Please describe the activities and processes which would be carried out on the site and the end products including plant, ventilation or air conditioning. Please include the type of machinery which may be installed on site:

NOT APPLICABLE

Is the proposal a waste management development? ☐ Yes ☐ No

If the answer is Yes, please complete the following table:

	Not applicable	The total capacity of the void in cubic metres, including engineering surcharge and making no allowance for cover or restoration material (or tonnes if solid waste or litres if liquid waste)	Maximum annual operational throughput in tonnes (or litres if liquid waste)
Inert landfill	☐		
Non-hazardous landfill	☐		
Hazardous landfill	☐		
Energy from waste incineration	☐		
Other incineration	☐		
Landfill gas generation plant	☐		
Pyrolysis/gasification	☐		
Metal recycling site	☐		
Transfer stations	☐		
Material recovery/recycling facilities (MRFs)	☐		
Household civic amenity sites	☐		
Open windrow composting	☐		
In-vessel composting	☐		
Anaerobic digestion	☐		
Any combined mechanical, biological and/or thermal treatment (MBT)	☐		
Sewage treatment works	☐		
Other treatment	☐		
Recycling facilities construction, demolition and excavation waste	☐		
Storage of waste	☐		
Other waste management	☐		
Other developments	☐		

Please provide the maximum annual operational throughput of the following waste streams:

Municipal	
Construction, demolition and excavation	
Commercial and industrial	
Hazardous	

If this is a landfill application you will need to provide further information before your application can be determined. Your waste planning authority should make clear what information it requires on its website.

23. Hazardous Substances

Does the proposal involve the use or storage of any of the following materials in the quantities stated below? ☐ Yes ☐ No ☒ Not applicable

If Yes, please provide the amount of each substance that is involved:

Acrylonitrile (tonnes)	Ethylene oxide (tonnes)	Phosgene (tonnes)
Ammonia (tonnes)	Hydrogen cyanide (tonnes)	Sulphur dioxide (tonnes)
Bromine (tonnes)	Liquid oxygen (tonnes)	Flour (tonnes)
Chlorine (tonnes)	Liquid petroleum gas (tonnes)	Refined white sugar (tonnes)

Other:

Other:

Amount (tonnes):

Amount (tonnes):

24. Ownership Certificates

One Certificate A, B, C, or D, must be completed, together with the Agricultural Holdings Certificate with this application form

CERTIFICATE OF OWNERSHIP - CERTIFICATE A

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

I certify/ The applicant certifies that on the day 21 days before the date of this application nobody except myself/ the applicant was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land or building to which the application relates

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

Candy & Liffhaze Ltd.

15/07/2011

CERTIFICATE OF OWNERSHIP - CERTIFICATE B

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

I certify/ The applicant certifies that I have/ the applicant has given the requisite notice to everyone else (as listed below) who, on the day 21 days before the date of this application, was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land or building to which this application relates

Name of Owner	Address	Date Notice Served

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

CERTIFICATE OF OWNERSHIP - CERTIFICATE C

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

I certify/ The applicant certifies that:

- Neither Certificate A or B can be issued for this application
- All reasonable steps have been taken to find out the names and addresses of the other owners (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of the land or building, or of a part of it, but I have/ the applicant has been unable to do so

The steps taken were:

Name of Owner	Address	Date Notice Served

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

On the following date (which must not be earlier than 21 days before the date of the application):

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

24. Ownership Certificates (continued)**CERTIFICATE OF OWNERSHIP - CERTIFICATE D****Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12**

I certify/ The applicant certifies that:

- Certificate A cannot be issued for this application
- All reasonable steps have been taken to find out the names and addresses of everyone else who, on the day 21 days before the date of this application, was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land to which this application relates, but I have/ the applicant has been unable to do so

The steps taken were:

--

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

--

On the following date (which must not be earlier than 21 days before the date of the application):

--

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

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25. Agricultural Land Declaration**AGRICULTURAL LAND DECLARATION****Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12****Agricultural Land Declaration - You Must Complete Either A or B**

(A) None of the land to which the application relates is, or is part of, an agricultural holding

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

--

Candy & Jeffcase Ltd

15/07/2011

(B) I have/ The applicant has given the requisite notice to every person other than myself/ the applicant who, on the day 21 days before the date of this application, was a tenant of an agricultural holding on all or part of the land to which this application relates, as listed below:

Name of Tenant	Address	Date Notice Served

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

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26. Planning Application Requirements - Checklist

Please read the following checklist to make sure you have sent all the information in support of your proposal. Failure to submit all information required will result in your application being deemed invalid. It will not be considered valid until all information required by the Local Planning Authority has been submitted.

The original and 3 copies of a completed and dated application form:



The correct fee:



The original and 3 copies of the plan which identifies the land to which the application relates drawn to an identified scale and showing the direction of North:



The original and 3 copies of a design and access statement, if required (see help text and guidance notes for details):



The original and 3 copies of the completed, dated Ownership Certificate (A, B, C, or D - as applicable):



The original and 3 copies of other plans and drawings or information necessary to describe the subject of the application:



The original and 3 copies of the completed, dated Article 12 Certificate (Agricultural Holdings):



27. Declaration

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/drawings and additional information

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

Candy & Loft House Ltd

15/07/2011

(date cannot be pre-application)

28. Applicant Contact Details

Telephone numbers

Country code: National number: Extension number:

Country code: Mobile number (optional):

Country code: Fax number (optional):

Email address (optional):

29. Agent Contact Details

Telephone numbers

Country code: National number: Extension number:

Country code: Mobile number (optional):

Country code: Fax number (optional):

Email address (optional):

pmarch@condylgfhhouse.co.uk

30. Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land? ☐ Yes ☒ No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact? (Please select only one)

☒ Agent

☐ Applicant

☐ Other (if different from the agent/applicant's details)

If Other has been selected, please provide:

Contact name:

Telephone number:

Email address:

Our Ref: 08-095/PM
18th July 2011

Planning Department
Ribbles Valley Borough Council
Council Offices
Church Walk
CLITHEROE
Lancashire
BB7 2RA

For the attention of Louise Blatchford

Dear Sirs,

Re: Your ref no. 842

**Planning Application for Calderstones Partnership NHS Foundation Trust,
Solar Photovoltaic Panels on existing building, Maplewood Phase 1**

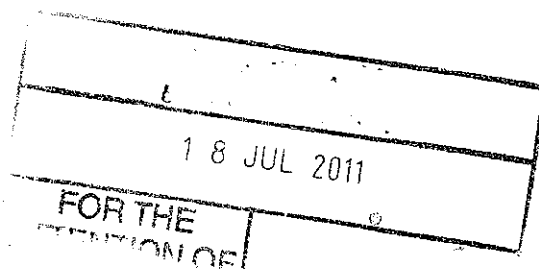
Further to our application and letter sent to you on 15th July 2011, and your subsequent email of today's date, we confirm our agreement for the project description to be changed to 'Installation of solar photovoltaic panels on existing building, Maplewood Phase One'.

We also attach four copies of our revised drawing numbered 08-095-109 RevB, which includes dimensions on the slope of the roof as requested.

If you need any further information, please let us know.

Yours sincerely,
C.L.A.,

Peter March



P March

Enc.

cc (by email)

W Wilkinson, Calderstones Partnership NHS Foundation Trust
A Rockett, Capita Symonds



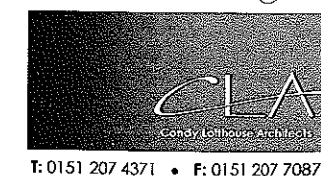


- NOTES**
- The drawing is copyright of Candy and Lofthouse Ltd and may not be reproduced in any way without their specific permission.
 - All dimensions are to be checked on site. Do not scale from this drawing.
 - This drawing has been prepared by a suitably qualified surveyor.
- MATERIALS PROHIBITED**
- High alumina cement in load bearing structures.
 - Wood wool slabs used as an external cladding or in situ of elements.
 - Calcium chloride used as an additive in mixing concrete for use in reinforced concrete.
 - Aggregates for use in reinforced concrete which do not comply with British Standard Specification BS 882 or the requirements of the specification of the material.
 - Calcium chloride salts or brines.
 - Asbestos or asbestos based products including pipe lagging.
 - Lead or any material containing lead which may be ingested, absorbed or absorbed.
 - Used kerbside guttering or materials which may be hazardous with reference to the length set by the local authority or the date of specification of the material.
 - Materials which are generally composed of mineral fibres or other materials or naturally occurring which have a diameter of 2 microns or less and a length of 200 microns or less, or which contain any fibres not tested or otherwise stabilised to ensure that fibre migration is prevented.

- Key:**
- Area affected by the works
 - Other areas owned by the Trust
 - Proposed Solar panels

GRID REF SD7237
EASTING 372300
NORTHING 437100

- REVISION DETAILS**
- Preliminary
 - For Approval
 - Tender
 - Construction
- CLIENT**
Calderstones Partnership
NHS Foundation Trust
- PROJECT**
Solar panels
on Maplewood Phase 1
- DRAWING TITLE**
Site Location Plan
- SCALE** 1:1250 @ A3
DRAWN BY SAJ
DATE Jul 11
- DRAWING NO.** 08-095-99



STANDARD REFERENCE & ABBREVIATIONS

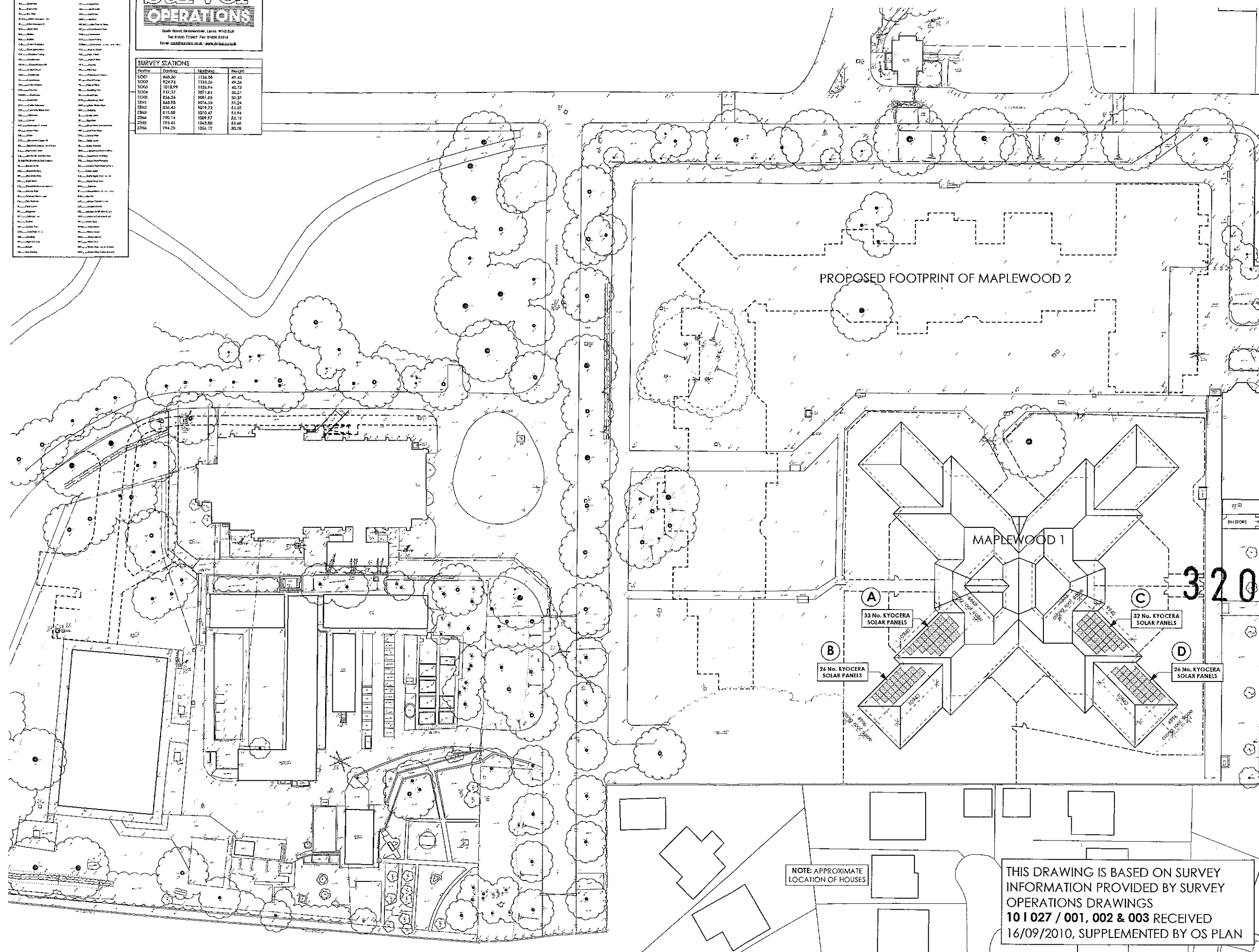
AS...Asphalt	BS...Brickwork	CS...Concrete	DS...Drainage
ES...Earth	FS...Fence	GS...Gravel	HS...Hedge
IS...Iron	JS...Joints	KS...Kiln	LS...Lime
MS...Masonry	NS...Nails	OS...Ore	PS...Paint
QS...Quarry	RS...Road	SS...Sand	TS...Timber
US...Upland	VS...Vine	WS...Water	XS...X-ray
YS...Yard	ZS...Zinc	AS...Asphalt	BS...Brickwork
CS...Concrete	DS...Drainage	ES...Earth	FS...Fence
GS...Gravel	HS...Hedge	IS...Iron	JS...Joints
KS...Kiln	LS...Lime	MS...Masonry	NS...Nails
OS...Ore	PS...Paint	QS...Quarry	RS...Road
SS...Sand	TS...Timber	US...Upland	VS...Vine
WS...Water	XS...X-ray	YS...Yard	ZS...Zinc

Survey
OPERATIONS

South Street, Birmingham, Lanes. W13 3JH
Tel: 0121 772 2222 Fax: 0121 772 2223
Email: info@surveyops.co.uk www.surveyops.co.uk

SURVEY STATIONS

Name	Easting	Northing	Height
SO01	865.30	1124.08	49.43
SO02	924.76	1131.35	49.34
SO03	1018.99	1132.94	48.73
SO04	917.17	1071.81	50.21
SO05	854.34	1081.65	50.37
SO11	843.95	1014.26	51.24
SO12	836.43	1019.23	51.25
SO13	815.28	1010.47	51.94
SO14	770.14	1009.97	52.12
SO15	773.45	1043.80	51.66
SO16	774.23	1056.12	52.78



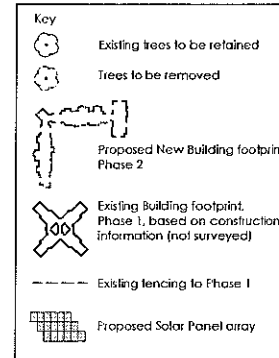
NOTES

- 1. The drawings are the property of Survey Operations Ltd. and shall remain the property of Survey Operations Ltd. if they are not returned to the company.
- 2. All dimensions are given in metres unless otherwise stated.
- 3. The drawings are to be used for information only and are not to be used for any other purpose.
- 4. The drawings are to be used for information only and are not to be used for any other purpose.

MATERIALS PROHIBITED

- 1. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 2. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 3. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 4. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 5. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 6. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 7. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 8. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 9. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.
- 10. All materials used in the construction of the building shall be of a quality and standard as specified in the specification.

NOTE: NORTH POINT BASED
ON DRAWING 08-095-101



- 1. Dimensions added 18-07-11 SAJ
- 2. No additional panels 28-06-11 JC
- 3. Preliminary
- 4. For Approval
- 5. Tender
- 6. Construction

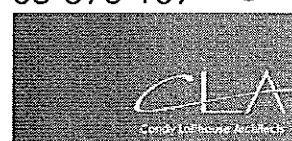
Calderstones NHS Trust

Maplewood Phase 2
PRELIMINARY WORKS

Solar Panel Locations
on Maplewood 1

1:500 @ A2 SAJ Jun '11

08-095-109 (B)



T: 0151 207 4371 • F: 0151 207 7087

THIS DRAWING IS BASED ON SURVEY
INFORMATION PROVIDED BY SURVEY
OPERATIONS DRAWINGS
101027 / 001, 002 & 003 RECEIVED
16/09/2010, SUPPLEMENTED BY OS PLAN

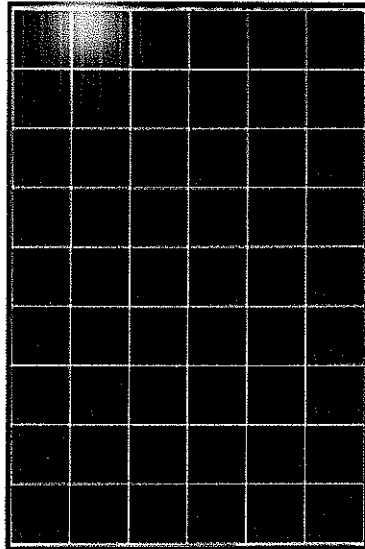
NOTE: APPROXIMATE
LOCATION OF HOUSES



KD215GH-2PU



High efficiency multicrystal photovoltaic module



EXAMPLES OF APPLICATION

- Grid-connected systems, for e.g.
 - Residential solar power systems
 - Public and industrial solar power systems
- Solar power stations



CUTTING-EDGE TECHNOLOGY

Exhaustive research work and continuous further development of production processes enable the integrated Kyocera high-performance solar cells with a standard size of 156 mm x 156 mm to achieve over 16 % efficiency, guaranteeing an extremely high annual yield of energy from the photovoltaic system.

To protect against the harshest weather conditions, the cells are embedded between a reinforced glass covering and EVA foil, and are sealed with a PET foil backing. The laminate is set in a sturdy aluminium frame which is easy to assemble. The module fulfils test conditions according to IEC 61215 ed. 2 for a surface load of 5,400N/m².

The junction box on the module backside is equipped with bypass diodes that eliminate the risk of the individual solar cells overheating (hot spot effect). Many series-connected photovoltaic modules can be easily wired using pre-assembled solar cables and multi-contact plugs.

Kyocera manufactures all the components at its own production sites – without buying in semi-finished products – to ensure consistently high product quality.

TUVdotCOM Service: Internet platform
for tested quality and service
TUVdotCom-ID: 0000023299
IEC 61215 ed. 2 IEC 61730 and
Safety Class II
Kyocera is ISO 9001 and ISO 14001
certified and registered

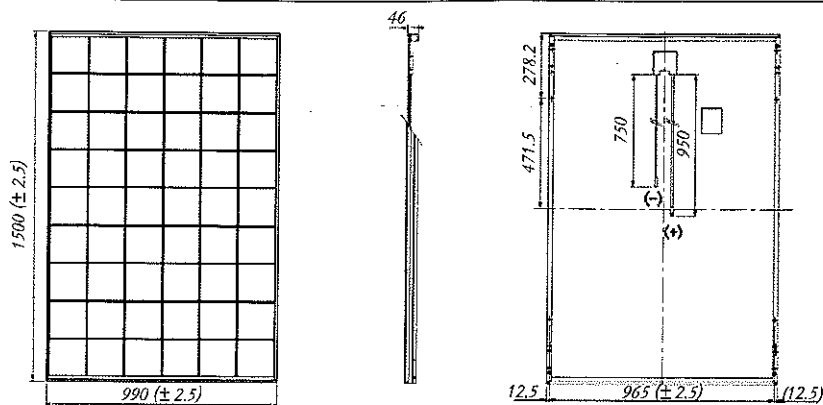


**KYOCERA
SOLAR**

We care!

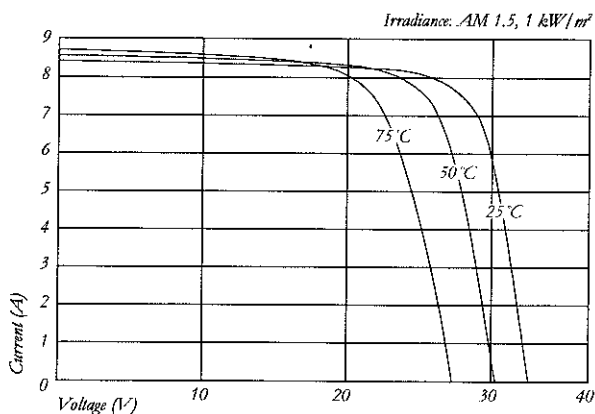
SPECIFICATIONS

in mm

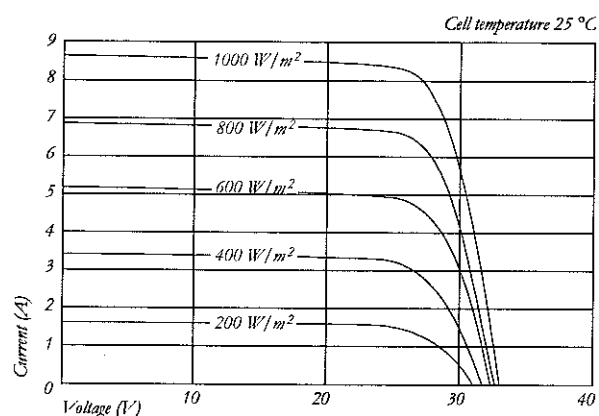


ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels



ELECTRICAL PERFORMANCE

PV Module Type	KD215GH-2PU	
At 1000 W/m² (STC)*		
Maximum Power	[W]	215
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	26.6
Maximum Power Current	[A]	8.09
Open Circuit Voltage (V _{OC})	[V]	33.2
Short Circuit Current (I _{SC})	[A]	8.78
At 800 W/m² (NOCT)**		
Maximum Power	[W]	152
Maximum Power Voltage	[V]	23.6
Maximum Power Current	[A]	6.47
Open Circuit Voltage (V _{OC})	[V]	30.0
Short Circuit Current (I _{SC})	[A]	7.12
NOCT	[°C]	47.9
Power Tolerance	[%]	+5 / -3
Maximum Reverse Current I _R	[A]	15
Series Fuse Rating	[A]	15
Temperature Coefficient of V _{OC}	[V/°C]	-1.20x10 ⁻¹
Temperature Coefficient of I _{SC}	[A/°C]	5.27x10 ⁻³
Temperature Coefficient of Max. Power	[W/°C]	-9.91x10 ⁻¹
Reduction of Efficiency (from 1000 W/m² to 200 W/m²)	[%]	6.0

DIMENSIONS

Length	[mm]	1500 (±2.5)
Width	[mm]	990 (±2.5)
Depth / incl. Junction Box	[mm]	46
Weight	[kg]	18
Cable	[mm]	(+)950 / (-)750
Connection Type	MC PV-KBT3 / MC PV-KST3	
Junction Box	[mm]	105x108x20
IP Code	IP65	

GENERAL INFORMATION

Performance Guarantee	10*** / 20 years****
Warranty	5 years

CELLS

Number per Module	54
Cell Technology	polycrystalline
Cell Shape (square)	[mm] 156x156
Cell Bonding	3 busbar

* Electrical values under standard test conditions (STC): irradiance of 1000 W/m², air mass AM 1.5 and cell temperature of 25 °C

** Electrical values under normal operating cell temperature (NOCT): irradiance of 800 W/m², air mass AM 1.5, wind speed of 1 m/s and ambient temperature of 20 °C

*** 10 years on 90 % of the minimally specified power P under standard test conditions (STC)

**** 20 years on 80 % of the minimally specified power P under standard test conditions (STC)

Your local Kyocera dealer:

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