

From: Ashley Line
Sent: 10 September 2022 12:48
To: Lucy Gibson
Subject: Re: Stray Head Farm, Littlebeck

Hello Lucy,

I hope that you are well,

Just a quick update,

I have updated the drawings with the revised extension arrangement, these have the stone pillar and the timber cladding removed.

I shall be in touch in due course with revised polytunnel locations etc.

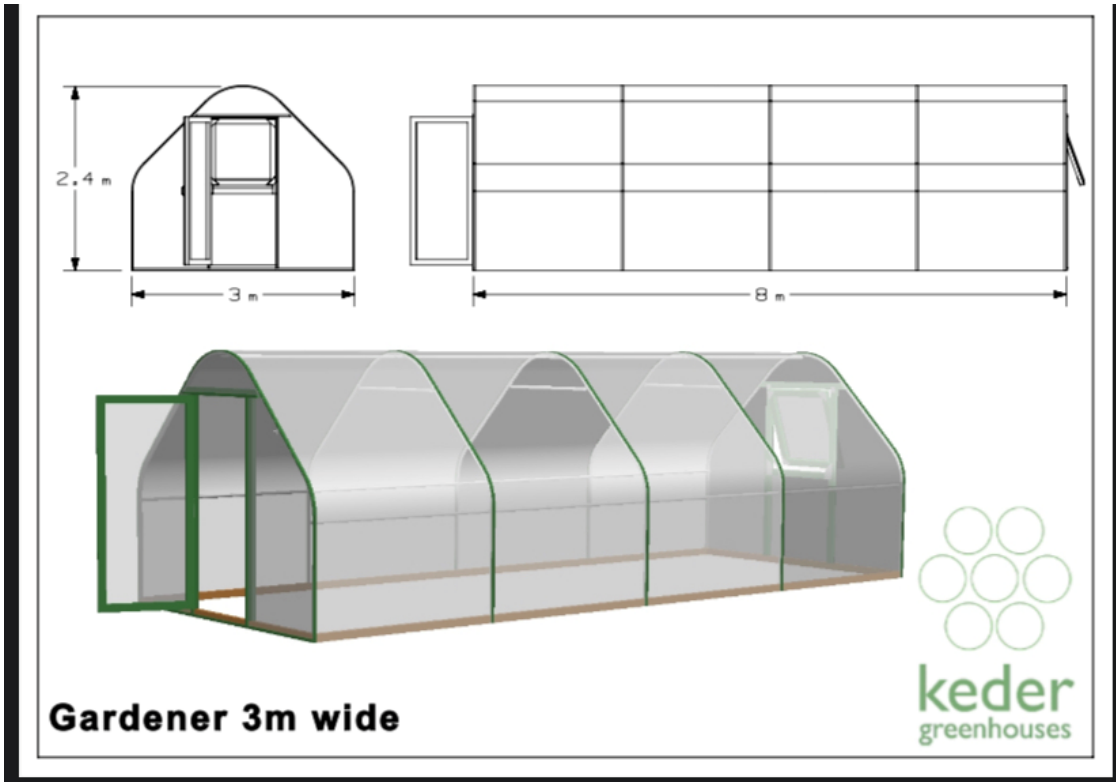
Details of the actual tunnel are here for full transparency along with the solar installation.

Please note that due to the current demand for solar, and the effects of Brexit and other factors, the specification listed here is likely to change. Therefore a condition would be applicable if the authority requires a certain specification to be upheld.

Many thanks,

Kind regards,

Ashley



Ashley Line
Director

NYMNPA
12/09/2022



a: The Studio, 3 Dale View, Thornton le Dale, Pickering, YO18 7LJ
m: 07825166174

w: www.line-architecture.co.uk

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ESTIMATE

Rosalyn Rayment
Stray Head Farm
Littlebeck
YO22 5EY

RE: Solar PV System for Above Address

Estimate No: PR/220304RAY.01/PV

Estimate Date: 04 April 2022

Dear Rosalyn,

Thank you for considering Pure Renewables for your renewable energy requirements. Following your initial enquiry, we have set out within the following our estimate for the design, supply, installation, and commissioning of a Solar PV system for the above address.

Pure Renewables was founded in 2007 on a vision to make renewable energy accessible to everyone. Built on core values of integrity, diligence and excellence, we bring together innovative technologies, providing solutions unique to you and your property.

As a company not tied to any one manufacturer, we have the ability to design bespoke systems to meet your requirements. Coupling this with our years of experience means we can offer you an ideal solution using only the best products possible.

Our dedicated team strictly follow the guidelines set out by the Microgeneration Certification Scheme (MCS) at every stage, so you can be confident in the systems we specify. Also, as members of the Renewable Energy Consumer Code and the Consumer Protection Association, you can be confident in us too.

As your appointed consultant, I will be looking after your project and will be available to answer any questions or queries that you may have. Please feel free to contact me by the following details:

Telephone:

Email:

We have set out our estimate below into four sections;

1. Specification
2. Installation
3. Estimate
4. PV Performance Estimates

Should you have any questions please do not hesitate to contact me.

Yours sincerely,

Natalie Bamforth
Design and Specification Apprentice



1. Specification

Please find our estimate for a 4.95kWp solar PV system comprising of x15 330W panels.

We have specified for JA Solar 330W MBB Percium Half-Cell All Black MC4 individually optimised monocrystalline panels. JA Solar are one of the leading solar manufacturers in the world, delivering high efficiency solar cells and modules. These panels carry an impressive 25-year performance warranty whereby it will provide an output of no less than 80% of rated output up to year 25. The manufacturer warranty against defects is 12-Years.

We have also specified a SolarEdge 3,680W Single Phase HD Wave Smart inverter NO DISPLAY. The specified inverter provides an impressive maximum efficiency of 98.8% and a 12-year manufacturer's warranty. Additionally, the inverter allows you to monitor your electricity generation and usage, enabling you to maximise the savings potential of your Solar PV system. SolarEdge are leaders in PV inverter technology and are renowned worldwide for reliable, high quality products that are both excellent in terms of efficiency and safety.



Proposed Panel Layout



Please note that this panel position is only a projection and may differ from layout shown.



2. Installation

The installation will be carried out by trained and experienced electricians who are accredited with the Microgeneration Certification Scheme (MCS)

<p>Included:</p>	<ul style="list-style-type: none"> • Pre-Sale Site Survey • Wiring connections from modules to inverter and between inverter and existing consumer unit.* • Electrical Generation Meter • Photovoltaic Panels and Mounting Equipment • G98/G99 Certified Inverter • Handover Pack and MCS Certificate • Full Installation and Commissioning of Photovoltaic Panels and Mounting Equipment • Structural Roof Survey
<p>Not Included:</p>	<ul style="list-style-type: none"> • Smart Export Tariff Application • Services of a specialist roofing contractor** • Re-seeding/re-turfing/replanting/ground settlement and any associated rectification works • Roof Access or Scaffolding***

*We require adequate first fix electrics to be available i.e enough spare ways on the consumer unit (as a new consumer unit is not included in our costings)

** We require a roofing contractor on-site for slate tiled roofs and in-roof installations.

*** It is understood the scaffolding will be available for Pure Renewables to utilise for the purpose of the proposed Solar PV installation, and that this scaffolding will be provided for by the client. If this is not the case, then please notify our design team.



Why install a SolarEdge Smart system?

Know that your PV system is producing to its maximum potential.

View historic and real-time energy production of your SolarEdge optimised system on the go with your smart phone.

Easy to use charts show your PV performance.

Compare today's production to past measurements.

Want to know how your PV system stacks up against your friends?

You can share real-time system performance details with your friends across many social platforms: email, messaging apps, Facebook and on Twitter.

Real-time and forecasted weather data.

Evaluate your system's performance by understanding what environmental conditions affect energy production.

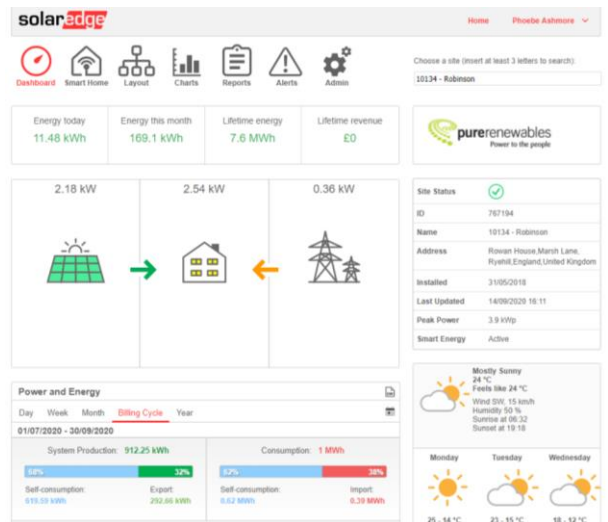


What it means to maximize self-consumption

When your household is running on pure solar, you are essentially taking advantage of free, clean energy. This is considered self-consumption – and who doesn't want more of a good thing?

Use monitoring to get the most out of the sun and maximise savings on your electricity bill.

With integrated production and consumption monitoring, you'll gain full visibility into your solar system and a better understanding of your household energy usage. Catch expensive trends before they materialise into high utility bills and adjust to ensure energy is being directed to the right places at the right times.



3. Estimate

4.95kWp Solar PV On-Roof System

Qty	Description	Cost
X 15	JA Solar 330W MBB Percium Half-Cell All Black MC4 individually optimised monocrystalline panels	
X 1	SolarEdge 3,680W Single Phase HD Wave Smart inverter NO DISPLAY	
X 1	Renusol – VarioSole+ Pantile Roof Mounting Kit	
X 1	Ancillary Pack Containing: Cabling, Switches, Meters	
X 1	Roof Survey	
X 1	Full Installation & Commissioning of System	
X 1	Carriage & Delivery	
NET-TOTAL		£ 6,560.00

Prices are valid for 30 days from date shown. All prices subject to VAT at the appropriate rate unless otherwise stated.

Qty	Description	Cost inc VAT
x 1	Roof Access/Scaffolding	£ 2,793.00

<p>1. 25% Deposit:</p> <p>This secures the order at the prices quoted and signals a commitment to accept the quote (cooling off period notwithstanding). N.B. Should 6 months pass from payment of deposit to ordering the equipment, any inflationary rises on material costs will be passed on to the client.</p>
<p>2. 40% Prior to Delivery of Solar PV Equipment to site:</p> <p>Please note that we require 2-4 weeks' notice of preferred delivery and installation date.</p>
<p>3. 30% Upon Installation of Solar PV System</p>
<p>4. 5% Upon Completion of Installation</p>



4. PV Performance Estimates

This section contains details of the estimated performance of the proposed PV array, including the annual output, the impact of shading and the financial gains.

Output Estimate

The following table of performance estimates demonstrates the total annual A.C. energy output of the array, along with details of the proposed installation.

4.95 kWp System

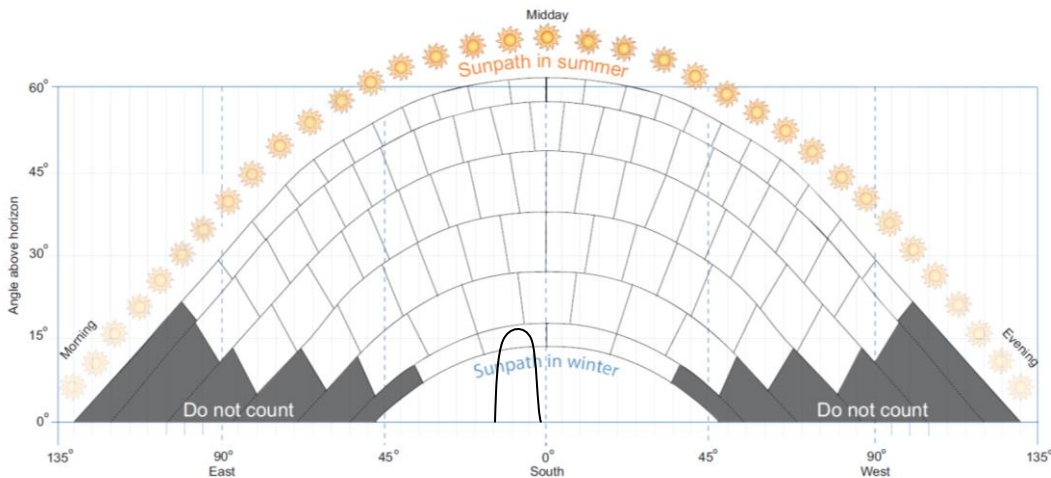
A. Installation Data	
Installed capacity of PV system – kWp (STC*)	4.95 kWp
Orientation of the PV system – degrees from South	35°
Inclination of system – degrees from horizontal	35°
Postcode region	YO22 (Zone 10)
B. Calculations	
kWh/kWp (Kk)	879
Shade factor (SF)	0.99
Estimated annual output (kWp x Kk x SF)	4,307 kWh

This system performance calculation has been undertaken using estimated values for array orientation, inclination or shading. Actual performance may be significantly lower or higher if the characteristics of the installed system vary from the estimated values.

**Standard Test Conditions (STC).*

Sun Path Diagram

We have estimated the impact of any potential shading on the proposed PV array following standard Microgeneration Certification Scheme (MCS) procedure. The sun path diagram shown below will be used to estimate the impact of shading on the proposed solar PV array. Our shading analysis concluded that your array would have a have Shading Factor (SF) of approximately 0.99. The result of our calculations has been factored into our Performance Estimates.



Please note that this shade assessment has been undertaken using the standard MCS procedure - it is estimated that this method will yield results within 10% of the actual annual energy yield for most systems.



Financial Estimate

a. kWp System Size:	4.95 kWp
b. MCS Irradiance Figure:	879
c. Total Estimated Annual Yield kWh (axbxShade Factor):	4,307 kWh
d. Estimated Saved Electricity at 27.5p/kWh (Assuming 80% Usage):	£ 947.54 /annum
e. Estimated Export with Tariff at 5.5p/kWh (Assuming 20% Exported):	£ 47.38/annum
f. Total Estimated Annual Savings:	£ 994.92
g. TOTAL Estimated Electricity Savings Over 25-Year (Excluding Inflation):	£ 24,873.00

The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location and from year to year. This quotation is based upon the Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance.



Experience More Freedom with Pure Renewables' Other Services



Under Floor Heating

Underfloor Heating Systems offer an even greater energy saving when working in conjunction with heat pumps. Offering the most comfortable and balanced warmth of any heating system. With greater efficiencies than radiators and very little maintenance Underfloor Heating helps you get that little bit more from your investment.



Air Source Heat Pumps

Air Source heat pumps combine versatility with efficiency. With typical noise levels lower than that of a household refrigerator, efficiencies of 410% and no ground works, air source heat pumps offer a sustainable option in an urban environment.



Ground Source Heat Pumps

Ground Source Heat Pumps offer another fantastic renewable heating solution. With stable source temperatures to draw from all year round, Ground Source Heat Pumps offer ultra-efficient heating for space heating and domestic hot water. Ground source collector pipe can be laid either horizontally, or vertically, meaning that Ground Source Heat Pumps are suitable for a whole variety of applications.

Cancellation Policy

As a part of our commitment to the code of conduct that members of the Renewable Energy Assurance (REA) Scheme are obliged to follow, this Cancellation Form is provided in order to protect your rights as a consumer. A 'cooling off period' is in place for fourteen working days after you sign our Contract of Sale (sent to you upon verbal acceptance of this quote). During the 'cooling off period' you may cancel the contract without paying a penalty. Within the 'cooling off period', you have the freedom to cancel the contract and request a refund of monies paid so long as Pure Solar Ltd has not already supplied you with goods or services either found on or relating to your Quotation. In this scenario, Pure Solar Ltd reserves the right to seek fair and proper compensation for such goods or services as well as the supply and handling of such goods or services. Given the nature of specifying, preparing for and installing a Solar PV system it is very unlikely that Pure Solar Ltd will supply you with goods or services inside the cooling off period, but you should be aware of the above in the unlikely event that this occurs.

Confidentiality

All documents relating to this project in whole or part, including quotations, are private and confidential and may be legally privileged. All documents relating to this project are intended for the addressee only and any disclosure, reproduction or distribution to third parties is strictly prohibited without prior written consent from Pure Solar Limited or its subsidiaries. If you are not the intended recipient of these documents in whole or part then any disclosure, reproduction, distribution or any action taken or omitted to be taken in reliance on the information in these documents is prohibited and may be unlawful.

Accreditations/qualifications

Renewable Energy Consumer Code (RECC/REAL) – No 00039743

Microgeneration Certification Scheme – NAP 15086

Pure Solar Ltd T/S Pure Renewables

Registered in England & Wales No: 6235620

VAT No: 911 4406 61

Unit 14D | iPark Industrial Estate | Innovation Drive | Hull | East Riding of Yorkshire | HU5 1SG



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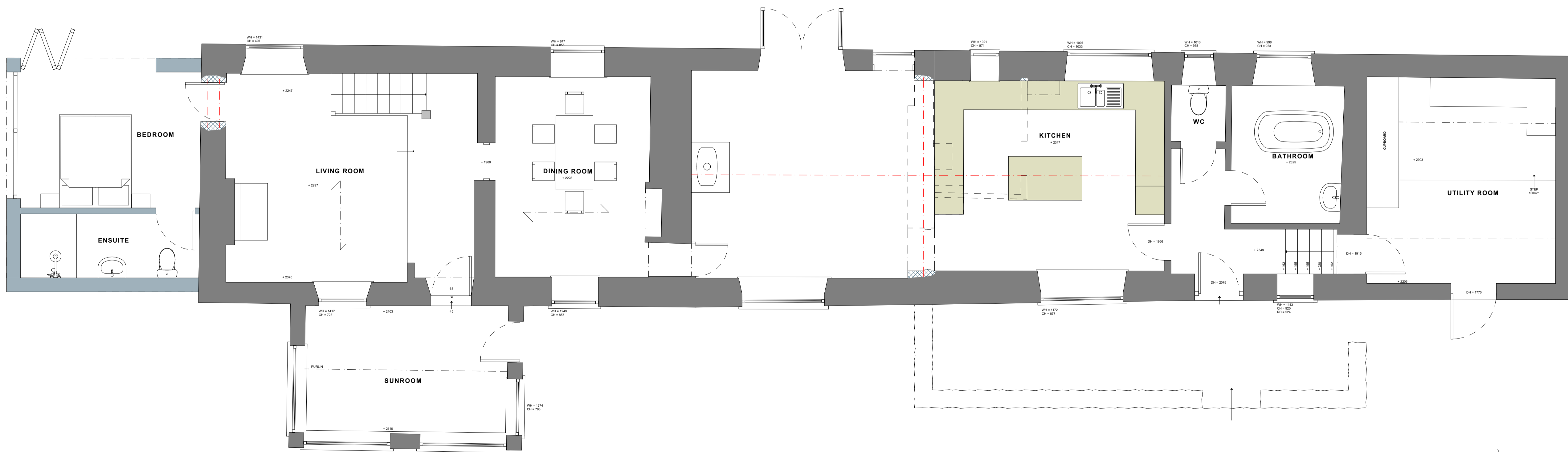
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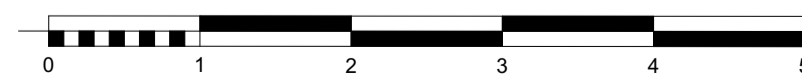
PRELIMINARY PLANNING



FIRST FLOOR PLAN



GROUND FLOOR PLAN



The Studio, 3 Dale View, Thornton le Dale, Pickering, YO18 7LJ
 t : 01751 475160
 e : ashley@line-architecture.co.uk
 w : www.line-architecture.co.uk

CLIENT
Mr and Mrs J. Rayment

ADDRESS
**Stray Head Farm, Littlebeck,
 Whitby, YO22 5EY**

PROJECT
**New Extension to
 Stray Head Farm**

DRAWING TITLE
**PROPOSED GROUND AND FIRST
 FLOOR PLANS**

JOB NUMBER 22-003	SCALE 1:50
DRAWING CODE PL20	SHEET NUMBER 01
REVISION A	SHEET SIZE A1

NYMNP

12/09/2022

AMENDED

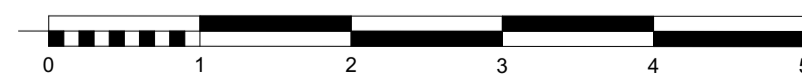
PRELIMINARY PLANNING



NORTH ELEVATION



SOUTH ELEVATION



The Studio, 3 Dale View, Thornton le Dale, Pickering, YO18 7LJ
 t : 01751 475160
 e : ashley@line-architecture.co.uk
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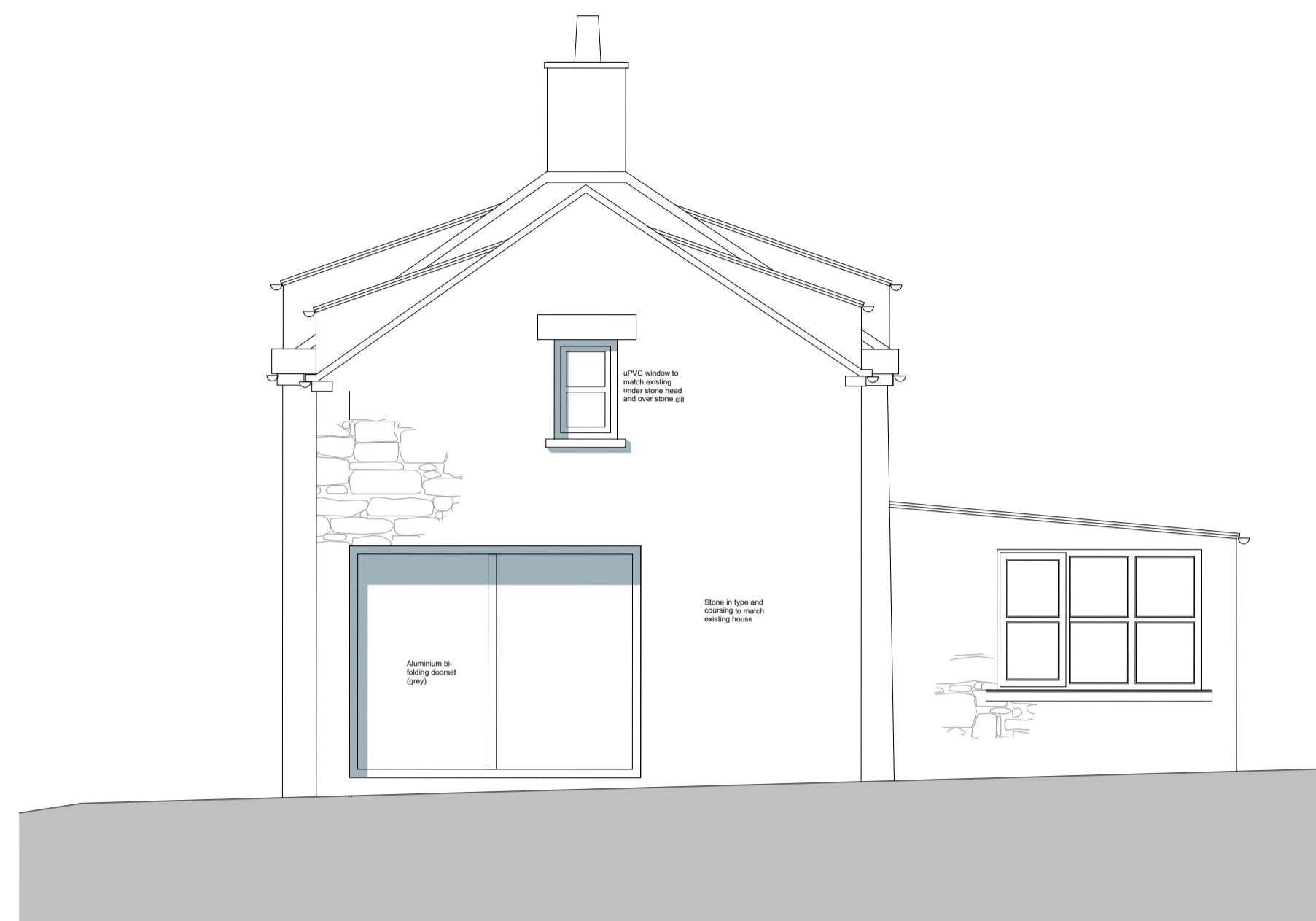
DRAWING TITLE
**PROPOSED NORTH AND SOUTH
 ELEVATIONS**

JOB NUMBER 22-003	SCALE 1:50
DRAWING CODE PL30	SHEET NUMBER 01
REVISION A	SHEET SIZE A1

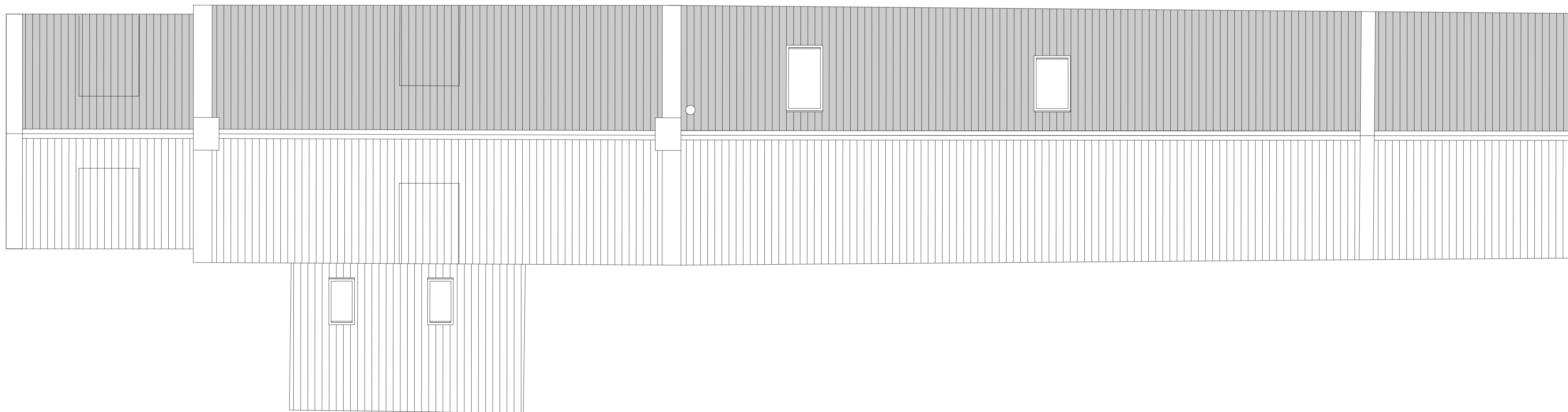
PRELIMINARY PLANNING



EAST ELEVATION



WEST ELEVATION



ROOF PLAN



The Studio, 3 Dale View, Thornton le Dale, Pickering, YO18 7LJ
 t : 01751 475160
 e : ashley@line-architecture.co.uk
 w : www.line-architecture.co.uk

CLIENT
Mr and Mrs J. Rayment

ADDRESS
**Stray Head Farm, Littlebeck,
 Whitby, YO22 5EY**

PROJECT
**New Extension to
 Stray Head Farm**

DRAWING TITLE
**PROPOSED EAST AND WEST ELEVATIONS
 PROPOSED ROOF PLAN**

JOB NUMBER 22-003	SCALE 1:50
DRAWING CODE PL30	SHEET NUMBER 02
REVISION A	SHEET SIZE A1