OEH Online Tour June 2020

Tonight's host: Mark Brinkley

cambridgecarbonfootprint.org/donate

Figure 4

Figure 5

Figure 6

Figure 7

Figure 2: Enlarged aerial view showing relationship of site to Sedgwick Street/ St Philips Road

Difference:
- Scale
- Orientation/ street relationship
- Materials

Difference:
- Scale

Difference:
- Scale
- Materials

Difference:
- Scale
- Orientation/ street relationship
- Materials

Difference:
- Scale
- Orientation/ street relationship

Difference:
- Scale
- Orientation/ street relationship
- Materials

Figure 8

The stepped three storey scheme discussed with the local authority was considered to have too great an impact from the south elevation. Overall it was considered that a third storey, despite the neighbouring 2nd floor dormer window, was not appropriate in this location.

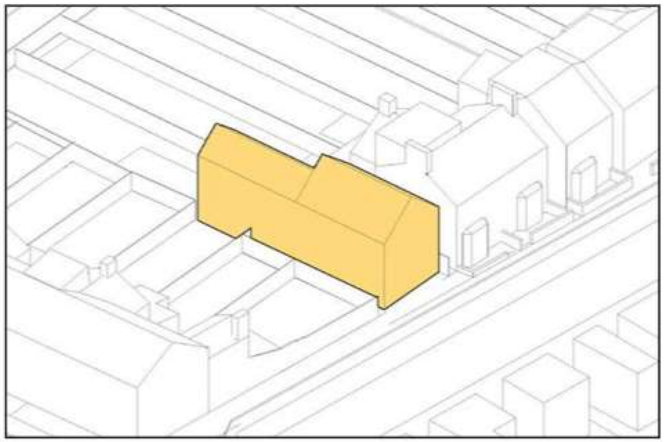


Figure 9

The second scheme was a fully two storey scheme, with the gable end facing the street. It was felt that the length of the two storey element was too dominating on the southern boundary.

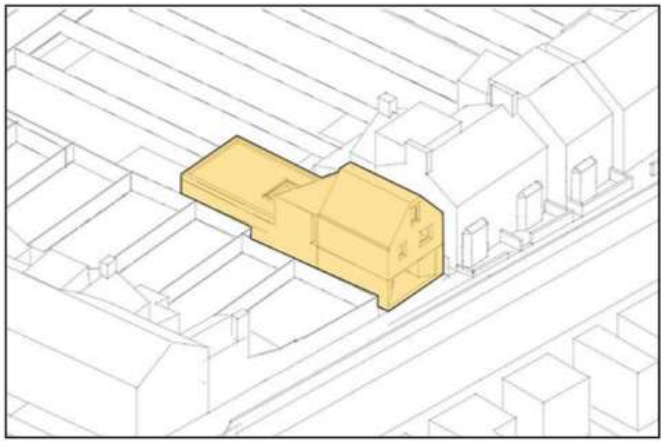


Figure 10

The third scheme discussed reduced the overall mass by splitting the building into a 2.5 storey element to the street, with single storey living space behind. The planning officer felt that this was an improvement, but that 2.5 storeys to the street was still too high and should be reduced to 2 storey.

Mole Architects

52 Burleigh Street
Cambridge
Cambridgeshire
CB1 1DJ

T 01223 913012
E studio@molearchitects
W www.molearchitects.co.uk

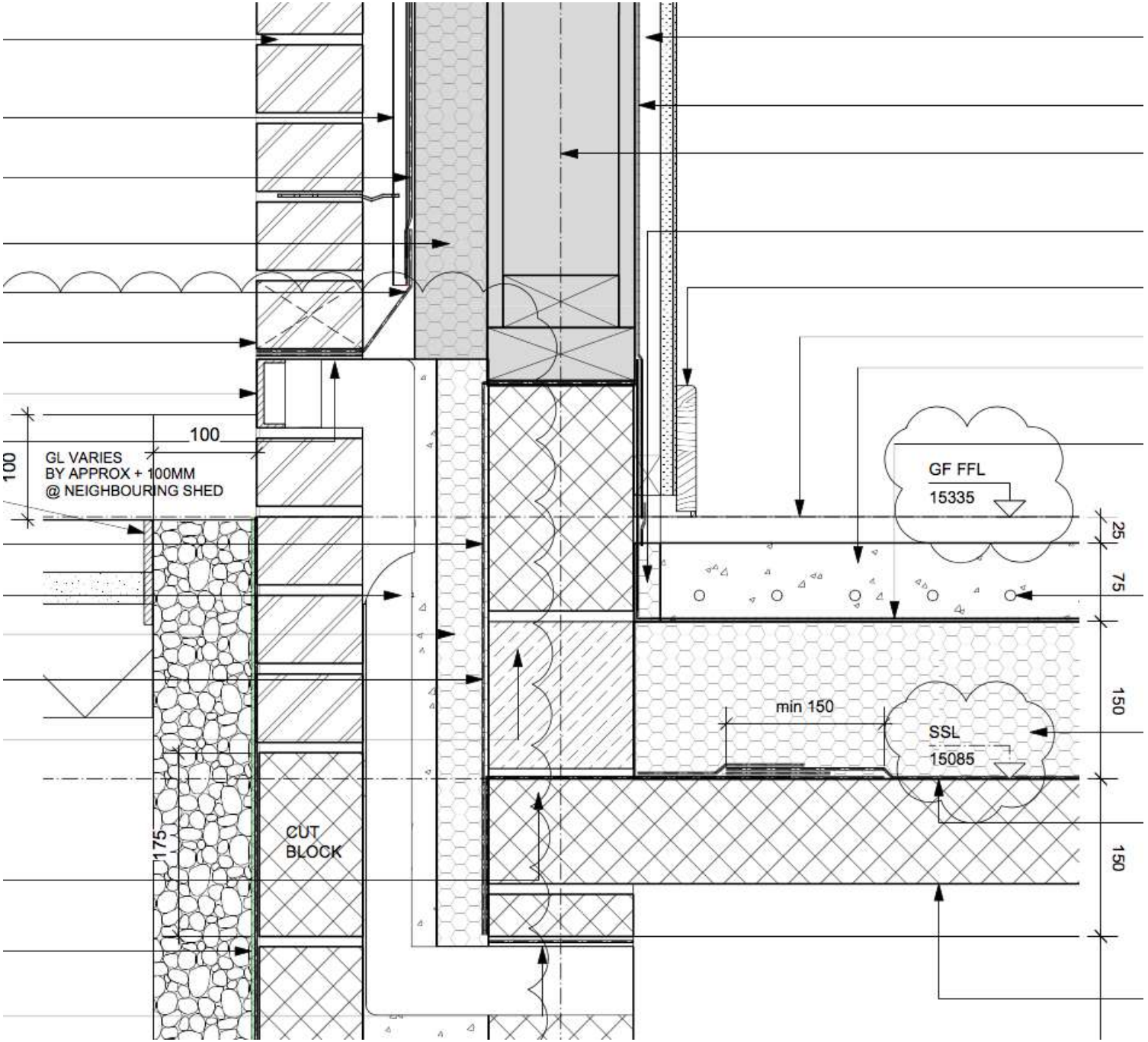

AV51 UJT

July 2016

July 2018


CAUTION
C.JACKSON & SONS
01234 771311


CAM 2


100
GL VARIES
BY APPROX + 100MM
@ NEIGHBOURING SHED
100
GF FFL
15335
25
75
150
min 150
SSL
15085
150
175
CUT
BLOCK


HOUSE UNDER CONSTRUCTION


GC
GLOBE

Energy Performance Certificate

HM Government

73 Segwick Street, CAMBRIDGE, CB1 3AJ

Dwelling type:	Detached house	**Reference number:**	2708-1003-7383-5098-3980
Date of assessment:	20 July 2018	**Type of assessment:**	SAP, new dwelling
Date of certificate:	20 July 2018	**Total floor area:**	137 m²

Use this document to:

- Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

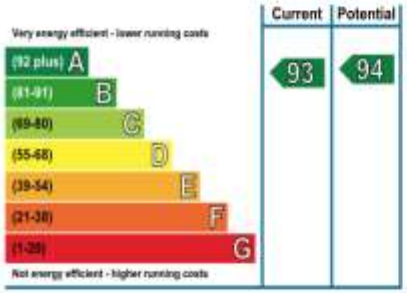
Estimated energy costs of dwelling for 3 years:	**£ 1,410**
Over 3 years you could save	**£ 141**

Estimated energy costs of this home

	Current costs	Potential costs	Potential future savings
Lighting	£ 240 over 3 years	£ 240 over 3 years	You could save £ 141 over 3 years
Heating	£ 840 over 3 years	£ 843 over 3 years	
Hot Water	£ 330 over 3 years	£ 186 over 3 years	
Totals	£ 1,410	£ 1,269	

These figures show how much the average household would spend in this property for heating, lighting and hot water and is not based on energy used by individual households. This excludes energy use for running appliances like TVs, computers and cookers, and electricity generated by microgeneration.

Energy Efficiency Rating



The graph shows the current energy efficiency of your home.

The higher the rating the lower your fuel bills are likely to be.

The potential rating shows the effect of undertaking the recommendations on page 3.

The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60).

The EPC rating shown here is based on standard assumptions about occupancy and energy use and may not reflect how energy is consumed by individual occupants.

Actions you can take to save money and make your home more efficient

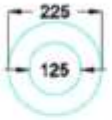
Recommended measures	Indicative cost	Typical savings over 3 years
1 Solar water heating	£4,000 - £6,000	£ 141


SOLAR iBOOST+
iBOOST+

Before making changes, please notify GBS. GBS is only liable for the performance of system if installed to design.

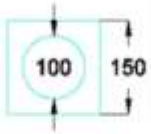
Primary Silencers (1)

Supply: 900mm long, circular, 125mm duct, 50mm wall, overall diameter = 325mm
Exhaust: 600mm long, same as above



Cross-Talk Silencers (2)

Supply: 900mm long, rectangular, 25mm wall, 150x150
Exhaust: 600mm long, same as above



	Fan Speed 1		Fan Speed 2		Fan Speed 3	
Supply and Extract Pressure	17	11	35	23	59	38
Intake and Exhaust Pressure	01	01	02	01	04	02
Total in/out Pressure	18	12	37	24	63	40
Average externally available pressure	15		31		52	
AHU	NOVUS 300					
Power Consumption of AHU (W)	12		24		40	
Average cost per Annum (£)			£31			

Straight lengths of duct are supplied in 3.0mtr lengths to be cut to size on site.

General Notes

Key - plans & sections

Intake ducts
Supply ducts
Extract ducts
Exhaust ducts

Floor plans
Joist plans

Silencer

Primary and cross talk attenuation:

Where primary attenuation (1) is represented, please add 100mm onto diameter of ductwork.

(1)

Where cross talk attenuation (2) is represented, the silencer is in reality a square cross-section. Please add 50mm onto diameter of ductwork to give the square dimensions.

(2)

Intake and Exhaust Insulation

On Intake and Exhaust ducts (leading to outside) we specify 15mm **ISO PIPE** with a wrap of 25mm Armaflex insulation. Therefore please add 80mm onto the diameter of the ductwork.

01 Isometric

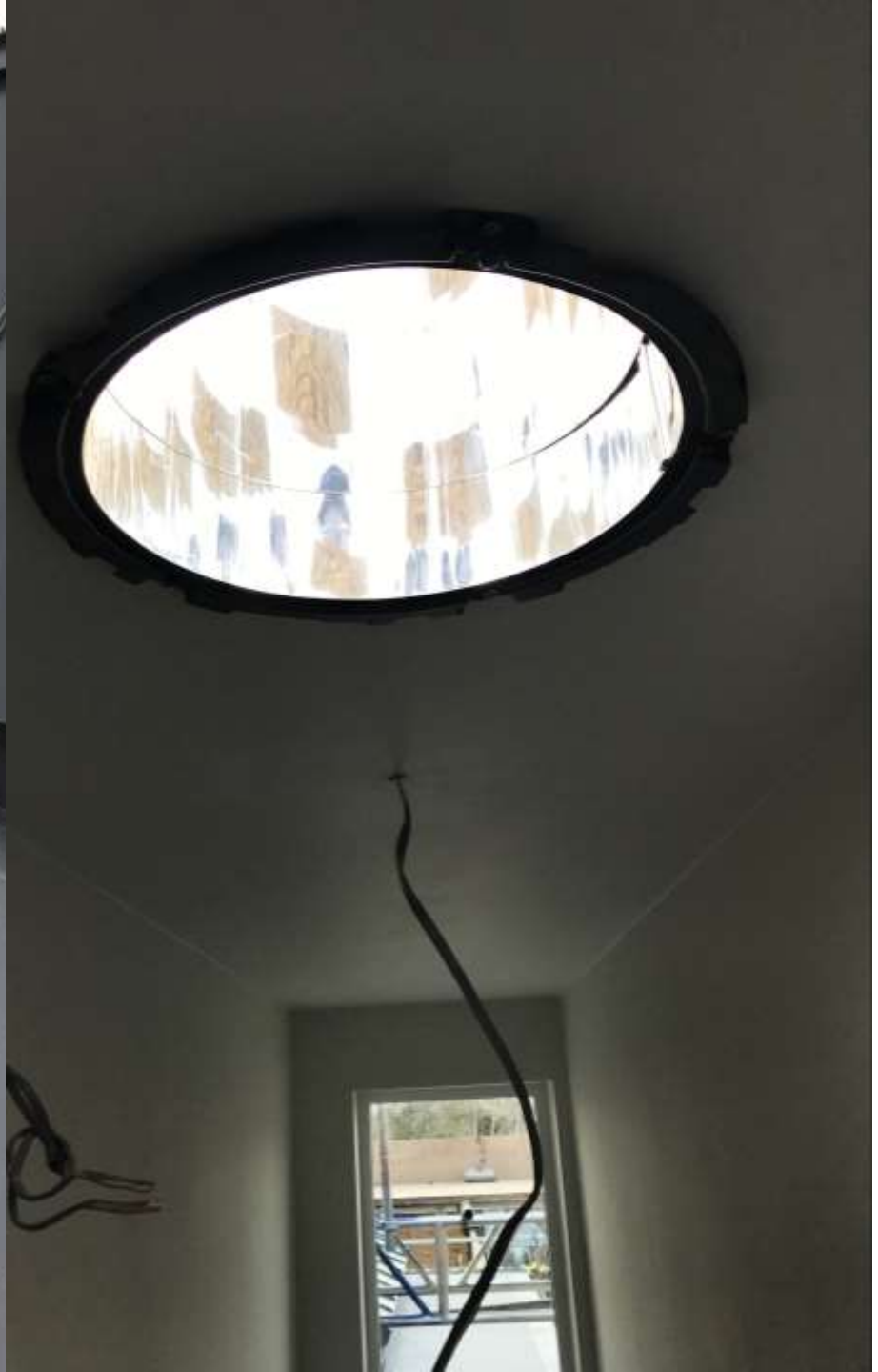
green building store
Green Building Store
Heath House Mill
Heath House Lane
Soothill
Batley
WF17 6JW
Tel: 01484 461735
Email: mvhr@greenbuildingstore.co.uk

Sedgwick Street
73 Sedgwick Street
Cambridge

461ROD011SEDG

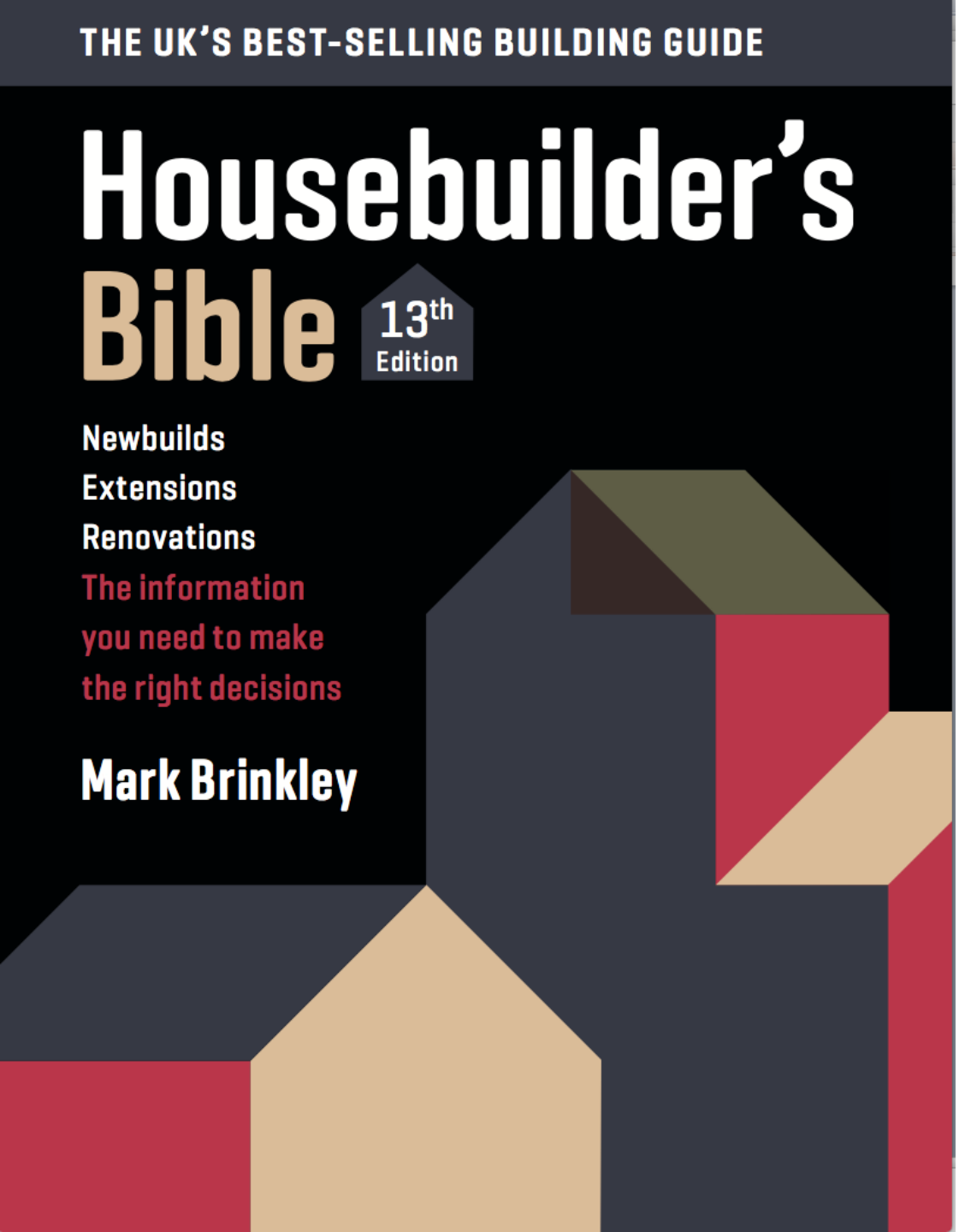
21.02.2017 | C

Not to Scale



May 2018

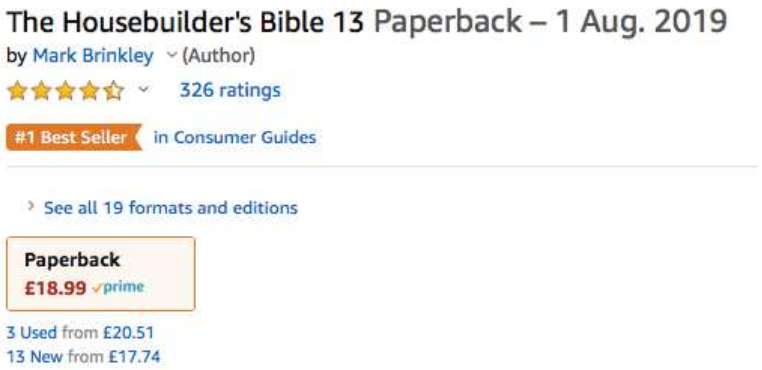
May 2020



markbrinkley@mac.com
Twitter @slopingsite

Book available widely, from bookstores and Amazon

Also from our own website
Ovolo Books
ovolo-books.co.uk



More Online tours Sept - Oct

Better Insulation, Heat pumps	Soon
Thermal Imaging training	Autumn?

Please write feedback in Chat: *- What did you enjoy?*

- Suggestions for improvement?

cambridgecarbonfootprint.org/donate