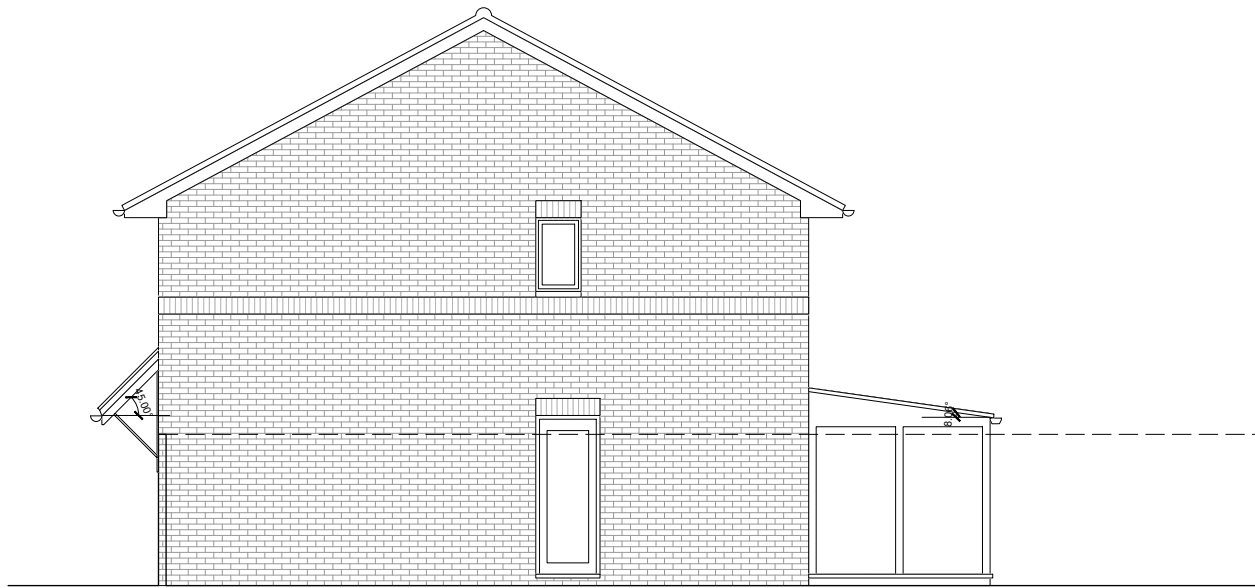
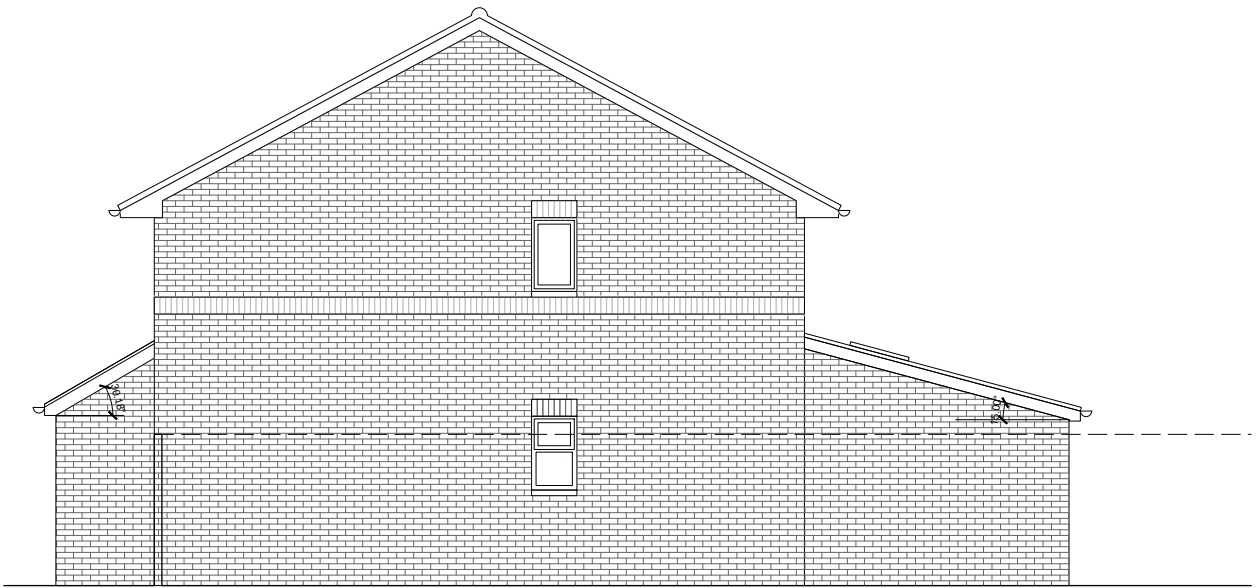
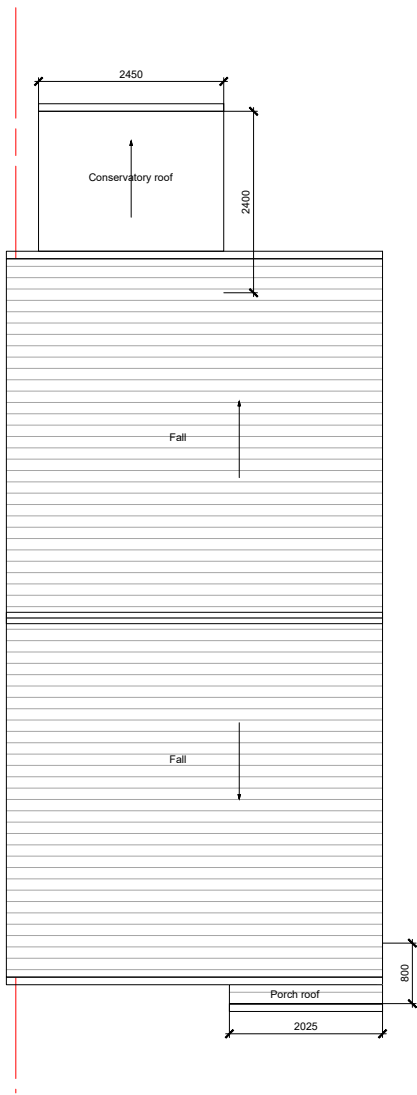




Existing Side Elevation
Scale: 1:100



Proposed Side Elevation
Scale: 1:100



Existing Roof Plan
Scale: 1:100

Area of existing roof discharging rainwater to sewer (excluding main roof):

- Front porch (Plan depth = 0.8m, pitch $\theta = 45^\circ$):

Effective depth = plan depth $\div \cos(\theta) = 1.13\text{m}$
Effective roof area = effective depth x plan width = $1.13\text{m} \times 2.025\text{m} = 2.29\text{m}^2$.

- Rear conservatory (plan depth = 2.4m, pitch $\theta = 8^\circ$):

Effective depth = plan depth $\div \cos(\theta) = 2.42\text{m}$
Effective roof area = $2.42\text{m} \times 2.45\text{m} = 5.94\text{m}^2$.

Total area drained to sewer = $2.29\text{m}^2 + 5.94\text{m}^2 = 8.23\text{m}^2$.

Area of existing roof discharging rainwater to soakaway (excluding main roof):

Total area drained to soakaway = 0m^2 .

Area of proposed roof discharging rainwater to sewer (excluding main roof):

- Front porch (Plan depth = 1.45m, pitch $\theta = 30^\circ$):

Effective depth = plan depth $\div \cos(\theta) = 1.67\text{m}$
Effective roof area = effective depth x plan width = $1.67\text{m} \times 2.2\text{m} = 3.68\text{m}^2$

Total area drained to sewer = 3.68m^2 .

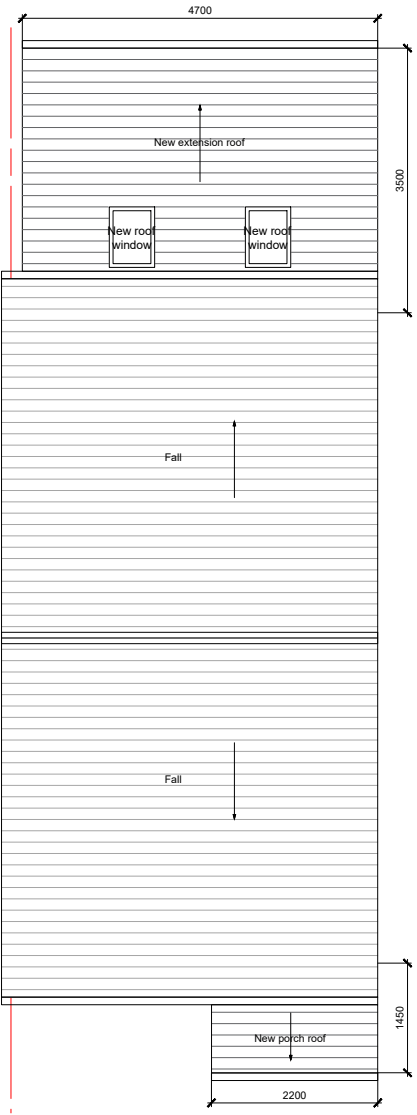
(Reduction of total sewer load by 4.55m^2 despite increase of effective roof area by 1.39m^2).

Area of proposed roof discharging rainwater to soakaway (excluding main roof):

- Rear Extension (plan depth = 3.5m, pitch $\theta = 15^\circ$):

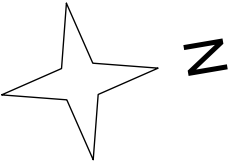
Effective depth = plan depth $\div \cos(\theta) = 3.62\text{m}$
Effective roof area = effective depth x plan width = $3.62\text{m} \times 4.7\text{m} = 17\text{m}^2$.

Total area drained to soakaway = 17m^2 .



Proposed Roof Plan
Scale: 1:00

NOTE
DO NOT SCALE DRAWINGS
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Rev	Date	Comments	D/B	Chk

DISCHARGE	
Scale: 1:100 @ A3	
Drawn: NJ	Checked: Date: DEC 17
Client: Arkadiusz Wojtas	
2 Allonby Drive Ruislip HA4 7YU	
ROOF PLANS AND ELEVATIONS	
17023-03-DC5-01	A
DAXAB LTD	
44 Kemp Court, Hartington Road, London SW89 2BJ info@daxab.co.uk 07766 883 993	