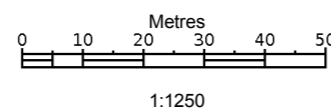


1:500 BLOCK PLAN


Produced 19 Mar 2022 from the Ordnance Survey MasterMap (Topography) Database and incorporating surveyed revision available at this date.

The representation of a road, track or path is no evidence of a right of way. The representation of features as lines is no evidence of a property boundary.

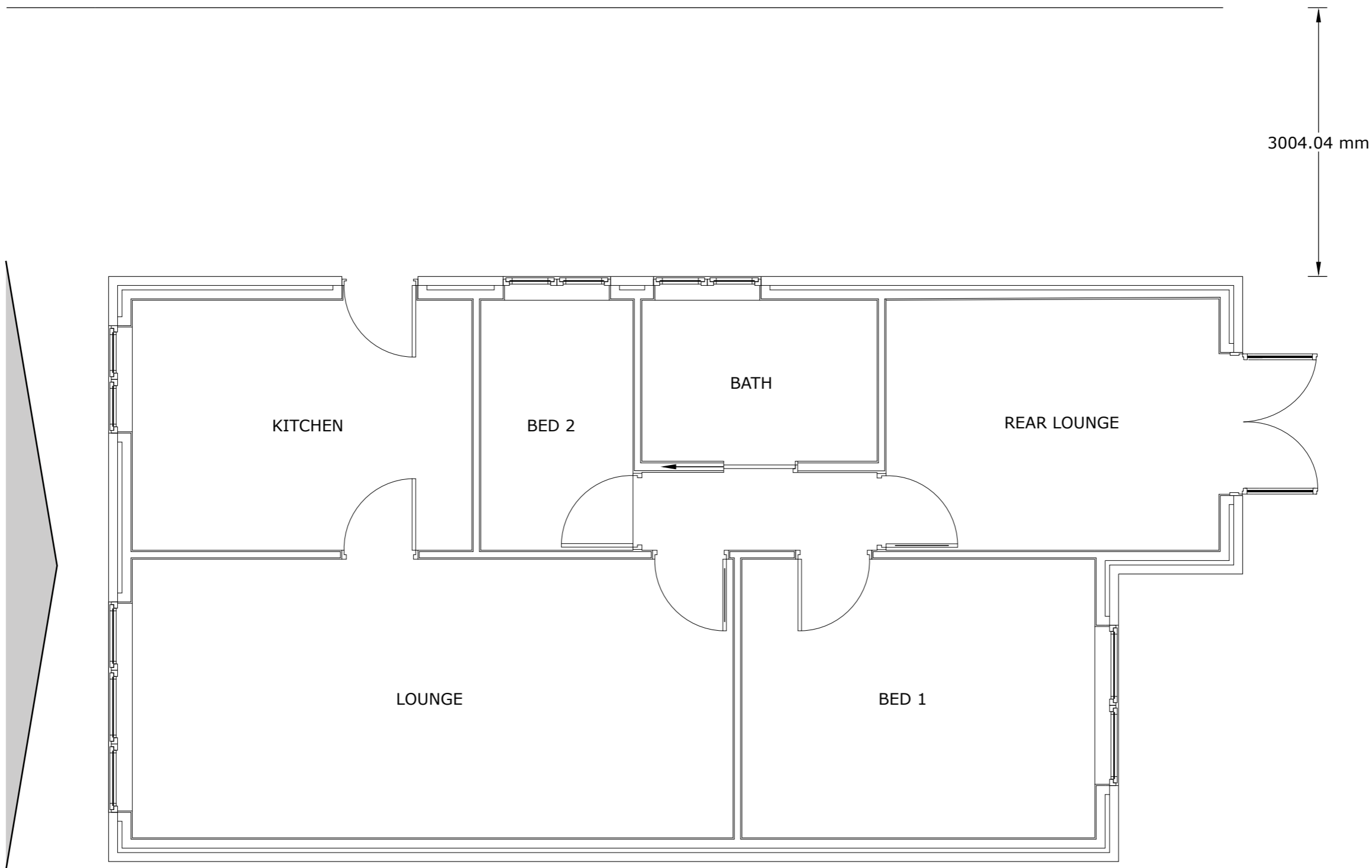


2, Hyacinth Cl, Haslingden, Rossendale  
BB4 6JU

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database rights 2022 OS100035409  
Order Licence Reference: OI1530262  
Centre coordinates: 377919 421629

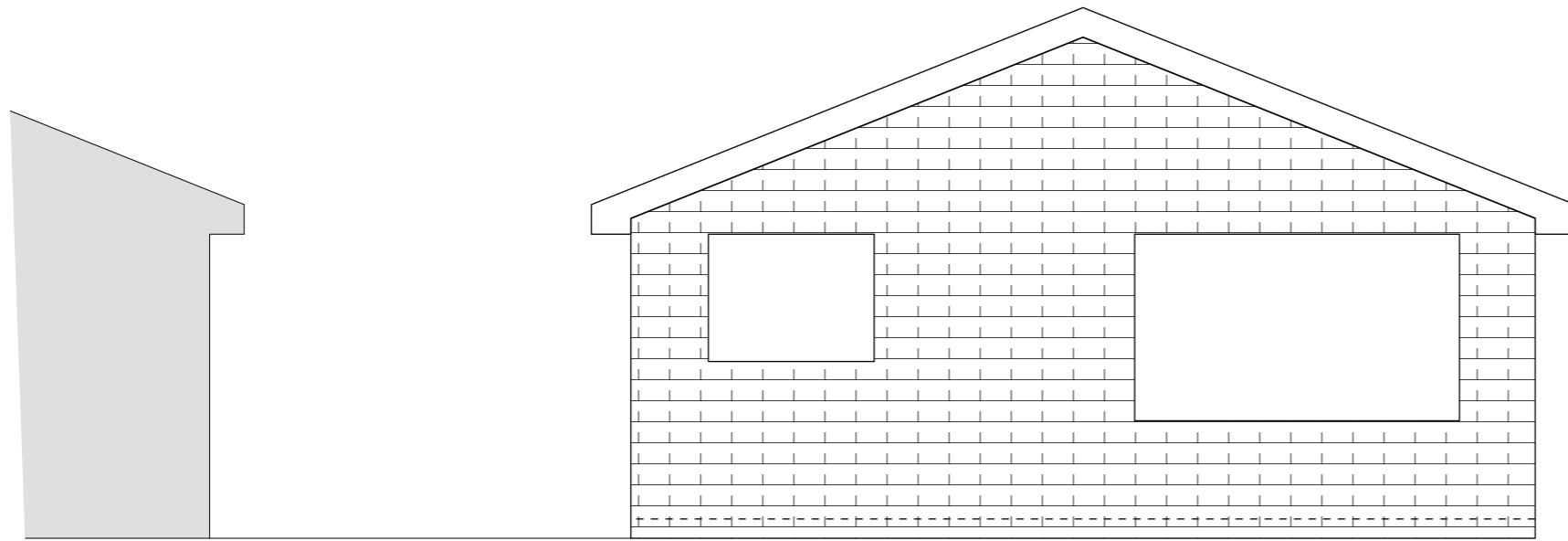
 <b>SOLUTIONS</b> Elevating Life Through Great Design		ANY ALTERATION OR DEVIATION MUST BE CONFIRMED WITH THE ARCHITECT/ENGINEER/LPA/LABC. PRIOR TO ANY WORKS BEING CARRIED OUT. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO CONFIRM ALL SITE MEASUREMENTS PRIOR TO ANY ORDERING OR COMMENCEMENT AS NO RESPONSIBILITY IS ACCEPTED OR IMPLIED BY THE ARCHITECT/ENGINEER ETC.	
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Archtech Design Solutions Steve Jackson Dip con Dip arch 14 Maitland Place, Rossendale, Lancs BB4 6AT..... TEL 07792183353 archtech-design@icloud.com Archtech-design.co.uk		<b>PROJECT/JOB/DWG NO/</b> MR/001/01	<b>CLIENT</b> MISS MANDY ROSCOE
		<b>SCALE</b> 1:1250 1:500 @A3	<b>PROJECT</b> PROPOSED EXTENSION AT 2HYACINTH CLOSE ROSSENDALE

HYACINTH CLOSE

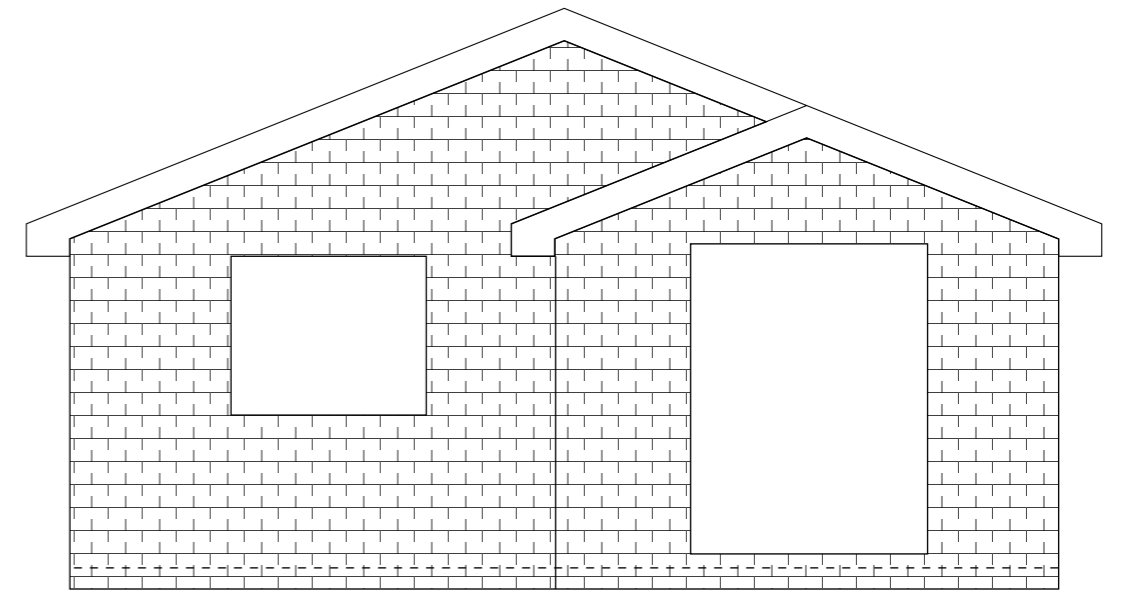


EXISTING FLOOR PLAN

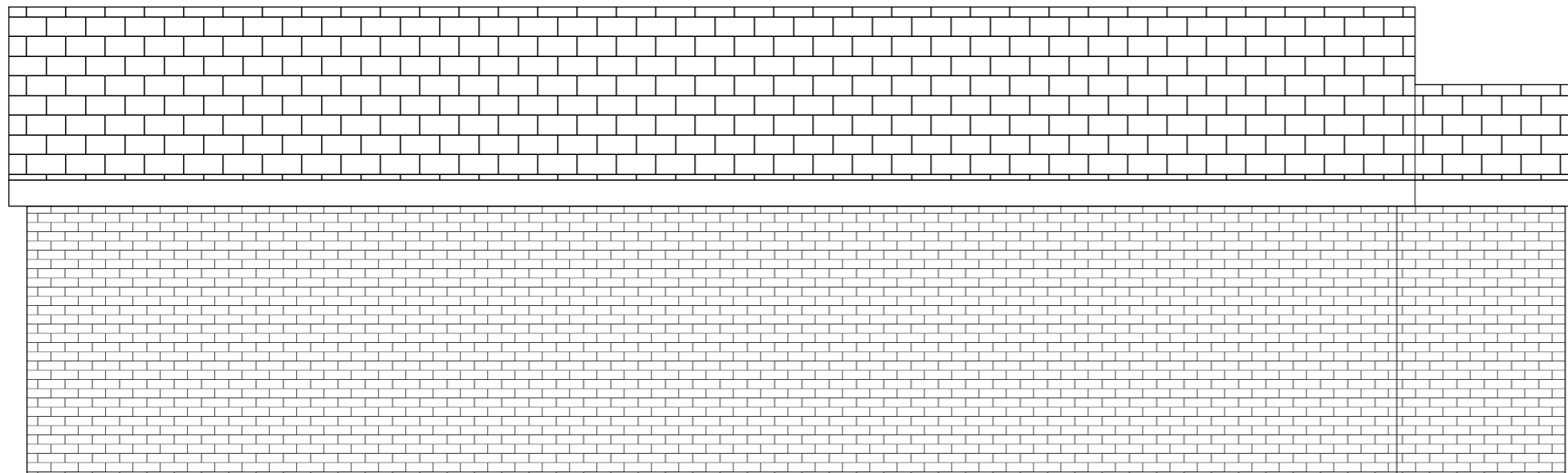
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<b>PROJECT/JOB/DWG NO/ MR/001/01</b>		
<b>CLIENT MISS MANDY ROSCOE</b>		<b>SCALE 1:50 @A3</b>
<b>PROJECT PROPOSED EXTENSION AT 2HYACINTH CLOSE ROSSENDALE</b>		
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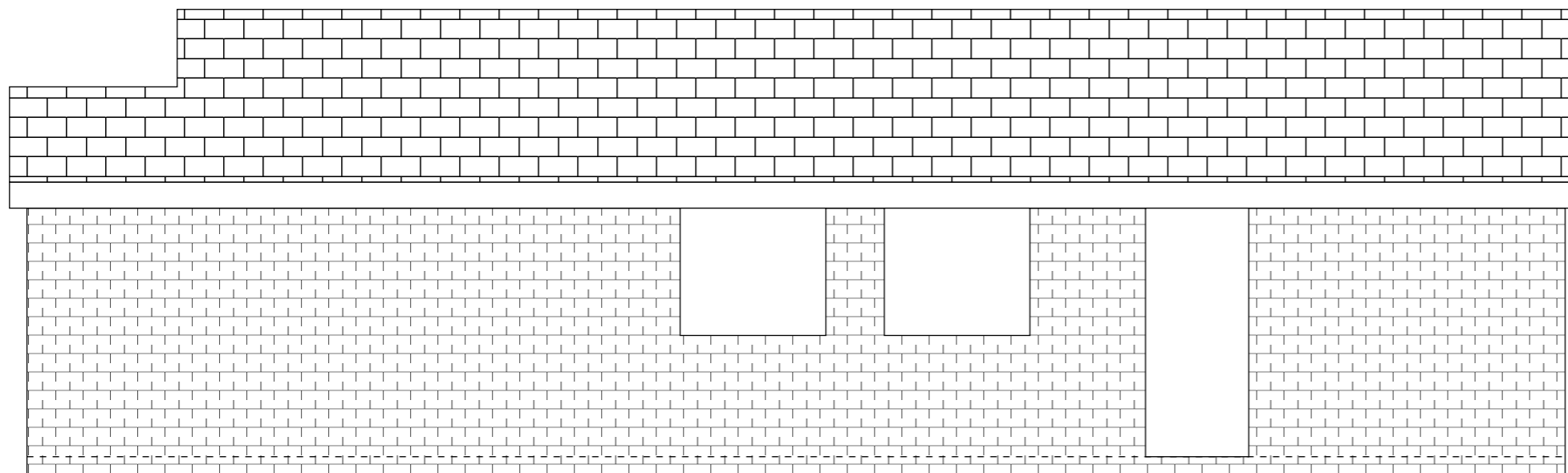
EXISTING FRONT ELEVATION



EXISTING REAR ELEVATION

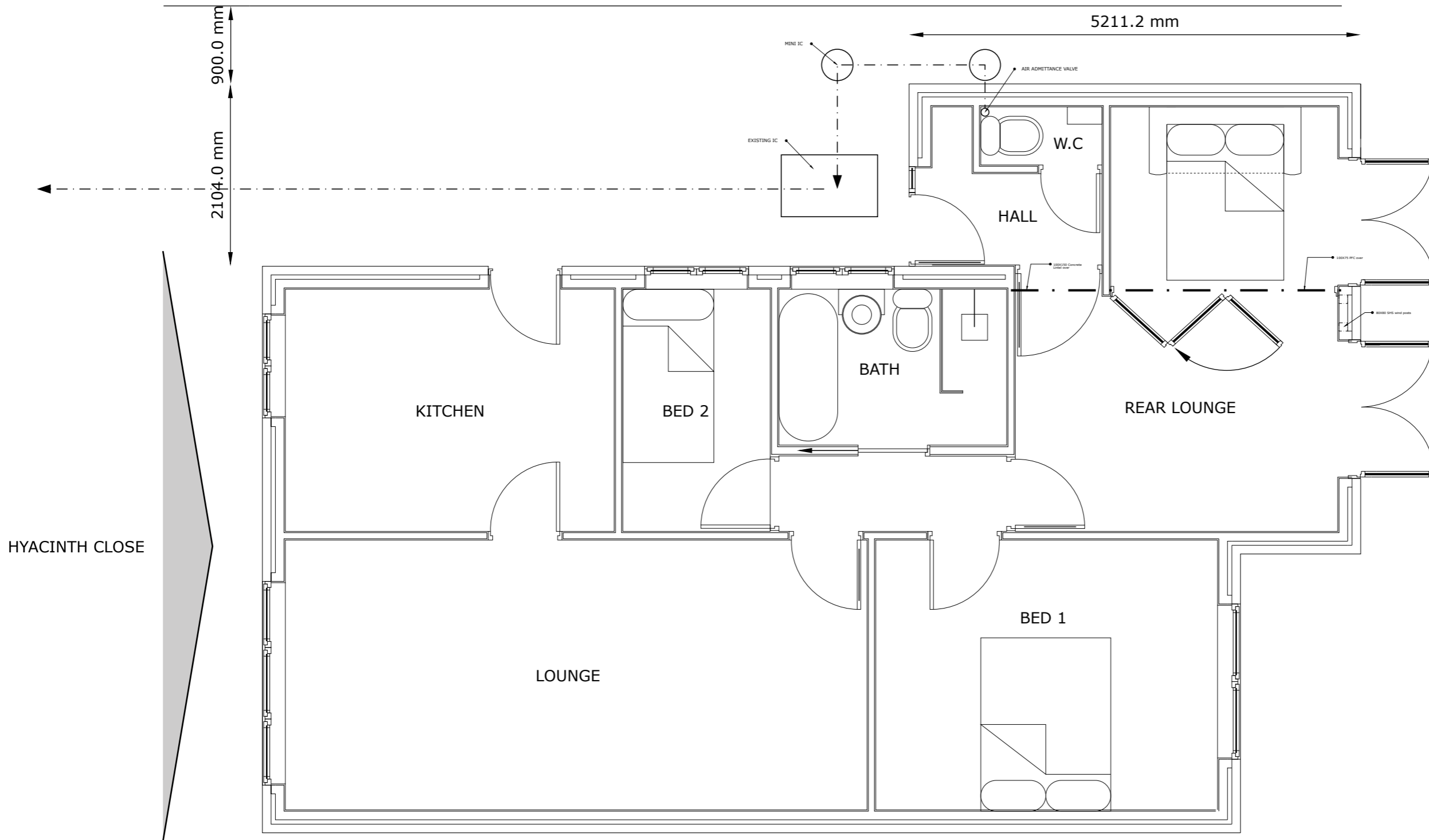


EXISTING SIDE ELEVATION




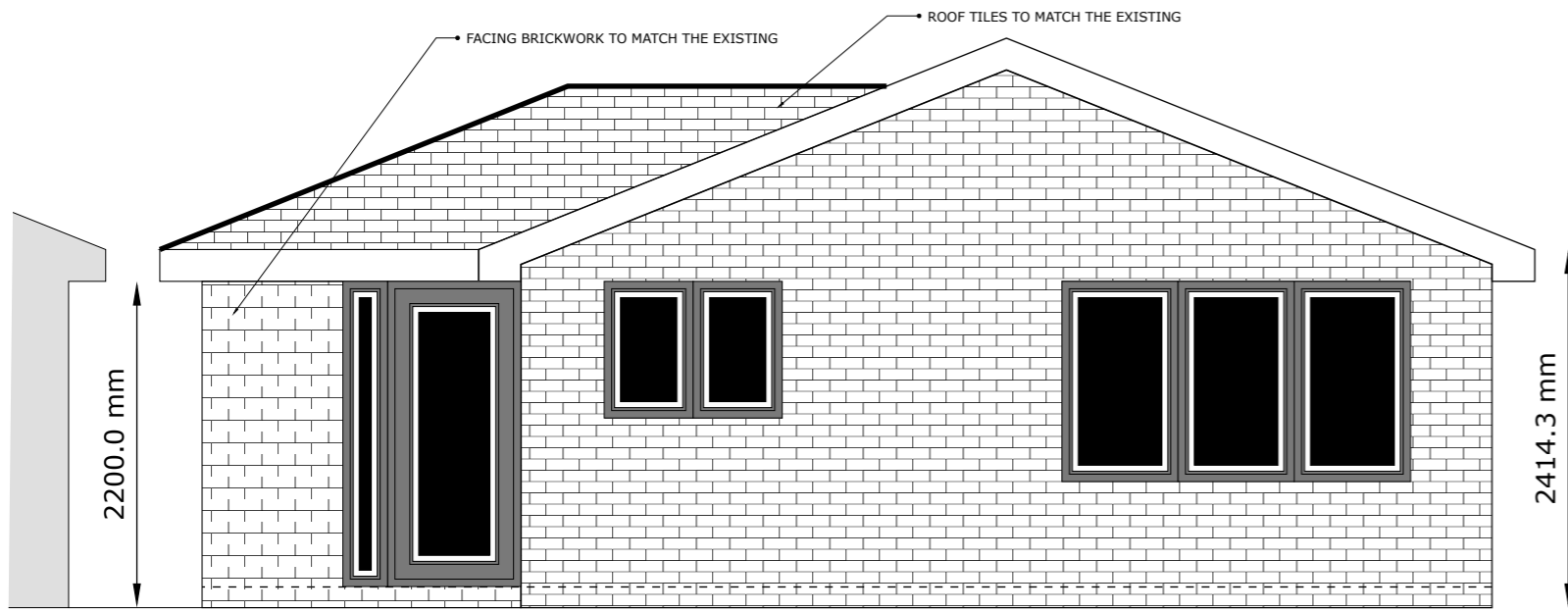
EXISTING SIDE ELEVATION

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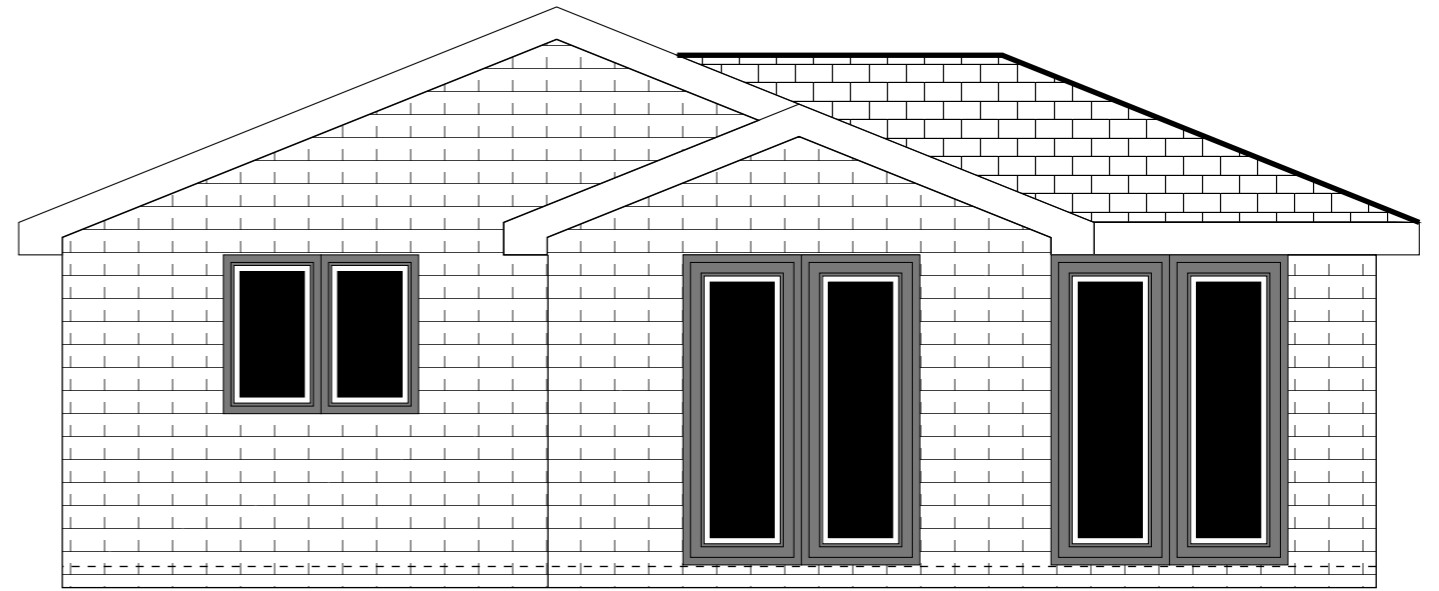


PROPOSED FLOOR PLAN

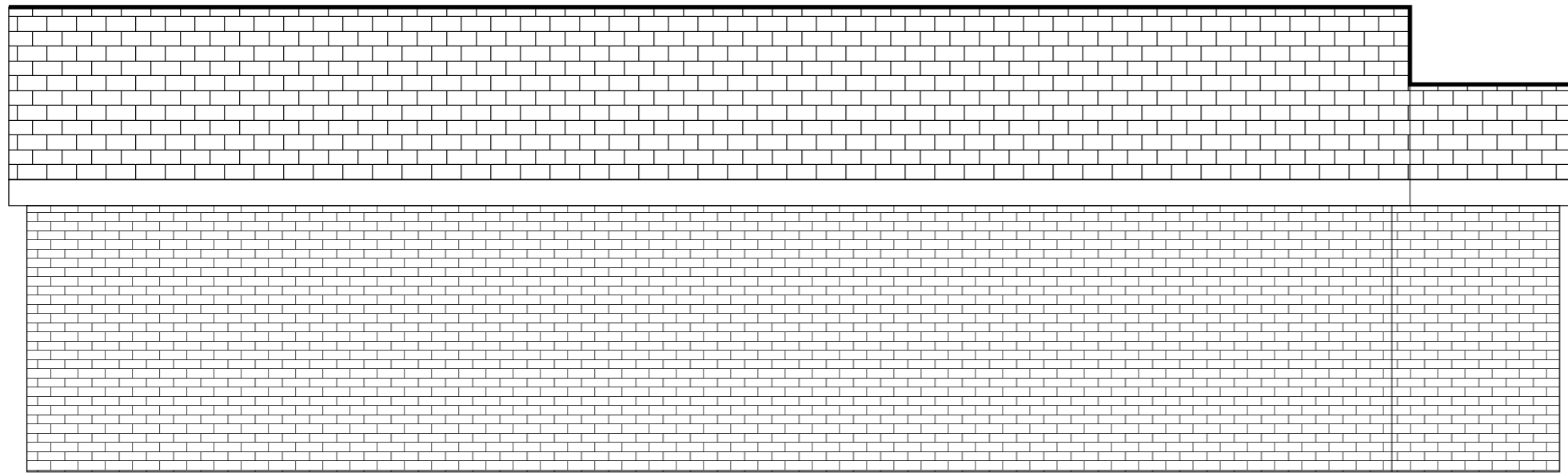
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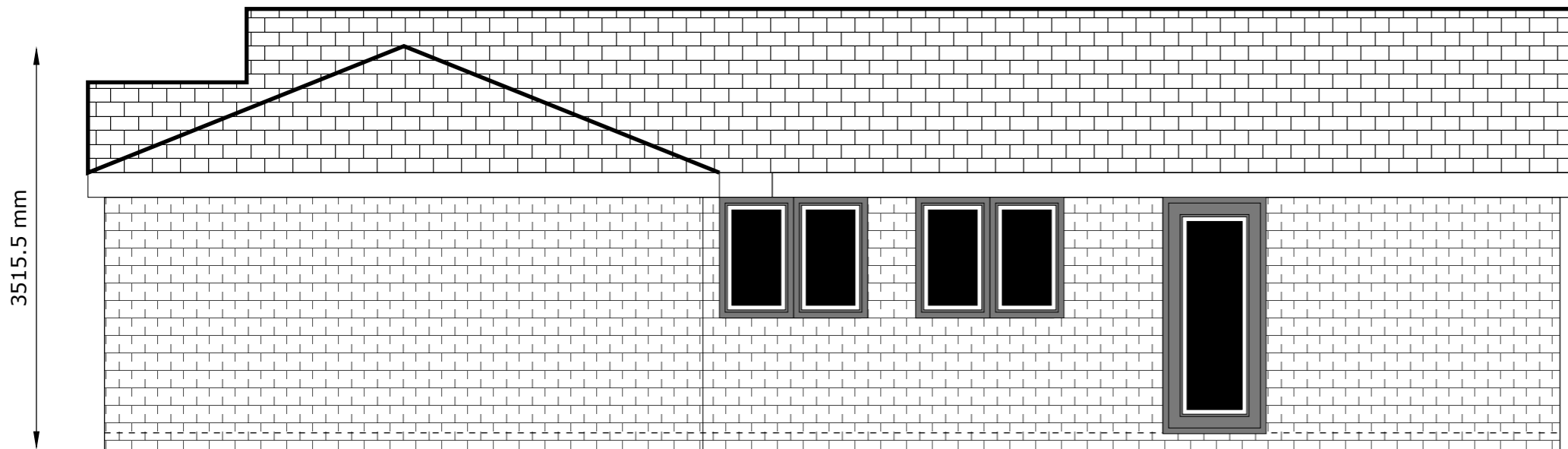
PROPOSED FRONT ELEVATION



PROPOSED FRONT ELEVATION




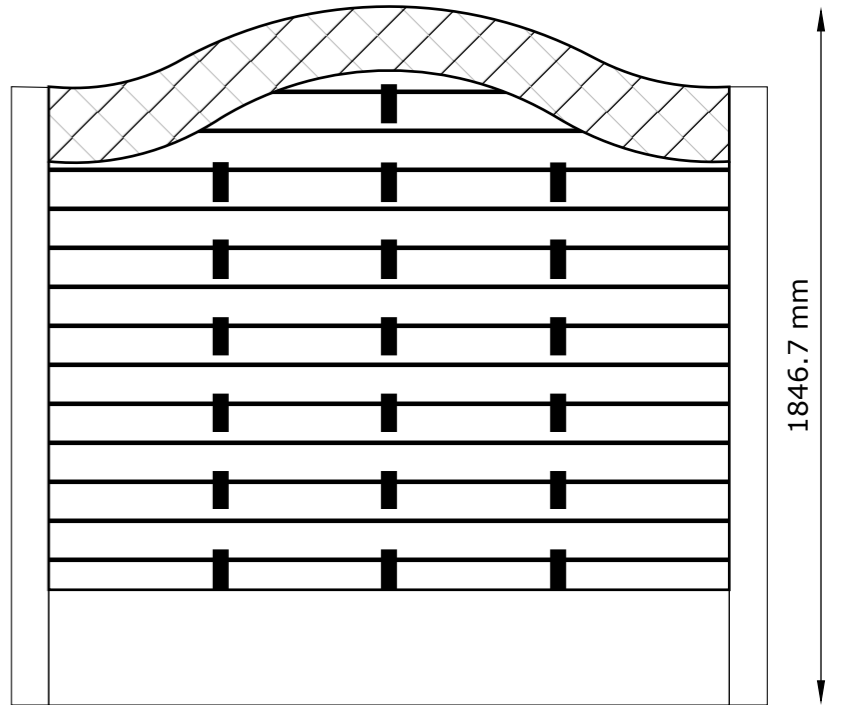
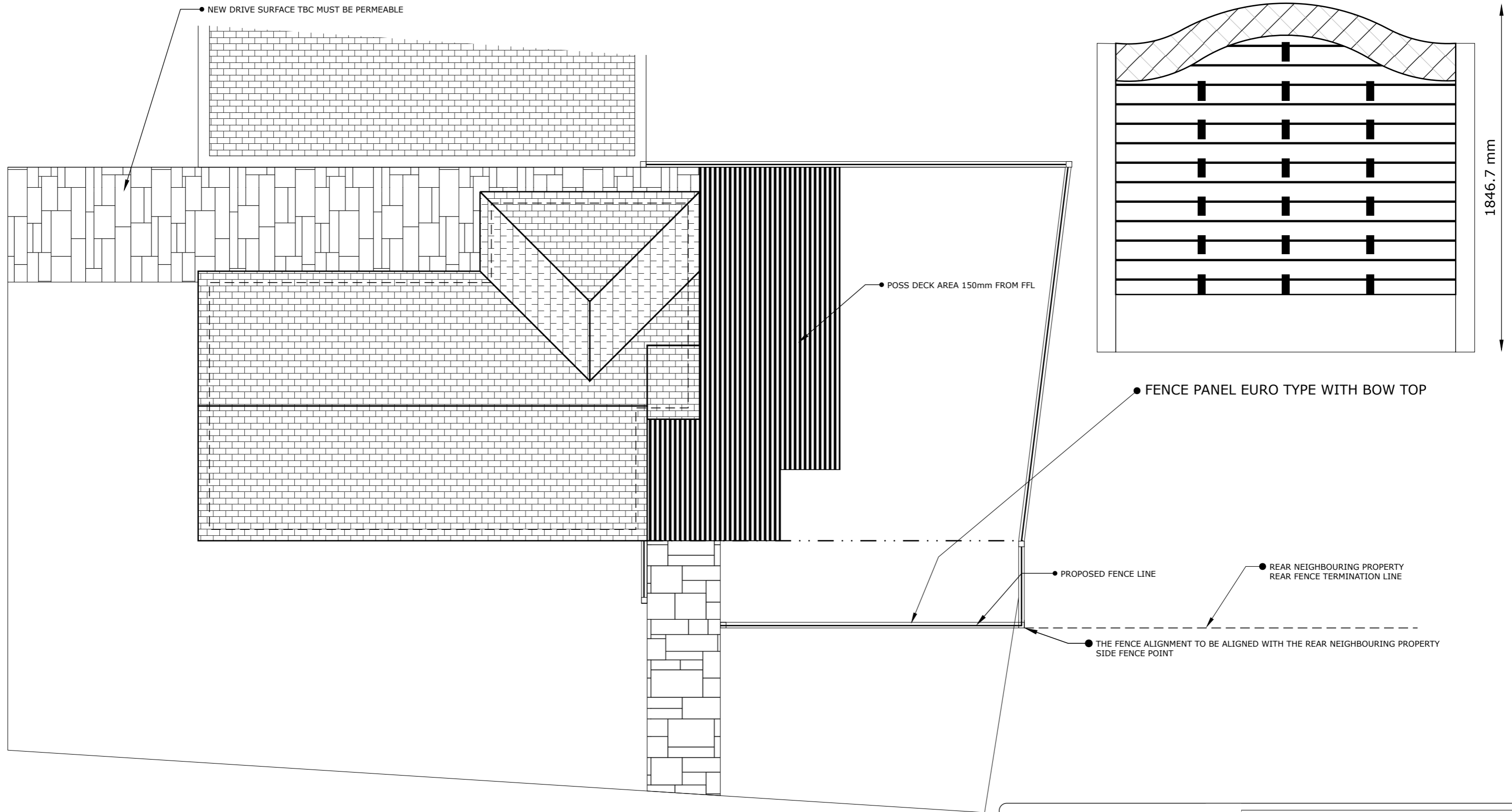
PROPOSED SIDE ELEVATION



PROPOSED SIDE ELEVATION

N/B \*\*\* although heights are shown the "as built" supersedes All other dimensions\*\*\*

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12502.5 mm  
RETAINED DRIVE LENGTH

PROPOSED SITE PLAN

# T2 T3 POSS SITE LAYOUT



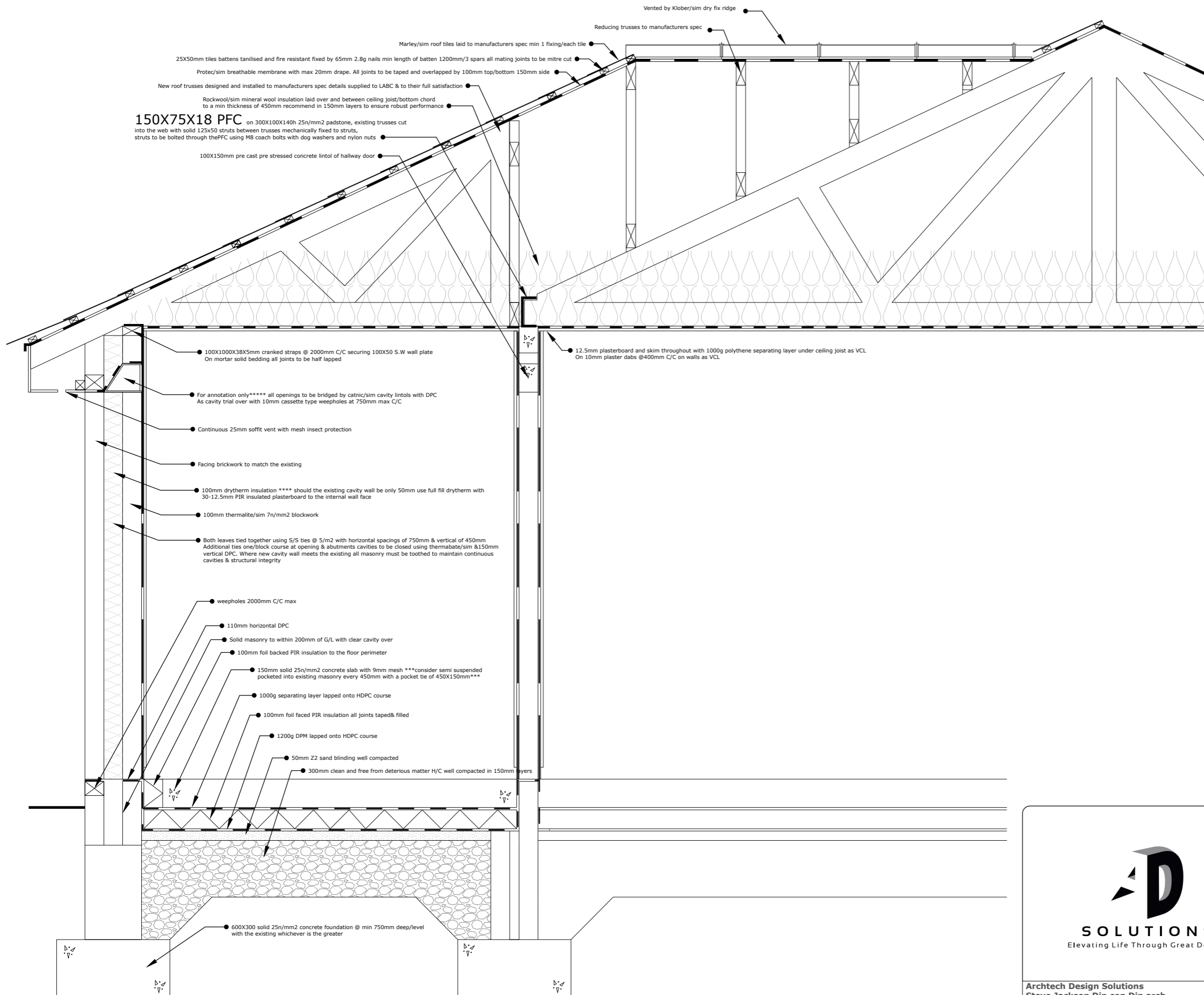
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<b>PROJECT/JOB/DWG NO/</b> MR/005/01	
<b>CLIENT</b> MISS MANDY ROSCOE	<b>SCALE</b> 1:100 @A3 1:20
<b>PROJECT</b> PROPOSED EXTENSION AT 2HYACINTH CLOSE ROSSENDALE	

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**150X75X18 PFC** on 300X100X140h 25n/mm2 padstone, existing trusses cut into the web with solid 125x50 struts between trusses mechanically fixed to struts, struts to be bolted through the PFC using M8 coach bolts with dog washers and nylon nuts

100X150mm pre cast pre stressed concrete lintol of hallway door

100X1000X38X5mm cranked straps @ 2000mm C/C securing 100X50 S.W wall plate On mortar solid bedding all joints to be half lapped

For annotation only \*\*\*\*\* all openings to be bridged by catnic/sim cavity lintols with DPC As cavity trial over with 10mm cassette type weepholes at 750mm max C/C

Continuous 25mm soffit vent with mesh insect protection

Facing brickwork to match the existing

100mm drytherm insulation \*\*\*\*\* should the existing cavity wall be only 50mm use full fill drytherm with 30-12.5mm PIR insulated plasterboard to the internal wall face

100mm thermalite/sim 7n/mm2 blockwork

Both leaves tied together using S/S ties @ 5/m2 with horizontal spacings of 750mm & vertical of 450mm Additional ties one/block course at opening & abutments cavities to be closed using thermabate/sim & 150mm vertical DPC. Where new cavity wall meets the existing all masonry must be toothed to maintain continuous cavities & structural integrity

weepholes 2000mm C/C max

110mm horizontal DPC

Solid masonry to within 200mm of G/L with clear cavity over

100mm foil backed PIR insulation to the floor perimeter

150mm solid 25n/mm2 concrete slab with 9mm mesh \*\*\*consider semi suspended pocketed into existing masonry every 450mm with a pocket tie of 450X150mm\*\*\*

1000g separating layer lapped onto HDPC course

100mm foil faced PIR insulation all joints taped& filled

1200g DPM lapped onto HDPC course

50mm Z2 sand blinding well compacted

300mm clean and free from deteriorous matter H/C well compacted in 150mm layers

600X300 solid 25n/mm2 concrete foundation @ min 750mm deep/level with the existing whichever is the greater

12.5mm plasterboard and skim throughout with 1000g polythene separating layer under ceiling joist as VCL On 10mm plaster dabs @400mm C/C on walls as VCL

Vented by Klobber/sim dry fix ridge  
Reducing trusses to manufacturers spec

Marley/sim roof tiles laid to manufacturers spec min 1 fixing/each tile

25X50mm tiles battens tanilised and fire resistant fixed by 65mm 2.8g nails min length of batten 1200mm/3 spars all mating joints to be mitre cut  
Protec/sim breathable membrane with max 20mm drape. All joints to be taped and overlapped by 100mm top/bottom 150mm side

New roof trusses designed and installed to manufacturers spec details supplied to LABC & to their full satisfaction  
Rockwool/sim mineral wool insulation laid over and between ceiling joist/bottom chord to a min thickness of 450mm recommend in 150mm layers to ensure robust performance

**FOUNDATIONS:-** TO BE 600MM WIDE AND MIN 300MM THICK SOLID CONCRETE TO ST4 25N/MM2 MINIMUM THE INVERT OF WHICH TO BE AT THE SAME DEPTH AS THE EXISTING HOUSE FOUNDATIONS, IT IS RECOMMENDED THAT A MIN DEPTH OF 750MM BE ACHIEVED ALL FOUNDATIONS TO BE TO THE FULL SATISFACTION OF LABC INSPECTOR. THE FOUNDATION WALLS TO COMPRISE OF 300MM THICK SOLID MASONRY TO WITHIN 200MM OF THE GROUND LEVEL WITH BRICK/BLOCKWORK TO DPC LEVEL AND WEEPHOLES POSITIONED @ 2000MM MAX C/C BELOW DPC LEVEL.

**FLOOR:-** TO COMPRISE OF 150MM A MESH REINFORCED SOLID CONCRETE TO ST4 25N/MM2 WITH THE MESH SUPPORTED ON 50MM BOBINS, ON 1000G SEPARATING LAYER OF POLYTHENE, ON 100MM CELLOTEX/SIM PIR INSULATION WITH ALL JOINTS TAPED WITH AN UPSTAND OF 150MM TO THE PERIMETER. 1200G\*\*\*\* VISQUEEN DPC LAPPED ONTO DPC. ON 50MM WELL COMPACTED Z2 SAND BLINDING ON 300MM MIN WELL COMPACTED CLEAN AND FREE FROM DETEROIOUS MATTER MOT1 HARDCORE COMPACTED IN 150MM LAYERS. \*\*\*\*GAS MEMBRANE CHECK AND GROUND VENTING IT MAY BE A REQUIREMENT OF LABC THAT A GAS MEMBRANE BE FITTED WITH GROUND VENTING OF THE EXISTING PROPERTY LABC TO CONFIRM ON SITE\*\*\*\*

**WALLS:-** ALL WALLS TO COMPRISE OF 102MM FACING BRICKWORK, 100MM DRYTHERM FILLED CAVITY & 100MM 7N THERMALITE BLOCK WITH BOTH LEAVES TIED TOGETHER WITH S/S TIES AT 750MM HORIZONTAL & 450MM VERTICAL SPACINGS WITH ADDITIONAL TIES AT OPENINGS AT 1 TIE PER BLOCK 225MM COURSE AND WHERE THE NEW WORK AND EXISTING ABUTE \*\*\*ALL ABUTING MASONRY TO BE FULLY TOOTHED AND CAVITIES CONTINUOUS WITH THE EXISTING PROPERTY\*\*\* IT IT A POSSIBILITY THAT THE EXISTING PROPERTY HAS A 50MM NOM CAVITY IN THE EVENT OF SUCH USE 50MM DRYTHERM CAVITY FILL AND 50 KNIGSPAN K8 OR SIMILAR 30-12.5 INSULATION TO PLASTERBOARD COMPOSITE ON 10MM PLASTER DABS @ 400C/C AS VCL.

**ROOF:-** THE ROOF CONSTRUCTION TO COMPRISE OF TRUSSED RAFTERS TO MANUFACTURERS SPEC ON 100X50SW WALLPLATE BEDDED ON MORTAR BEDDING WITH ALL JOINS HALF LAPPED THE WALL PLATE WILL BE HELD BY 5X38X1000MM CRANKED BAT/LAT STRAPS AT MAX 2000MM C/C \*\*\*ALL CONERS AND ABUTMENTS TO HAVE STRAPS TO EACH MASONRY WALL/LEG. BELOW THE TRUSSES WILL BE 1000G SEPARATING LAYER AS VCL WITH 12.5MM PLASTERBOARD AND SKIM ALL JOINTS TAPED, WITHIN THE ROOF VOID INSULATION OF 400MM MIN THICK ROCKWOOL TO BE PROVIDED LAID OVER AND BETWEEN THE CEILING JOISTS/TRUSS BOTTOM CHORD IN A MIN 3 LAYERS AT 90 DEGREES TO THE PREVIOUS LAYER.

**ROOF COVERING:-** THE ROOF COVERING TO COMPRISE OF PROTEC/SIM BREATHABLE MEMBRANE WITH 100MM HEAD AND 200MM SIDE LAPS FIXED WITH 10MM GALV STAPLES @ 400MM C/C OVER THE SPARS/TOP CHORD, WITH 25X50MM SW TANILISED BATTENS LAID TO THE CORRECT TILE GAUGE WITH A MIN LENGTH OF 1200MM OR 3 SPAR SPAN WHICHEVER IS THE GREATER, FIXED BY 70MM 6.5G GALVANISED NAILS AT 2 PER SPAR ALL JOINTS TO BE MITRED. WITH MARLEY OR SIMILAR PLAIN TILES OVER FIED AT 1 NAIL PER TILE ON EACH COURSE/TO THE RECOMMENDATIONS OF THE MANUFACTURER. TILE VENTS MUST BE INSTALLED AT 2000MM C/C HORIZONTALLY AT MID SPAN, THE RIDGE TO COMPRISE OF KLOBER/SIM VENTED DRY FIX RIDGE SYSTEM WITH MARLEY MODERN/SIM RIDGE TILES HIP BONETS MUST BE USED AT THE JUNCTION BETWEEN RIDGE AND HIP.

**WINDOWS AND DOORS:-** TO BE UPVC DG UNTIS TO BS6262 WITH A DG UNIT OF 4-20-4 OF FLOAT GLASS OUTER, KRYPTON/ARGON FILLED CAVITY, LOW COATED TO THE INNER PANE. ANY GLAZING BELOW 800MM FROM FFL OF ADJACENT TO A DOOR MUST BE TOUGHENED GLASS. All windows to be min 1.6W/M2k all doors to be 1.8w/m2k MIN

**ROOF LINE:-** THE ROOFLINE TO COMPRISE OF UPVC FACIAS AND CONTINUOUSLY VENTED SOFFITS CLAER VENTILATION FROM THE SOFFIT TO THE ROOF VOID MUST BE MAINTAINED, 110MM GUTTERS TO BE PROVIDED SUPPORTED BY PROPRIETARY CLIPS AT MAX 750MM C/C TERMINATING INTO 78MM DOWNPIPES TERMINATING INTO THE EXISTING GULLEYS. \*\*\*N.B\*\*\* NO ALTERATIONS REQUIRED FOR THE DRAINAGE PROVISION AT THIS TIME.

**ELECTRICAL GAS WATER VENTILATION:-** ALL ELECTRICAL WORK TO COMPLY WITH AND BE DESIGNED INSTALLED & COMMISSIONED BY A COMPETENT PERSON UNDER THE COMPETENT PERSON SCHEME TO PT P OF THE REGULATIONS.

ALL GAS INSTALLATIONS TO COMPLY FULLY WITH GAS SAFE REGS ALL WATER INSTALLATIONS TO COMPLY WITH WRAS REGS FULLY AND PROVIDE WHOLESOME HOT AND COLD WATER WITH FLOW RESTRICTORS ALL OUTLETS AND TEMP RESTRICTORS TO HOT OUTLET SET AT 38 DEGREES MAX TEMP.

PASSIVE AND BACKGROUND VENTILATION TO BE PROVIDED BY 8000MM2 TRICKLE VENTS TO ALL WINDOWS AND MECHANICAL VENTILATION TO AL W.C/BATHROOMS/EN-SUITES OF 15L/SEC FOCUSED OR 30L/SEC IN ROOM VENTILATION.

INTERLINKED SMOKE AND HEAT PROTECTION TO BE INSTALLED THROUGHOUT WITH BATTERY BACKUP TO BS5839.



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**PROJECT/JOB/DWG NO/**  
MR/006/01

**CLIENT**  
MISS MANDY ROSCOE

**SCALE** 1:20  
@A3

**PROJECT**  
PROPOSED EXTENSION AT  
2HYACINTH CLOSE ROSSENDALE

SECTION

Miss M Roscoe  
 2 Hyacinth Close  
 Rossendale

BEAM A		SPAN 4.50M				
LOAD	LOADING W1	START X1	LOADING W2	END X2	R1 COMP	R2COMP
UD o.w	0.2	0	L		0.35	0.35
RD roof dead	6	1.1		2.6	4.24	4.76
RL roof live	6	1.1		2.6	4.24	4.76
			Total load 18.70		8.84	9.86
		dead	4.59		5.11	
		live	4.24	4.76		

Maximum B.M. = 12.6 kNm at 1.81m. from R1

Maximum S.F. = 9.8 kN at R1

Live load deflection =  $7.35 \times 10^{-8} / EI$  at 1.78 m. from R1 ( $E$  in  $N/mm^2$ ,  $I$  in  $cm^4$ )

Total deflection =  $15.1 \times 10^{-8} / EI$  at 1.78 m. from R1

Use 2No 150X75X18PFC S355

BENDING:  $P_{bc} = 141.9 N/mm^2$  (table 3b)  $f_b = 109.9 N/mm^2$  OK

SHEAR:  $f_s = 12.0 N/mm^2$  ( $P_s = 140 N/mm^2$ ) OK

LIVE LOAD DEFLECTION = 4.2 (L/841) OK

TOTAL DEFLECTION = 8.5 mm (L/409)

**BEARINGS**

146X37 UB STIFF BEARING LENGTH,  $b_1 = t + 1.6r + 2T = 40.3MM$ ; OA  $b_1$  TAKEN AS 186.7 MM

LOCAL DESIGN STRENGTH OF MASONRY (FACTORED) =  $0.700N/mm^2$

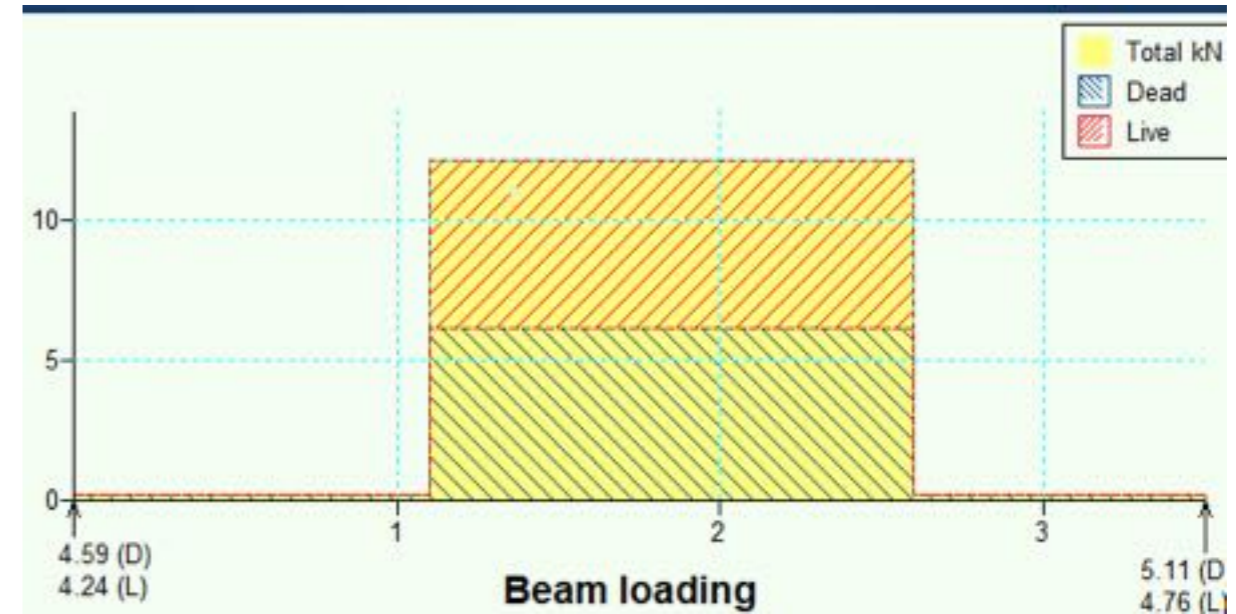
R1: 200X100X100h(use 140h) mm PADSTONE

Factored reaction =  $4.59 \times 1.4 + 4.24 \times 1.6 = 13.22$  KN


Factored stress under padstone =  $0.66 N/mm^2$

R2: 225X100X100h(use 140h) mm PADSTONE

Factored reaction =  $5.11 \times 1.4 + 4.76 \times 1.6 = 14.76$  KN



STRUCTURAL CALCULATIONS

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<p><b>PROJECT</b> PROPOSED EXTENSION AT 2HYACINTH CLOSE ROSSENDALE</p>		