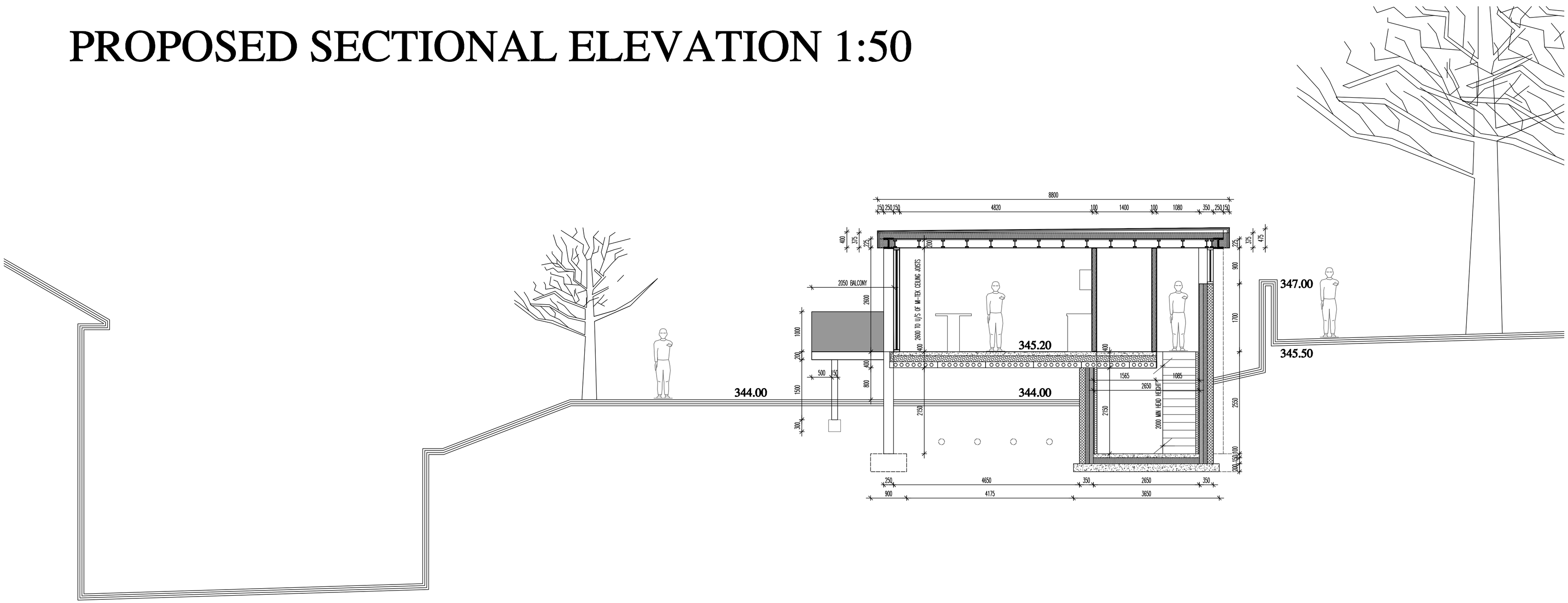
PROPOSED SECTIONAL ELEVATION 1:50



GENERAL CONSTRUCTION NOTE:

THE BUILDING IS TO BE A SELF SUPPORTING SKIN WITHIN A STEEL FRAME BOX OF STEEL CORNER AND CENTRE POSTS THAT SIT ONTO 900sq CONCRETE PADSTONES. ALL STEEL WORK TO BE SUPPORTED BY STRUCTURAL CALCULATIONS BUT THE BUILDING HAS BEEN DESIGNED WITH POSTS TO BE 250x150 SQ SECTIONS WITH THE EQUIVALENT TIE STEEL BEAMS BOTH WITHIN THE FLOOR AND ROOF.

THE FRAME IS DESIGNED SO THAT THE DWELLING SITS ABOVE THE GROUND FLOATING WITHIN THE POSTS WITH A FINISHED FLOOR LEVEL 1200mm ABOVE GROUND. THE FLOOR STRUCTURE IS TO 1200 WIDE 150 DEEP BISON HOLLOW CORE SUPPORTED WITHIN THE STEELS THAT RUN FRONT TO BACK FROM THE MAIN FRAME POSTS. ABOVE THE BISON PLANKS WILL BE A MIN 1200g DPM, 150 DEEP GROUND BEARING SLAB INSULATION, UNDERFLOOR HEATING SYSTEM AND 100 DEEP CONC SCREED OVER THE SOFFIT OF THE FLOOR IS TO BE FINISHED WITH 50mm SOFFIT INSULATION TO WRAPPED DPM AND FINISHED WITH AN ANTHRACITE GRP CLADDING STRIP TO A DEPTH OF 400mm. ALL STEELS ARE TO BE DARK GREY TO FIRE RETARDANT FINISH.(ALL STEEL WRAPPED IN DPM BELOW GROUND).

THE ROOF STRUCTURE IS TO BE CONSTRUCTED WITH MiTek POSI-JOISTS 225mm DEEP (72mm WIDE) AT 600ctrs TO SPAN SIDE TO SIDE INTO STEEL FRAME. THIS FLOOR IS TO ALLOW FOR SERVICE WITHIN EACH ROOF BAY IF REQUIRED. THE ROOF FINISH IS TO A WARM DECK MAKE-UP WITH A SMOOTH GRP DECK FINISH DRESSED TO INSULATED SOFFIT BOARDS IN ANTHRACITE (LAY TO FALL), VAPOUR MEMBRANE, 19mm EXTERNAL GRADE PLYBOARD, 150mm DEEP KINGSPAN BOARD TO 2000g DPM TO PLYBOARD DECK (MIN 12mm) OVER ROOF STRUCTURE. TO THE ROOF DECK ALLOW FOR ANGLED PHOTOVOLTAIC PANELS TO SUPPLEMENT THE SOURCE OF ENERGY FROM GROUND SOURCE HEAT SYSTEM BELOW THE BUILDING. THESE PANELS ARE TO BE SCREENED FROM THE ROAD WITH A 600mm HIGH TIMBER FRAMED 'WALL' WITH 140 STUDFRAME, VERTICAL DPM AND BATTEN TO TAKE AN ANTHRACITE FINISH CLADDING WITH ASSOCIATED EDGING STRIPS.

THE WALL SKIN WITHIN THE BUILDING IS THEN TO BE NON STRUCTURAL WITHIN THE FRAME. THE FRONT ELEVATION IS TO BE FULLY GLAZED WITH TRIPLE GLAZED UNITS TO A HIGH PERFORMANCE NARROW CASEMENT ALUMINIUM FRAME WITH U VALUE OF 0.9 W/M2K. ALLOW FOR SLIDING DOORS SECTIONS AS SHOWN ALL GLAZING SECTIONS DESIGNED TO BE 1800 WIDE MODULE AT HEIGHT OF 2600mm. ALLOW FOR BLINDS WITHIN GLAZING IF SO DESIRED BY THE CLIENT. THE CLAD WALL FRAME SECTIONS ARE TO BE 170x50 TIMBER FRAME SAT ONTO ASSOCIATED SOLE PLATES BOLTED TO FLOOR UPSTAND (OVER DPC) FRAME TO BE INSULATED WITH FULL FILL CELOTEX XR4170 OR EQUIVALENT. EXTERNAL MAKE-UP TO BE VERTICAL BREATHER MEBRANE (LAPPED) MIN 12mM PLYBOARD SHEET/OSB, VERTICAL TIMBER BATTEN AND HORIZONTAL CEDAR BOARDING DRESSED TO RELEVANT EDGING STRIPS. INTERNALLY FRAME TO BE MIN 60mm CELOTEX GA4060 TO VAPOUR CONTROL BARRIER. PLASTERBOARD AND SKIM TO FINISH WITH ALL AREAS TAPED AND SEALED TO AVOID AIR LEAKAGE.

THE ENTRANCE CORNER INTO THE BUILDING IS TO BE OF INSULATED CAVITY CONSTRUCTION WHERE IT SITS AGAINST THE EXISTING GRITSTONE BOUNDARY WALL TO THE SITE. EXTERNAL SKIN TO BE DRESSED COURSED GRITSTONE (150 ON BED) TO 100mm FULL FILL CAVITY WITH XTRATHERM CAVITY THERM AND ASSOCIATED CLOSURES ETC THERETO, INTERNAL BLOCK SKIM TO 7N TOPLITE OR EQUIVALENT AND DRY LINED WITH PLASTERBOARD AND SKIM TO LINE THROUGH WITH TIMBER FRAME SECTION.

THIS AREA IS TO CONTINUE DOWN AS A SERVICES BASEMENT BELOW THE LOBBY SPACE TO HOUSE THE BOILER AND THE RELEVANT PLANT THERETO. THIS SPACE IS TO BE TANKED AND DRY LINED WITH 75mm KINGSPAN BOARD TO OLDROYD TANKING. FLOOR TO BE AN INSULATED GROUND BEARING SLAB WITH DPM, 150 INSULATION AND 100 SCREED.

HOUSE IS TO LINK TO THE CAR PARKING SLAB/GARAGE ENTRANCE (WHICH IS LEVEL TO THE ROAD) VIA A WALK BRIDGE OVER THE LOWER GROUND LEVEL WHICH IS TO BE TURFED THROUGHOUT. THE LINK IS TO BE TWO OUTER STEELS WITH INFILL 200 DEEP JOISTS AT 600ctrs (TANALISED AND FINISHED FOR EXTERNAL USE). EXTERNAL GRADE PLYBOARD OVER TO DPM AND EXTERNAL GRADE NON SLIP FINISH. ALLOW FOR FOR FRAMELESS GLASS BALUSTRADE FIXED TO STEEL SOFFIT. FRAMELESS GLAZING TO CONTINUE AROUND THE CAR PARK SLAB.

THE GARAGE THERETO IS TO BE CONSTRUCTED AS A TIMBER FRAME CONSTRUCTION TO MATCH THE HOUSE BUT WITH A 140 FRAME (WITH FULL INSULATION), DRY LINED INTERNALLY WITHOUT INSULATION, WITH A MOISTURE RESISTANT BOARD FINISH. FLOOR AGAIN TO BE BISON BEAMS TO TAKE RELEVANT IMPOSSED LOADINGS, DPM AMD SCREED FINISH.

THE BUILDING IS TO BE FED BY RENEWABLES WITH A GROUND FLOOR HEAT PUMP SYSTEM THAT WILL SIT 1200 BELOW GROUND IN THE VOID SPACE BELOW THE BUILDING. THIS WILL FEED A BOILER TO THE SERVICES BASEMENT ROOM. THE INTENTION IS FOR THE FULL GROUND FLOOR AREA TO BE UNDERFLOOR HEATING WITH ASSOCIATED TOWEL RADS TO BATHROOM AREAS. ALLOW FOR A PASSIVE VENTILATION SYSTEM THROUGHOUT IN ACCORDANCE WITH THE RELEVANT CALCULATIONS REQUIRED.

ALL MAINS ELECTRIC AND WATER FEEDS ARE TO COME IN OFF CORBAR WOODS LANE WHILST FOUL AND SURFACE WATER IS TO FEED TO THE EXISTING COMBINED SYSTEM ON SITE TO CORBAR HALL VIA A DROPPED MANHOLE THERETO.

0M 1M 2M 3M

NEW DWELLING, CORBAR WOODS LANE 1:50

REVISIONS:

PROPOSED ELEVATIONS
BUXTON
CORBAR WOODS LANE

SCALE: 1:50
DATE: AUGUST'17 DRAWN: AJS CHECKED: AJS

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DRAWING No: PROPOSED 08

B REGS COMPLIANT