

STEEL POSTS & BEAMS TO BE GALVANISED WITH POWDER COATED FINISH IN ACCORDANCE WITH ARCHITECT SPEC & DETAILS

PERGOLA CONSTRUCTION AS FOLLOWS:
200x200x6.3 SHS POSTS WITH 203x133x25UB STEEL BEAM OVER TO FORM SUPPORT FRAME FOR 175x44mm TIMBER HARDWOOD JOISTS (TIMBER SPECIES TO BE CONFIRMED BY ARCHITECT) AT 400mm CRS
STEEL A FRAMES TO BE FABRICATED AS ONE PIECE WITH SUPPORT COLUMNS WELDED TO BOTTOM FLANGE OF BEAM WITH AN 8FW ALL AROUND PER POST - REFER TO ARCHITECT DRAWINGS FOR PERGOLA DETAILS
HARDWOOD TIMBER SPANNING BETWEEN STEEL FRAMES TO BE BOLTED BACK TO EXTENDED FIN PLATES WELDED INTO WEB OF STEEL BEAMS WITH 2No. M12 BOLTS PER JOIST

INDICATES DIRECTIONS OF SPAN OF ROOF TIMBER RAFTERS OVER

DENOTES MOMENT CONNECTIONS

CONTRACTORS TO ALLOW FOR ALL NECESSARY PROPPING & SHORING TO EXISTING MASONRY WALLS PRIOR TO REMOVING EXISTING ROOF AND MAINTAINED UNTIL NEW WALLS & PERMANENT RESTRAINT IS COMPLETE

GROUND FLOOR PLAN

(SHOWING STEEL OVER)

ALL STEEL BEAMS AND COLUMNS EXCEPT SHS COLUMNS TO BE PREDRILLED WITH 14mm ϕ HOLES AT 800mm CRS IN WEB AND 800mm STAGGERED HOLES IN FLANGES IN ORDER TO INSTALL TIMBER PACKERS ON BEAM WITH M12 BOLTS GRADE 8.8

ALL STEEL POSTS TO BE PLUMBED AND TEMPORARILY PROPPED UNTIL CONSTRUCTION AND TYING OF MASONRY IS COMPLETE

ALL EXTERNAL STEEL STRUCTURE TO BE HOT DIP GALVANISED TO I.S. EN ISO 1461:2009

ALL STEEL CONNECTIONS WHERE GALVANISED & PRIMERED STEEL ARE CONNECTED TOGETHER ARE TO BE SEPERATED WITH A SUITABLE NEOPRENE GASKET

200x200x6.3 SHS GALVANISED AS NOTED

203x133x30UB

203x133x30UB CANTILEVER BEAM WELDED TO COLUMN

200x200x6.3 SHS GALVANISED AS NOTED

FASCIA, VENTILATION ETC ALL TO ARCHITECTS DETAILS

ROOF CONSTRUCTION FINISHES ON TIMBER BATTENS TO ARCH SPEC ON 225x44mm GRADE C24 TIMBER RAFTERS SPANNING BETWEEN STEEL BEAMS AT 400mm CRS COVERINGS, MEMBRANE & INSULATION TO ARCH SPEC.

TOP OF TIMBER STUD WALLS TO BE TIED TO ROOF STRUCTURE AT RAFTER & CEILING LEVEL WITH 30x5mm BAT GALVANISED STEEL STRAPS OR SIMILAR APPROVED AT MAX 1200mm CRS - SEE DETAIL

GABLE LADDER TO BE FORMED WITH 2No. 50x50x5EA BRACKETS WITH 10mm TK ENDPLATES WELDED TO 203UB BEAM AT EACH END AT RAFTER LEVEL TIMBER RUNNER BOLTED TO ENDPLATE ON BRACKET WITH 4No. M12 BOLTS

175x44mm TIMBER RUNNER BOLTED TO UNDERSIDE OF 203UB BEAM AT RAFTER LEVEL TO PROVIDE GROUNDS FOR FIXING 175x44mm TIMBER STUD WALL AT RAFTER LEVEL

3No ROWS OF 225x44mm BRIDGING TIMBERS AS SHOWN

BAT OR SIMILAR 25x2.5mm GALVANISED STRAPS 1200mm LONG FIXED AT BTM OF TIMBER JOISTS AT EACH SIDE OF STEEL BEAM AT MAX 1.2m CRS - FIXED WITH MIN 4No 4.5swg x 75mm LONG NAILS EACH SIDE OF BEAM

GUTTER, FASCIA, VENTILATION ETC ALL TO ARCHITECTS DETAILS

NOTE: PERGOLA OMITTED FOR CLARITY.

NOTE: RAFTERS TO MAIN PITCHED ROOF TO BE GRADE C24

TRIPLE 225x44mm RAFTERS (GRADE C24) OVER TIMBER STUD TRIPLE RAFTER TO BE BOLTED WITH M10 BOLTS AT MAX 1200mm CRS

224x44mm TIMBER RAFTERS GRADE C24 AT 400mm CRS

DOUBLE 225x44mm RAFTERS (GRADE C24) EACH SIDE OF EVERY ROOFLIGHTS AND TRIMMING ENDS OF RAFTER ABUTTING ROOFLIGHT OPES - REFER TO ARCHITECTS DRAWINGS FOR LOCATION AND SPEC FOR ROOF LIGHTS

225x44mm GRADE C24 TIMBER FLAT ROOF JOISTS HUNG WITH BAT TYPE SPH JOIST HANGERS OR SIMILAR APPROVED ON TIMBER PACKERS BOLTED THROUGH WEB OF STEEL BEAM WITH M12 BOLTS GRADE 8.8 THROUGH 14mm ϕ PREDRILLED HOLES

ALL STEEL BEAMS AND COLUMNS EXCEPT SHS COLUMNS TO BE PREDRILLED WITH 14mm ϕ HOLES AT 800mm CRS IN WEB AND 800mm STAGGERED HOLES IN FLANGES IN ORDER TO INSTALL TIMBER PACKERS ON BEAM WITH M12 BOLTS GRADE 8.8

ROOF PLAN

NOTES:

EXACT FOUNDATION LEVELS TO BE FIXED ON SITE BY ENGINEER

ALL CONCRETE TO BE GRADE C32/40 WITH MAX 20mm AGGREGATE (40N20) EXCEPT SCREEDS TO HAVE 10mm AGGREGATE

CONTRACTOR TO TAKE CUBE SAMPLES FROM ALL STRUCTURAL CONCRETE IN ACCORDANCE WITH SPECIFICATION. CUBES TO BE STORED IN CONTROLLED (IMMERSED) CONDITIONS AND TESTED AT 7 AND 28 DAYS IN ACCORDANCE WITH SPECIFICATION

TESTS TO BE TAKEN AT THE MINIMUM RATE OF 2 CUBES PER 7.0m³ PER CONCRETE POURED

INCLUDE FOR A PROVISIONAL QUANTITY OF 15m³ OF LEANMIX CONCRETE (IN ADDITION TO BLINDING UNDER STRIPS) FOR SOFT SPOTS - ALLOW FOR EXCAVATION AND DISPOSAL OFF SITE OF 15m³ OF SOFT MATERIALS

ALL EXCAVATED MATERIALS FROM SITE CLEARANCE AND DIG TO FORMATION LEVEL TO BE DISPOSED OF OFF SITE IN ACCORDANCE WITH WASTE MANAGEMENT REGULATIONS

EXTENT TO WHICH CAVITY WALL CONSTRUCTION IS EXTENDED BELOW FLOOR LEVEL TO BE ADJUSTED TO SUIT FINISHED EXTERNAL GROUND LEVELS

ALL COMPACTED hardcore FILL BELOW CONCRETE FLOORS & FOOTPATHS TO BE IN ACCORDANCE WITH I.S. EN13242:2002 & MEET THE SPECIFICATION AS OUTLINED IN ANNEX E OF THE ACCOMPANYING GUIDANCE DOCUMENT TO THIS STANDARD, SR21:2004+A1:2007

ALL SETTING OUT, LEVELS AND DIMENSIONS TO BE TAKEN FROM ARCHITECTS DRAWINGS - DO NOT SCALE THIS DRAWING

COVER TO REINFORCEMENT TO BE 40mm IN INTERNAL AREAS AND 50mm TO FOUNDATIONS AND BELOW GROUND

MIN LAP LENGTHS TO BE AS FOLLOWS:

H12 - 600mm
H16 - 850mm
H20 - 1100mm
H25 - 1450mm

EXPOSED CONCRETE SURFACES TO BE CURED IN ACCORDANCE WITH IS EN 1992.

WETTING OR OTHER PROTECTION TO BE PROVIDED TO CONCRETE SURFACE OR PROPRIETARY CURING AGENT

CONTRACTORS WILL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY WORKS NECESSARY AND SAME TO BE CO-ORDINATED WITH THE ENGINEER FOR THE PURPOSES OF CHECKING COMPATIBILITY WITH PERMANENT WORK AS NECESSARY

ALL LEVELS, DIMENSIONS AND SETOUT TO BE TAKEN FROM ARCHITECTS DRAWINGS - DO NOT SCALE THIS DRAWING

ALL STRUCTURAL TIMBER TO BE GRADE C24 AND GENERALLY PLACED AT 400mm CRS EXCEPT AS NOTED
ALL TIMBER TO BE SUPPLIED DOUBLE VACUUM PRESSURE TREATED OR TREATED ON SITE AS REQUIRED (i.e. ALL BATTENS, WALLPLATES, JOISTS ENDS, TRIMMERS AND ROOFLIGHTS ETC TO BE TREATED WITH 2 COATS OF AN APPROVED PRESERVATIVE AFTER ALL CUTTING AND NOTCHING CARRIED OUT)

ROOF LOADS:
IMPOSED (ROOF) 0.75 kN/sq.m
IMPOSED (CEILING LEVEL) 0.25 kN/sq.m

DEAD (FLAT ROOFS)
COVERINGS & INSULATION 0.10 kN/sq.m
DECK 0.15 kN/sq.m
TIMBER STRUCTURE 0.25 kN/sq.m
CEILING + SERVICES 0.25 kN/sq.m

DEAD (PITCHED ROOFS)
SLATES 0.55 kN/sq.m
INSULATION 0.05 kN/sq.m
TIMBER STRUCTURE 0.15 kN/sq.m
CEILING + SERVICES 0.25 kN/sq.m

T1	TENDER ISSUE	JUL26
rev	amendments	date



ALAN CLARKE & ASSOCIATES
consulting civil & structural engineers
PROJECT MANAGERS

ENTERPRISE CENTRE
DUBLIN ROAD, CASTLEBLAYNEY
CO MONAGHAN
p: 042-9740071
f: 042-9746645
e: info@alanc Clarke.ie

client BOARD OF TRUSTEES AT THE TYRONE GUTHRIE

project ALTERATIONS TO POTTING SHED SHARED ISLAND
AT TYRONE GUTHRIE CENTRE, MULLAGHMORE
title GROUND FLOOR PLAN & ROOF PLAN

architect date job no
GAFFNEY CULLIVAN ARCHITECTS JUL26 26114

scale drawing no rev
1:50 26114-201 T1