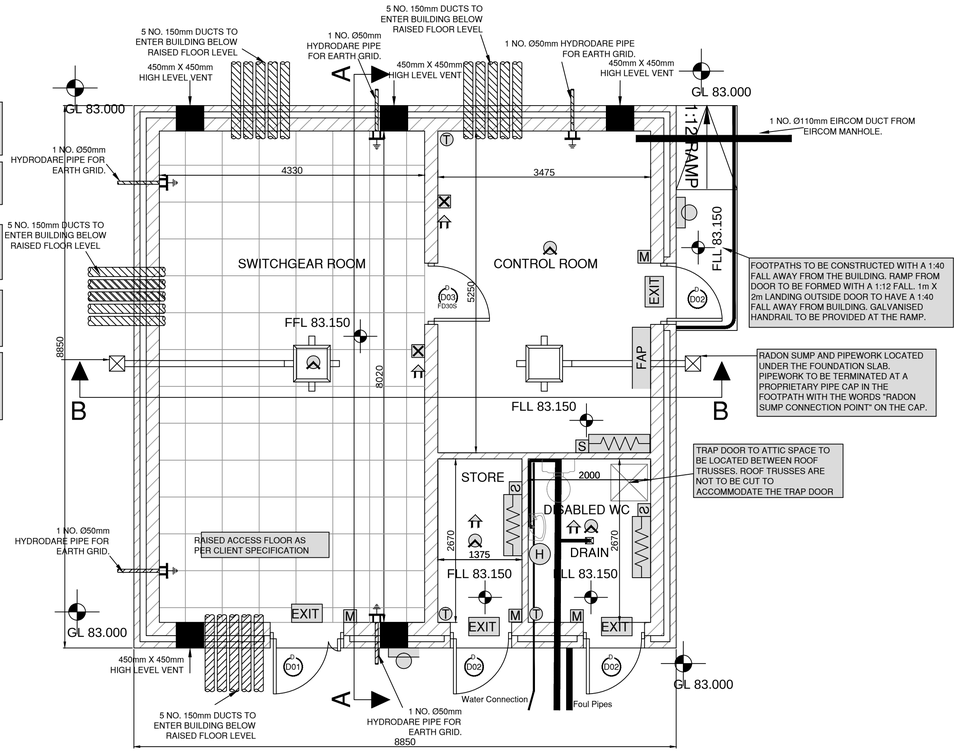
NOTE:
ALL DUCTS ENTERING THE BUILDING ARE TO BE LAID TO A FALL AWAY FROM THE BUILDING TO PREVENT THE INGRESS OF WATER INTO THE BUILDING.

NOTE:
ALL HIGH LEVEL VENTS INTO THE BUILDING ARE TO BE DESIGNED TO BE WEATHER PROOF.

NOTE:
SUSPENDED FLOOR MUST BE DESIGNED FOR A MAXIMUM POINT LOAD OF 15kN & 30kN/msq. THE WORKING LOAD FOR THE RAISED FLOOR TO BE 5kN POINT LOAD.

NOTE:
CABLE DUCTS BETWEEN ALL ROOMS TO BE FIREBLOCKED AFTER THE CABLES HAVE BEEN INSTALLED. FIREBLOCK TO MAINTAIN THE FIRE RESISTANCE OF THE WALL.

RADON SUMP AND PIPEWORK LOCATED UNDER THE FOUNDATION SLAB. PIPEWORK TO BE TERMINATED AT A PROPRIETARY PIPE CAP IN THE FOOTPATH WITH THE WORDS "RADON SUMP CONNECTION POINT" ON THE CAP.



CLIENT CONTROL BUILDING FLOOR PLAN
SCALE 1:50

RAISED FLOOR:

General:
Raised access floor to be in accordance with BS EN12825: 2001. Elements shall be CLASS 6 in accordance with Table 1 of BS EN12825. Deflection to be in accordance with Table 2 of BS EN12825. Raised access floor to comprise 600 x 600mm panels comprising a high density particle board with a 0.5mm galvanised steel sheet soffit and uPVC edge trims. Panels to be covered with an anti static laminate. Pedestals to be P1000 unistrut with P2072 base plates and P1003 top plates.
Earthing connection to be double nut on base plate bolt. Stringers to be P1000 unistrut with continuous stringers in one direction. Deviations on panel dimensions to be in accordance with CLASS 1 of Table 3 of BS EN12825:2001. Pedestal fixing to be pedestal adhesive with every fourth pedestal base fixed with 2 no. 40mm stainless steel hammer home anchors. One suction lifter to be supplied and stored in the control room. Raised access floor level to finish flush with the finished floor level of the adjoining corridor.

FLOOR SLAB:
150mm reinforced concrete floor slab. Concrete slab to be reinforced with A252 mesh top and bottom. Reinforcement to have a minimum of 35mm cover of concrete. Floor slab constructed on 70mm thick Kingspan Thermafloor TF70 insulation (or similar approved rigid insulation) on radon barrier on 50mm minimum sand blinding on minimum 250mm compacted gas permeable hardcore layer comprising clean dry well compacted broken stone 10 to 50mm in size with no fines. Any levels to be made up under or over the gas permeable hardcore layer to be done with compacted clause 804 compacted in accordance with the NRA specifications.

Wall Construction:

External cavity walls:
100mm concrete block outer leaf with silver sand render finish,100mm cavity with 65mm thick Kingspan Thermawall TW50 insulation (or similar approved)
215mm Acheson Glover Deco 100 block inner leaf (or similar approved) silver / grey colour (laid flat) conforming to IS20. The external cavity walls are to have a minimum U-Value of 0.35 W/(m2K).

Internal Walls:
215mm Acheson Glover Deco 100 block (or similar approved) inner leaf silver / grey colour block laid flat conforming to IS20, carried up to ceiling level with fire stop as required.

Wall Finishes:
All internal walls to have a fairfaced finish and treated with a suitable approved anti-dust agent. All mortar joints in blockwork to be 10mm thick.

Roof Construction:
Roof constructed of BLUE / BLACK Cement Fibre Slates on 50 x 25 tannalised softwood battens on 'Thrutex High Performance Felt' or similar approved to I.S. 36 (minimum lap 175mm) on Timber Roof Trusses. Truss Timbers to be grade C16 minimum.

Rafters: 38x150 SCB Timber Grade C16 (I.S. 444) @ 400 c/cs

Ceiling Joists: 44x200 @ 400 c/c with solid bridging at 1.5m centers, fixed on 100 x 75 wall plate bolted to inner leaf wall / roof slab at 1200 c/c. 30 x 5 galvanised steel gable straps to be provided at max 1.8m c/c at ceiling & rafter level. 150mm fibreglass quilt insulation or similar laid between the ceiling joists with 150mm fibreglass quilt insulation or similar laid over the ceilling joists. Underside of ceiling to be finished with 15mm Fireline plasterboard with a 3mm skimcoat plaster finish.

Ceiling slab in the Control room shall be constructed from 200mm Precast concrete slab by Oran Precast or equivalant with 75mm structural screed reinforced with1 No. layer of A252 Mesh. Design Live load of 1.5kN/m2

Roof to have a minimum U-Value of 0.25 W/(m2K).

Aluminium fascias, soffits, downpipes and barge boards, colour white. Soffits to include a ventilation strip.
All rainwater fixtures to direct water to surface water drains.

DOORS:

External Doors:
All external doors, frames and Ironmongery to be in accordance with ESB specification section 3 Civil Specification Part 2 of 2 Chapter 19.

Internal Doors:
All internal doors, Frames and Ironmongery to be 30-minute fire rated doors and to be in accordance with ESB specification section 3 Civil Specification Part 2 of 2 Chapter 19.
Door Heights to be:
D02 - 2750mm
D03 - 2100mm
D04 - 2100mm

Services:

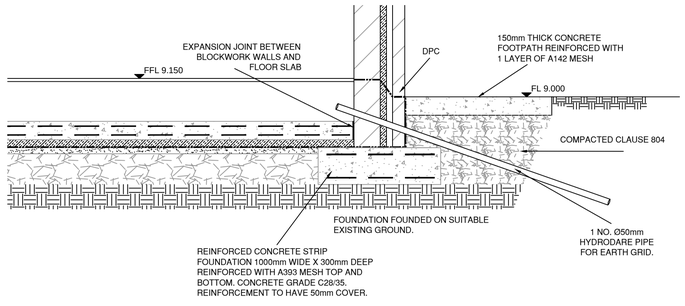
General:
All building services feeders shall be derived from metal-clad distribution boards fitted with MCBs, with suitable circuit protection, in accordance with The IEE Wiring Regulations, 17th Edition, BS 7671 or equivalent national standard. All building service cabling shall be run in metal cable tray, trunking or conduit.

Heating:
Store and WC shall be fitted with an appropriately sized thermostatically controlled electric heater. An individual 'Timer / OFF' switch shall be provided for each heater.
A heat lamp is to be provided in the attic by the water tank. The heat lamp is to be controlled by a temperature switch which will turn the lamp on during times of low temperatures.

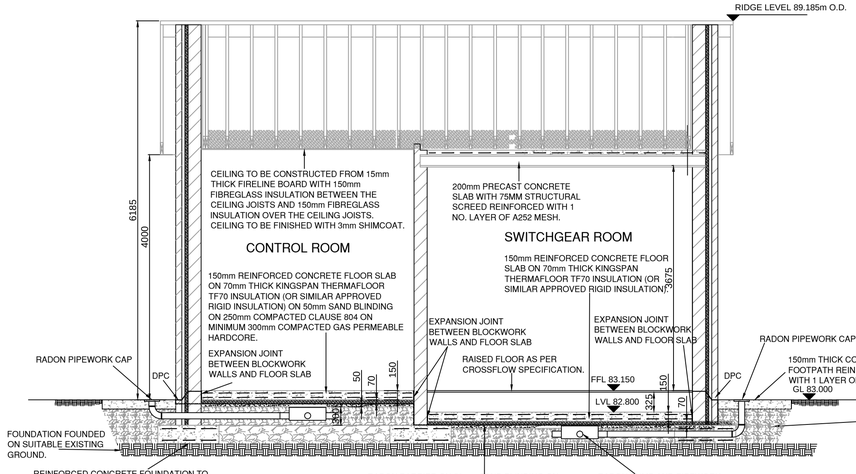
Lighting, Electrical & Telecoms:

All lighting, electrical and telecoms installations shall be in compliance with the relevant local statutory regulations.

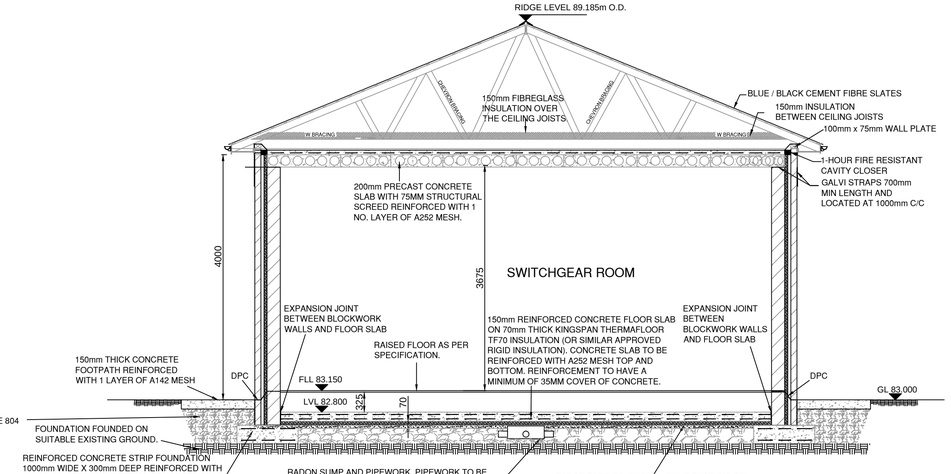
Ducts:
Walls and base of ducts must be constructed from poured concrete. 40 x 40 mm rebate along ducts.



DETAIL THROUGH EARTHGRID CONNECTION INTO BUILDING
SCALE 1:25



SECTION B-B
SCALE 1:50



SECTION A-A
SCALE 1:50

Notes
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
4. ALL LEVELS REFER TO ORDNANCE DATUM (MALIN HEAD).

LEGEND

SOLID CONCRETE BLOCK WALLS

CABLE DUCTS

RAISED FLOOR

ELECTRIC HEATER
S FUSED SPUR
T WALL MOUNTED THERMOSTAT
H UNDER SINK ELECTRIC HEATER

FFL = FINISHED FLOOR LEVEL
LVL = LEVEL
TOF = TOP OF FOUNDATION LEVEL

rev.	modifications	by	chkd	date
file				

client
GREEN WIND ENERGY GROUP.

project
YELLOW RIVER WIND FARM, COUNTY OFFALY.

stage
PLANNING - SECTION 2

title
CLIENT CONTROL BUILDING - PLAN AND DETAILS

scale
AS SHOWN

surveyed	drawn	checked	date
GWE	D.Guilfoyle	N.Carr	April 2014

JENNINGS O'DONOVAN & PARTNERS
CONSULTING ENGINEERS,
FINISKLIN,
SLIGO,
IRELAND.
TEL. +353 (0)71 916 1416
FAX. +353 (0)71 916 1080
Email: info@jodireland.com

drawing no.
4909 -PL-S2- 202

revision