

1200 X 1200 X 750mm deep mass concrEte pad foundations to each stanchion - all to Structural Engineer' specification and design Gable steel and foundations offset 16mm inwards

Gable Stanchions:

254 x 146 x 31 UB set on base plate 300 x 350 x 15 with 22Ø holes with 4 No M20x300 H/D bolts Main (intermediate) Stanchions:

305 x 165 x 40 UB set on base plate 300 x 300 x 15 with 22Ø holes with 4 No M20x300 H/D bolts Structure to incorporate Rafter stays and ridge gusset plates as indicated

FLOOR CONSTRUCTION 175mm min thick concrete slab with 1 layer A193 reinforcement laid on

100mm oversite insulation - Kingspan Thermafloor TF70 or equal approved on 1200 gauge oversite DPM on 50mm min sand blinding on

150mm minimum hardcore Slab to thicken to 450mm minimum beneath perimeter wall Dimensions to be confirmed by Structural engineer and to provide a minimum U-Value of 0.25Wmsq. K

100mm Kingspan KS1000RW to provide a minimum U-Value of 0.25W/sq.m K Cladding laid on purlins (Albion Z14615 sleeved rail system or equal

800mm Kingspan KS1000RW to provide a minimum U-Value of 0.35W/sq.m. K Cladding fixed to (Albion Z14615 sleeved sheeting rail system or equal

DISABLED ACCESS WC

To comply with Diagram 18 Section M1 / M3 of current building

100mm thick medium density block walls finished fairfaced to receive decoration by others

Regulationsinlet gulleys

PERIMETER WALLS

2250mm high x 100mm thick medium density block walls finished fairfaced to receive decoration by others with 20mm thick natural finish Vermiculux board countersunk and predrilled and plugged and screwed to top of block wall to seal cavity - Junction with cladding sealed using two part poly sulphide mastic Blockwork built off DPC on RC slab and lapped over over-site DPM Blockwork tied back to structural steel using ANCON PPB \$/\$ sliding anchors

complete with de-bonding sleeves 125mm long drilled to columns using 6mm Ø seld tapping svrews or similar approved all at 750mm centres vertically

Each hand basin to have individual instantaneous electric hot water

To have mechanical extract fans providing minimum 61/s per WC per hour electrically linked to light switch with 20 minute over-run

Gas or oil fired hot air heating system installed by specialist contractor with certification to comply with requirements of current

A doc Part J and Part M Smoke detection, position of automatic fire deatection and alarm

systems to comply with BS 5839-1 2013

WINDOWS/ DOORS

UPVc thermally broken double glazed with 16mm minimum air gap (Low E, En = 0.2) to provide a minimum U-Value of 2.2 W/sq.m. K Glazed and part glazed doors to be fitted with laminate toughened glass to comply with BS 6206 / 1981 Main entrance doorway to incorporate level threshold

3.6m high X 3.6m wide Sectional insulated doors to provide a minimum

U-Value of 1.5 W/sq.m. K FLASHINGS / SEALS

All flashings to be as per Kingspan standard detail sheets All seals to be as per Kingspan standard detail sheets and in compliance with current Building Regulations

0.7mm thick PM Gutter double sided plastisol coated as Kingspan standard details with all necessary support brackets to discharge via 4 No 100mm Ø aluminium downpipes to trapped gulleys to

connect to 150mm Ø PVC drains laid to minimum falls 1 in 60 to existing (site) surface water drainage system Pipes to be surrounded in pea gravel or weak mix concrete where subjected to vehicular traffic

FOUL DRAINAGE 100mm Ø UPVc foul drains laid to minimum falls 1 in 60 to connect

into existing (site) foul drainage Pre-cast concrete inspection chambers with heavy duty galvanised steel double seal covers with strong mortar benching, slow bends SVP as noted 100mm Ø UPVc with bird proof vent at top terminating minimum 750mm above eaves line Waste(s) to handbasin(s) to be 38mm with 75mm Ø bottle traps via

back inlet gulleys Waste(s) to sinks(s) to be 40mm with 75mm Ø bottle traps via back inlet gulleys Wastes to WCs to be 100mm Ø - All in UPVc

Internal doors 826mm wide door sets (1000mm wide to disabled access WC) to comply with Current A Doc Part M

Internal doors to be $\frac{1}{2}$ hour fire rated doors complete with smoke

seals, self closers and vision panels to comply with Current A Doc

Fire exits to exterior grade doors and frames fitted with panic latches over-riding any locking devices Fire exit signs to comply with BS 5499-4 2000 (Health and Safety signs

Postions of emergency lighting to comply with BS 5266.1 2011

STRUCTURAL DETAILS AND CALCULATIONS For details and calculations refer to design sheets 1-31 Ref Windmill Estate, Barry

VALE OF GLAMORGAN COUNCIL AMENDED PLANS

RECEIVED Date

2014/01433/FUL Rec'd 13-01-2016

THE VALE OF GLAMORGAN COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

APPROVED

SUBJECT TO COMPLIANCE WITH CONDITIONS (IF ANY)

This drawing to be read in conjunction with all specifications and all other consultants design information. Any contradictions between this drawing and any other design information to be advised to the contract adminstrator and author immediately

The contractor to site measure, check and verify all information issued, and confirm the correctness of the contents prior to the commencement

The contractor to comply with all current statutory legislation, Building Regulations, British Standards, and good building

Do not scale from this drawing.

Mitigation Measures as recommended by Sanderson Associates (Consulting engineers) Ltd's report dated 13 November 2014

Any proposed development that has the potential to change the flood mechanisms on a site is to be designed such that there is no increased flood risk to the site itself, or sites upstream and downstream of the development.

Any critical plant or water sensitive stored goods within the site should be raised to a minimum of 600mm above the finished floor level of the proposed units where practicable to do so. The floor slab of the unit and internal walls up to 600mm above slab level should be sealed with a treatment that will prevent the leaching of flood waters. This will assist in the cleaning of the units should a flood event occur.

Drains within the limits of the site should be regularly inspected and cleared wherever necessary to reduce the risk of blockages and subsequent flooding. A flood evacuation plan should be provided for the site staff. The flood evacuation plan should include the following information for the current occupiers and must be passed onto any subsequent occupiers to ensure continuity as far as is practicably possible:

• How to register for 'Flood Warnings Direct', a free NRW service which provides flood warnings to each registered member by selected media such as telephone, email, text message which is tailored to each registered members

• What the different flood codes mean for the property when issued by the NRW (Natural Resources Wales) and what actions to take.

• Confirmation of escape routes from the site should evacuation be attempted □Advice on what to include in the flood kit

• Confirmation on what the sources of flood risk are to the property

Useful contact numbers if required.

Windmill Property Development Client: Units 11 and 12 UNIT 11 - PROPOSED STRUCTURE Title: 1:50 @ A1 Scale: Date: April 2014 Revision: C Drawing No: A 011

B - September 2015 - Unit 11 revised to client' requirements

C - January 2016 - Unit 11 further changed to suit Client

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