

Fingal Co. Council - DUBLIN



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ESB NATIONAL SUPPLY STORE

Ballycoolin Supply Stores,
Blanchardstown



Date Of Survey: 19th March 2003

Surveyors Name: Eugene Boyle
Photographer: Eugene Boyle
Field Controller: Peter Carroll
O.S. Ref: 3061B/D+ 3062A/B/C/D ESB Ref: D/F-N-3061B/D+ 3062A/B/C/D

Architectural Heritage Evaluation:		Categories of Special Interest:	
Record Only		Archaeological (AG)	
Local		Architectural (A)	
District	✓	Artistic (AR)	
Regional		Cultural (C)	
National		Historical (H)	
International		Scientific (SC)	
		Social (SO)	
		Technical (T)	



Summary

Ballycoolin is the National Supply Store for ESB serving their operational centres throughout the country. The Ballycoolin facility replaced two earlier Dublin-based facilities, East Wall Road (outdoor storage) and Central Stores Lower Erne Street (appliances and indoor stores). The facility is manned 24 hours a day.

The complex is located in Blanchardstown on the outskirts of Dublin City in close proximity to the M50 Motorway system which facilitates access to the majority of arterial routes in and out of Dublin.

Completed in 1992 the facility was opened in March 1993. The architects were ESB International.

Originally Ballycoolin was one of three supply stores - Dublin, Limerick and Sligo. Subsequently a process of rationalisation was commenced and Ballycoolin emerged as the single supply store in May 2002.

Description & Materials

The complex consists of an entrance control building, supply store building, vehicular maintenance garage, toxic materials store, external goods storage yards and associated loading/marshalling areas. The site area is 8.91ha (22 acres).

Entrance Control Building

The entrance control building is a pitched roofed building on a square-shaped plan with outward sloping aluminium glazing to the elevations. The building is manned



1. Aerial View of Supply Store Site. 2. View of Main Entrance Control Building and Front Elevation. 3. Side Elevation. 4. Canteen at First Floor Level.

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by security staff who co-ordinate access into and out of the complex.

Security is a major consideration in the management of the complex due to the fact that operational centres ranging from power stations to substations depend on the supply store for spare parts and equipment vital to their efficient and safe operation. As a result the electricity network as a whole is in turn dependent on the security of this national facility. Deliveries to Ballycoolin are made by appointment only and in the order of twenty 40ft (12m) containers delivering materials to the store are off-loaded per day.

Supply Store Building

The supply store building is a large pitch roofed single volume building

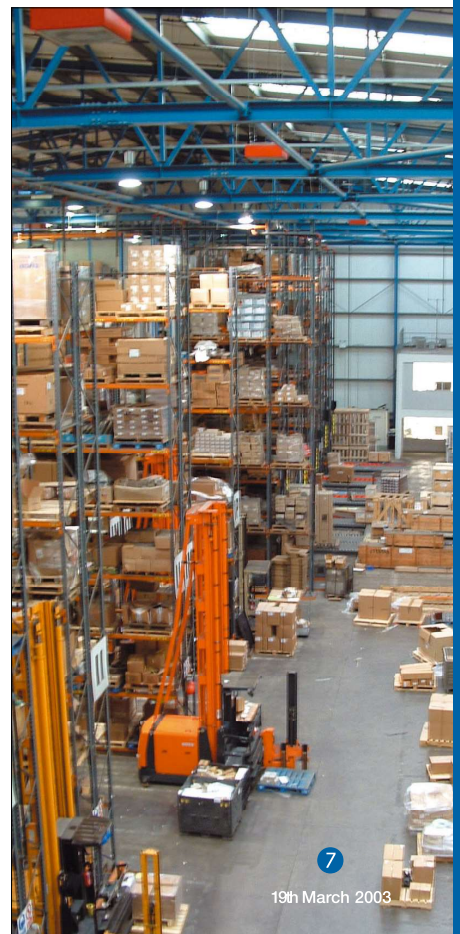
designed to accommodate high-rise storage racking, a three-storey office building and ancillary facilities within the overall envelope of the building.

The steel structure is clad in an insulated double skin metal cladding incorporating areas of double glazed curtain wall and rooflights which provide a high level of natural daylight. The cladding and window systems utilised are robust and commonly used in the construction of contemporary industrial buildings.

The administrative core of the building is located at the northeast corner of the building and is expressed by curtain wall installation which is three storeys in scale. The corner location affords supervision of both entrance area and



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5. Side Elevation onto External Storage Yard. 6. Storage Racking System in Warehouse. 7. View Overlooking Warehouse Floor. 8. Feature Glazing.

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outdoor storage yards. The use of translucent spandrel glazing at first floor level increases the solid to void ratio of glazing to cladding, lending a corporate air to what would otherwise be a utilitarian building.

Vertical and clerestory panels of glazing allow natural daylight dramatically into the warehouse floor which houses the high-rise racking bays. The cross section of the building is clearly expressed with rainwater pipes and gutters being concealed to allow crisp articulation of the building volume. The expansive surface areas of façade enclosing the operations floor are broken down in scale by the large order 'portal' shaped glazing elements and a plinth zone differentiated by cladding materials of contrasting colour.

The plinth element is continued and expanded in height on the northern façade to frame the loading bays openings that facilitate delivery and distribution of materials by 40ft trucks to and from the building.

The overall cladding palette is in corporate ESB identity colours to reflect its critical importance to operations.

Internally the structural steel trusses

provide a clear span of 60m and a clear height of 13.75m. The use of integral rooflights in the roof cladding provides high levels of natural daylight to the warehouse floor and highlights the lattice configuration of the roof trusses.

The warehouse is 5,400m² in area subdivided into eight storage types, each storage type identifies with a type of product e.g.: block stacking, slow moving, fast moving, etc.

The warehouse floor comprises a series of high-rise storage racks 12m in height which are accessed by dedicated high rise picker stacker machines. 78% of all materials are sourced from two storage types.

The three-storey office building accommodates a range of facilities.

At ground floor level there is a reception area, staff changing facilities, administrative/office area, conference room and ancillary services rooms. Access from the reception area into the warehouse floor is controlled.

Staff facilities are located at first floor level. These include canteen, kitchens and associated stores recreation room, offices and toilets.

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9. View Overlooking External Storage Compound and Vehicular Maintenance Garage. 10. Metal Cladding Detail. 11. View Above Entrance Lobby. 12. Loading Entrances to Side Elevation.

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Date Of Survey: 19th March 2003



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A number of offices are located at second floor level in addition to computer and communications rooms.

Vehicular Maintenance Garage

A range of vehicles are maintained at the garage located in the external storage yard.

The fleet of 18 tractor units and trailers based at Ballycoolin deliver materials throughout the country. In addition forklifts and high-rise picker stacker machines, which are essential to the logistical planning of the complex, are maintained in the garage.

Toxic Materials Store

Materials for distribution which are of a toxic nature are stored in the toxic store located in the external storage yard. These materials range from paints to gases and are logged by standardised ESB safety data sheets. These materials are small in quantity at any given time.

External Goods Storage Yards

The outdoor storage yards are approx 18 acres in area, of which 7 acres are used for stocking of materials. There are 22 forklift trucks ranging from 3 ton to 7 ton capacity employed in this area.

This area is subdivided into 10 storage types, each storage type identifies with a type of product, e.g. steelwork, cable, transformers, slow moving items, etc.

A one-way traffic management system is employed in conjunction with strict time management/ logistical planning procedures.

The overall site is sensitively landscaped, both in terms of boundary screening treatment and extensive use of native tree species. It is worth noting that at time of construction, the surrounding landscape was less developed and more agricultural in character. As a result it was a planning requirement that the building complex be screened by use of man-made berms (mounds) and trees. The surrounding area has been heavily developed during the past 10 years.



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13. Vehicular Maintenance Garage. 14. Toxic Materials Store. 15. View Overlooking External Storage Yard. 16. Container Trailer Parking Area.

ESB RETAIL SUPERSTORE

Unit 421,
Blanchardstown Retail Park,
Blanchardstown



Date Of Survey: 28th August 2003

Surveyors Name: Mark Tolan
Photographer: Mark Tolan
Field Controller: Peter Carroll
O.S. Ref: 3061/D ESB Ref: D/F-SS-3061/D?

Architectural Heritage Evaluation:

Record Only
Local
District
Regional
National
International



Categories of Special Interest:

Archaeological (AG)
Architectural (A)
Artistic (AR)
Cultural (C)
Historical (H)
Scientific (SC)
Social (SO)
Technical (T)



Summary

ESB occupy Unit 421, a two-storey mid-terraced unit in the second phase of retail park developments at the Blanchardstown Centre. The first retail development phase was designed by the architects A.&D. Weichert & Partners Ltd. in 1998. The store replaced the ESB Shop formerly located in Blanchardstown village and opened following a fitout by Building Consultancy Group in 2002.

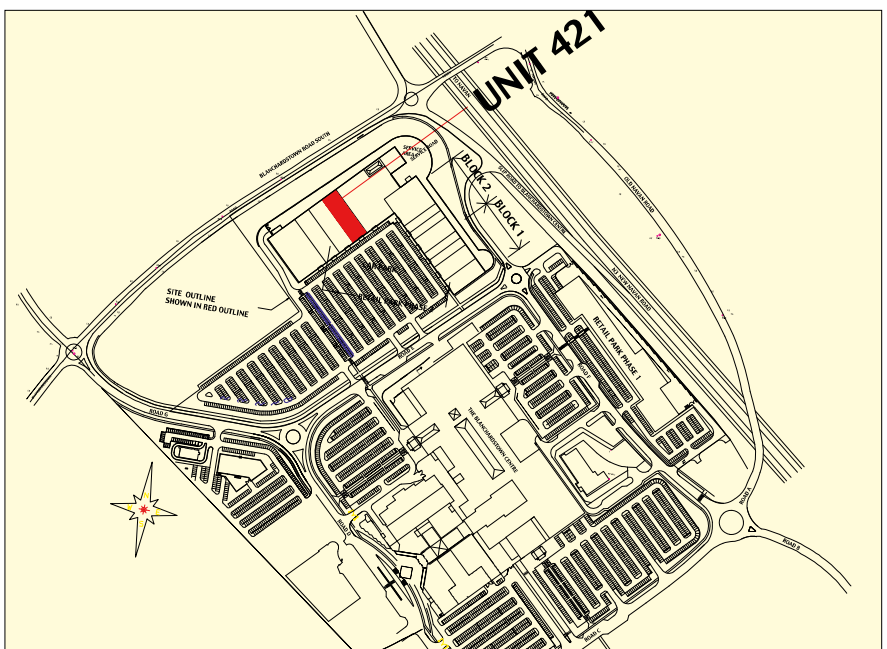
Description & Materials

This mid-terraced two-storey retail unit consists of a buff brick finish at ground floor level and composite architectural metal cladding above. There is a covered walkway with double height feature entrance canopy to the front façade and prominent signage onto the public parking areas.

The ground floor comprises an open plan retail showroom, with ancillary accommodation, namely the store, and canteen areas located at the rear of

the store. There is a first floor mezzanine to the rear of the unit and a smaller first floor mezzanine to the front. This provides accommodation to ESB clerical staff relocated from ESB offices on Fleet Street, Dublin 2. There is a void between the two mezzanine office areas above a suspended ceiling located overhead the retail showroom with roof-lights above. There are four access stairs leading to the first floor mezzanines from each corner of the building.

The building comprises a steel portal frame structure. The windows consist of a powder coated aluminium double glazed curtain walling system to the front and rear of the unit, and profiled metal roofing. There is a brick external leaf to the ground floor with dark grey horizontal bands at intervals. The first floor consists of horizontal architectural flat aluminium cladding panels.



1. Front Elevation. 2. View of Shopping Centre. 3. Interior of Showroom. 4. Brickwork at Ground Level and Canopy Overhead.



Surveyors Name: Eugene Boyle
 Photographer: Eugene Boyle
 Field Controller: Peter Carroll
 O.S. Ref: 3062/C ESB Ref: D/F-SS-3062/C

Architectural Heritage Evaluation:

Record Only	
Local	✓
District	
Regional	
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International	

Categories of Special Interest:

Archaeological (AG)	
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Social (SO)	
Technical (T)	✓

ESB COLLEGE PARK G.I.S 110kV SUBSTATION

Cruiserath Road, Ballycoolin,
Corduff

Date Of Survey: 29th March 2004



Summary

College Park is a high voltage (110kV) to medium voltage (10kV) indoor substation built to upgrade the electricity network and provide the additional capacity required to facilitate further growth, to provide security of supply to existing customers.

The substation is located on the Cruiserath Road, just outside the M50 Motorway in the Dublin suburb of Corduff.

The substation was built on a greenfield site in 2002 and was designed to match the requirements of a high quality business park environment.

The architects were Building Consultancy Group.

Description & Materials

The building is three storeys over basement in scale. The 9.5m high façades incorporate a tripartite composition. The plinth and eaves are clad with a plastisol finished horizontal louvre system which gives a strong horizontal emphasis to the building. The residual wall areas are clad with horizontally laid insulated double skinned architectural composite panels with a goosewing grey plastisol finish. The north façade to the road has no openings in contrast to the southern façade which incorporates a series of

roller shutter doors to facilitate maintenance and changes to heavy equipment such as transformers.

The building is designed as a single volume within which accommodation is organised as a series of layers. The outermost layer is composed of a series of cellular spaces accommodating large transformer rooms, control area, toilets and the fire repression system bottled gas store.

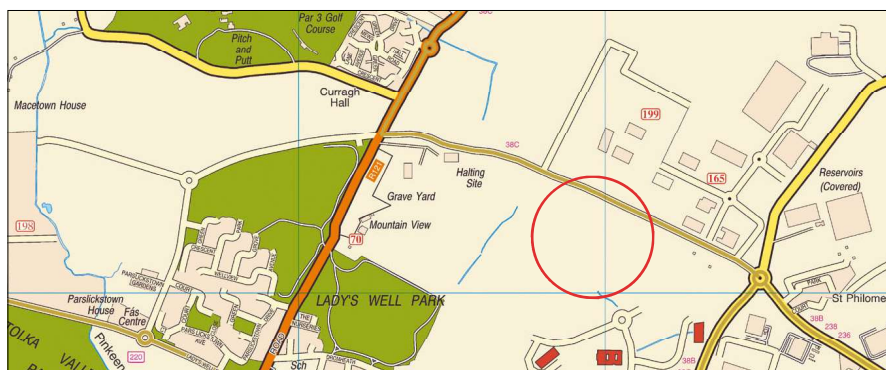
A series of in-situ concrete walls separate the cellular spaces from the open plan operations floor.

The substation building is enclosed in a secure compound and accessed via vehicular gates from the Cruiserath Road. The full volume of the building is visible through the 2m high boundary fence.

The structure of the building is of steel frame and masonry with the roof span broken up by the reinforced concrete wall. The floor area of the building is 1000m² (39mx27m).

Special Interest - Technical

The substation is fed from the Finglas to Mullingar 110kV line. In College Park the incoming 110kV voltage is transformed down to 10kV and distributed to industry at this voltage.



1. Double Height Access Doors. 2. Front and Side Elevation. 3. Interior of Control Room. 4. Corner Detail.

ESB RETAIL SHOP & COMPOUND

Strand Street, Skerries



Date Of Survey: 28th August 2003

Surveyors Name: Mark Tolan
Photographer: Mark Tolan
Field Controller: Peter Carroll
O.S. Ref: 2154/12 ESB Ref: D/F-SS-2154/12

Architectural Heritage Evaluation:

Record Only	✓
Local	
District	
Regional	
National	
International	

Categories of Special Interest:

Archaeological (AG)	
Architectural (A)	
Artistic (AR)	
Cultural (C)	
Historical (H)	✓
Scientific (SC)	
Social (SO)	
Technical (T)	



28th Aug 2003



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Summary

The property is a single storey detached flat roofed building located at the junction of Strand Street and O'Callaghan's Lane in a mainly single and two-storey scale terraced street.

ESB purchased the site and building in 1961 moving from their previous location in Quay Street. The building was refurbished and altered during 1975.

Description & Materials

The front elevation consists of a white aluminium glazed shopfront framed with cut natural stone, the side and rear elevations being rendered, with timber doors and windows. The structure consists of a concrete floor and flat roof with load bearing masonry walls.

The sales area is located to the front of the building with ancillary staff and storage accommodation to the rear. The rear yard is accessed from O'Callaghan's Lane.

The building contains 160m² of floor space on a site of 0.064ha (0.16 acres).

Special Interest - Historical

The site, once occupied by a thatched cottage, was part of the original landholdings of Rt. Hon. James Hans Wellesley Baron Holmpatrick and Rt. Hon Victoria Alexandria Baroness Holmpatrick. It was purchased in 1924 by a William Shaw, bootmaker, for the sum of £85.



1. View along Strand Street. 2. View along Strand Street. 3. Front Elevation. 4. Side Elevation.



28th Aug 2003

Surveyors Name: Mark Tolan
Photographer: Mark Tolan
Field Controller: Peter Carroll
O.S. Ref: 2495/03 ESB Ref: D/F-SS-2495/03

Architectural Heritage Evaluation:

Record Only	
Local	✓
District	
Regional	
National	
International	

Categories of Special Interest:

Archaeological (AG)	
Architectural (A)	
Artistic (AR)	✓
Cultural (C)	
Historical (H)	
Scientific (SC)	
Social (SO)	
Technical (T)	

ESB RETAIL SHOP & DEPOT

Main Street, Swords

Date Of Survey: 28th August 2003



Summary

The property comprises of an attractive detached single storey prominent retail unit facing the main street with office accommodation to the rear, and an enclosed depot and yard area to the side with high enclosing wall, and separate gate access. The site was purchased in two phases: 1960 and 1964.

Description & Materials

The retail unit is octagonal in shape in overall plan form with a feature pitched roof with decorative finial sculpture. The remainder of the office accommodation behind the shop is single storey with a mixture of pitched, flat and monopitched roofs. Construction is mainly load bearing concrete masonry

walls with timber roofs. External finishes consist of painted tyrolean finely dashed render with smooth render plinths. The shop front consists of a blue aluminium glazed bay and entrance door. Elsewhere windows are mainly timber. The building was extensively refurbished in 1989. The architects were ESB, Building Consultancy Group.

Special Interest - Artistic

There is a modern decorative metal finial sculpture to the ridgecap of the octagonal roof above the shop emblazoned with a lightning flash shape symbolic of ESB business.



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1. View to Main Street and Front and Side Elevation. 2. View of Front Elevation. 3. Interior of Showroom. 4. Metal Sculpture to Ridgecap.